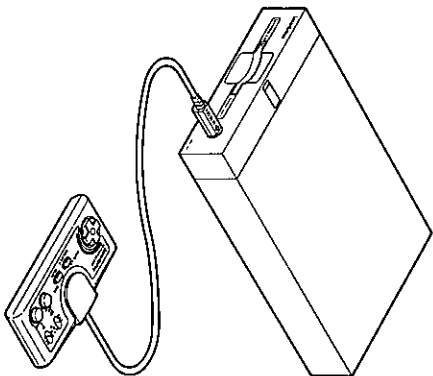


Operating Instructions

CONTROL PACK

PAC-N10

- This unit is not designed for business use.
- It is exclusively designed for CD CDV LD players compatible with LaserActive, and cannot be used with other equipment.



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

IMPORTANT NOTICE

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

CAUTION—For use only with Pioneer Laser-Active System

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.

The provisions of this limited warranty are valid in United States only. Some states do not allow limitations on how long an implied warranty lasts or exclusion of consequential or incidental damages, so the above limitation or exclusion may not apply to you. This limited warranty provides you with specific legal rights. You may have other rights which vary from state to state.

LaserActive™

LaserDisc

LD
ROM²

TURBO
GRAPHICS
GRAPHICS

GRAPHICS

PRECAUTIONS FOR USING THE UNIT

For safety !
To prevent malfunction, fire and electric shock, be sure to observe these precautions. Also see the Operating Instructions of the CD DVD LD player compatible with LaserActive.

■ **Do not expose to humidity and dust.**
Do not use the unit in places exposed to humidity, dust or oil and steam from kitchen.

■ **Do not place near a heater.**
Do not use the unit near a heater.

■ **Do not place in unstable or vibrating places.**
To prevent accidents, do not place the unit in unlevel or vibrating places or on an unstable table.

■ **Do not spill liquid.**
Do not place glasses, vases, fish tanks or bottles containing liquid on the unit. If liquid enters the Control Pack, contact your authorized dealer for repair.

■ **Be careful of foreign matter.**
Do not insert metal objects such as a hair pin, needle or coin, or flammable objects such as paper or matches into the ventilation holes of the unit. Prevent these objects from entering from the ventilation holes. They may cause malfunction, fire or electric shock. If foreign matter has entered into the unit, contact your authorized dealer.

■ **Do not disassemble.**
Do not remove the cabinet of the unit. There are high-voltage parts inside the Control Pack. You may get an electric shock if you touch such parts. Never modify the unit. It may cause smoke or fire. Pioneer will not take responsibility for deterioration of performance and malfunctioning caused by unauthorized repair or modification.

■ **Cleaning**
For normal contamination, wipe out with a soft dry rag. To remove heavy contamination, moisten a soft cloth with neutral detergent diluted five or six times with water and wring it well. Remove the dirt with the cloth, then wipe with a clean dry cloth. Printing and paint on the Control Pad may be removed if alcohol, thinner, benzine or insecticide deposits on the surface. Avoid contact with rubber or vinyl products. They may damage the cabinet surface. When using chemical cloth, read the precautions supplied to the cloth carefully.

- Avoid using the unit if you are tired, and make sure you are as far away from the TV monitor as possible. To protect your health, take a break for 10 to 15 minutes every one hour if you play games for a long time.

READ BEFORE USING YOUR VIDEO GAME SYSTEM

A very small number of individuals may experience epileptic seizures when exposed to certain light patterns or flashing lights. Light patterns emitted from television screens during video game play may induce epileptic seizures in certain individuals. Epileptic symptoms may appear even in persons with no history of prior seizures or epilepsy. If you, or anyone in your family, has an epileptic condition, please consult your physician prior to playing. If you experience dizziness, altered vision, eye or muscle twitches, loss of awareness, disorientation, or any involuntary movement or convulsions while playing a video game, IMMEDIATELY discontinue use and consult your physician before resuming play.

WARNING!

Still pictures or images, such as those generated by videogames, can cause permanent damage to projection TV's. We recommend that this product not be used with a large-screen projection TV.

CONTENTS

How to enjoy LD-ROM², CD-ROM and TurboChips!	HOW TO ENJOY CD-G	19
PRECAUTIONS FOR USING THE UNIT	CHANGING PLAYBACK SPEED	20
TO USE THE UNIT CORRECTLY	AND DIRECTION	20
FOR LONG TIME	STILL PICTURE/FRAME BY FRAME	21
LASERACTIVE FEATURES	WATCHING/LISTENING REPEATEDLY	22
BEFORE GETTING STARTED	PROGRAMMING CHAPTERS AND TITLES	24
NAMES AND FUNCTIONS	AUTOMATIC PLAYBACK AT RANDOM	26
GETTING STARTED	PROGRAMMING SONGS TO BE PLAYED	27
ENDING THE GAME	BACK WITHIN SPECIFIED TIME	29
	SEARCHING FOR A DESIRED SCENE	32
	SEARCHING FOR A DESIRED TRACK	34
	SELECTING AUDIO	35
	TROUBLESHOOTING	36
	SPECIFICATIONS	36

How to enjoy LDs, CD, CDVs and CD-Gs!	OPERATION SCREEN ON TV MONITOR	13~18
	Basic Operation Screen	14
	Expanded Operation Screen	14
	Extra Operation Screen	15
	CD Graphics Operation Screen	15
	Time Information Operation Screen	16
	Operation Screen Buttons	17

IMPORTANT 1



The lightning flash with arrowhead, within an equilateral triangle, is intended to alert the user of the presence of uninsulated "dangerous voltage" which may be sufficient to cause electric shock to persons.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION
THE RISK OF ELECTRIC SHOCK, DO NOT OPEN THE COVER OR THE FRONT PANEL. SERVICEABLE PARTS INSIDE. REFER SERVICE TO QUALIFIED SERVICE PERSONNEL.



The exclamation point within an equilateral triangle is intended to alert the user of the presence of important information in the literature accompanying the appliance.

Information to User

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

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

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

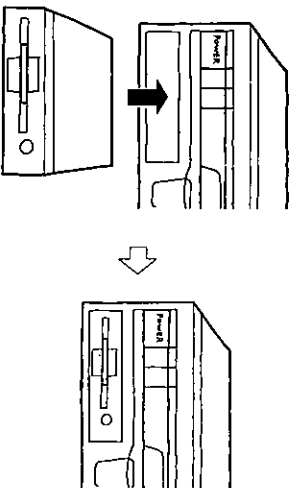
This device is complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

TO USE THE UNIT CORRECTLY FOR LONG TIME

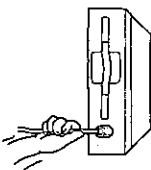
Switch the power OFF before installing/removing the Control Pack.

- Always switch the power of the CD CDV LD player compatible with LaserActive OFF before installing/removing the unit to from LaserActive.

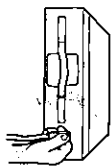


Hold the connector and connect/disconnect the cable carefully. Pulling the cable too strong or rotating the connector may cause malfunction to the Control Pack.

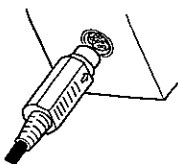
INCORRECT



CORRECT

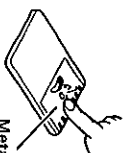


- Insert the connector of the Control Pad straight into the Control Pack with the arrow symbol (↑) facing upward.



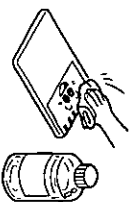
Handling of TurboChips

- Only use TurboChips bearing the Turbo GrafX-16 mark.
- When loading TurboChips into the unit, insert them slowly and completely.
- Do not touch the connector (the metal part) with your fingers or allow them to come into contact with other metal parts. Static electricity may damage the memory content stored on the card.



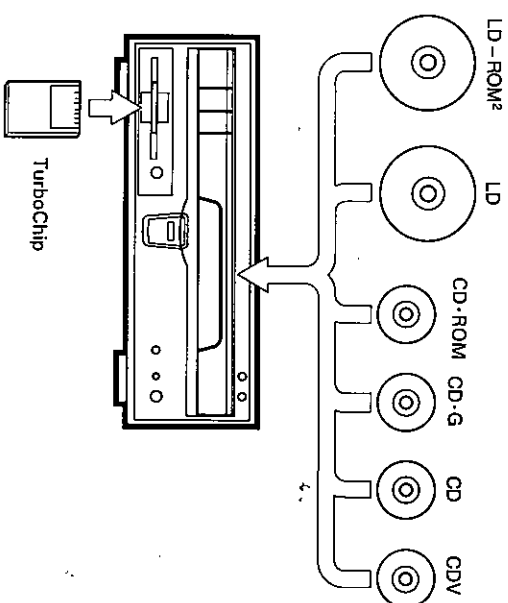
Metal parts

- Keep the connector (the metal part) clean. If the connector becomes dirty, wipe it gently with a piece of soft gauze or gauze wet with ethyl alcohol (rubbing alcohol).



LASERACTIVE FEATURES

Turbo GrafX - 16 games can be enjoyed by connecting the unit Control Pack to equipment compatible with LaserActive. You can also enjoy games of CD-ROMs and LD-ROMs (played back by equipment compatible with LaserActive), as well as TurboChips.



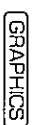
- Only the following TurboChips are available with the LaserActive.



TurboChip



CD (5 inch, 3 inch)

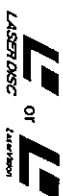


CD graphics

- The following discs can be used by playing back with the CD CDV LD player compatible with LaserActive.



Turbo GrafX-CD
CD-ROM



LD (12 inch, 8 inch)



CDV (CD VIDEO)
CD Video Single



TurboDuo



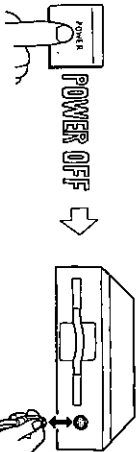
LD with TOC
(CD VIDEO LD)
(12 inch, 8 inch)



LD ROM²
(12 inch, 8 inch)

* CD-I, game discs of other models and discs such as electronic book EB cannot be used with the CD CDV LD player compatible with LaserActive. Also, LaserActive is not compatible with CD graphics marked with EXTENDED GRAPHICS.

Always switch the power of the CD CDV LD player compatible with LaserActive OFF before connecting or disconnecting the connector of the Control Pack. Do not rotate the connector when connecting/disconnecting it.



Do not bend or pull the cable of the Control Pad.

Be sure to perform the initialization operation when you first set up your Control Pack PAC-N10. (Please refer to the next page regarding the procedure for performing this operation.) It may not be possible to save passwords and high scores, etc., if the initialization operation is not performed before you begin playing games.

What is "Initialization (FORMAT)"?

The Control Pack PAC-N10 unit features a built-in back-up memory for saving passwords and high scores, etc. The initialization operation is performed in order to make it possible to use this back-up memory. The initialization operation can also be performed to erase all data such as passwords, etc., that has been stored in the back-up memory.

NOTE:
The data saved in the back-up memory may be lost if the unit is not switched on for a long period of time (approximately two weeks). In order to prevent the data from being lost, turn the unit's power on approximately once every two weeks, even if the unit is not to be used. If the data is lost, perform the initialization operation (FORMAT) once again.

[The Back-up Function]

- This unit features a memory back-up function which remains for approximately two weeks after the power is turned off. This back-up memory is referred to as BACKUP RAM and is used to save data such as game passwords and high scores, etc. Please refer to the operating instructions for each game regarding the method used to save this data as methods differ for each game.
- Any data stored in the back-up memory is lost when the initialization operation (FORMAT) is performed, so be careful when performing this operation.

Deleting from BACKUP RAM (DELETE) ...

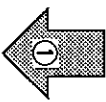
There is a limit to the amount of data that can be stored in BACKUP RAM. Therefore it is sometimes necessary to erase unnecessary data from memory in order to make room to store new data.

Execute the Delete function to erase unnecessary data from BACKUP RAM.

NOTE

FORMAT and Deleting are completed by steps ① to ④, but perform steps ⑤ and ⑥ to return to the Title Screen and begin a game, etc.

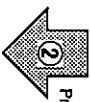
Turn on the power without loading the TurboChip.



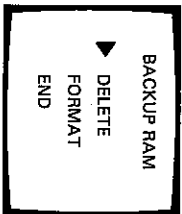
Title screen



NOTE:
Put the Turbo (Rapid Fire) Control switches I and II in their lowest position (*), and then operate the unit.



Select END, and then press the I button.

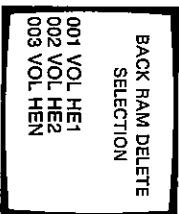


Select END, and then press the I button.

Press the II button (Cancel).



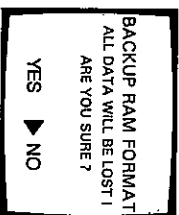
Select "DELETE", and then press the I button.



Select "FORMAT", and then press the I button.



FORMAT



④ When "SELECTION" appears on the screen, select the data items you wish to delete from memory and then press the I button.

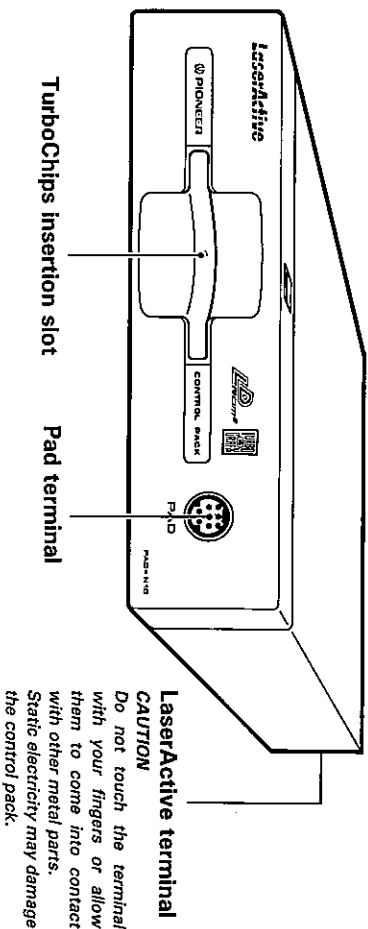
② "DELETE OK ?" will appear on the screen. If you wish to go ahead and delete the selected data, select YES and then press the I button, otherwise select NO and then press the I button.

④ If you wish to go ahead with the FORMAT operation select YES and then press the I button. If you wish to abort the FORMAT operation select NO and then press the I button. Any data stored in memory will be lost when the FORMAT operation is performed.

NAMES AND FUNCTIONS

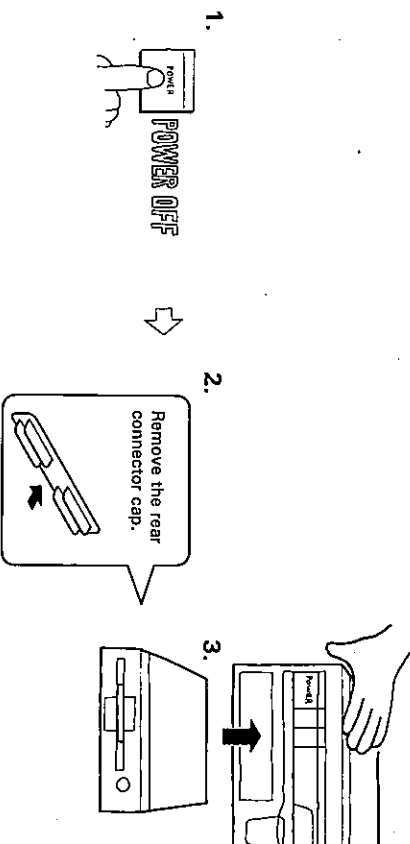
CONTROL PACK

- For how to install/remove the Control Pack, see the operating instructions of the CD CDV LD player compatible with LaserActive.



Installing the Control Pack

1. Turn off the CD CDV LD player compatible with LaserActive.
2. Remove the connector cap on the rear of the Control Pack.
3. While pressing down on the CD CDV LD player compatible with LaserActive with your hand, attach the Control Pack, making sure it is securely installed.



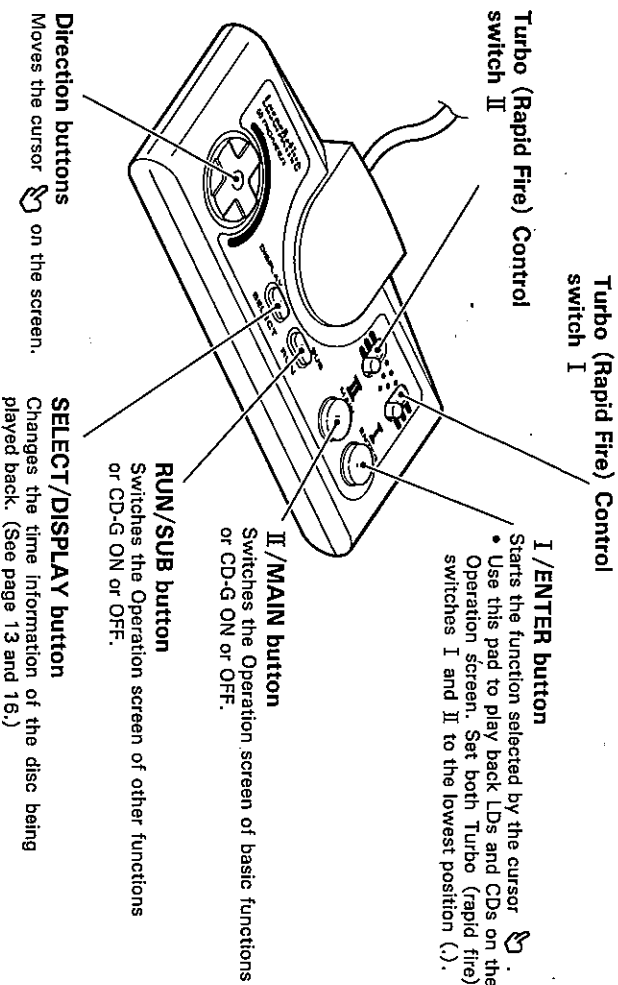
NOTE

- To install accurately, lightly place one hand on top of the player and with the other hand carefully insert the Control Pack until the front panel is flush with the front panel of the player.
- Do not throw away the connector cap. When the Control Pack is removed from the CD CDV LD player compatible with LaserActive for storage, make sure the connector cap is installed before storing the Control Pack.

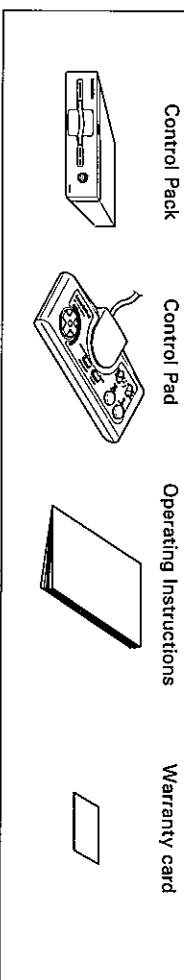
NAMES AND FUNCTIONS

CONTROL PAD

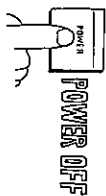
- * Setting the control switch to the uppermost position (· · ·) sets the turbo (rapid fire) function to the highest speed. Setting the control switch to the lowest position (·) turns the turbo (rapid fire) function off. Using of Control Pad depends on software. This manual concentrates on typical functions.



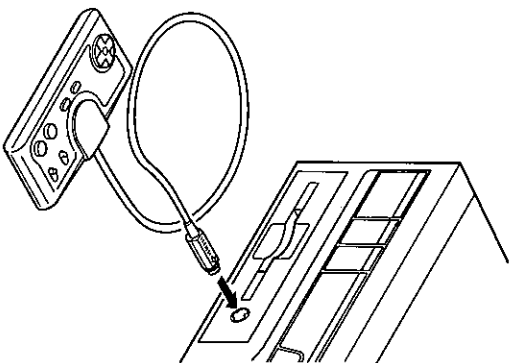
Please confirm that you have all of the following items:



- **Preparation**
- ① Switch the power of the CD CDV LD player compatible with LaserActive to OFF by pressing the POWER switch.

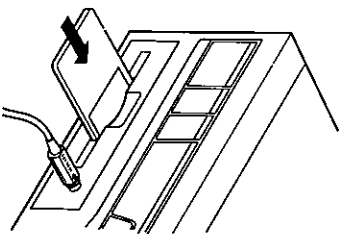


- ② Insert the connector of the Control Pad into the Control Pack.



Playing card game

1. Insert the TurboChip into the insertion slot.
- Insert the TurboChip carefully and completely.



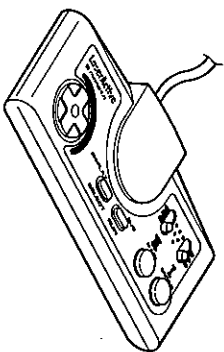
2. Switch the power of the CD CDV LD player compatible with LaserActive to ON by pressing the POWER switch.



- The game starts immediately. Operate with the Control Pad.

After the game has started:

- For how to operate the Control Pad, read the instructions supplied with each TurboChip regarding game play.



Playing disc games such as LD ROM² and CD ROM

Remove the TurboChips from the Control Pack, if it is loaded.

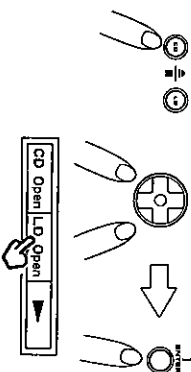
1. Switch the power of the CD CDV LD player compatible with LaserActive to ON.

- The initial screen will appear. It takes a several seconds until the cursor appears after beep sound. After that, you can operate for playing game.



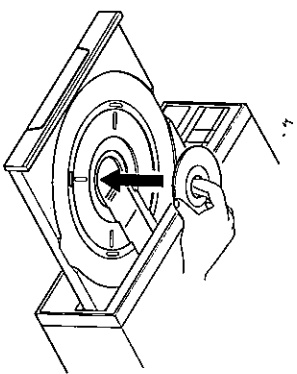
2. Open the disc table.

- Press the $\blacktriangle/\blacksquare$ button of the CD CDV LD player compatible with LaserActive (the CD $\blacktriangle/\blacksquare$ button or LD $\blacktriangle/\blacksquare$ button with CD-ROM; LD $\blacktriangle/\blacksquare$ button with LD-ROM²).
- Alternatively you can use the Control pad and move the cursor to "CD Open" or "LD Open" when using CD-ROM, or "LD Open" when using LD-ROM², then press the I/ENTER button.



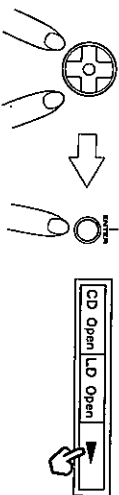
3. Load the disc.

- Load the disc in the same manner as with normal LDs and CDs. See the operating instructions of the CD CDV LD player compatible with LaserActive.



4. Press the PLAY button \blacktriangleright .

- Press the PLAY/STILL button $\blacktriangleright/\blacktriangleleft$ of the CD CDV LD player compatible with LaserActive or the PLAY button \blacktriangleright of the remote control unit. Alternatively you can use the Control Pad and move the cursor to \blacktriangleright then press the I/ENTER button.



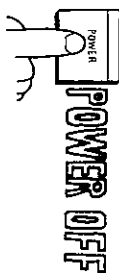
IMPORTANT!

With some games, the system may not start correctly if the power is switched ON within 3 seconds after switching it OFF. Be sure to wait at least 3 seconds before switching the power ON after switching it OFF.

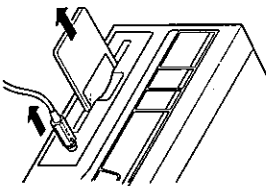
ENDING THE GAME

Ending the Card Game

1. Switch the power of the CD CDV LD player compatible with LaserActive to OFF by pressing the POWER switch.

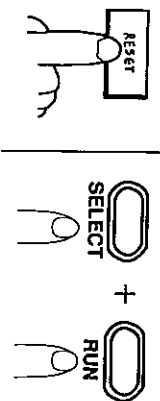


2. Remove the TurboChip from the Control Pack. Disconnect the connector of the Control Pad.



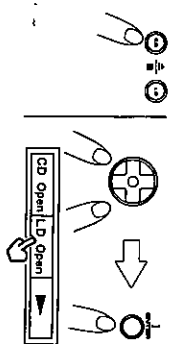
Terminating LD-ROM² and CD-ROM

1. Display the initial screen.
 - Press the RESET button of the CD CDV LD player compatible with LaserActive.
 - Alternatively you can press the SELECT button while holding down the RUN (SUB) button of the Control Pad.

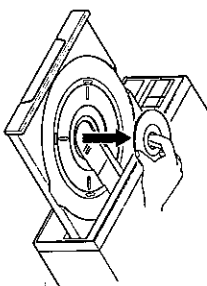


2. Open the disc table.
 - Press the $\blacktriangle/\blacksquare$ button of the CD CDV LD player compatible with LaserActive (the CD $\blacktriangle/\blacksquare$ button or LD $\blacktriangle/\blacksquare$ button with CD-ROM; LD $\blacktriangle/\blacksquare$ button with LD-ROM²).

Alternatively you can use the Control pad and move the cursor \rightarrow to "CD Open" or "LD Open" when using CD-ROM, or "LD Open" with LD-ROM², then press the I/ENTER button.

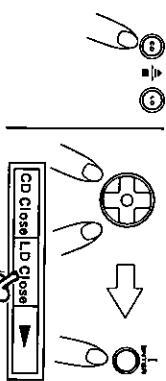


3. Remove the disc.
 - Press the $\blacktriangle/\blacksquare$ button of the CD CDV LD player compatible with LaserActive (the CD $\blacktriangle/\blacksquare$ button, LD $\blacktriangle/\blacksquare$ button or \rightarrow button or Remote control \rightarrow button).

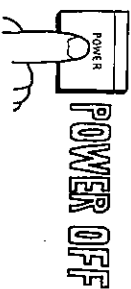


4. Close the disc table.
 - Press the $\blacktriangle/\blacksquare$ button of the CD CDV LD player compatible with LaserActive (the CD $\blacktriangle/\blacksquare$ button, LD $\blacktriangle/\blacksquare$ button or \rightarrow button or Remote control \rightarrow button).

Alternatively you can use the Control pad and move the cursor \rightarrow to "CD Close" \rightarrow or "LD Close" when using CD-ROM, or "LD Close" with LD-ROM², then press the I/ENTER button.



5. Switch the power of the CD CDV LD player compatible with LaserActive to OFF by pressing the POWER switch.



For how to remove the Control pack, see the operating instructions of the CD CDV LD player compatible with LaserActive.

OPERATION SCREEN ON TV MONITOR

The CD CDV LD player compatible with LaserActive can be operated with the Control Pad. Display the Operation screen, move the cursor \rightarrow by using the direction buttons to select a function, then press the I/ENTER button.

1. Load the disc and start playback.
 - Perform steps 1) to 4) in [Playing disc games such as LD-ROM² and CD-ROM] on page 11.
 - During playback of an LD or CD, the Operation screens shown below can be displayed.
 - In the initial screen (page 11), move the cursor \rightarrow to \rightarrow , press the II/MAIN button and the operation stops and the basic operation screen is displayed. By pressing the RUN (SUB) button instead of II/MAIN, the operation stops and the expanded operation screen is displayed.

2. Operate the LD or CD through the Operation screens.

Displaying the Operation Screen Press the II (MAIN) button on the Control Pad.

- The basic operation screen is displayed
- Press the RUN/SUB button after the basic operation screen and the expanded operation screen are displayed.
- Each time the SELECT (DISPLAY) button is pressed, the playback time information of the disc is switched.

NOTE:
If the operation screen is displayed for a period of about 10 min, the display at the top of the screen becomes dim. Press any button on the Control Pad or remote control unit, and the display returns to its original brightness. When the screen display is operated during LD playback, the screen is momentarily disrupted.

Basic Operation screen

- Press the II/MAIN button.

When performing CD playback

To turn the display off, press the II/MAIN button.

Expanded Operation screen

- Press the RUN (SUB) button.

When performing CD playback

To turn the display off, press the RUN (SUB) button.

* While LD playback proceeds, the display shows \blacksquare on the right of \blacksquare , and \blacktriangle on the left.

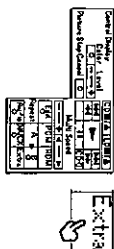
CD Graphics screen

Move the cursor \rightarrow to "CD-G" in the Basic screen, then press the I/ENTER button.



EXTRA Operation screen

Move the cursor \rightarrow to "Extra" in the Expanded Operation screen, then press the I/ENTER button.



Disc Playback Time Information screen

CD/track time

TRACK	TIME	PLAY
01	00:00:00	00:00:00
02	00:00:00	00:00:00
03	00:00:00	00:00:00
04	00:00:00	00:00:00
05	00:00:00	00:00:00
06	00:00:00	00:00:00
07	00:00:00	00:00:00
08	00:00:00	00:00:00
09	00:00:00	00:00:00
10	00:00:00	00:00:00
11	00:00:00	00:00:00
12	00:00:00	00:00:00
13	00:00:00	00:00:00
14	00:00:00	00:00:00
15	00:00:00	00:00:00
16	00:00:00	00:00:00
17	00:00:00	00:00:00
18	00:00:00	00:00:00
19	00:00:00	00:00:00
20	00:00:00	00:00:00

• Example when playing a CD
Elapsed time of playback from the beginning of the disc (absolute time)

Total playback time

TRACK	TIME	PLAY
01	00:00:00	00:00:00
02	00:00:00	00:00:00
03	00:00:00	00:00:00
04	00:00:00	00:00:00
05	00:00:00	00:00:00
06	00:00:00	00:00:00
07	00:00:00	00:00:00
08	00:00:00	00:00:00
09	00:00:00	00:00:00
10	00:00:00	00:00:00
11	00:00:00	00:00:00
12	00:00:00	00:00:00
13	00:00:00	00:00:00
14	00:00:00	00:00:00
15	00:00:00	00:00:00
16	00:00:00	00:00:00
17	00:00:00	00:00:00
18	00:00:00	00:00:00
19	00:00:00	00:00:00
20	00:00:00	00:00:00

Remaining playback time of the current song

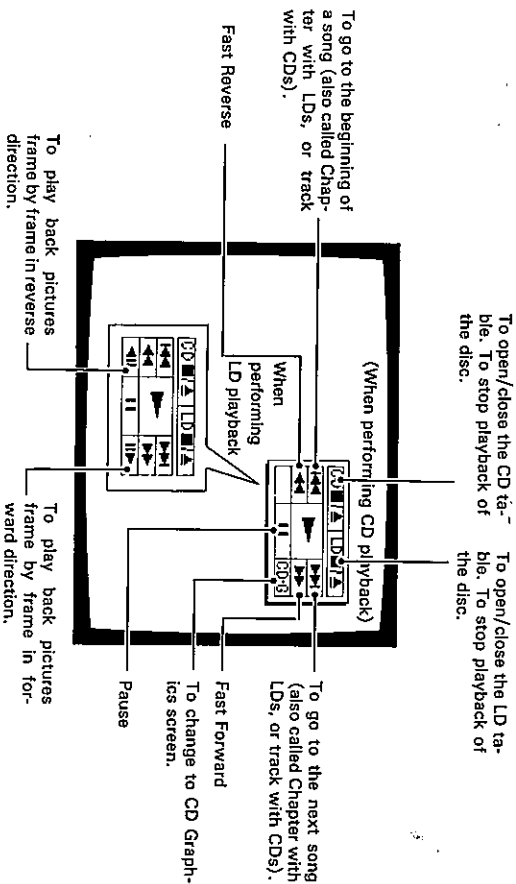
TRACK	TIME	PLAY
01	00:00:00	00:00:00
02	00:00:00	00:00:00
03	00:00:00	00:00:00
04	00:00:00	00:00:00
05	00:00:00	00:00:00
06	00:00:00	00:00:00
07	00:00:00	00:00:00
08	00:00:00	00:00:00
09	00:00:00	00:00:00
10	00:00:00	00:00:00
11	00:00:00	00:00:00
12	00:00:00	00:00:00
13	00:00:00	00:00:00
14	00:00:00	00:00:00
15	00:00:00	00:00:00
16	00:00:00	00:00:00
17	00:00:00	00:00:00
18	00:00:00	00:00:00
19	00:00:00	00:00:00
20	00:00:00	00:00:00

Remaining playback time until the end of the disc

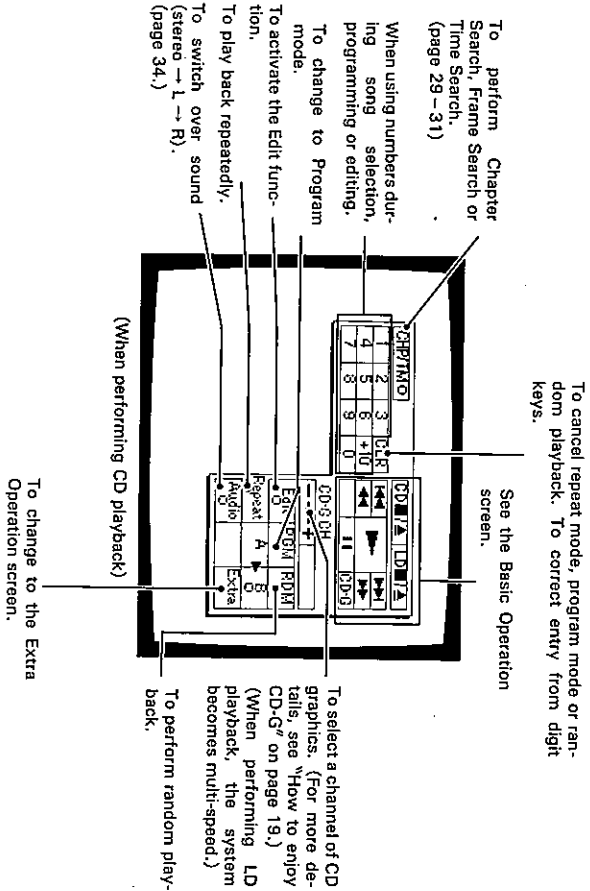
TRACK	TIME	PLAY
01	00:00:00	00:00:00
02	00:00:00	00:00:00
03	00:00:00	00:00:00
04	00:00:00	00:00:00
05	00:00:00	00:00:00
06	00:00:00	00:00:00
07	00:00:00	00:00:00
08	00:00:00	00:00:00
09	00:00:00	00:00:00
10	00:00:00	00:00:00
11	00:00:00	00:00:00
12	00:00:00	00:00:00
13	00:00:00	00:00:00
14	00:00:00	00:00:00
15	00:00:00	00:00:00
16	00:00:00	00:00:00
17	00:00:00	00:00:00
18	00:00:00	00:00:00
19	00:00:00	00:00:00
20	00:00:00	00:00:00

• When using an LD or CDV, see "Display" in the operating instructions of the CD CDV LD player compatible with the LaserActive.

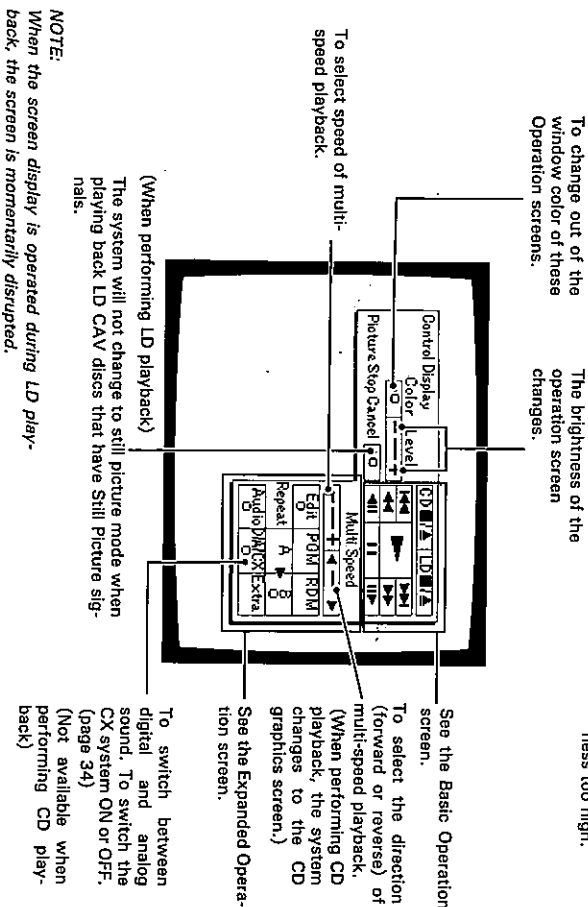
Basic Operation screen



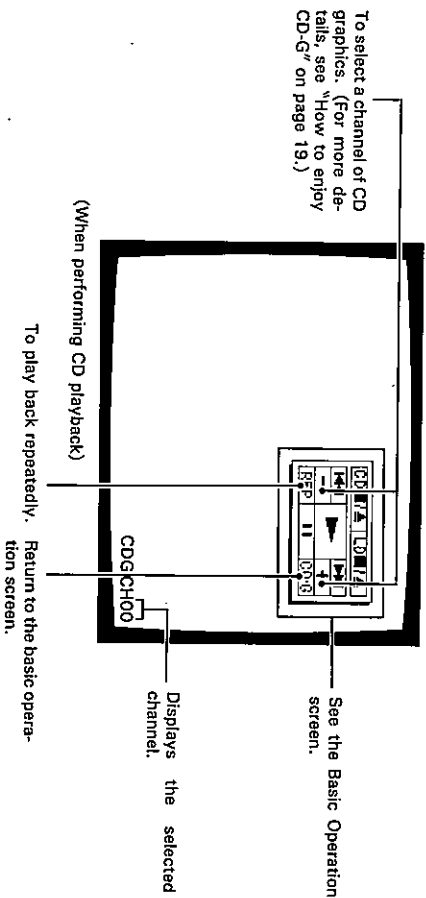
Expanded Operation screen



Extra Operation screen

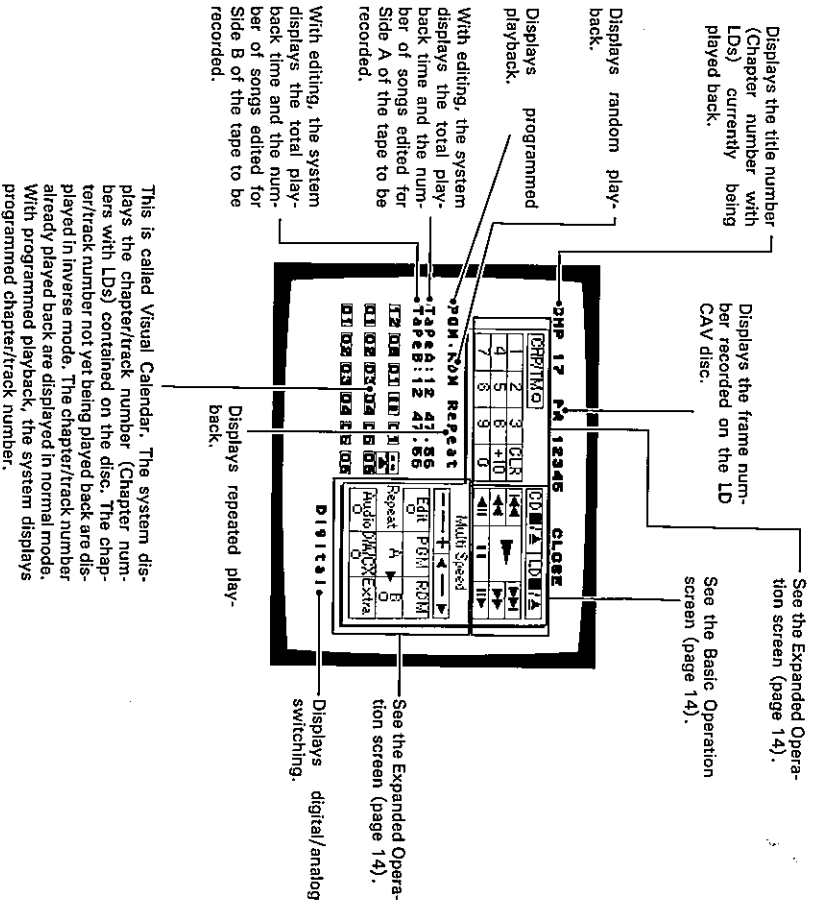


CD Graphics Operation screen



Time Information Operation screen

- The system enters the Time Information Operation screen when the SELECT (DISPLAY) button is pressed. The time information changes every time the button is pressed.



NOTE:
All CD, CDV, CD-ROM and LD-ROM discs have TOC data (Table of Contents) recorded at the beginning of the disc. TOC is equivalent to the table of contents of a book. Some LD discs have no such TOC recorded. In such a case, Visual Calendar will not be displayed in the Time Information screen. Also, data such as remaining time will not be displayed. When the screen display is operated during LD playback, the screen is momentarily disrupted.

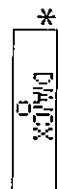
Operation screen buttons

The buttons marked with an asterisk (*) are valid for CD CDV LD players compatible with LaserActive or with the supplied remote control unit. Also see the operating instructions of the player.

- CD STOP/OPEN button** Opens/closes the CD table. Stops playback of the disc.
- LD STOP/OPEN button** Opens/closes the LD table. Stops playback of the disc.
- PLAY button** Starts playback of LD/CD.
- CHAPTER/TRACK SKIP button** Goes to the next song (also called Chapter with LDs, or track with CDs).
- CHAPTER/TRACK SKIP button** Goes to the first chapter/track.
- Scan button** Fast forward
- Scan button** Fast reverse
- Step button** Changes to still picture mode when the button is pressed once. Pressing the button again plays back frame by frame in reverse direction.
- Step button** Changes to still picture mode when the button is pressed once. Pressing the button again plays back frame by frame in forward direction.
- PAUSE button** Pauses playback. (The system does not change to still picture mode when playing back an LD.)
- MULTI-SPEED button** To select the speed of multi-speed playback.
- MULTI-SPEED button** To select the direction (forward or reverse) of multi-speed playback.
- Random Play button** Starts random playback.
- Program button** Changes to program mode.
- Edit button** Activates the edit function.
- Repeat A/B button** Plays back repeatedly. (Expanded Operation screen)
- Repeat button** Repeats playback (same function as with the REPEAT B button). (CD Graphic Operation screen)
- EXTRA button** Changes to the Extra Operation screen.

By similar operation of the CD CDV LD player compatible with LaserActive, the Chapter/Track Search, Fast Forward, Frame/Chapter Search and Time Search etc., can all be utilized by the control pad and screen displays. Read the relevant section in the instruction manual of the CD CDV LD player compatible with LaserActive.

D/A/CX button



Switches between digital and analog sound. Switches the CX system ON or OFF.

Audio button



Switches the sound channels (stereo → L→R).

Clear button



To cancel repeat mode, program mode or random playback. To correct entry from digit keys. Clears incorrect numbers entered during song selection, programming or editing.

DIGIT buttons



To enter numbers during song selection, programming or editing.

CHAPTER/TIME SEARCH button



When performing Chapter Search, Frame Search or Time Search, press this button before using the digit buttons.

COLOR button



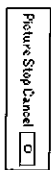
Changes out of the window color of the Operation screens.

COLOR LEVEL button



The brightness of the operation screen changes.

PICTURE STOP CANCEL button



After this button is pressed, the system will not change to still picture mode when playing back an LD CAV disc that is encoded to automatically change to still picture mode.

CD GRAPHICS CHANNEL button



Switches the channel of CD graphics. (Expanded Operation screen)



Switches the channel of CD graphics.

CD GRAPHICS button



Changes to the CD Graphics Operation screen.

When this button is pressed in the CD Graphics Operation screen, the system returns to the Basic Operation screen.

Lit/blink indicator	Descriptions	Lit/blink indicator	Descriptions
OPEN	Opens the disc table.	Random PGM./RDM	Random playback
CLOSE	Closes the disc table.	Editing	Programmed random playback Edit mode
STOP	Stop Playback	Auto	Auto programmed edit
PLAY	Pause	Compu	Computer programmed edit
PAUSE	Still picture	Digital	Digital sound
STILL	Low-speed playback	Analog	Analog sound
1/2, 1/4 ...	High-speed playback	Stereo	Stereo
x1, x2, x3	Searches an audio part.	1/Loch	Main audio/left channel
Audio	Memory repeat	2/Rech	Second audio/right channel
Memory	Repeats the specified part between points A and B.	CX ON	CX system ON
A-B Repeat	Repeats a single side.	CX OFF	CX system OFF
Side-A Repeat	Repeats a Chapter/track.	CD-G CH	CD graphics channel
Chapter (Track) Repeat	Repeats a Program repeat	PSC ON(OFF)	Picture stop cancel ON/OFF
Random Repeat	Program repeat	Loading Error I	Attempted playback of unformat disc.
Program Repeat	Program mode		
Step—	Program step (number)		

This section explains how to enjoy CD graphics (CD-G).

1. Load the CD-G disc.

See "Getting Started" on page 10 for details.

2. Move the cursor to the ► symbol in the initial screen, then press the I /ENTER button to start playback.

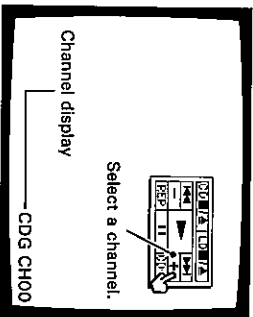
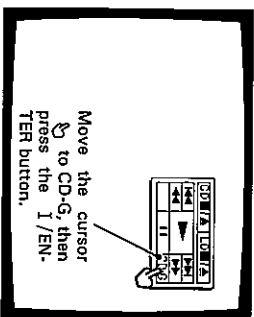
3. Press the II/MAIN button of the Control pad to display the Basic Operation screen. Move the cursor to CD-G, then press the I /ENTER button to display the CD Graphics Operation screen.

During the regular playback of a CD-G disc, when switching to the graphics screen, the track is played back from the start.

When no graphics are displayed:

Setting of the graphics channel is incorrect. Change the setting as follows during playback of the disc.

- Move the cursor to "—" or "+—" of the CD graphics channel, then press the I /ENTER button to tune to the channel for which graphics are displayed.
- Alternatively you can use the CD-G CH button in the Expanded Operation screen.
- The channel is displayed in the bottom-right of the screen.



CD Graphics

CD graphics discs contain still-picture signals as well as image and audio signals. Characters (song text) and pictures can be played back simultaneously to music.

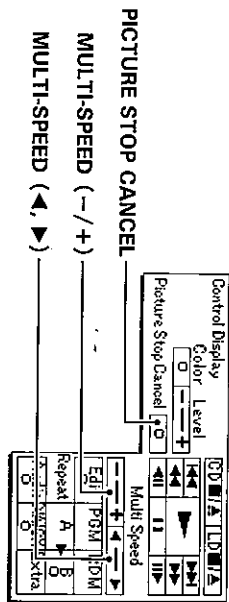
- CD (or CDV) graphics discs are marked with **GRAPHICS**. To enjoy graphics, use discs with these marks.
- With some discs, up to 16 channels of graphics (00 to 15) are recorded. Such discs allow to select, for example, a desired language such as English, German, Japanese, etc. for a single song by switching the channel.

NOTE:

- With the unit Control Pack, still picture signals (e.g. text of movie pictures) recorded on LD-G (LD graphics) discs are invalid.
- During playback of CD-G, the Expanded Operation Screen will not be displayed by pushing the RUN button. Nor can search be performed using the digit buttons.

CHANGING PLAYBACK SPEED AND DIRECTION

Multi-speed



Changing the direction (forward/reverse)

Move the cursor \leftarrow to \blacktriangleleft or \blacktriangleright by using the Control Pad, then press the I/ENTER button.

To play back in reverse direction \leftarrow Multi-Speed \blacktriangleleft \rightarrow To play back in forward direction \blacktriangleright

To return to normal playback, move the cursor \leftarrow to \blacktriangleleft and press the I/ENTER button. The system starts normal playback when it returns to the beginning of the disc played back in reverse direction. The system changes to still picture mode when it reaches the disc end, after playback in forward direction.

Changing the speed

Move the cursor \leftarrow to " $-$ " or " $+$ " by using the Control Pad, then press the I/ENTER button.

To decrease the speed \leftarrow Multi-Speed \leftarrow To increase the speed \rightarrow

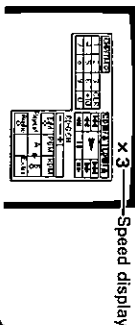
Speed display	Speed
x3	Three times normal playback speed
x2	Two times normal playback speed
x1	Normal playback speed
1/2	One half of normal playback speed
1/4	One quarter of normal playback speed
1/8	One-eighth of normal playback speed
1/16	One-sixteenth of normal playback speed
1/30	One-thirtieth of normal playback speed
1/90	One-nineth of normal playback speed

To return to normal playback speed, move the cursor \leftarrow to the \blacktriangleleft button, and press the I/ENTER button.

Displaying the speed

Press the SELECT (DISPLAY) button of the Control Pad.

DISPLAY
The system displays the speed currently selected.



When no sound is output:

No sound will be output during multi-speed playback.

When the system first enters multi-speed: The 1/4 speed will be automatically selected.

When the system automatically switches to still picture mode (only with standard GAV discs):

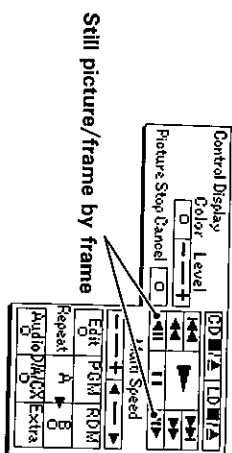
Some discs have special signals called Picture Stop code. If such a disc is played back at either speed of x1, 1/2, 1/4, 1/8, 1/16, 1/30 or 1/90, the system automatically switches to still picture mode at the frame specified by the Picture Stop code.

In such a case, operate the \blacktriangleleft or \blacktriangleright button to resume playback.

Operating screen and pressing the I/ENTER button will activate the Picture Stop Cancel function. The system will continue playback without stopping at the frame specified by the Picture Stop code. At that time, "PSC ON" will appear on the display. When the Picture Stop Cancel button is pushed again, "PSC OFF" will appear on the display and the system switches to still picture mode at the frame specified by the Picture Stop Code.

STILL PICTURE/FRAME BY FRAME

Still/Step



Freezing the picture - STILL

Frame by frame \blacktriangleleft \blacktriangleright

Use the Control Pad to move the cursor \leftarrow to either \blacktriangleleft or \blacktriangleright button, then press the I/ENTER button.

The system switches to still picture mode. To return to normal playback, move the cursor \blacktriangleright and press the I/ENTER button.

Playing back the picture frame by frame - STEP

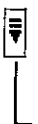
Frame by frame \blacktriangleleft \blacktriangleright

Change to still picture mode.

The pictures are played back frame by frame in reverse direction every time the button is pressed.

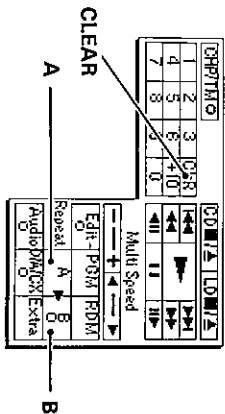


The pictures are played back frame by frame in forward direction every time the button is pressed.



Holding down the button plays back frames continuously. To return to normal playback, move the cursor \blacktriangleright and press the I/ENTER button. No sound will be output during Still and Step modes.

Repeat playback



Returning to the point to restart playback later – Memory Repeat –

Move the cursor to "A" and press the I/ENTER button. Point A will be stored as Memory Repeat point.

To return to point A, move the cursor to "B" and press the I/ENTER button. Memory is displayed.

Playing back a specified range repeatedly – A-B Repeat –

Move the cursor to "A" and press the I/ENTER button. Perform this operation at the beginning of part to be repeated.

Move the cursor to "B" and press the I/ENTER button. Perform this operation at the end of the part to be repeated. The system displays "A-B Repeat."

The system repeatedly plays back the specified part between points A and B.

Playing back the current Chapter or track repeatedly – Chapter/Track Repeat –

Beginning of the current Chapter or track

End of the current Chapter or track

The system returns to the beginning of the current Chapter or track and repeats playback when it reaches the end of that Chapter or track. The system displays "Chapter (Track) Repeat."

To cancel repeat playback:

Move the cursor to CLR and press the I/ENTER button. Alternatively, move the cursor to B and press the I/ENTER button. Although Repeat mode will be canceled, the system continues playback.

To specify a new point A for Memory Repeat:

Move the cursor to "A" at a desired point, then press the I/ENTER button. The new point A replaces the old point A.

Memory Repeat and A-B Repeat when playing back a CDV:

These playback repeat functions are invalid if a video part overlaps an audio part.

LDs without Chapter numbers:

The Chapter Repeat cannot be performed. With such discs, moving the cursor to "B" and pressing the I/ENTER button once change the system to Repeat Side-A mode.

Confirming the current playback mode:

Press the SELECT (DISPLAY) button of the Control pad. The system displays the current playback repeat mode.

Repeatedly watching/listening one disc side – Repeat Side-A

Beginning of the side to be played back

End of the side to be played back

The system returns to the beginning of the disc and repeats playback when it reaches the end of the side.

Repeatedly watching/listening a program – Program Repeat

Move the cursor to "B" and press the I/ENTER button.

The system repeats playback in the sequence of programmed Chapters or tracks.

- See page 24 for how to program.

Repeatedly performing random playback – Random Repeat (for LDs with TOC, CDs and CDVs)

Programmed Random Repeat (for LDs, CDs, CDVs)

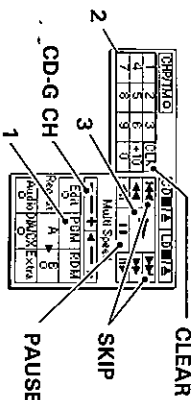
During random playback, move the cursor to REPEAT B and press the I/ENTER button.

During programmed random playback, move the cursor to REPEAT B and press the I/ENTER button.

- The system repeats random playback and program random playback by playing back songs at random.
- See page 26 for details of random playback and program random playback.

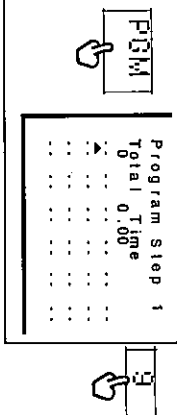
Programmed playback

Chapters (of LDs) or tracks (of CDVs/CDS) can be played back in any sequence. A maximum of 24 Chapters/tracks can be programmed.

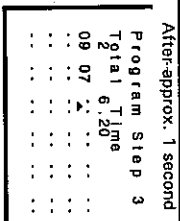
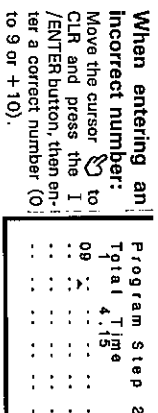


Example: Playing back a CD in the sequence of tracks 9, 7 and 18

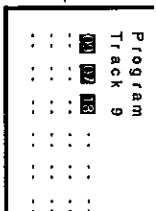
1. Move the cursor to "PGM" and press the I/ENTER button.



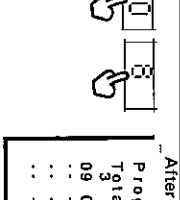
2. Move the cursor to [9] and press the I/ENTER button. In the same manner, move the cursor to [7], [+10] and [8], with pressing the I/ENTER button after each number.



3. Move the cursor to and press the I/ENTER button.



The system searches for the first programmed track (Chapter) and starts playback. In the above example, programmed playback starts at track No. 9. The system stops operation when playback of track No. 9, 7 and 18 is completed in sequence.



To stop programmed playback:
 • Move the cursor to CD or LD, then press the I/ENTER button.
 Alternatively you can move the cursor to CLR and press the I/ENTER button. At that time, the system continues playback.
To delete programmed data:
 • Open the disc table.
 Alternatively you can move the cursor to CLR and press the I/ENTER button.

Programming a PAUSE:

Specifying PAUSE in programmed playback is useful when carrying out recording.
 • When recording both sides of a tape, programming PAUSE after the last track/Chapter to be recorded on Side A will stop recording and give you time to reverse the tape, resulting in prevention of recording error.
 • During Pause mode, you can record narration or create blank part (required for Search operation). Pressing the PAUSE button or button again during Pause mode resumes programmed playback and continues recording.

To program PAUSE:

In step 2., move the cursor to at a desired point and press the I/ENTER button.
NOTES:
 • You cannot be programmed PAUSE at Step 1, nor for two consecutive steps.
 • PAUSE is invalid at the last Step.

Display of programmed PAUSE:

The system displays PAUSE. To go to the previous or next program: Move the cursor to and press the I/ENTER button.
Display of the total playback time:
 With programming using CDS, CDVs or LDs with TOC: The system displays the total time of programmed playback after reading (playing back) TOC.

Confirming the program

The contents of program can be displayed by moving the cursor to PGM and pressing the I/ENTER button during or after completion of programmed playback. The display goes off by moving the cursor to PGM again and pressing the I/ENTER button.

Changing the contents of program

To delete a programmed Chapter/track number or PAUSE:

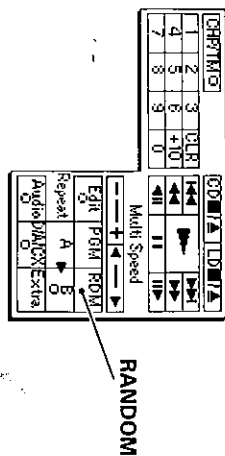
1. Move the cursor to PGM and press the I/ENTER button.
2. Move the cursor to < and >, then press the I/ENTER button to move the cursor to the lower side of the Chapter/track number or PAUSE to be deleted.
3. Move the cursor to CLR and press the I/ENTER button.
4. Move the cursor to PGM and press the I/ENTER button. If you move the cursor to <, instead of PGM, and press the I/ENTER button, the system starts programmed playback from the first Chapter or track number in the program.

To modify a programmed Chapter/track number or PAUSE:

1. Move the cursor to PGM and press the I/ENTER button.
2. Move the cursor to < and >, then press the I/ENTER button to move the cursor to the lower side of the Chapter/track number or PAUSE to be modified.
3. Move the cursor to numbers (0 to 9 or +10) and press the I/ENTER button to display a new Chapter/track number to be programmed. Programming a PAUSE: move the cursor to PAUSE, then press the I/ENTER button.
4. Move the cursor to PGM and press the I/ENTER button. If you move the cursor to <, instead of PGM, and press the I/ENTER button, the system starts programmed playback from the first Chapter or track number in the program.
 • Chapters/tracks cannot be deleted or modified during playback.

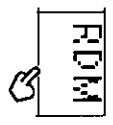
Random playback

The system plays back all songs in the disc at random.



• Move the cursor to **▶** and press the **I/ENTER** button to play back the disc. Then, move the cursor to either **CD** or **LD** and press the **I/ENTER** button to stop playback.

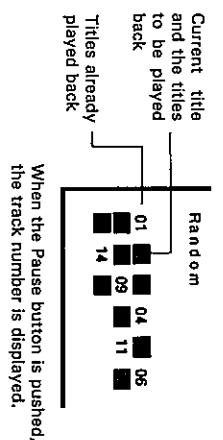
Move the cursor to **RDM** and press the **I/ENTER** button.



The system starts random playback. The system stops operation when all songs in the disc are played back.

- Moving the cursor to **RDM** and pressing the **I/ENTER** button during random playback cancels the current sequence of playback, and the system starts random playback in new sequence.

Display during random playback:



To stop random playback:
Move the cursor to **CLR** and press the **I/ENTER** button. Playback starts at the track currently being played and continues in the order on the loaded disc.

LDs with TOC:
The system can not perform random playback for Chapter 0.

CDVs:
Tracks of video and audio parts will be played back at random.

To perform programmed random playback:
During programmed playback, move the cursor to **RDM** and press the **I/ENTER** button. The system selects the programmed Chapters/tracks at random and plays them back.

To repeat random playback:
Move the cursor to **B** during random playback or programmed random playback, then press the **I/ENTER** button. The system repeats random playback. To cancel repeat mode, move cursor to **CLR** or **B** and press the **I/ENTER** button.

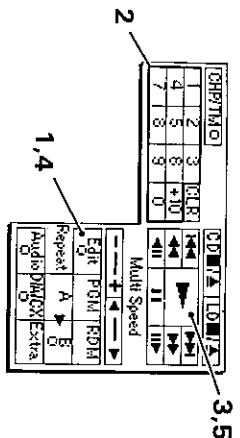
The system assigns songs to Sides A and B of a tape when the recording time of the tape is specified.

Computer programmed editing:

The system changes the sequence of songs so that input total playback time becomes as near as the specified time. It is a convenient function to fully use the tape.

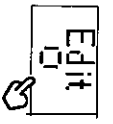
Auto Program Edit:

Chapter/tracks are selected within the designated time, starting from the first track.



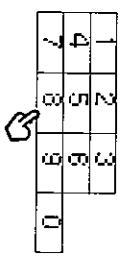
• Move the cursor to **▶** and press the **I/ENTER** button to play back the disc. Then, move the cursor to either **CD** or **LD** and press the **I/ENTER** button to stop playback.

1. Move the cursor to **Edit** and press the **I/ENTER** button.



• Moving the cursor to **Edit** and pressing the **I/ENTER** button during playback changes to system to Pause mode.

2. Set the total playing time of both sides of the tape in minutes with the digit displays (0-9).



[Display during Computer programmed editing]

	When specifying	46
The number of songs programmed for Side A	Editing Compu	14:23:15
and total playback time	Table:	01 03 04 07 09 11
The number of songs programmed for Side B and total playback time		02 05 06 08 10
Track numbers programmed for Side A		...
Track numbers programmed for Side B		...
Pause (will be specified at the end of Side A)		...

To specify playback time over 10 minutes:
Move the cursor to a number (0 to 9) and press the **I/ENTER** button. To specify 46 minutes, move the cursor to [4] and press the **I/ENTER** button, then move the cursor to [6] and press the **I/ENTER** button.

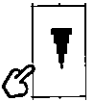
The system changes the sequence of songs so that input total playback time becomes as near as the specified time.

[Display during auto programmed editing]

	When specifying	46
The number of songs programmed for Side A and the total playback time	Editing Auto	14:23:15
The number of songs programmed for Side B and the total playback time	Table:	01 02 03 04 05 11
Track numbers programmed for Side A		06 07 08 09
Track numbers programmed for Side B		...
Pause (will be specified at the end of Side A)		...

Auto/computer programmed editing

3. Move the cursor to ► and press the I/ENTER button.



The system plays back the songs programmed for Side A. The system changes to Pause mode after the last song programmed for Side A is completed (so that you can reverse the tape to start recording Side B). Move the cursor to ► and press the I/ENTER button. The system starts playback of the songs programmed for Side B.

To delete program:
Move the cursor to CLR and press the I/ENTER button.

To start programming from a desired song:

1. Specify the first song of the program.
2. Move the cursor to Edit and press the I/ENTER button.
3. Move the cursor to ► and press the I/ENTER button.
4. Move the cursor to a number (0 to 9) to specify the playback time (in minutes), then press the I/ENTER button.

When the specified time is insufficient for a single song:
No programming can be made.

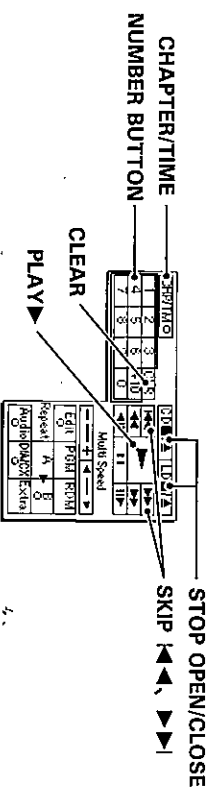
NOTE:

- The purpose of computer programmed editing is to arrange the sequence of songs so that input total playback time becomes as near as the specified time. Sometimes the playback time under auto programmed editing is near to the specified time.
- With LDs, Chapter 0 cannot be programmed. Actual playback time may become shorter than normal playback time when Chapter 1 is programmed. However, this is not a malfunction.

SEARCHING FOR A DESIRED SCENE

Searching by Chapter and Track Division — Chapter Skip, Track Search

With Chapters in LDs, Tracks in CDs and CDVs, these memorized divisions resemble chapters of a book. For discs with memorized Track and Chapter Nos., the numbers are displayed on the jacket of the disc.



COMMAND SEARCH OF CHAPTER AND TRACK NUMBERS

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

<Direct search>



Move the cursor to number 3 and press the I/ENTER button.

<Normal search>



When the Frame number or the time number are displaying, once more move the cursor and press the I/ENTER button.



Move the cursor to number 3 and press the I/ENTER button.



- When the Search operation is completed, a still frame is displayed, regardless of conditions prior to the start of the Search operation.

Returning to Beginning of Chapters and Tracks, and Proceeding to the Next



Move the cursor to ► and press the I/ENTER button once, and the system returns to the beginning of the current chapter or track. Before the picture appears, by successively pressing the button, the system returns to the previous chapter and the prior chapter or track etc., and playback commences.



Move the cursor to ►, for each time the I/ENTER button is pressed the system proceeds to the next chapter or track, and playback commences.

NOTE:

- For an LD with TOC, a chapter number greater than that which is recorded on the disc cannot be entered.
- For discs where the chapters are not recorded, a chapter search cannot be performed. During playback, only the frame and time numbers are displayed on the screen.

When the wrong number is mistakenly entered:

Move the cursor to CLEAR and press the I/ENTER button, and then enter the correct number.

To display the current chapter or frame number:
Press the SELECT button on the control pad.

If the chapter number is above 10:

Use the +10 and 0 buttons.

Example:

If 17: +10, 7

If 30: +10, +10, +10, 0

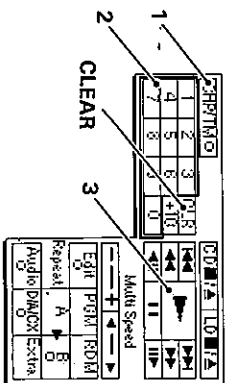
To stop while conducting a normal search:

While searching, move the cursor to CLEAR and press the I/ENTER button.

SEARCHING FOR A DESIRED SCENE

Searching by Time (Extended play CLV discs only) — Time Number Search

The Time Number is the playback time lapse which is recorded on the CLV disc.
Input the time number and search for the desired scene.

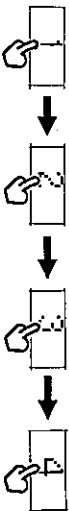


Example: To search for the picture at 12 min, 34 sec:

1. Move the cursor to CHAPTER/TIME and press the I/ENTER button.

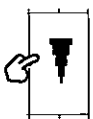


2. Move the cursor to the numbers in the order 1, 2, 3, 4 and press the I/ENTER button.



When the wrong number is mistakenly entered:
Enter "CLEAR" and after the display shows "0,00", enter the correct number (4 digits for discs with seconds, 2 digits for discs without seconds).

3. Move the cursor to ► and press the I/ENTER button.



- When the Search operation is completed, a still frame is displayed, regardless of conditions prior to the start of the Search operation.

NOTE:

- For discs in which seconds are not recorded, input 2 digits.

To display the current chapter and time numbers:

Press the SELECT button on the Control Pad, and the numbers appear on the screen.

Usable numbers for the time numbers:

Numbers 0-9 are usable. The +10 button cannot be used.

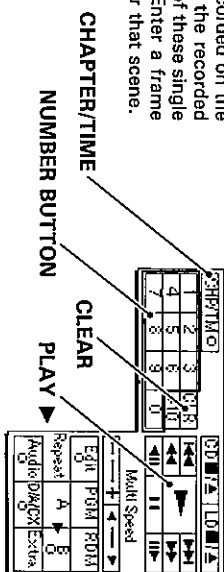
To stop time number search:

While searching, move the cursor to CLEAR and press the I/ENTER button.

SEARCHING FOR A DESIRED SCENE

Searching by Scenes (standard play CAV discs only) — Frame Search

A frame is a single picture that is recorded on the CAV. The frame number represents the recorded signals by the consecutive numbers of these single pictures, from the first to the last. Enter a frame number, and the system searches for that scene.



Example: To search for frame number 12340

1. Move the cursor to CHAPTER/TIME and press the I/ENTER button.

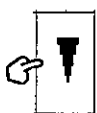


2. Move the cursor to the numbers in the order 1, 2, 3, 4, 0 and press the I/ENTER button.



When the wrong number is mistakenly entered:
Enter "CLEAR" and after the display shows "0", input the correct number (5 digits).

3. Move the cursor to ► and press the I/ENTER button.

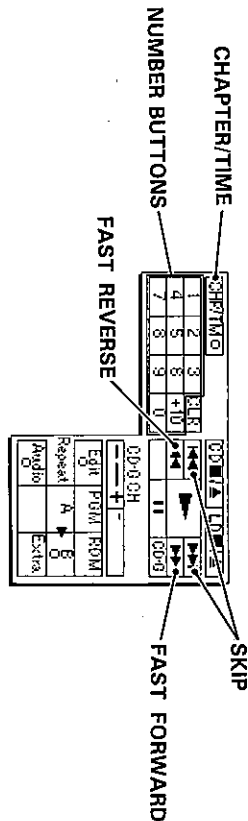


- As for ►, after the frame search the system displays the still screen. After this, by moving the cursor to ► and pressing the I/ENTER button, the system returns to normal playback mode.
- When the Search operation is completed, a still frame is displayed, regardless of conditions prior to the start of the Search operation.

To display the current chapter and frame numbers:

Press the SELECT button on the Control Pad, and these numbers appear on the screen.

To stop frame search:
While searching, move the cursor to CLEAR and press the I/ENTER button.



To Search for Tracks by Inputting Track Numbers
— Track Number Search

Move the cursor to the desired track number and press the I/ENTER button.

1	2	3	
4	5	6	+10
7	8	9	0

To listen from a desired place on the disc
— FAST FORWARD, FAST REVERSE manual search

Move the cursor to or button and press the I/ENTER button.



Skipping Tracks

Move the cursor to or , press the I/ENTER button!

After, by successively entering the button, the system returns to the previous track and earlier tracks.



By successively entering the button, the system advances to the next track and following tracks.

For track numbers above 10:
Use the and .

Example If 14:
If 29:

NOTE: Regarding Track Search
If a track number which is not recorded on the disc is entered, track search cannot be performed.

When returning to the beginning of the disc by FAST REVERSE manual search:
Normal playback commences.

When advancing to the end of the disc by FAST FORWARD manual search:
The system pauses.

Can sound be heard when conducting manual search?
By operating manual search during playback, sound is heard at low volume level while scanning.

Searching by entering the track number and playback time — Track-Time Search

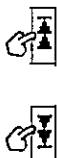
1. Move the cursor to CHAPTER/TIME and press the I/ENTER button.



3. Move the cursor to numbers of the playback time of the desired track (the playback time lapse from the beginning of that track — track time) and press the I/ENTER button.

1	2	3	
4	5	6	+10
7	8	9	0

2. Move the cursor to , and push the I/Enter button. The number of the track you want to listen to will be displayed.



4. Move the cursor to and press the I/ENTER button.

Playback starts from the instructed track time of the chosen track.

Searching by the Playback Time Lapse (ABS Time) from the Beginning of a Disc — ABS Time Search (CDs only)

1. Move the cursor to CHAPTER/TIME, press the I/ENTER button and "ABS" is displayed on the screen.



3. Move the cursor to and press the I/ENTER button.

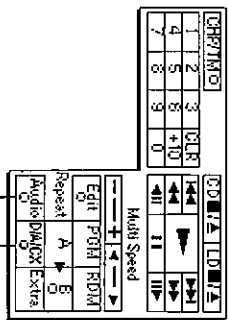
Playback starts from the instructed time.



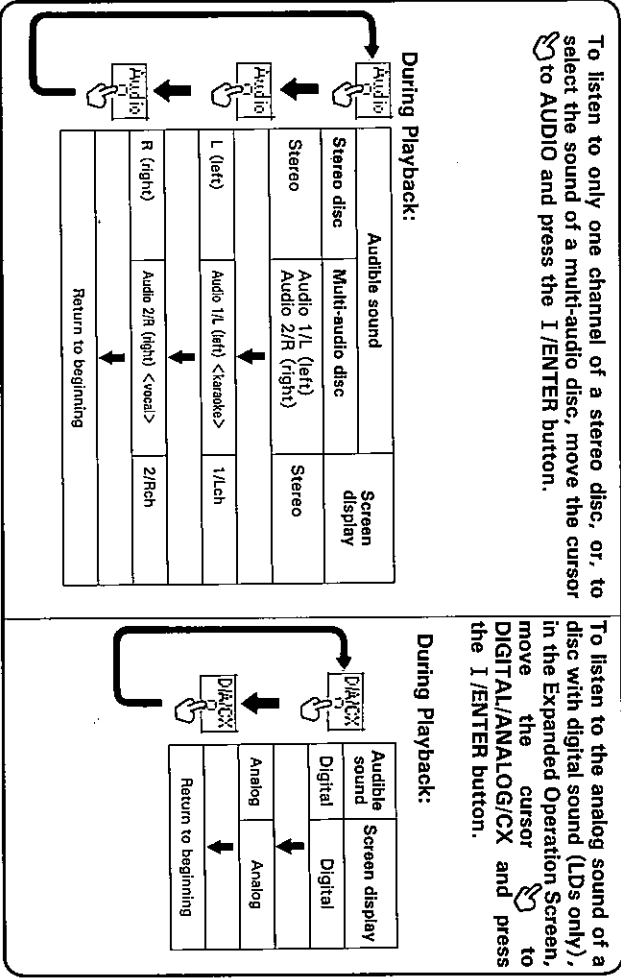
2. Move the cursor to numbers of the playback time from the beginning of the disc to the desired point and press the I/ENTER button.

1	2	3	
4	5	6	+10
7	8	9	0

When the wrong number is mistakenly entered:
Move the cursor to CLEAR and press the I/ENTER button, and then enter the correct number.



To listen to only one channel of a stereo disc, or, to select the sound of a multi-audio disc, move the cursor to **AUDIO** and press the **I/ENTER** button.



To listen to the analog sound of a disc with digital sound (LDs only), in the Expanded Operation Screen, move the cursor to **DIGITAL/ANALOG/CX** and press the **I/ENTER** button.

With multi-audio discs (LDs marked **digital**, **MULTI AUDIO** or **STEREOS**), various combinations can be enjoyed by selecting **DIGITAL/ANALOG** by **DIA/CX** and **1/L**, **2/R** channels by **AUDIO**.

Example of Audio Specifications on Multi Audio discs:

Disc	AUDIO	ANALOG SOUND	DIGITAL SOUND
Films, animation etc.		Actual edited sound	Soundtrack
Dual music		Music 1	Music 2
Various type of digital audio Karaoke		1/L Karaoke (mono) 2/R backing vocals	Stereo Karaoke
Stereo, bilingual		English	First foreign language

Disc	AUDIO	ANALOG SOUND	DIGITAL SOUND
Tri-lingual		English	1/L First foreign language 2/R Second foreign language
Quadri-lingual		1/L English 2/R First foreign language	1/L Second foreign language 2/R Third foreign language

Incorrect operations are often mistaken for trouble and malfunctions. If you think something is wrong with this unit, check the points below. Investigate the other components and electrical attachments being used. If the trouble cannot be rectified after the checks listed below, consult your nearest PIONEER authorized service center or your dealer. Also consult the operating instructions of the CD CDV LD player compatible with LaserActive.

Symptom	Causes	Remedy
Power switch of the player compatible with LaserActive does not function.	<ul style="list-style-type: none"> TurboChip is not correctly inserted. Control Pack is not correctly inserted. 	<ul style="list-style-type: none"> Insert the TurboChip correctly. Insert the Control Pack correctly.
No picture or sound is output.	<ul style="list-style-type: none"> Control Pack is not completely inserted. TurboChip is not completely inserted into Control Pack. TurboChip is inverse. 	<ul style="list-style-type: none"> Insert the Control Pack completely. Insert the TurboChip completely. Insert the TurboChip with the label facing upwards.
Cursor does not move in the screen.	<ul style="list-style-type: none"> Control Pack is not inserted correctly. Control Pad is not inserted correctly. 	<ul style="list-style-type: none"> Insert the Control Pack correctly. Insert the Control Pad correctly.
Cannot play back CD-ROM and LD-ROM discs.	<ul style="list-style-type: none"> TurboChip is still in Control Pack. A system card other than for LaserActive is inserted in Control pack. The disc is inverse. The disc is contaminated or has scars. 	<ul style="list-style-type: none"> Remove TurboChip. Remove the system card. Load the disc correctly. Clean the disc.
Operation screen is dark.	<ul style="list-style-type: none"> The same screen is displayed more than 10 minutes without any operation. Brightness has been decreased in Extra Operation screen. 	<ul style="list-style-type: none"> Press any button on Control Pad. Go to Extra Operation screen and increase brightness.
Remote control unit does not function.	<ul style="list-style-type: none"> The power supply cannot be switched ON/OFF by the remote control unit when this appliance is connected CD CDV LD player compatible with LaserActive. Operation through remote control unit cannot be made during playback of a CD-ROM or LD-ROM disc. 	<ul style="list-style-type: none"> Use the power switch of the CD CDV LD player compatible with LaserActive. Use Control Pad according to the operating instructions of respective software.
Attempt to authorize playback "Loading Error" is displaying and system will not perform playback.	<ul style="list-style-type: none"> The loaded disc is not compatible with the disc player. 	<ul style="list-style-type: none"> Exchange for compatible disc. (See page 5)

If the system accepts no operation at all, press the **RESET** button of the CD CDV LD player compatible with LaserActive. Alternatively, switch the power of the player OFF, then switch it ON again (the current game will be reset).

Input/output terminal:

TurboChip terminal (exclusive for Turbo Grafx-16)
Control Pad terminal
LaserActive terminal

Available software:

LD-ROM² (30 cm, 20 cm)
CD-ROM (for Turbo Grafx-CD)
TurboChip (for Turbo Grafx-16)
LaserDisc (30 cm, 20 cm)
CD VIDEO LD with TOC (30 cm, 20 cm)
Compact Disc (12 cm, 8 cm)
CD VIDEO SINGLE (12 cm)
CD-G (CD graphics)

Others

Weight 1.1 kg (excluding the Control Pad)
Dimensions ... 160 (W) x 253 (D) x 40 (H) mm
Allowable operating temperature ... +5 to +35°C
Allowable operating humidity ... 5 to 85% (no condensation)
Rating
Power DC +8.5 V 100mA
Power DC -8.5 V 100mA
Power DC +5 V 600mA
Accessory Control Pad (CPD-N10) 1

Depending on the type of repair, the data saved in the internal back-up RAM may be lost. As the contents of the lost data cannot be secured, please take proper steps beforehand to ensure that data are not lost.

Operation functions by the Control Pad

	Function	Standard-play Disc (CAV)	Extended-play Disc (CLV)	Compact Disc with Video	Compact Disc
Basic Functions	Single-slide play	YES	YES	YES	YES
	Pause	YES	YES	YES	YES
Search	Stop	YES	YES	YES	YES
	Fast forward (forward and reverse)	YES	YES	YES	YES
	Chapter/track skip	YES	YES	YES	YES
	Direct Chapter/track number search	YES ⁴	YES	NO	NO
Program	Frame number search	NO	YES	YES	YES
	Time number search	NO	YES	YES	YES
Repeat	Chapter/track program play	YES	YES	YES	YES
	Program correction	YES	YES	YES	YES
Trick play	Edit	YES ¹	YES ¹	YES	YES
	Repeat between 2 points	YES	YES	YES	YES
	Memory repeat	YES	YES	YES	YES
	Chapter/track repeat	YES	YES	YES	YES
	One-side repeat	YES	YES	YES	YES
	Program repeat	YES	YES	YES	YES
	Random repeat	YES ¹	YES ¹	YES	YES
	Program random repeat	YES	YES	YES	YES
	Still/Step	YES	YES	YES ²	NO
	Multi-speed (forward/reverse, 3-level variable)	YES	YES	YES ⁴	NO
Time display	Elapsed time display	NO	YES	YES	YES
	Absolute time display	YES ¹	NO	NO	YES
	Remaining track time display	NO	NO	YES	YES
	Remaining total time display	YES ¹	YES ¹	YES	YES
Others	Total number of selections, total time display	YES ¹	YES ¹	YES	YES
	CX system ON/OFF	YES ²	YES ²	NO	NO
	Auto Digital/Analog switch	YES ³	YES ³	NO	NO
	Audio channel selection (stereo, 1/L, 2/R) Picture stop cancel	YES	YES	YES	YES

- *1 Only discs with TOC
- *2 Valid for analog sound playing a disc with the mark.
- *3 Can only be used with discs with digital sound tracks.
- *4 Video part only

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



Dear Customer:

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

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

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

Once you have established a comfortable sound level:

- Set the dial and leave it there.

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



We Want You Listening For A Lifetime

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

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

THE FOLLOWING NOISES CAN BE DANGEROUS UNDER CONSTANT EXPOSURE

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

Information courtesy of the Deafness Research Foundation.



Published by Pioneer Electronic Corporation.

Lasertek is a trade mark of Pioneer Electronic Corporation.
Lasermatrix is a trade mark of Pioneer Electronic Corporation.
