Operating Instructions

CD CDV LD PLAYER
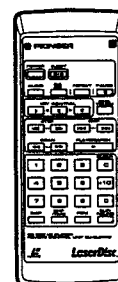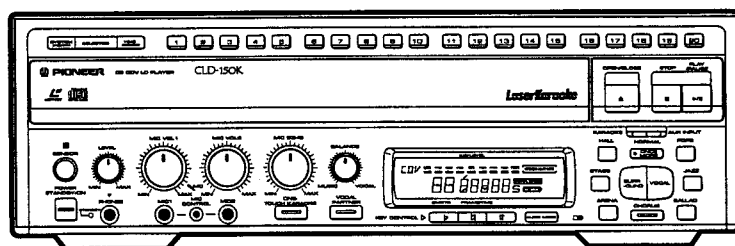
CLD-150K
CLD-1810K

LaserDisc.

PAL/NTSC

LaserKaraoke

COMPACT disc DIGITAL AUDIO

L LASER DISC

• CD–ROM/CD graphic discs cannot be played with this player.

The illustrations found in these Operating Instructions are based on the CLD-150K model.

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.

"This product complies with the Radio Interference requirements of the EC (European Community) Directive 87/308/EEC."

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

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.
Mains voltages in Saudi Arabia are 127V and 220V only. Never use this model with 110V setting in Saudi Arabia.
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.
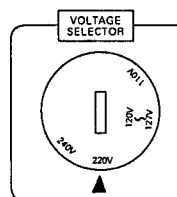
Set the selector so that arrow points to power voltage of your area (Figure shows arrow pointing to 220 volts.)

(ψ) 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.

IMPORTANT

If the apparatus is fitted with AC mains power outlet(s), see REAR PANEL FACILITIES for convenient connection of additional Hi-Fi component(s). Make all connections to the AC outlet(s) and the signal terminals first. Connect the plug to the wall socket last (make sure that the power switch is off.)

FOR USE IN THE UNITED KINGDOM

The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral
Brown: Live
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured making identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.
Do not connect either wire to the earth terminal of a three pin plug.
Equipment sold in the U.K. is not supplied with a power plug.
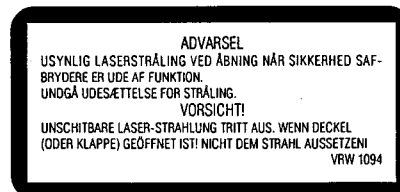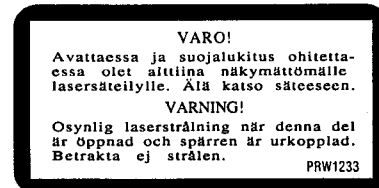

IMPORTANT

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

The following caution labels appear on your player.

Location: On the rear panel of the player

CLASS 1
LASER PRODUCT
VRW-328

On the bonnet of the player

VARO!
Avattaessa ja suojalukitus ohitetta-
essa olet aittiina näkymättömälle
lasersäteilylle. Älä katso säteeseen.
VARNING!
Osynlig laserstrålning när denna del
är öppnad och spärren är urkopplad.
Betrakta ej strålen.   PRW1233

ADVARSEL
USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHED SAF-
BRYDERE ER UDE AF FUNKTION.
UNDGÅ UDESÆTTELSE FOR STRÅLING.
VORSICHT!
UNSCHITBARE LASER-STRAHLUNG TRITT AUS. WENN DECKEL
(ODER KLAPPE) GEÖFFNET IST! NICHT DEM STRAHL AUSSETZENI
VRW 1094

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.

CONTENTS

Information to User

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

■ This player may be used with LaserDiscs, Compact Discs, and Compact Discs with Video bearing the following symbols:

(LASERDISC SYSTEM)/(LaserVision Disc)*

LASERDISC   *LaserVision*

This is the unified symbol mark of LASERDISC (LaserVision videodisc).
* LaserDisc players and discs which bear this symbol and use the same television system, are mutually compatible.

(Compact Disc)   **(**CD VIDEO SYSTEM)**   **(8 cm Compact Disc)**

COMPACT
DIGITAL AUDIO   CD VIDEO   CD VIDEO LD   C D SINGLE

** 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.

Only one disc can be loaded at any one time. Loading a LaserVision Disc, a Compact Disc, an 8 cm 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.

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.
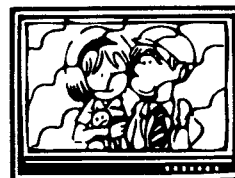
CONDENSATION
Moisture will form in the operating section of the player if the player is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, player's performance will be impaired.
To prevent this, let the player stand in its new surroundings 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 search buttons 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: Hall, Stage and Arena. 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.

Vocal Effect Function Matches the Vocal Sound to the Music Genre
Use this function to create crisp high vocals, low resounding vocals or reverberating vocals to match the mood or genre of the song. A chorus function is also provided for making the voice of one person sound like two or three. Like the surround function, the vocal effect function uses a DSP for superior sound quality.

Vocal Partner Function Replaces the Original Vocal Sound with Your Own Voice
If you press VOCAL PARTNER and sing into the microphone, the original vocals will be cut out and replaced with your own voice.

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 a 9-step range.

Magic Voice Function Allows You to Freely Change the Sound of Your Voice
By operating the KEY CONTROL buttons, you can freely heighten or lower the pitch of your voice.

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.

LD (LaserDisc) Playback Functions

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

Still Frame Playback (CAV discs only)
Still frame playback and Frame Advance Playback (forward/reverse) are available.

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

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

CD (Compact Disc) Playback Functions

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

Repeat Playback
Three repeat modes - 1-Track Repeat, One-side Repeat and Program Repeat - are available.

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.

CDV (Compact Disc with Video) Playback functions

* 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.

5

<VRB1077>

Other Features

NTSC → PAL System Conversion
NTSC discs can be played back onto a PAL colour TV.

Compatible with Wide-Aspect-Type TV (CLD-150K only)
When watching a squeezed LD, the screen size will be fitted to the size of the wide-aspect-type TV. (Only when the AV CONNECTOR terminal is connected.)

Auto Loading and Automatic Disc Discrimination Functions
This unit has a built-in motor-driven auto loading mechanism which automatically opens and closes the disc table and makes disc loading easy.
Also, once a disc is placed on the table and the table is retracted into the player, the player automatically detects which type of disc (LD, CD, or CDV) is loaded.

Zero-Cross Distortion-Free D/A Converter
Digital-to-analogue conversion is smoother than ever. In particular, this converter is designed to eliminate zero-cross glitching noise and improve linearity in lower levels, with the noise shaping technology doubly applied at digital filter and digital-to-analogue conversion steps, all for smoother and more accurate D/A signal conversion. The result is deep, clear sound with sharp image localization.

Compatibility with Many Disc Types and Sizes
In addition to conventional LDs (30 cm, 20 cm), CDs (12 cm), and CDV discs (12 cm), the player can play thin-type 20 cm LDs and 8 cm CD singles without an adaptor.
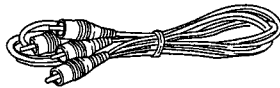
ACCESSORIES

When unpacking the player, first check to make sure that all of the accessories listed below are supplied.
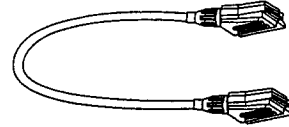
- Remote control unit
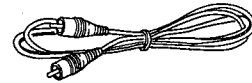- Size "AAA" (IEC R03) dry cell battery x 2
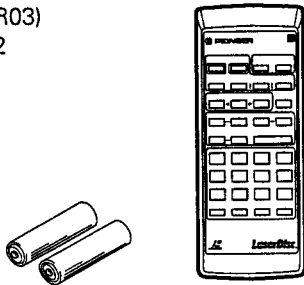
- Audio cord
  (Pin plug x 2 ←→ Pin plug x 2)
  Use to connect the player to a stereo amplifier etc.

- Euroconnector cable (CLD-150K only)
  (SCART ←→ SCART)

- Video cord (CLD-1810K only)
  (Pin plug ←→ Pin plug)
  Use to connect the player to a color monitor 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 ($\oplus$, $\ominus$) 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 $\oplus$ and negative $\ominus$ 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.
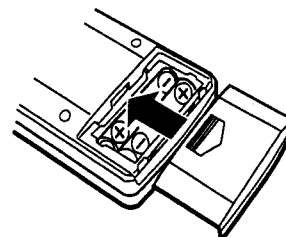
1
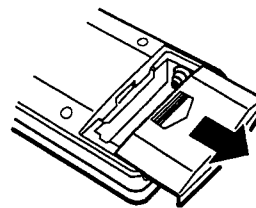
2
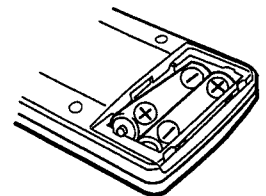
3

DISCS

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

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

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

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

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

LD DISCS

This unit can play both LD Discs and Compact Discs. Unlike conventional phonograph records, these discs are played back from the inside edge out.
LD Discs are available as both active play discs and long play discs.

● ACTIVE/STANDARD PLAY (CAV) DISCS
Active play discs are played at constant angular velocity (CAV).

NOTE:
This unit cannot perform multispeed playback even with Active Play/Standard Play Discs.
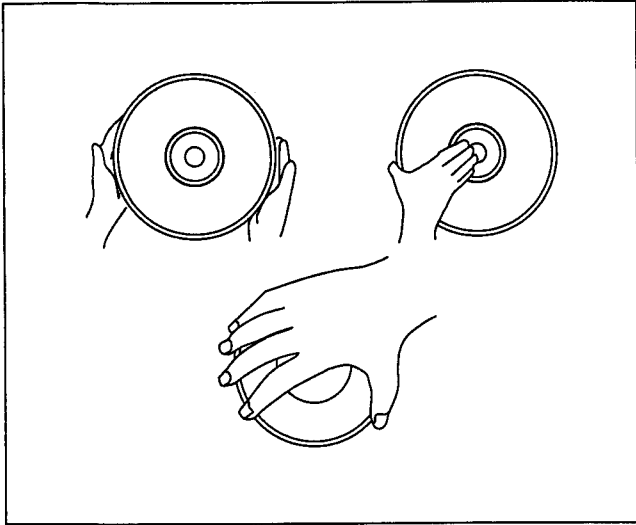
● LONG/EXTENDED PLAY (CLV) DISCS
These discs are played back at constant linear velocity (CLV), and are therefore able to play for a longer time than active play discs.
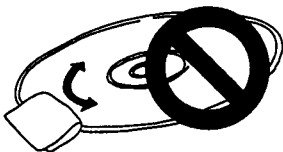
CARE OF DISCS

How to hold discs
When loading or removing discs, try not to touch their playing surfaces.
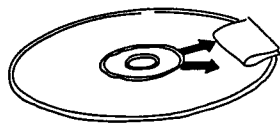
Cleaning
Fingerprints or other dirt on the disc may affect sound and picture quality.

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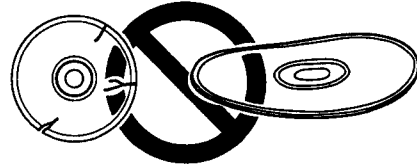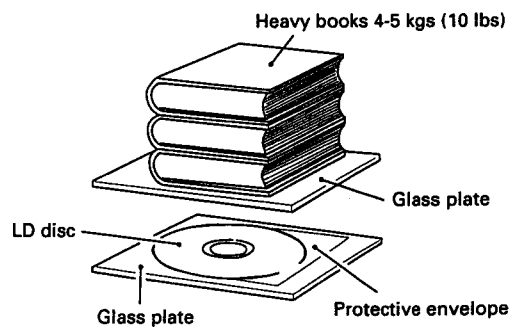
After using discs, store them upright
After playing a disc, always remove it from the player and return it to its jacket. Then store it standing upright away from heat and humidity.

● 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.

Heavy books 4-5 kgs (10 lbs)

Glass plate

LD disc

Glass plate   Protective envelope

CONNECTIONS

Euroconnector cable

ATT (attenuator)* switch

CLD-150K

Tape karaoke unit, etc.

To the output jack(s)

Commercially available cord with mini-plugs (without load)

To power outlet

Audio cord

Video cord (optional)

USING TELEVISION WITH AUDIO AND VIDEO JACKS

Video cassette recorder, etc.

UHF television antenna

VHF television antenna

AUDIO IN
L
R

VIDEO IN

SYSTEM REMOTE CONTROL CONNECTION

When using PIONEER projection monitor

CONTROL
OUTPUT

VIDEO DISC
LD
VIDEO
AUDIO
L
R

When using PIONEER AV amplifier with the ⓢⓡ mark

VIDEO INPUT

AUDIO
L
R

CONTROL OUTPUT

AV amplifier

USING STEREO AUDIO SYSTEM

CD
L
R

Stereo amplifier

Euroconnector cable (optional)

VHF ADAPTOR OUTPUT

CLD-1810K

ATT (attenuator)* switch

RF modulator (optional)

To power outlet

Tape karaoke unit, etc.

To the output jack(s)

Audio cord

Video cord

USING TELEVISION WITHOUT AUDIO AND VIDEO JACKS (WITH OPTIONAL RF MODULATOR) (CLD-1810K only)

Player, regular television, stereo system

VHF television antenna

UHF television antenna

RF antenna cable

USING TELEVISION WITH AUDIO AND VIDEO JACKS

UHF television antenna

VHF television antenna

AUDIO IN
L
R

VIDEO IN

USING STEREO AUDIO SYSTEM

CD
L
R

Stereo amplifier

ANTENNA

TV

CD
L
R

Stereo amplifier

11

<VRB1077>

CONNECTIONS

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.
- When using a video TV monitor (or TV) with AV CONNECTOR terminal, connect the AV CONNECTOR terminal to the AV CONNECTOR IN/OUT terminal of the player. Use a Euroconnector cable.
- When using a video cassette recorder with AV CONNECTOR terminal, connect the AV CONNECTOR terminal to the AV CONNECTOR IN/OUT terminal of the player.
  When a TV has been connected to the player using the AV CONNECTOR terminal, signals from the video cassette recorder are fed to the TV set via the player while the player is turned off. (CLD-150K only)
- When using wide-aspect-type TV (16:9), be sure to connect the AV CONNECTOR terminal to the AV CONNECTOR IN/OUT terminal of the player. (CLD-150K only)

- **ATT (attenuator) switch (*)**
  When the television speakers are used, the sound may be distorted. In this case, set ATT 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.

USING TELEVISION WITHOUT AUDIO AND VIDEO JACKS (WITH OPTIONAL RF MODULATOR) (CLD-1810K only)

1. Detach the VHF antenna cable from the VHF antenna terminal of your TV set, and connect the cable to the VHF IN terminal of the RF modulator (optional).
2. Connect the VHF OUT terminal of the RF modulator to the VHF antenna terminal of your TV set with the supplied RF cable.
3. Connect the socket (3-pin) of the RF modulator to the VHF ADAPTOR OUTPUT 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.*

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).
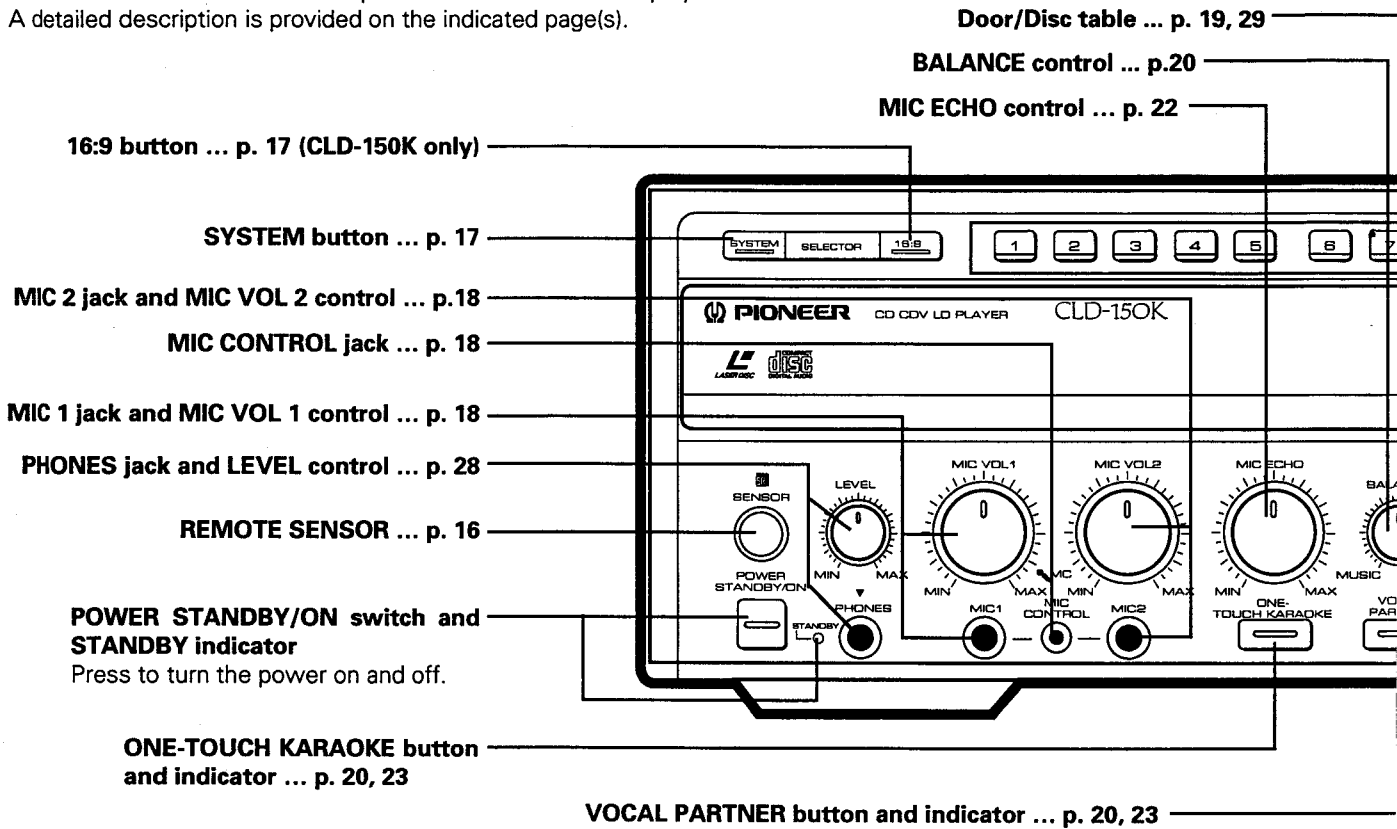● For details concerning the connection and operation methods, please refer to the operating instructions for the AV amplifier.
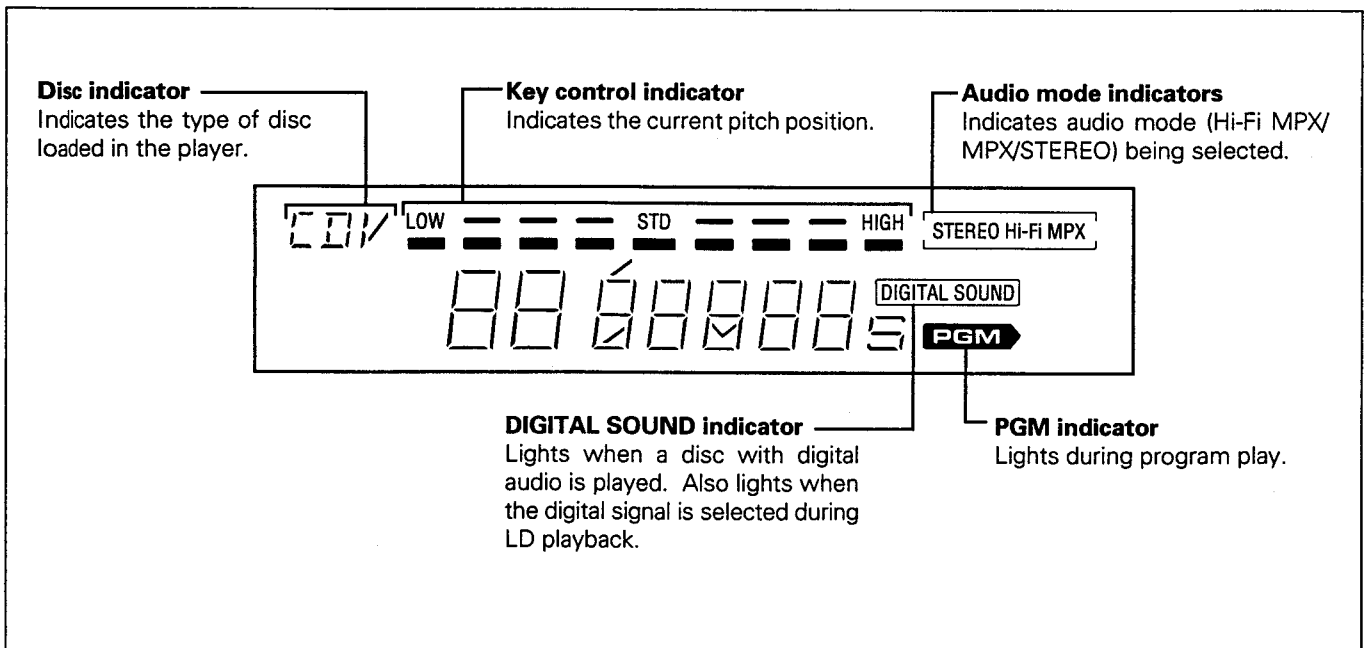
NOTE:
When a connecting cord has been connected to the CONTROL IN jack, direct control of the player with the remote control unit is not possible. Operate the player with the remote control unit by aiming it at the AV amplifier.
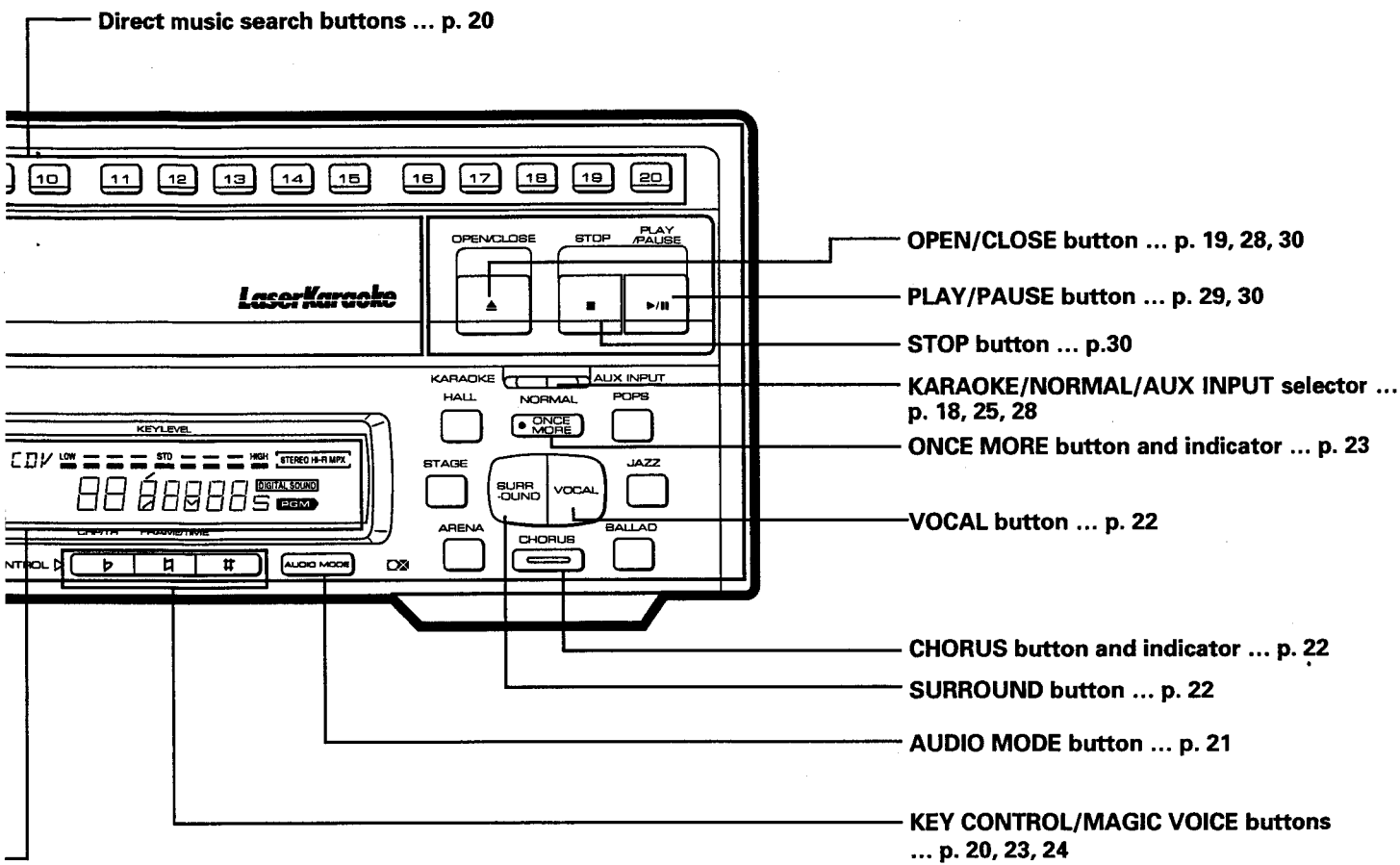
NAMES AND FUNCTIONS OF FRONT PANEL COMPONENTS

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

Door/Disc table ... p. 19, 29

BALANCE control ... p.20

MIC ECHO control ... p. 22

16:9 button ... p. 17 (CLD-150K only)

SYSTEM button ... p. 17

MIC 2 jack and MIC VOL 2 control ... p.18

MIC CONTROL jack ... p. 18

MIC 1 jack and MIC VOL 1 control ... p. 18

PHONES jack and LEVEL control ... p. 28

REMOTE SENSOR ... p. 16

POWER STANDBY/ON switch and
STANDBY indicator
Press to turn the power on and off.

ONE-TOUCH KARAOKE button
and indicator ... p. 20, 23

VOCAL PARTNER button and indicator ... p. 20, 23

Display window

Disc indicator
Indicates the type of disc
loaded in the player.

Key control indicator
Indicates the current pitch position.

Audio mode indicators
Indicates audio mode (Hi-Fi MPX/
MPX/STEREO) being selected.

LOW — — — — STD — — — — HIGH STEREO Hi-Fi MPX

DIGITAL SOUND

PGM ▶

DIGITAL SOUND indicator
Lights when a disc with digital
audio is played. Also lights when
the digital signal is selected during
LD playback.

PGM indicator
Lights during program play.

Direct music search buttons ... p. 20

OPEN/CLOSE button ... p. 19, 28, 30

PLAY/PAUSE button ... p. 29, 30

STOP button ... p.30

KARAOKE/NORMAL/AUX INPUT selector ... p. 18, 25, 28

ONCE MORE button and indicator ... p. 23

VOCAL button ... p. 22

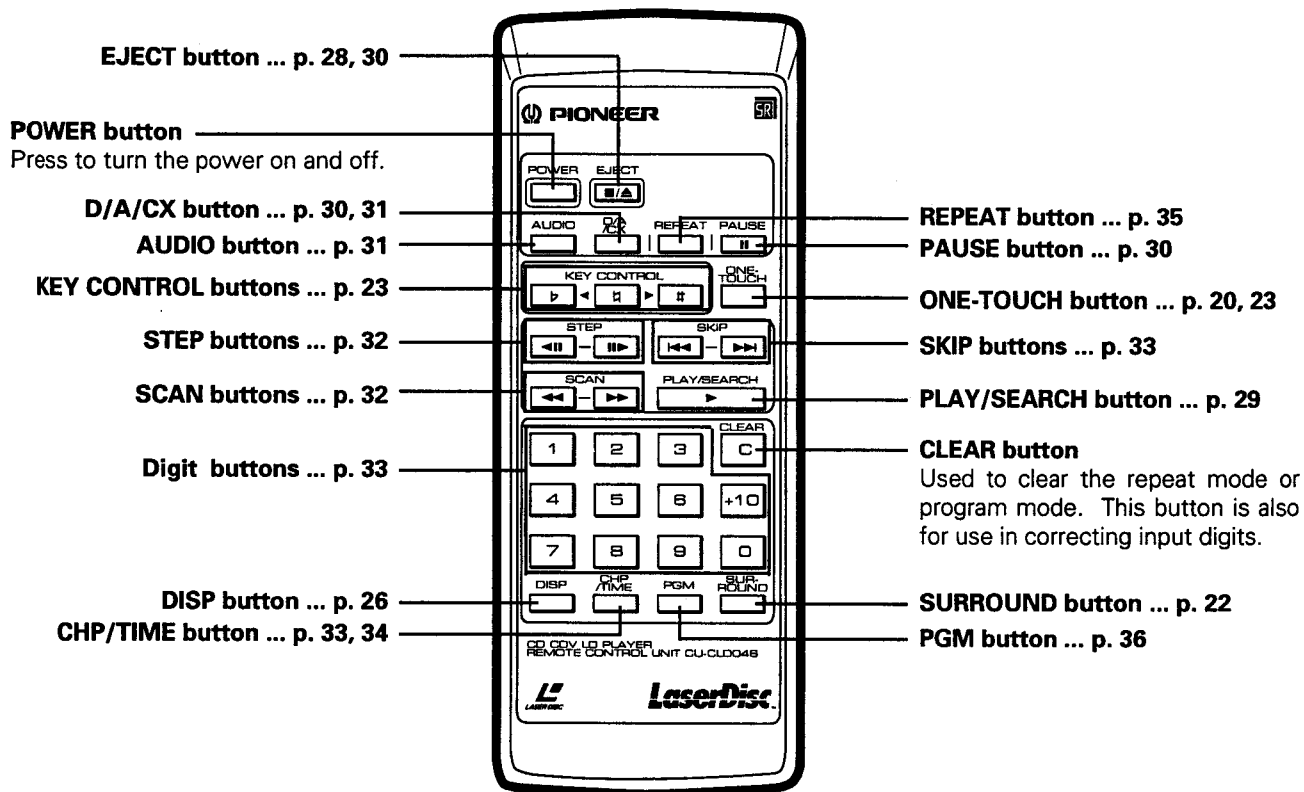CHORUS button and indicator ... p. 22

SURROUND button ... p. 22

AUDIO MODE button ... p. 21

KEY CONTROL/MAGIC VOICE buttons ... p. 20, 23, 24

The illustration shows CLD-150K.

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 26 onwards.

EJECT button ... p. 28, 30

POWER button
Press to turn the power on and off.

D/A/CX button ... p. 30, 31

AUDIO button ... p. 31

KEY CONTROL buttons ... p. 23

STEP buttons ... p. 32

SCAN buttons ... p. 32

Digit buttons ... p. 33

DISP button ... p. 26

CHP/TIME button ... p. 33, 34

REPEAT button ... p. 35

PAUSE button ... p. 30

ONE-TOUCH button ... p. 20, 23

SKIP buttons ... p. 33

PLAY/SEARCH button ... p. 29

CLEAR button
Used to clear the repeat mode or program mode. This button is also for use in correcting input digits.

SURROUND button ... p. 22

PGM button ... p. 36

When operating the remote control unit, point the unit's infrared signal transmitter at the remote control receiver (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.
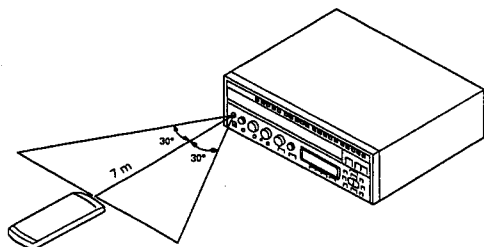
NOTE FOR USING THE REMOTE CONTROL UNIT
● If a plug is connected to the CONTROL IN terminal at the rear of the player, remote control operations cannot be done with the remote control unit aimed at the player's remote control sensor. Aim the remote control unit at the AV amplifier or the component display's 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 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.

SYSTEM SELECTOR OPERATIONS

■ SYSTEM button

CLD-150K

SYSTEM	SELECTOR	16:9

CLD-1810K

═══	SYSTEM SELECTOR

Use this button to change mode according to the type of TV and disc to be used.
When playing an NTSC disc, press SYSTEM to switch the mode according to the TV system.
The mode changes according to the following table:

DISC	TV\MODE	PAL		NTSC	
		COLOUR	SIZE	COLOUR	SIZE
PAL		COLOUR	FULL	BLACK/WHITE	STRETCH
NTSC	NTSC	BLACK/WHITE	*SHRINK	COLOUR	FULL
	MOD. PAL	COLOUR	*SHRINK	BLACK/WHITE	FULL

- In this table, "SHRINK" in the size column means that the screen shrinks in vertical direction; "STRETCH" means that the screen stretches approximately 120% in vertical direction; and "FULL" means normal size.
- In MOD. PAL mode, the colour of the background is black when the power is turned on or NTSC system discs are played.
  In NTSC mode or PAL mode, the colour of the background is blue.

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

■ When using wide-aspect-type TV and playback squeezed LD (CLD-150K only)

Wide-aspect-type TV

SYSTEM	SELECTOR	16:9
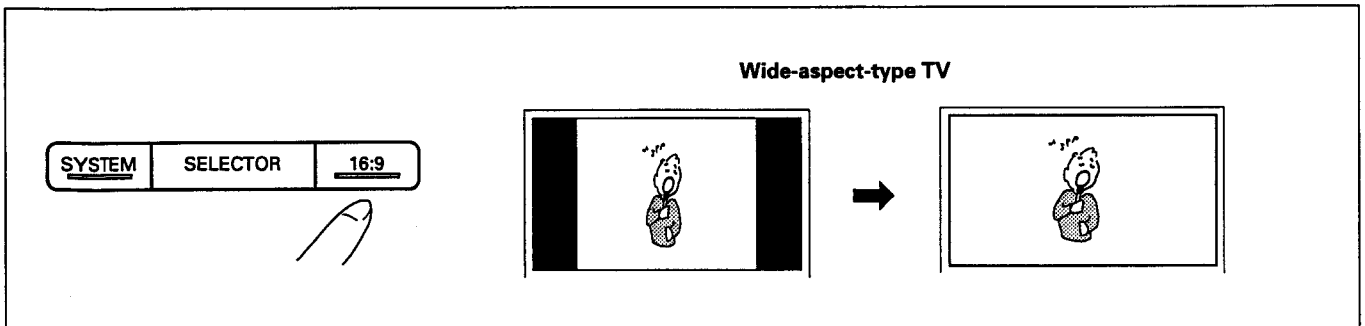
During playback, press the 16:9 button on the front panel.
With squeezed LD discs, the picture is expanded suitably for the wide-aspect-type TV.

NOTES:
- *On a general screen (4:3) TV, with discs of the squeezed LD, the picture is shrunk horizontally.*
- *This function is carried out only when the AV CONNECTOR terminal is connected. When only the VIDEO OUT jack is connected, this function is not carried out.*
- *When a general screen (4:3) TV is connected to the AV CONNECTOR terminal and the 16:9 button is pressed during playback, the input mode of the TV will change (such as TV tuner etc.).*
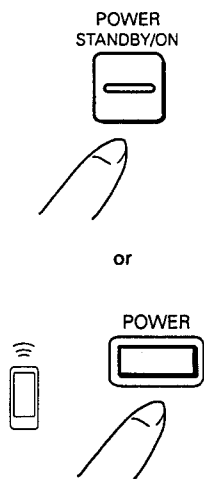
BEFORE STARTING KARAOKE PLAY

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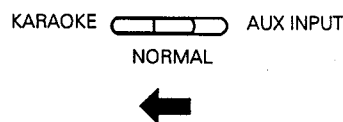- Operations indicated by the [☐] mark are performed with the remote control unit.

When using separately sold microphones with control-use miniplug

4 **1** **3**
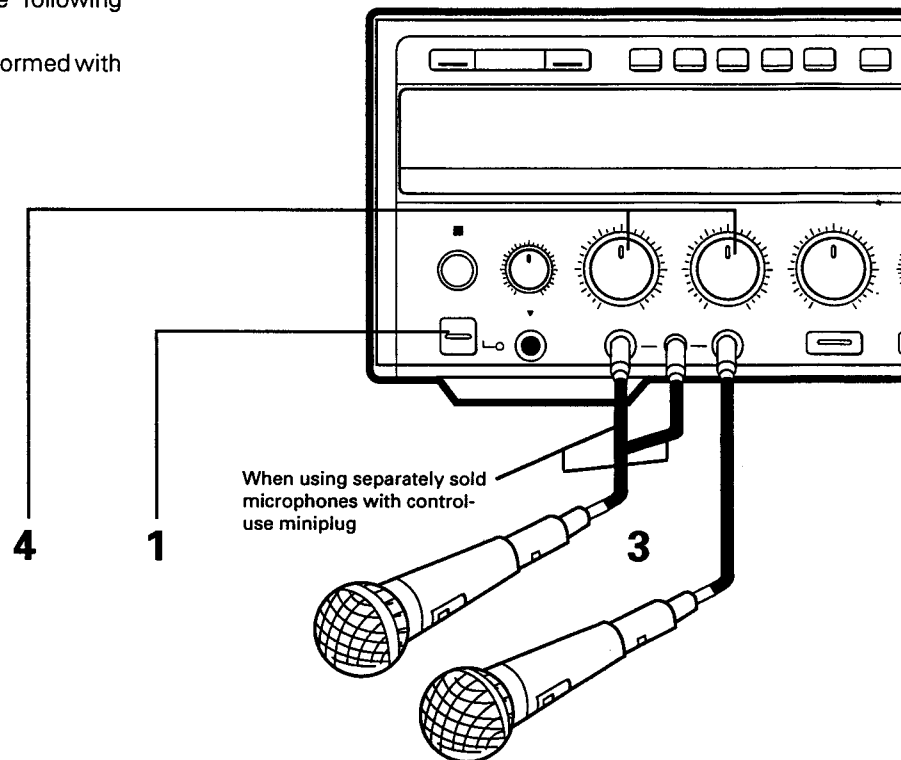
1
Turn on the power to the player.

POWER
STANDBY/ON

or

POWER

2
Set the player to KARAOKE mode.

KARAOKE ⊂▭▭⊃ AUX INPUT
NORMAL

←

For karaoke play, always set this selector to KARAOKE to set the player to KARAOKE mode.

3
Connect and turn on the microphone(s).

- To MIC 1 or MIC 2.
- To MIC 1 and MIC 2 for duets.

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.

5

2

4
Adjust the microphone level.

For MIC 1

For MIC 2

MIC VOL1

MIC VOL2

MIN   MAX

MIN   MAX

MIC1

MIC2
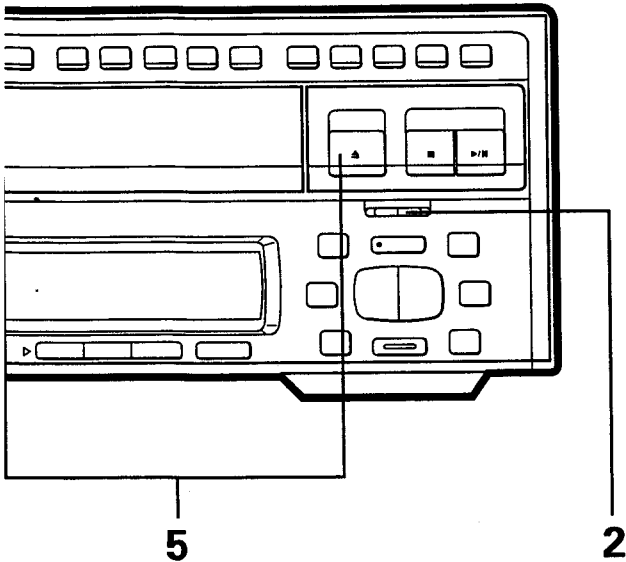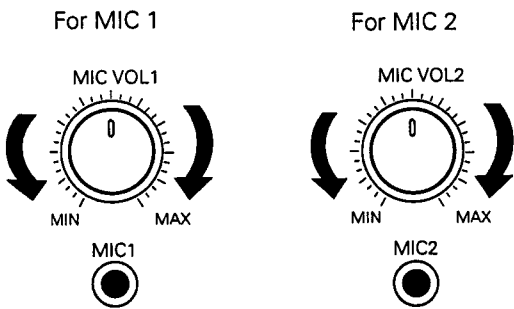
Adjust the microphone level while speaking into the microphone. (You can also adjust the level while singing during karaoke play.)

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.)

5
Load a disc.
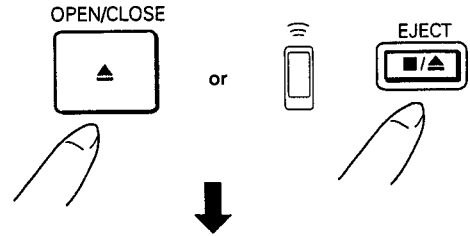
OPEN/CLOSE

or

EJECT

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.

CD/CDV: Place the disc with the label side up.
LD: Place the disc with desired side's label up.

12 cm CD/CDV

8 cm CD

20 cm LD

30 cm LD

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 adaptors. Therefore, do not use any type of adaptor with this unit.

ENJOYING LASER/CD KARAOKE - BASIC OPERATION

MIC VOL for MIC 1
MIC VOL for MIC 2
ONE-TOUCH KARAOKE
MIC ECHO
KEY CONTROL
BALANCE
VOCAL PARTNER
VOCAL
SURROUND
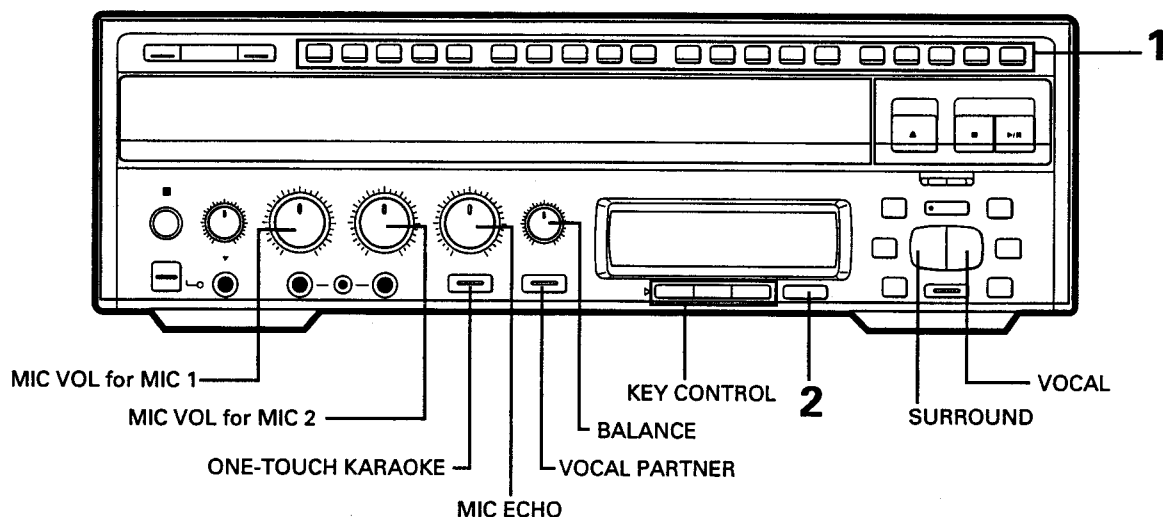
1

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.

To play mainly 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.

To use the VOCAL PARTNER function (Except for general CDs, CDVs or LDs):
1. Turn the BALANCE control to the VOCAL side.
2. Press VOCAL PARTNER so that the indicator lights.
When you sing into the microphone, your voice replaces the original vocals on the disc. This function is useful when practicing duets.

To change the musical pitch:
Use the KEY CONTROL buttons to set the desired pitch.
Pressing ♭ lowers the pitch and pressing ♯ heightens the pitch.
Pressing ♮ returns the pitch to normal.
When using the key control buttons on the microphone, press the button until the musical pitch changes.

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 VOL control(s), SURROUND and VOCAL to the desired positions. For echo adjustment, see page 22.
- Hi-Fi stereo multiplexed sound is possible when using a karaoke disc which bears the mark ▊▊/MULTI AUDIO or ▊▊ and MULTI AUDIO.
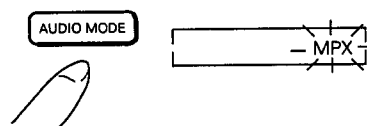
2

(Except for LDs with analog audio only)

When using multi audio karaoke discs with digital audio which conform to NTSC system:
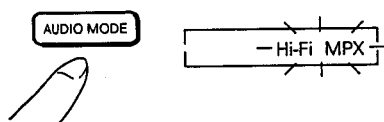
AUDIO MODE   — Hi-Fi MPX —

Press AUDIO MODE so that the Hi-Fi MPX indicator lights on the display window.
- Set the BALANCE control to the MUSIC side.

When using sound multiplexed LD or CD karaoke discs:

AUDIO MODE   — MPX —

Press AUDIO MODE so that the MPX indicator lights on the display window.
- Set the BALANCE control to the MUSIC side.

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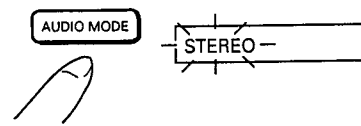
AUDIO MODE   — STEREO —

Press AUDIO MODE so that the STEREO indicator lights on the display window. The BALANCE control does not function in this mode.

To stop karaoke play:
1. Press OPEN/CLOSE ▲ 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 OPEN/CLOSE ▲ 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.
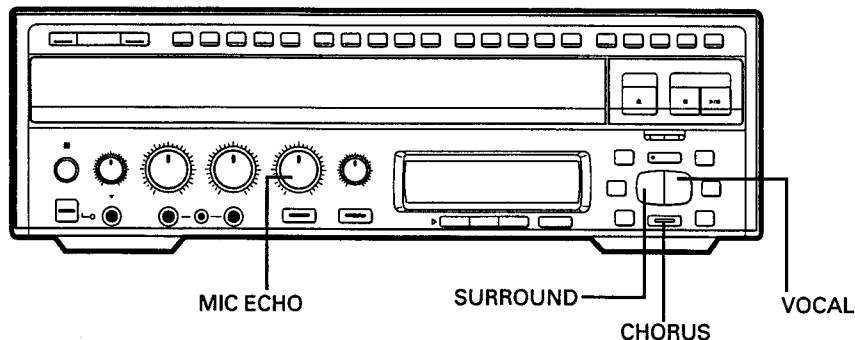
Displays in KARAOKE mode

Lights - Flashes	Function
KARAOKE	Karaoke mode
HI-FI MPX	Hi-Fi multiplexed
MPX	Multiplexed

On screen displays except for KARAOKE mode

Lights - Flashes	Function
NORMAL	Normal mode
AUX	Auxiliary input mode

CONVENIENT FUNCTIONS FOR KARAOKE PLAY - "MOOD UP" FUNCTIONS

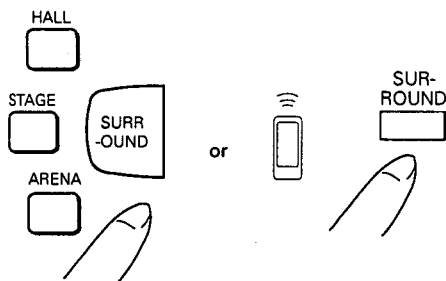MIC ECHO   SURROUND   VOCAL
                  CHORUS

To adjust the microphone echo level

MIC ECHO
MIN   MAX
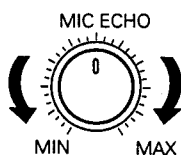
Echo is increased by turning the control to the right and decreased by turning the control to the left.

To create a live atmosphere (Surround function)

HALL

STAGE   SURR-OUND   or   SUR-ROUND

ARENA

Press the SURROUND button, then select HALL, STAGE or ARENA to create the desired atmosphere.
HALL: Creates an atmosphere of singing in a concert hall. Echo and reverberation sounds are relatively long.
STAGE: Creates an atmosphere of singing on an indoor stage. Direct sounds are emphasized and reverberation sounds are suppressed.
ARENA: Creates an atmosphere of singing on an outdoor stage. Reverberation sounds are small and echoes are long.

To match the atmosphere to the music genre (Vocal effect function)

POP
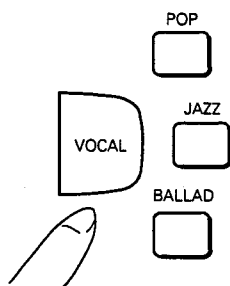
JAZZ

VOCAL

BALLAD

Press the VOCAL button, then select POP, JAZZ, or BALLAD to create the desired vocal effect.
POP: This mode is best for crisp, energetic vocals. High frequencies are emphasized and echoes are short.
JAZZ: Set this mode for deliberate, unhurried vocals. Low frequencies are emphasized and echoes are long.
BALLAD: This mode is best for soft, gentle vocals. Echoes are subdued with short delay times.

## To create a chorus effect (Chorus function)
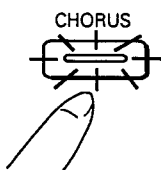
CHORUS

Press the CHORUS button.
High vocal sounds of 1/8 pitch and 1/4 pitch are added to the original vocals, creating the effect of two or three people singing.
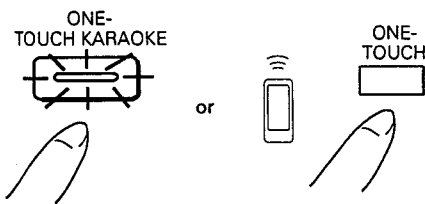
NOTE:
The chorus function, key control function and vocal effect function cannot operate simultaneously.

# CONVENIENT FUNCTIONS FOR KARAOKE PLAY - FOR PRACTICING

ONCE MORE

ONE-TOUCH KARAOKE

VOCAL PARTNER

KEY CONTROL
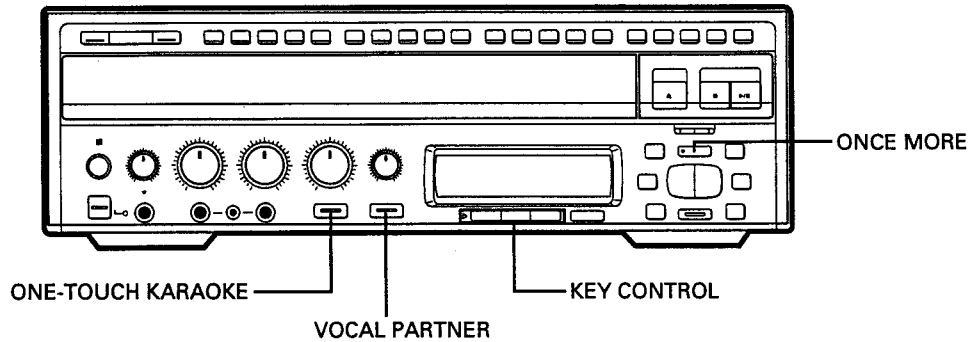
To change to karaoke play at the touch of a button

ONE-TOUCH KARAOKE

or

ONE-TOUCH

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.

To use the "Vocal Partner" function so that the original vocals are replaced with your voice when you sing

VOCAL PARTNER
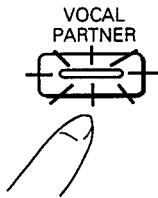
For Example:
With duets, you can sing only the male (female) part and let the original vocals sing the female (male) part. This is convenient for practicing only the male (female) part.

## To set a desired pitch (Key control function)

KEY CONTROL

or
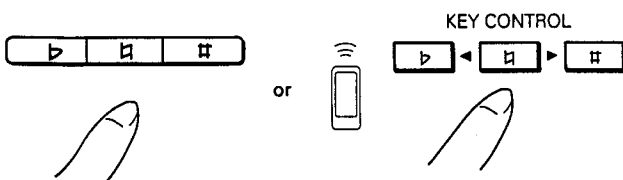
♯ : Pitch is heightened each time this button is pressed (up to 4 steps from normal).
♮ : Pitch returns to normal.
♭ : Pitch is lowered each time this button is pressed (down to 4 steps from normal).
● The current pitch position is shown by the lit indicator.

To repeat a section to correct a singing mistake
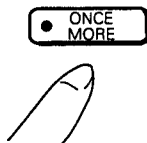
ONCE MORE

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.
● 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.
● The indicator on the ONCE MORE button blinks while the player is searching for the return point.
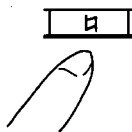
CONVENIENT FUNCTIONS FOR KARAOKE PLAY - FOR PRACTICING
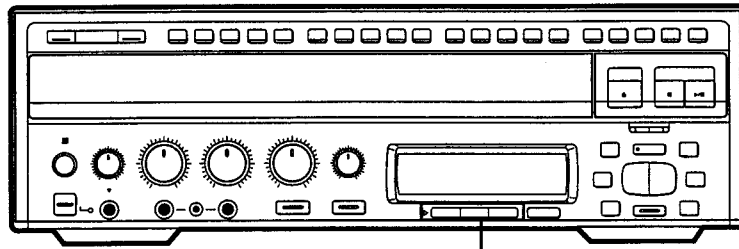
└─KEY CONTROL/MAGIC VOICE buttons

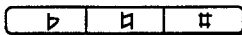## To use the MAGIC VOICE effects for the microphone audio

1

Press the ♮ KEY CONTROL/
MAGIC VOICE button for
approximately 1 second.

➡

LOW — — —\STD/— — — HIGH

The center KEY CONTROL/MAGIC VOICE
indicator starts blinking on the display window.

2

While this indicator is blinking, you can heighten or lower
the pitch of the microphone audio. (Magic voice function)
To cancel MAGIC VOICE, press ♮ again.
● While using MAGIC VOICE, the Key control function
cannot be used to change the pitch of the disc audio.

**Automatic discrimination of disc type and setting of the AUDIO
MODE button when playing various types of discs:**
● CD, CDV, AUX INPUT audio
You can use the AUDIO MODE button to select either stereo or
multiplex.
● LD with analog audio only
The player automatically determines whether the disc is multiplex
or stereo. If the disc is multiplex, you can use the AUDIO
MODE button to select either stereo or multiplex.
● LD with digital audio (discs which contain both digital and analog
audio: NTSC only)

	Digital audio	Analog audio	Initial setting of the AUDIO MODE	AUDIO MODE button
Discs which bear the ▱LD mark	STEREO	MULTIPLEX	HIFI-MPX	Will function
	STEREO	STEREO	STEREO	Will not function
	MULTIPLEX	MULTIPLEX	MULTIPLEX	Will not function
Discs without the ▱LD mark	Will be regarded as STEREO	MULTIPLEX	HIFI-MPX	Will function
		STEREO	STEREO	Will not function

ADDITIONAL FUNCTIONS POSSIBLE WITH OTHER KARAOKE DEVICES

Connection

Player rear panel

Tape karaoke unit, etc.
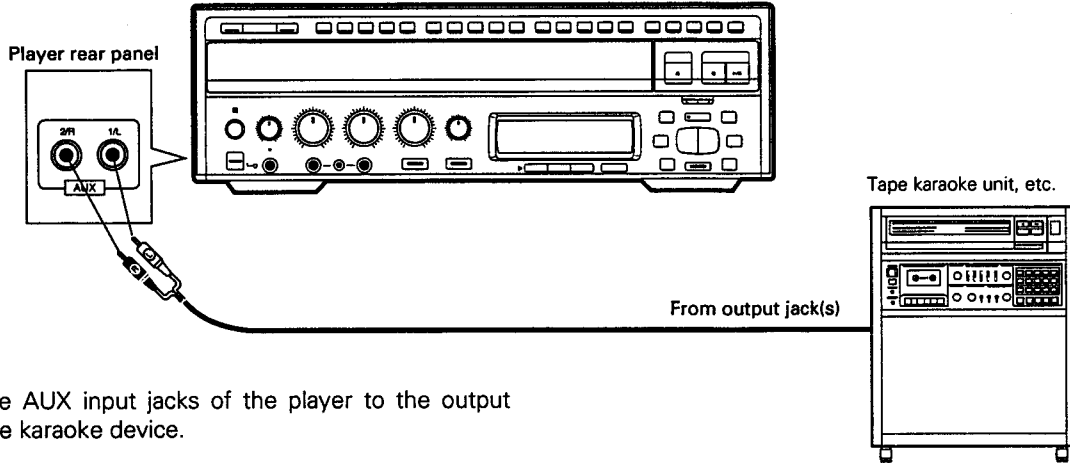
From output jack(s)

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

Operation

1 Turn on the power.

POWER
STANDBY/ON
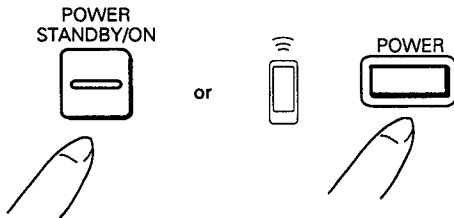
or

POWER

2 Set the KARAOKE/NORMAL/AUX INPUT switch to AUX INPUT.

KARAOKE ⊂▭⊃ AUX INPUT

NORMAL

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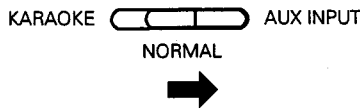
3 Select the audio mode that corresponds to the auxiliary device.

● 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.

If the auxiliary input component is a stereo device:
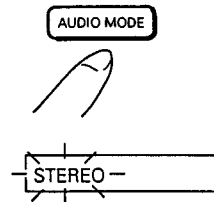
AUDIO MODE

─|STEREO─|

Press AUDIO MODE so that the STEREO indicator lights.
(The BALANCE control does not function in this mode.)

If the auxiliary input component is a sound multiplexed device:

AUDIO MODE

─ MPX ─
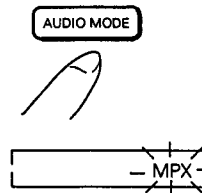
Press AUDIO MODE so that the MPX indicator lights.
(The BALANCE control functions in this mode.)

● The musical pitch of the device connected to the AUX input jacks can be changed using the KEY CONTROL buttons. Also, the Vocal Partner function and One Touch Karaoke function can be carried out.

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 ALL (remaining play time of the disc) → TOTAL (total play time of the disc) → display off.
● With CAV discs, the DISC ABS (elapsed play time from the beginning of the disc) is displayed after the frame number.

No display → DISP → Screen display
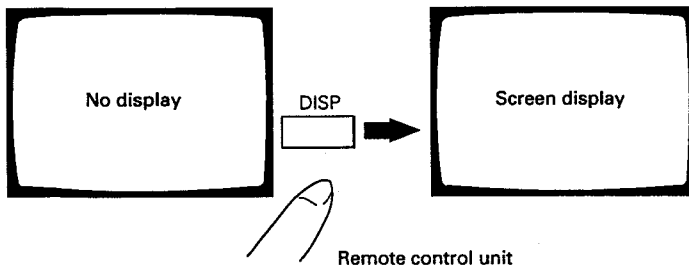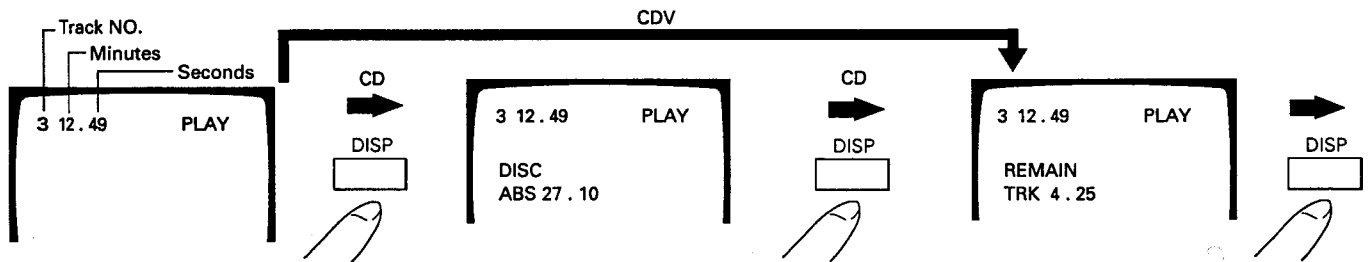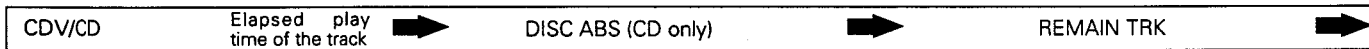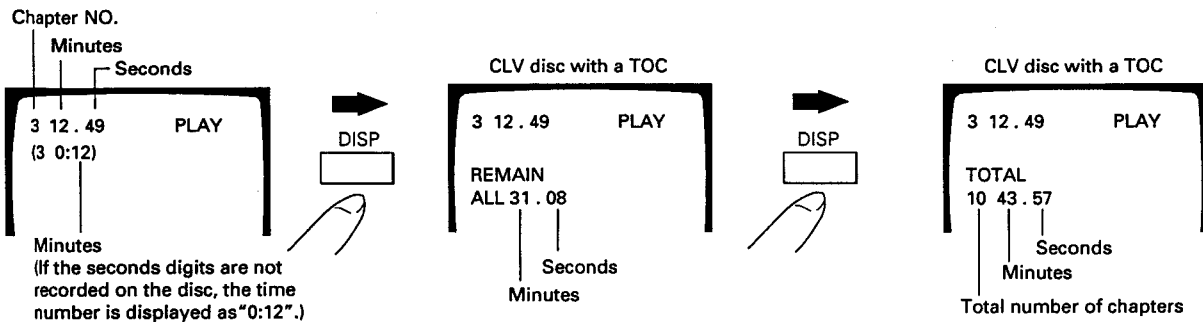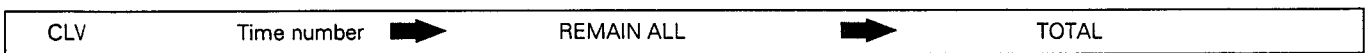
Remote control unit

| CLV | Time number ➡ | REMAIN ALL | ➡ | TOTAL |

Chapter NO.
Minutes
Seconds

3 12.49   PLAY
(3 0:12)

Minutes
(If the seconds digits are not recorded on the disc, the time number is displayed as "0:12".)

DISP →

CLV disc with a TOC

3 12.49   PLAY

REMAIN
ALL 31.08

Seconds
Minutes

DISP →

CLV disc with a TOC

3 12.49   PLAY

TOTAL
10 43.57

Seconds
Minutes
Total number of chapters

| CDV/CD | Elapsed play time of the track ➡ | DISC ABS (CD only) | ➡ | REMAIN TRK | ➡ |

Track NO.
Minutes
Seconds

3 12.49   PLAY

CDV

CD
DISP →

3 12.49   PLAY

DISC
ABS 27.10

CD
DISP →

3 12.49   PLAY

REMAIN
TRK 4.25

DISP →

Other displays

Lights - Flashes	Function	Lights - Flashes	Function
OPEN	Opening of the table	PROGRAM	Program mode
CLOSE	Closing of the table	STEP–	Chapter/Track program step
STOP	Stop mode	DIGITAL	Digital signal setting
PLAY	Play mode	ANALOG	Analog signal setting
PAUSE	Pause mode	STEREO	Stereo
STILL	Frozen picture	1/L CH	Main audio/Left channel
CLV	CLV play	2/R CH	Sub audio/Right channel
VIDEO	Video part search	CX ON	CX noise reduction system ON
AUDIO	Audio part search	CX OFF	CX noise reduction system OFF
REPEAT CHAPTER (TRACK)	Chapter/track repeat	PAL	PAL system video output
REPEAT SIDE -A (B)	One side repeat	NTSC 3.58	NTSC system video output
REPEAT PROGRAM	Program repeat	16:9	With wide-aspect-type TV expanding the picture (CLD-150K only)

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 TRK (remaining play time of the track being played) → REMAIN ALL (remaining play time of the video or audio part being played) → TOTAL (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 ABS (elapsed play time from the beginning of the disc) → REMAIN TRK (remaining play time of the track being played) → REMAIN ALL (remaining play time of the disc) → TOTAL (total play time from the beginning of the disc) → display off.

● These data are also displayed on the display window of the front panel.
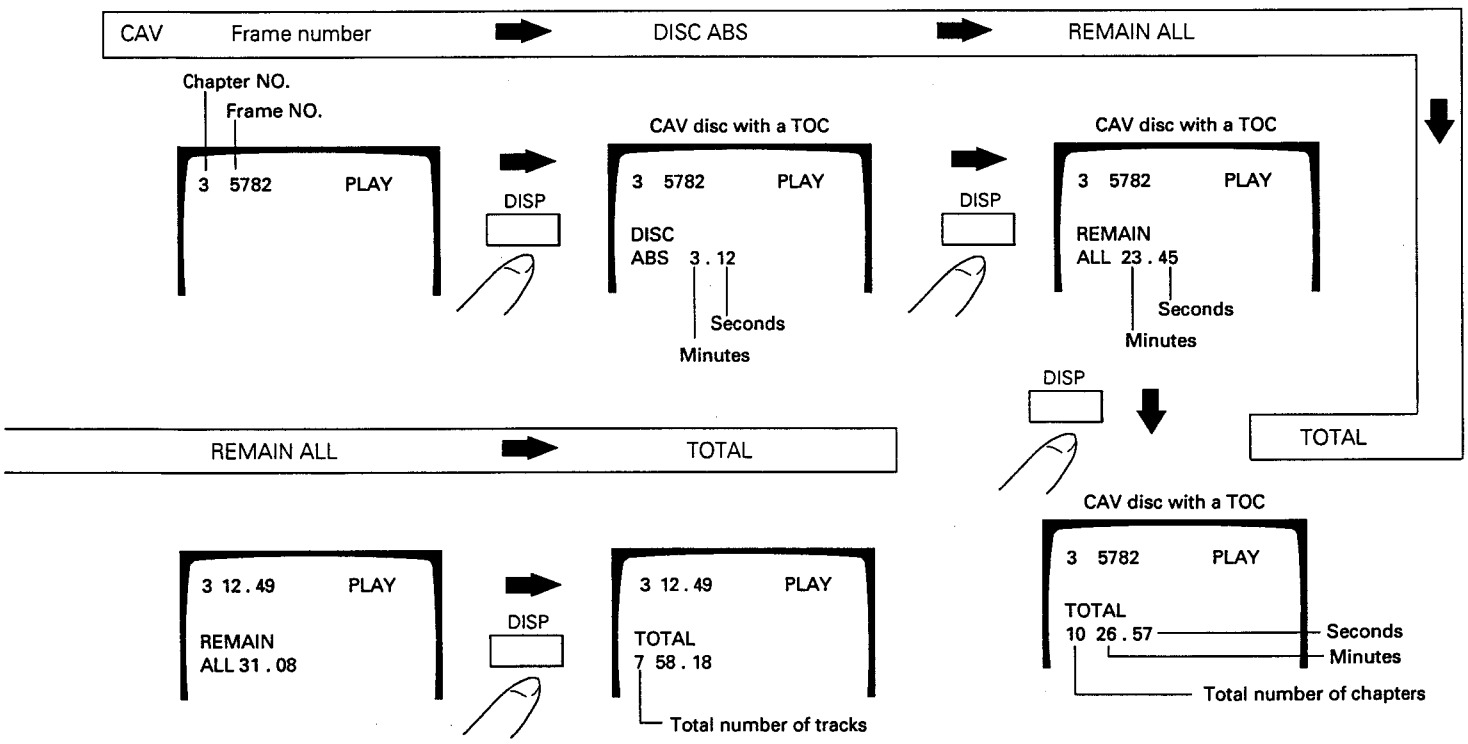
Music calendar display
On the monitor screen, you can see all of the chapter/track numbers recorded on the disc at a glance. If the disc contains more than 24 chapters/tracks, the music calendar shows the 25th and those following, after the 24th chapter/track is finished playing.
The chapter/track numbers to be played are displayed in reverse color while the chapter/track numbers which have been played are displayed in normal color.

To display the music calendar
Press DISP on the remote control unit when the TOC data has been read. (After a disc is loaded, the player reads the TOC data.)
With CDs or CDVs (audio part), the music calendar is immediately displayed.
With LDs (with TOC) or CDVs (video part) the music calendar is displayed during pause mode or search mode.
● Even if an LD contains chapter No. 0, the music calendar cannot display No. 0.
● With LDs without TOC, the music calendar cannot be displayed.
● The music calendar shows all of the chapter/track numbers recorded on the disc, however the TOC data (time data) of the 33rd or more cannot be memorized.

NOTE:
If the screen display is turned on for a long period of time, it is automatically turned off. To turn the display back on, press any button.

TO PLAY AN LD, CDV OR CD

PHONES **LEVEL**	

2 PHONES LEVEL **5** **3**

4

6
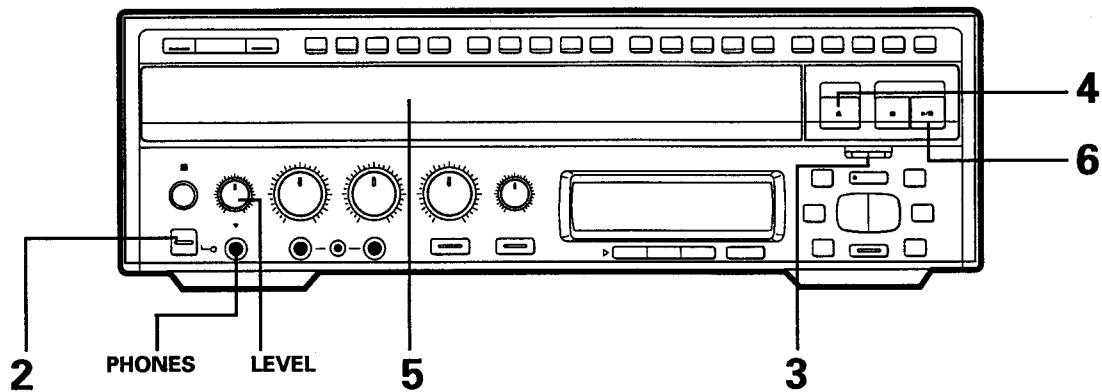
1
Turn on the power to the monitor TV and/or audio system.

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

Front panel

or

POWER

Remote control unit

3
Set KARAOKE/NORMAL/AUX INPUT to NORMAL.

KARAOKE AUX INPUT
NORMAL

4
Open the disc table.

OPEN/CLOSE

▲

Front panel

or

EJECT

■/▲

Remote control unit

State of the display window during playback:

LD

Chapter number — Time number (minutes/seconds or minutes only) or Frame number

CD

Track number — Elapsed play time of the current track (minutes/seconds)
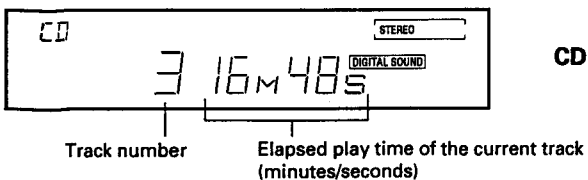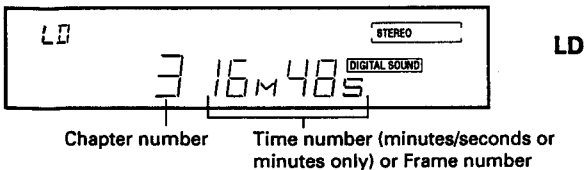
To play and listen to a disc without connecting this unit to an audio system:
Plug headphones into the PHONES jack on the front panel of this unit and adjust the volume with LEVEL.

Front panel buttons and remote control unit buttons with the same name or mark have the same function.
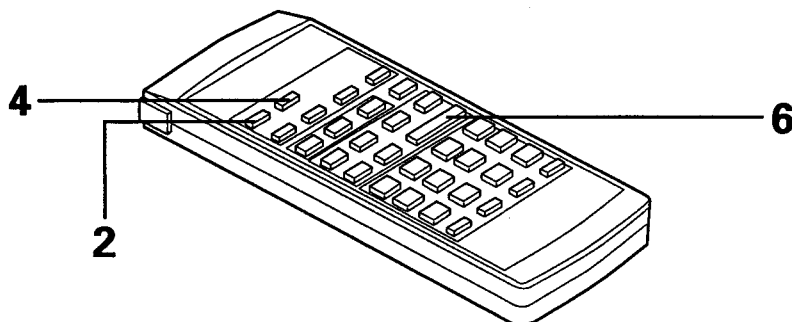
5

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.

12 cm CD/CDV

8 cm CD

20 cm LD

30 cm LD

CD/CDV: Place the disc with the label side up.
LD: Place the disc with desired side's label up.

6

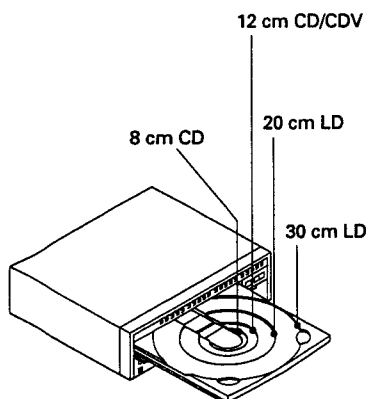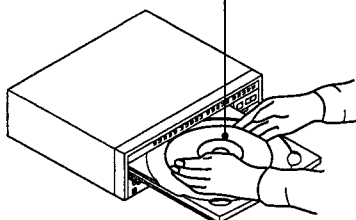### Start playback.

PLAY
/PAUSE

►/II

Front panel

or

PLAY/SEARCH

►

Remote control unit
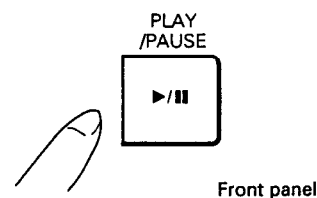
● With CDV discs, the video part is played first.
● With the surround function (→ p.22), you can select the desired atmosphere to match the disc genre, such as movie or music.

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.

▌▌
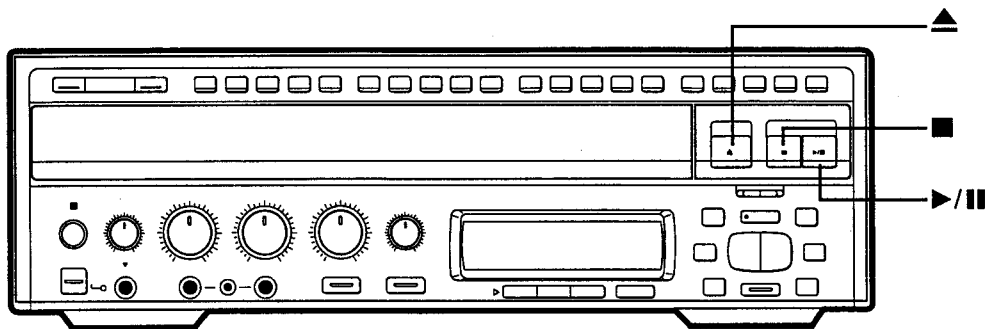
To pause playback temporarily

PLAY
/PAUSE

▶/▌▌

Front panel

or

PAUSE

▌▌

Remote control unit

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

■

To stop playback

STOP

■

Front panel

or

EJECT

■/▲

Once

Remote control unit
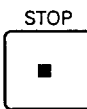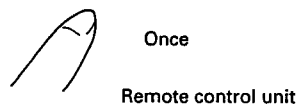
When PLAY/PAUSE ▶/▌▌ or PLAY/SEARCH ▶ is next pressed, disc playback starts again from the beginning.

▲

To stop playback and take out the disc

OPEN/CLOSE

▲

Front panel

or

EJECT

■/▲

Twice

Remote control unit
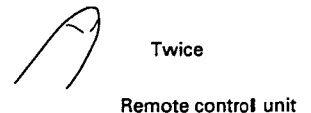
After removing the disc from the disc table, press OPEN/CLOSE ▲ or PLAY/SEARCH ▶ to close the table.

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.
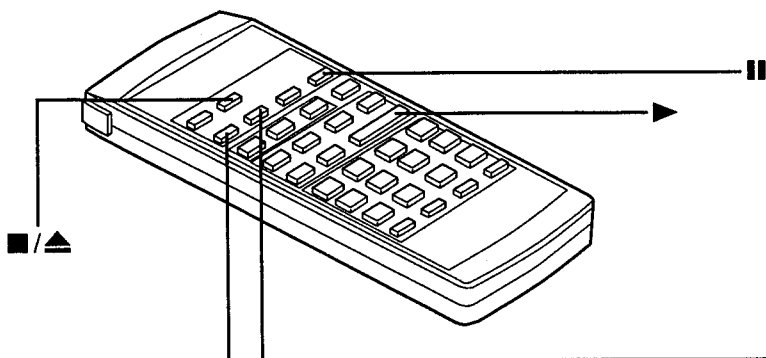
D/A/CX

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

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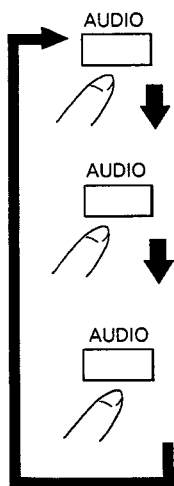
Played audio		Display on screen
Stereo disc	Multi Audio disc	
Stereo	Audio 1/L (Left) Audio 2/R (Right)	
Left	Audio 1/L (Left)	1/L CH
Right	Audio 2/R (Right)	2/R CH
Return to start		STEREO

NOTE:
The AUDIO button does not function in karaoke mode.

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

During playback

Played audio	DIGITAL SOUND indicator
Digital	Lights
Analog	Goes off
Return to start	
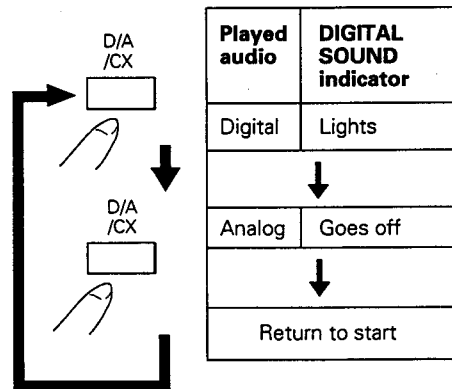
NOTE:
With LD digital audio discs which conform to PAL system, no signal is recorded on analog audio part, so no sound is heard if analog audio part is selected by pressing D/A/CX.

With a Multi Audio disc (an NTSC system LD bearing the **▉▉▉/MULTI AUDIO** mark or the **digital audio** mark and the 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

Disc \ Audio	Analog audio	Digital audio
Stereo bilingual	Native language	Foreign language 1
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

EXTRA PLAYBACK

Still frame and Frame-by-Frame advance function (CAV discs only)

STEP

◄II — II►
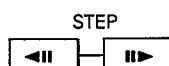
Press either of these buttons.

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 ►.

TO SEARCH FOR A PARTICULAR PASSAGE
Manual Search

Manual Search – Search using fast forward or fast reverse

SCAN

Press for fast-reverse operation. ◄◄ — ►► Press for fast-forward operation.
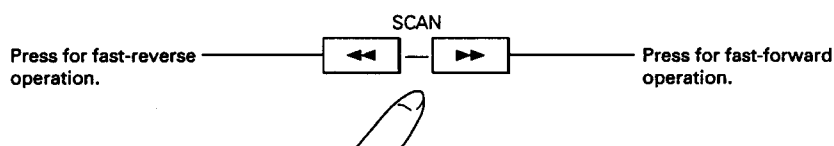
For about two seconds after the button is pressed, Low Scan is performed, after that, the unit enters High Scan.
Low Scan mode : Scan speed becomes about x10 the normal playback speed.
High Scan mode : Scan speed becomes about x30 the normal playback speed.
● With video part of CDV, High Scan mode cannot be carried out.

● 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.*

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>

| 3 | Enter 3 with the digit button.

<Normal Search>

CHP /TIME ➡ | 3 | ➡ PLAY/SEARCH [►]
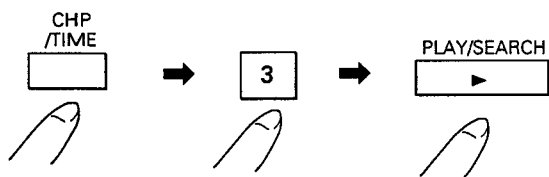
When the display shows Frame No. or Time No. press this button again.

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:
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.

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

SKIP
[◄◄] — [►►|]
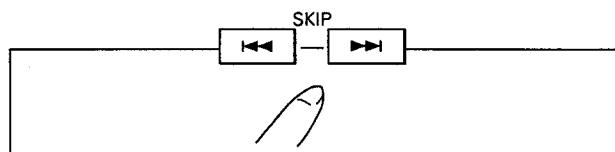
Press once to return the playback position to the beginning of the chaper/track being played. If the button is pressed more than once before the picture reappears, the beginning of a chapter/track located before the chapter/track being played is searched for and played. The position of the located track 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 I◄◄ or ►►I 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 REPEATEDLY PLAY A DESIRED PASSAGE – Repeat Playback

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

REPEAT

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

REPEAT

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 36 for details on programming.

REPEAT

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.

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.

To display repeat mode on the monitor screen:
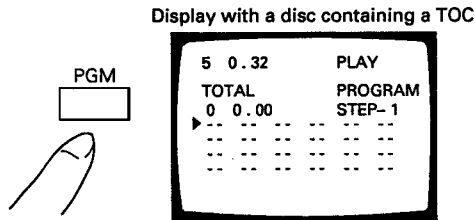Press DISP on the remote control unit.

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).

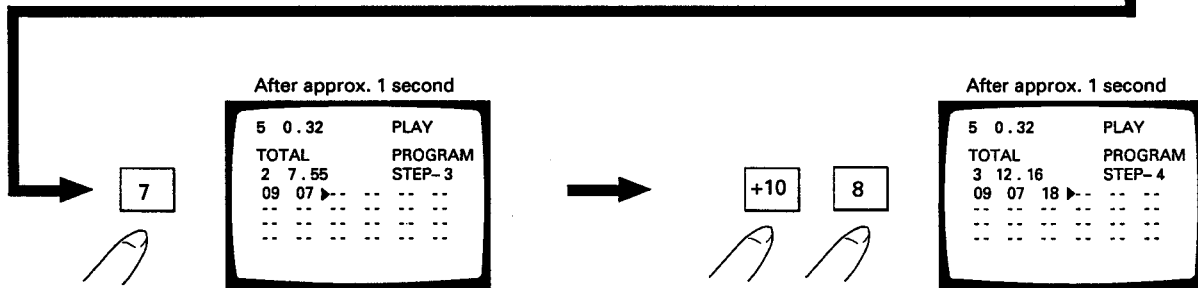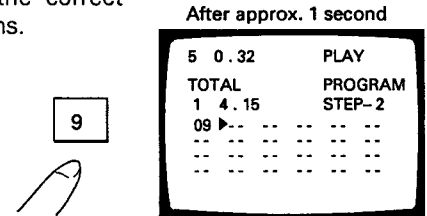● You can view the state of programming on the monitor TV screen.

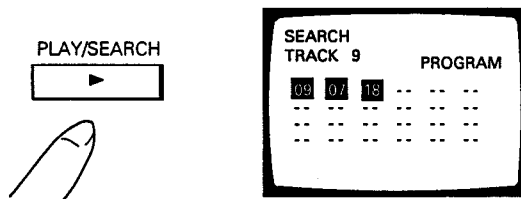| Example   To play CD tracks No. 9, No. 7, and No. 18 in this order: |

1 Press PGM.

Display with a disc containing a TOC

```
5  0.32      PLAY
TOTAL        PROGRAM
0  0.00      STEP- 1
▶ --  --  --  --  --  --
  --  --  --  --  --  --
  --  --  --  --  --  --
```

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.

After approx. 1 second

9

```
5  0.32      PLAY
TOTAL        PROGRAM
1  4.15      STEP- 2
09 ▶--  --  --  --  --
  --  --  --  --  --  --
  --  --  --  --  --  --
```

After approx. 1 second

7

```
5  0.32      PLAY
TOTAL        PROGRAM
2  7.55      STEP- 3
09 07 ▶--  --  --  --
  --  --  --  --  --  --
  --  --  --  --  --  --
```

+10   8

After approx. 1 second

```
5  0.32      PLAY
TOTAL        PROGRAM
3  12.16     STEP- 4
09 07 18 ▶--  --  --
  --  --  --  --  --  --
  --  --  --  --  --  --
```

3 Press PLAY/SEARCH ►.

PLAY/SEARCH ►

```
SEARCH
TRACK  9        PROGRAM
09 07 18 --  --  --
  --  --  --  --  --  --
  --  --  --  --  --  --
```

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 STOP ■ 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.

| 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 ►►I 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 ►►I 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 II 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 being 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 OPEN/CLOSE is pressed.	● Power cord is not properly plugged into AC wall socket. ● Power switch is not turned on.	● Plug in power cord. ● Turn on power switch.
2. Disc table comes out.	● Disc is dirty. ● The disc is not properly set on the disc table. ● Moisture has condensed on parts in the player. ● Disc is warped.	● 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 19, remedy column.)
3. Remote control does not work.	● 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.	● 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.	● Some TV sets have remote control functions that operate improperly in response to the remote control unit of the player.	● Move the TV and the player further apart, or cover the remote sensor of the TV during disc playback.

TROUBLESHOOTING

WHEN PLAYING KARAOKE
For karaoke play, always set the KARAOKE/NORMAL/AUX INPUT selector to the KARAOKE position.

SYMPTOM	CAUSE	REMEDY
5. The One-Song Pause function or other KARAOKE functions cannot be operated.	● The KARAOKE/NORMAL/AUX INPUT selector is set to the NORMAL position.	● Set it to the KARAOKE position.
6. No sound.	● The KARAOKE/NORMAL/AUX INPUT selector is set to the AUX INPUT position.	● Set it to the KARAOKE position.
7. The BALANCE control does not function.	● The KARAOKE/NORMAL/AUX INPUT selector is set to the NORMAL position. ● The AUDIO MODE button is set to the STEREO position when playing a sound multiplexed CD or CDV karaoke disc.	● Set it to the KARAOKE position. ● Set the AUDIO MODE button so that the STEREO indicator goes out.
8. Hi-Fi stereo multiplexed sound is not possible.	● The KARAOKE/NORMAL/AUX INPUT selector is set to the NORMAL position. ● The Multi Audio disc is not used.	● Set it to the KARAOKE position. ● Use a karaoke disc which bears the symbol ▓▓/MULTI AUDIO or ▓▓ and MULTI AUDIO.
9. The volume level of the original vocal is not reduced even when ONE-TOUCH KARAOKE is pressed.	● The AUDIO MODE button is not set to the appropriate audio mode with a CD, CDV or auxiliary device.	● Press AUDIO MODE.
10. The original vocals are not replaced with the singing voice even when VOCAL PARTNER is pressed.	● The volume level of the microphone is too low. ● The singing voice level is too small. ● The AUDIO MODE button is not set to the appropriate audio mode with a CD, CDV or auxiliary device.	● Raise the volume level. ● Sing louder. ● Press AUDIO MODE.
11. The ♭ or ♯ button cannot be operated.	● The player is in magic voice mode and the center KEY CONTROL/MAGIC VOICE indicator is blinking.	● Cancel the magic voice mode by pressing ♮ the button.
12. The Once more operation or Key control operation cannot be carried out with the Pioneer Microphone DM-V161.	● The microphone control jack (❨ MC) is not connected. ● The microphone is not turned on.	● Connect it. ● Turn on the microphone.
13. Nothing changes when the ONE-TOUCH KARAOKE button is pressed.	● When playing back sound multiplexed discs, the BALANCE control is set to the MUSIC side.	● Set it to the VOCAL side.
14. Some songs cannot be selected with the direct music search buttons.	● The selected number does not exist on the disc.	● Select the song which exists on the disc.
15. The original vocals cannot be heard with a sound multiplexed LaserKaraoke disc.	● The ONE-TOUCH KARAOKE button is turned on. ● The BALANCE control is set to the MUSIC side.	● Turn ONE-TOUCH KARAOKE off. ● Set it to the VOCAL side.
16. The next song starts playback after one song is finished.	● When playback is started with PLAY/PAUSE (or PLAY/SEARCH) or resumed with PLAY/PAUSE (or PAUSE), the player is always in playback mode even when one song is finished.	● Select the song with the direct music search buttons.

TROUBLESHOOTING

WHEN A LASERVISION DISC IS BEING PLAYED

SYMPTOM	CAUSE	REMEDY
17. Disc is rotating but there is no picture.	● The TV set is not turned on. ● Wrong connections from player to TV.	● Turn on TV. ● Make correct connections.
18. Picture continuously moves vertically.	● The TV vertical-hold control is not adjusted properly.	● Adjust vertical-hold control on TV.
19. Particular disc does not playback properly. The playback stops in the middle of the disc program.	● The playing surface of the disc is dirty. ● The disc is warped.	● 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. Heavy books about 4 ~ 5 kgs (10 lbs) Glass plate LD disc Glass plate — Protective envelope
20. Sound is unnatural or distorted.	● CX system is turned ON for disc which has no ° mark.	● Press D/A/CX to turn CX system OFF.
21. No sound output during playback.	● STEP playback is being performed. Sound is output only during the normal play mode. The audio signals are not output during other playback modes.	● Press ► or ►/II to set the player to normal play mode.
22. During STILL playback, a part of the screen image shakes.	————————	● 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.
23. CHAPTER SKIP, CHAPTER PROGRAM PLAY and CHAPTER NUMBER SEARCH cannot be performed.	● Disc in which no chapter numbers are recorded is loaded.	● Press DISP to check if chapter number is displayed.
24. Certain discs take too long to search or are not searched.	● It takes time to read the recorded code, depending on the disc.	● Press CLEAR and picture will appear. (At this point, a slightly different scene from that which has been searched for may appear.)

TROUBLESHOOTING

SYMPTOM	CAUSE	REMEDY
25. Certain discs take too long to start or do not start.	• There are errors when the disc code is read. (There is no damage to the unit.)	• Press ■ or ■/▲ and stop the playback. Press ► or ►/❚❚ and start the playback again. (Repeat this operation a few times.)
26. Picture other than instructed is searched in TIME NUMBER SEARCH mode.	• 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 CHP/TIME 1 2 PLAY/SEARCH "minutes" • Disc in which time number is recorded in minutes and seconds CHP/TIME 1 2 0 0 PLAY/SEARCH "minutes" "seconds"	

WHEN PLAYING BACK A COMPACT DISC

SYMPTOM	CAUSE	REMEDY
27. Player stops immediately after playback is started.	• 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.	• 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.
28. No sound output	• 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.	• 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 PLAY/PAUSE and restore the player to play mode.
29. Sound is distorted.	• 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.	• Connect to the AUX, CD, VDP or LD jacks. • Clean the plugs and terminals and connect again. • Push the plug in firmly.

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.

SPECIFICATIONS

1. General

System ....LaserVision Disc system and Compact Disc digital audio system
Laser ....Semiconductor laser wavelength 780 nm
Power requirements
    CLD-150K ....AC 220 - 230 V, 50/60 Hz
    CLD-1810K ...AC 110/120 - 127/220/240 V (Switchable), 50/60 Hz
Power consumption
    CLD-150K ....49 W
    CLD-1810K ....49 W
Weight
    CLD-150K ....8.6 kg
    CLD-1810K ....8.7 kg
Dimensions
    CLD-150K ....420 (W) x 427 (D) x 139 (H) mm
    CLD-1810K ....420 (W) x 427.5 (D) x 139 (H) mm
Operating temperature ....+5°C ~ +35°C
Operating humidity ....5% ~ 90%
    (There should be no condensation of moisture.)

2. Disc

LaserVision Discs
PAL disc
*Maximum playing times
    30 cm active play disc ....72 min/both sides
    30 cm long play disc ....2 hours/both sides
    20 cm active play disc ....28 min/both sides
                                                    14 min/one side
    20 cm long play disc ....40 min/both sides
                                                    20 min/one side
Spindle motor speed
    Active play disc ....1,500 rpm
    Long play disc ....1,500 rpm (inner circumference)
                                    to 570 rpm (outer circumference)
                                                (For a 30 cm disc)

NTSC disc
*Maximum playing times
    30 cm standard play disc ....1 hour/both sides
    30 cm extended play disc ....2 hours/both sides
    20 cm standard play disc ....28 min/both sides
                                                    14 min/one side
    20 cm extended play disc ....40 min/both sides
                                                    20 min/one side
    Standard play disc ....1,800 rpm
    Extended play disc ....1,800 rpm (inner circumference)
                                    to 600 rpm (outer circumference)
                                                (For a 30 cm disc)

Compact Discs
DISC.................Diameter: 12 cm, 8 cm, Thickness: 1.2 mm
Rotation direction (pickup side) ....Counterclockwise
Linear speed ....1.2 ~ 1.4m/sec
*Maximum playing time ....74 min. 12 cm discs
                                                20 min. 8 cm discs
                                                (For stereo playback)

Compact Discs with Video
Disc............................Diameter: 12 cm, 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

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

## 4. Audio characteristics

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
Head phones output 1
Control input/output ....Both miniature jacks
AUX..RCA jacks
VHF adaptor output (Video/Audio)
(CLD-1810K only) ....Both RCA jacks with DC jack
AV connector input/output
(CLD-150K only) ....21-pin connector
AV connector output
(CLD-1810K only) ....21-pin connector
    This connector provides the video and audio signals for connection to a colour video TV monitor (or TV set) which has a "AV CONNECTOR" terminal.

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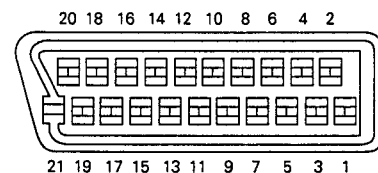
PIN no.	1 Audio 2/R out	17 GND
	3 Audio 1/L out	19 Video out
	4 GND	21 GND
	8 Status	

6. Accessories

Remote control unit (CU-CLD046) 1
Size "AAA" (IEC R03) dry cell batteries 2
Euroconnector cable (CLD-150K only) 1
Video cord (CLD-1810K only) 1
Audio cord 1
Operating instructions 1
Warranty card 1

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

*1 Only discs with TOC
*2 Valid for analog audio playing a disc with the ⬛✗ mark.
*3 Can only be used with NTSC 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.