

# Panasonic

Multi Laser Disc Player

**LX-101EN**

Operating Instructions

使用説明書



Thank you for purchasing the Multi Laser Disc Player, LX-101EN.

For optimum performance and safety please read these instructions carefully.

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## Accessories

Infra-red Remote Control (With two "R03" size batteries)

Power Cord

Video Cable

Audio Cable

AC Plug Adaptor

**Voltage selector**

This unit can also be used in other countries where voltages are different (AC 110 V, 127 V, 220 V, 240 V) by setting the voltage selector to the local voltage.

Before plugging in the unit, ensure that the voltage selector is set to the same voltage as your local power supply. Refer to page 4.

The model number and serial number of this product can be found on either the back or the bottom of the unit.

Please note them in the space provided below and retain this booklet as a permanent record of your purchase to aid identification in the event of theft.

MODEL NUMBER \_\_\_\_\_

SERIAL NUMBER \_\_\_\_\_

**CAUTION:**

●THIS PRODUCT UTILIZES A LASER.  
USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.  
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

**WARNING:**

**TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE.**

CAUTION: MULTI LASER DISC PLAYERS USE INVISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED.  
BE SURE TO OPERATE THE PLAYER CORRECTLY AS INSTRUCTED.

■ **TO REDUCE THE RISK OF FIRE OR SHOCK HAZARD AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.**

# Before Use

## Voltage Adjustment

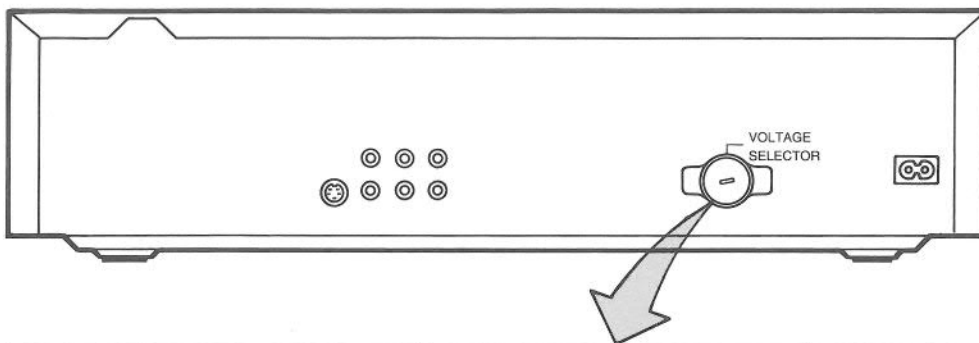
Use a minus (-) screwdriver to set the voltage selector to the voltage setting for the area in which the unit will be used.

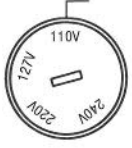



- This unit is shipped from the factory with the Voltage Selector set to 240 V.

### Note:

Power Switch must be off and Power Cord disconnected from mains prior to changing the voltage selector.

This unit will be seriously damaged if this setting is not made correctly.

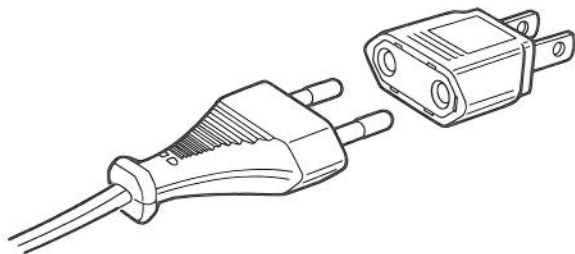


SETTING THE VOLTAGE SELECTOR				
LOCAL VOLTAGE	AC 110 V	AC 127 V	AC 220 V	AC 240 V

## AC Plug Adaptor

Since this unit is equipped with a Voltage Selector, it can be used in foreign countries, too. However, in countries where different shaped AC power plugs are used, an AC Plug Adaptor for the country in which you intend to use it will be necessary. (Such AC Plug Adaptors are sold in airport shops, etc.)

- When using this unit in countries with 110 V or 127 V AC power supply, it can be operated with the supplied AC Plug Adaptor except in a few countries.

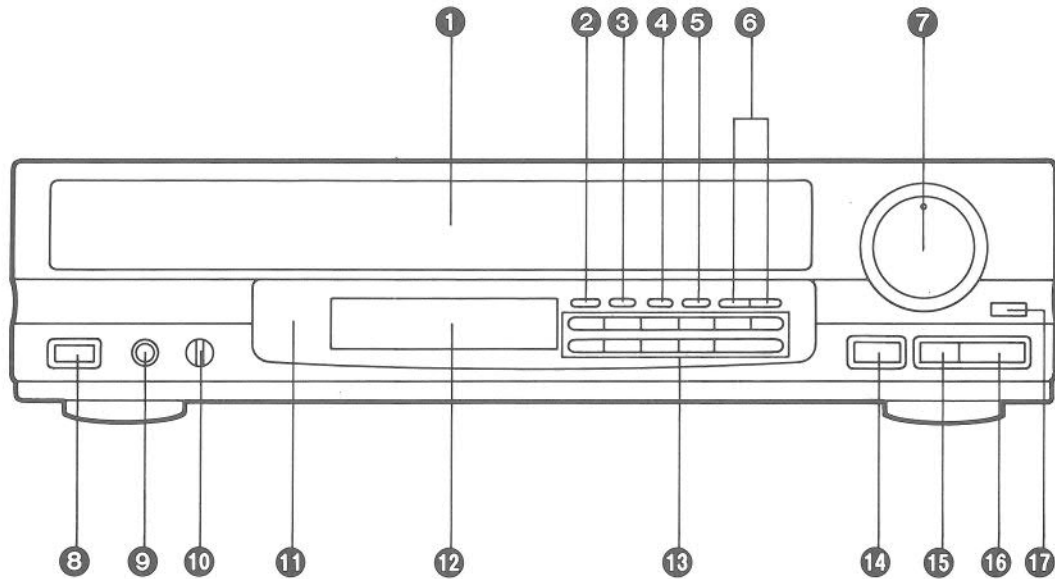




# Controls And Components

The explanations in this manual are mainly based on the operation with the Remote Control. Therefore, the page numbers indicated below refer to operations performed with the Remote Control.

## Front



## Control Section

No.	Description	Page
1	Disc Tray	13
2	Edit Button	32
3	Length Button	33
4	Warp Button	34
5	Tape Side Button	33
6	Skip Buttons	25, 28
7	Shuttle Dial	21
8	Power On/Off Button	14
9	Headphone Jack •Connecting headphone to this jack allows bilingual and stereo sound reproduction.	—

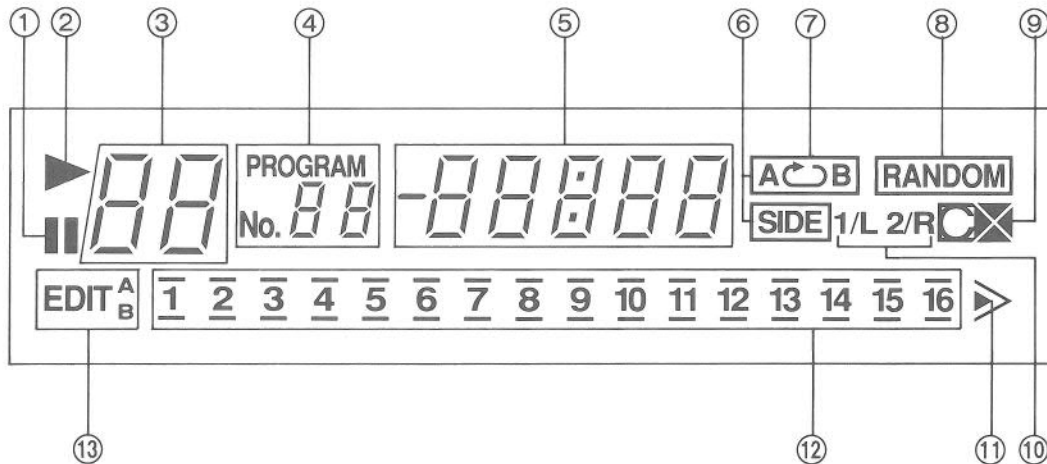
No.	Description	Page
10	Headphones Volume Control •To adjust sound level.	—
11	Remote Control Receiver	9
12	Multi-Function Display	6
13	Numeric Buttons	25
14	Stop Button	14
15	Pause Button	14
16	Play Button	14
17	Open/Close (Play) Button	14

### WARNING

It is not recommended to listen with headphones for a long time with the volume turned extremely high.

# Controls And Components (continued)

## Multi Function Display

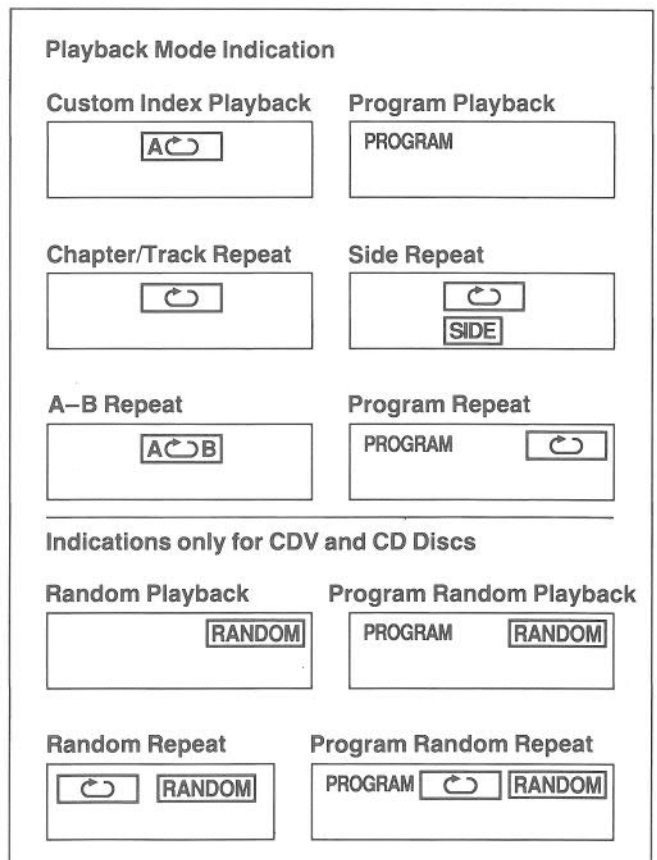


- ① **Pause Indicator**
- ② **Play Indicator for All Playback Mode**
- ③ **Chapter/Track Number Indication**
- ④ **Index Number/Program Number Indication**
- ⑤ **Frame Number/Time Number Indication**
- ⑥ **Side Repeat Indicator**
- ⑦ **Custom Index Playback/Various Repeat Playback Indication**
- ⑧ **Random Playback Indicator**
- ⑨ **CX System ON Indicator**
- ⑩ **Audio Output Mode Indicators**
- ⑪ **Over Indication**  
When there are more than 17 tracks on a disc, the ">" indication will appear. When playing back a tune above number 17, the ">" indication will be displayed.

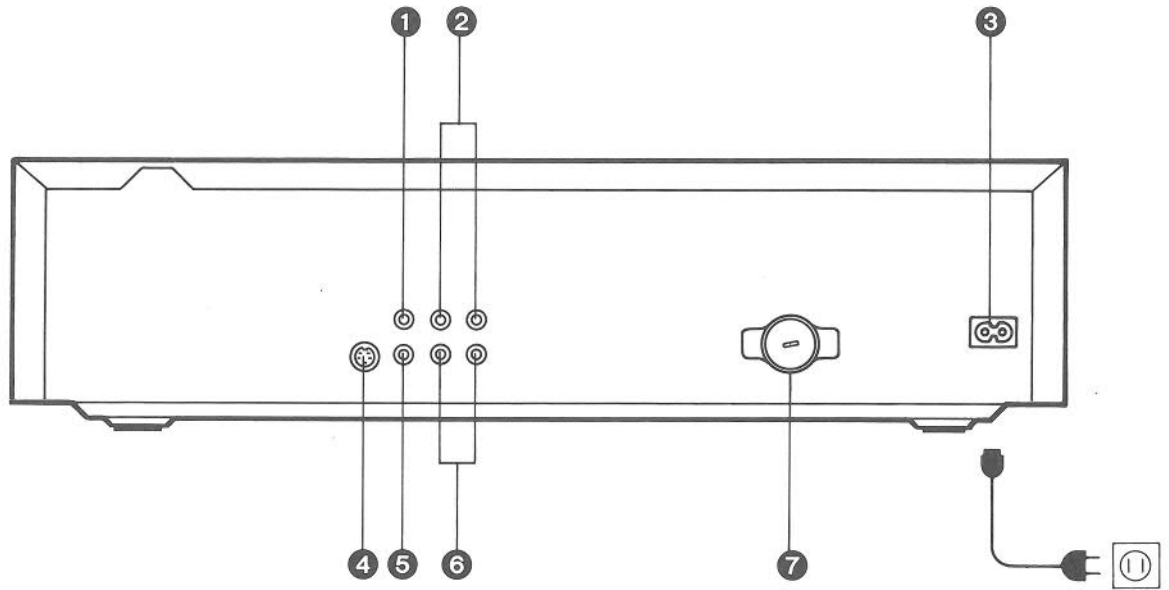
- ⑫ **Tune Number Indication**
  - When playing back an LD disc with recorded chapter numbers, the bars above and below the chapter number that is being played back will light up.
  - When playing back an LD disc without recorded chapter numbers, the bars will not light up.
  - When playing back a CDV or a CD disc, the bars above and below the numbers recorded on the disc will light up. As soon as the playback of a track is finished, the bars of that number will no longer be lit.

•On some LD discs, the chapter number "0" may be recorded. However, there is no Tune Number Indication for that number.

### ⑬ Edit Indication



## Rear

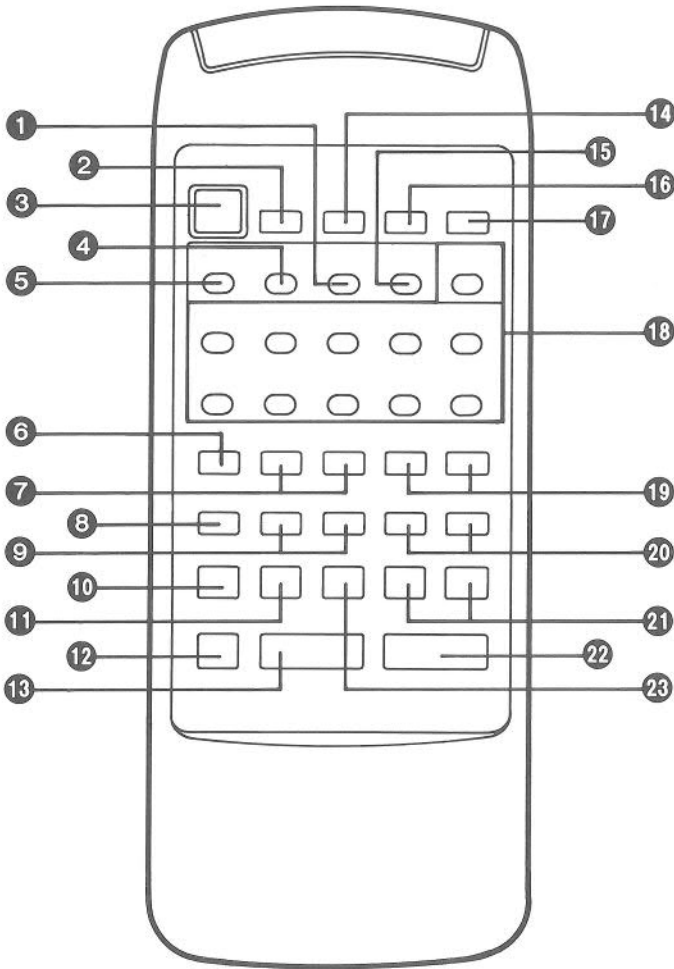


No.	Description	Page
1	Video Output 1 Jack	10
2	Audio Output 1 Jacks	10
3	AC Power Socket	—

No.	Description	Page
4	S-Video Output Jack	10
5	Video Output 2 Jack	10
6	Audio Output 2 Jacks	10
7	Voltage Selector	4

# Controls And Components (continued)

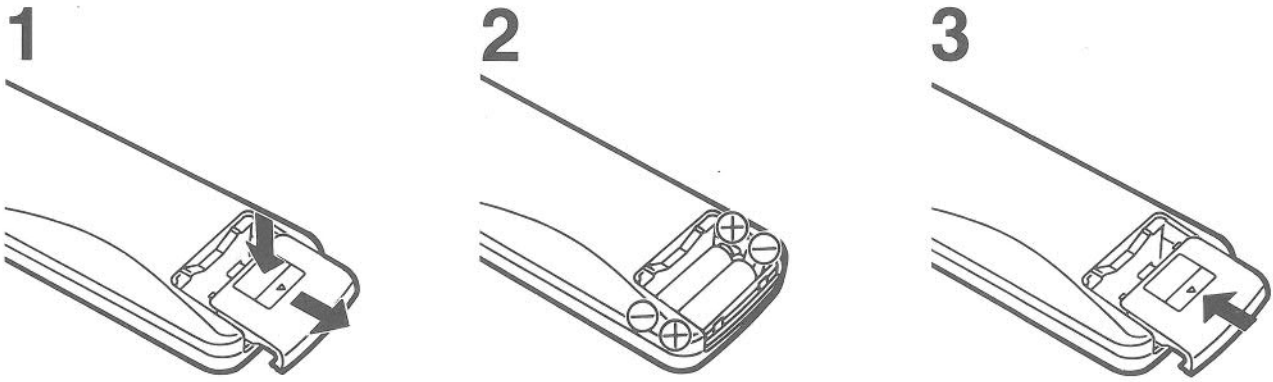
## Remote Control



No.	Description	Page
1	Clear Button	25
2	Display (On-Screen Indication) Button	19
3	Open/Close (Play) Button	14
4	Recall Button	30
5	Program Button	29
6	Repeat Button	36
7	Speed Selector Buttons	23
8	A-B Repeat (Custom Index) Button	15, 37
9	Still/Step Advance (Reverse) Buttons	22
10	D/A • CX Button	17
11	Audio Level Button	20
12	Stop Button	14
13	Pause Button	14
14	Time Mode Button	20
15	Mode Button	25
16	Intro Scan Button	24
17	Random Button	24
18	Numeric Buttons	25
19	Multi Speed Buttons	23
20	Scan Buttons	21
21	Skip Buttons	25, 28
22	Play Button	14
23	Audio Selector Button	16

# Using The Remote Control

## Battery installation



**1** Remove the battery cover.

**2** Place the batteries in the battery compartment as indicated inside the battery compartment.

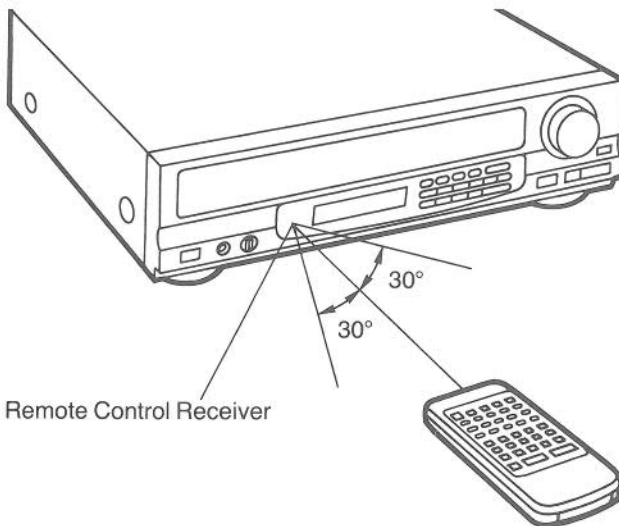
**3** Close the cover.

## Use of batteries

- Load the new batteries with their polarities (+ and -) aligned correctly.
- Do not apply heat to batteries, or internal short-circuit may occur.
- If you do not intend to use the Remote Control for a long period of time, remove the batteries and place in a cool and dry area.
- Remove spent batteries immediately and dispose of them.
- Do not use an old and a new battery together. (Also never use an alkaline battery with a manganese battery.)

## Operation notes

### How to Operate the Remote Control

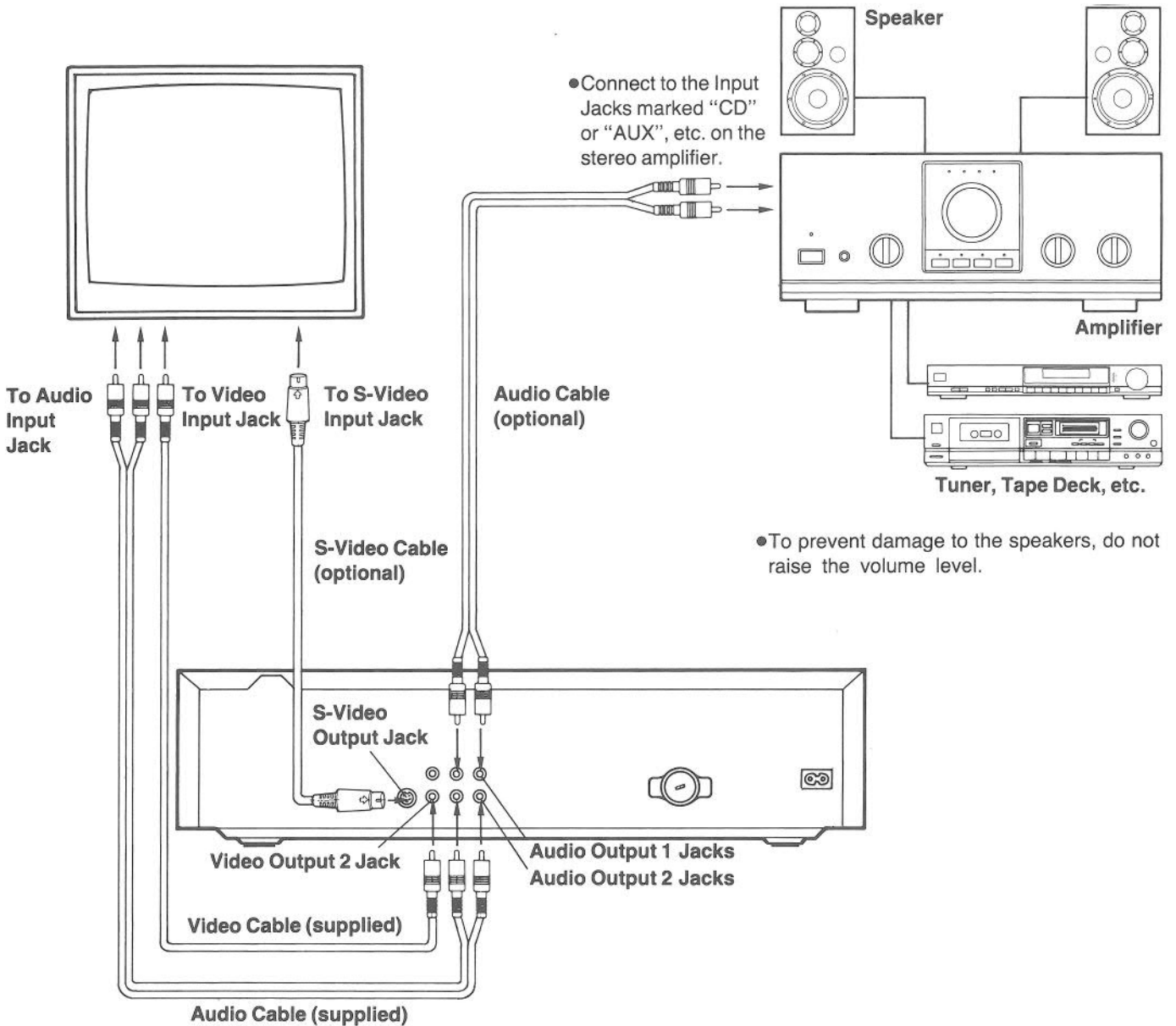


- The infra-red beam should be transmitted directly at the Remote Control Receiver on the front of the unit.
- Direct sunlight may interfere with the beam.
- The light-sensing angle of the Remote Control Receiver in the unit is about 30° from each side to the center.
- The unit should be used within a range of about 7 meters (23 FT) from the front of the unit.

# Connections

## TV Set with video input jack and audio equipment

●Carefully read the operating instructions of the other equipment before hooking up the Multi Laser Disc Player.



## S-Video Output Jack

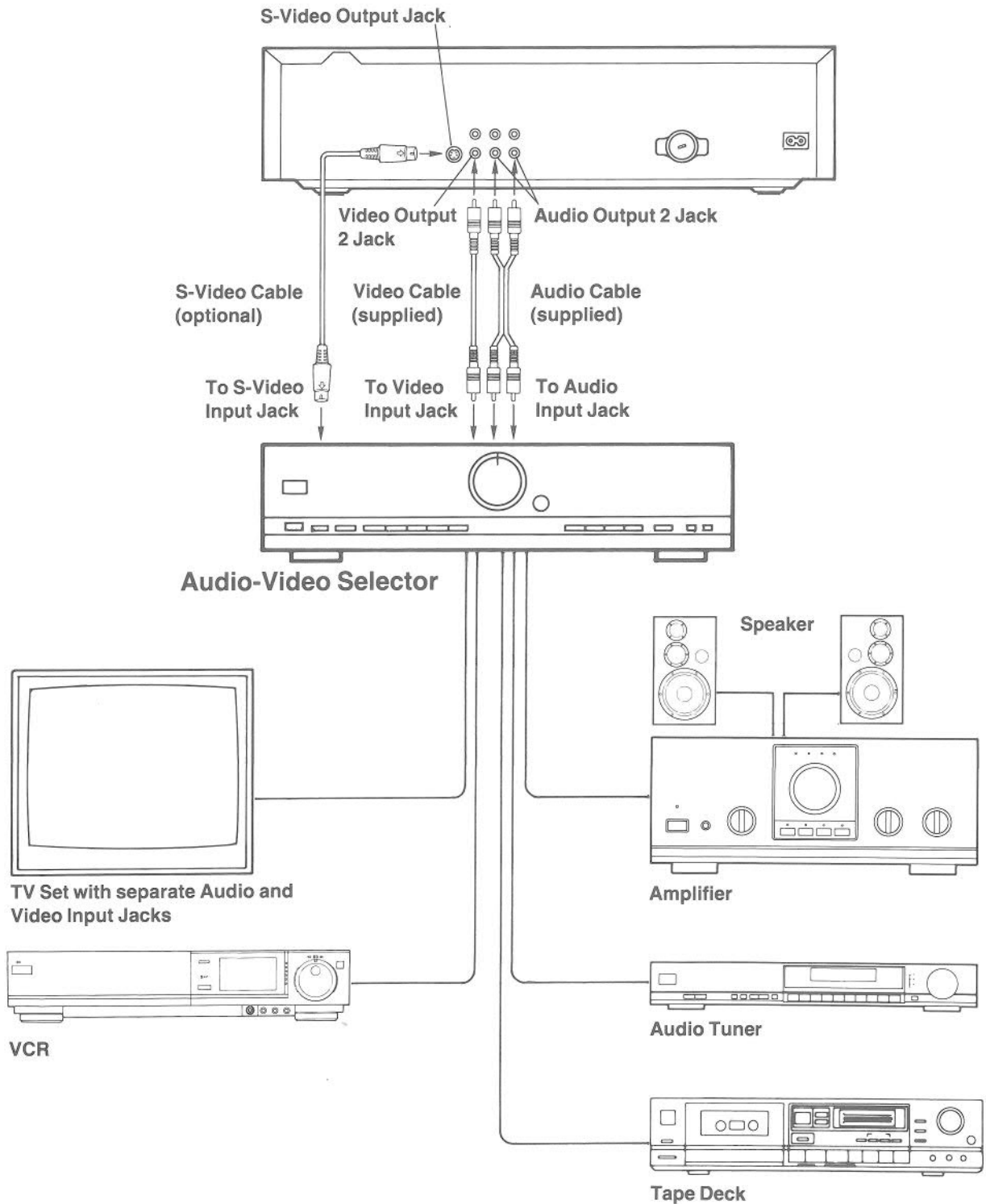
The conventional video output jacks output a combination of the luminance signal (Y) and color signal (C). The new S (Separate)-Video Jack allows separate transmission of these two signals to a TV set in order to obtain better picture quality.

It is recommended to use the optional S-Video Cable to connect this Laser Disc Player with a TV set that is also equipped with S-Video Jack.

## Example of an Audio-Video System

If you have other AV equipment such as a VCR, it is convenient to connect them via an optional Audio-Video Selector.

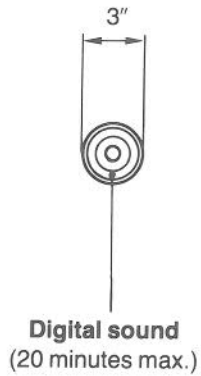
- The Audio Video Selector allows easy switching of picture and sound between the different units for playback and recording.
- For details, refer to the operating instructions of the Audio-Video Selector.



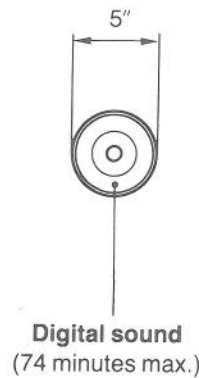
# Discs That Can Be Played Back

This Multi Laser Disc Player makes it possible to play back the following six kinds of laser discs without any adaptor.

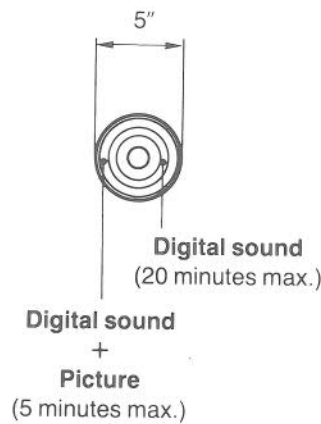
**CD (Compact Disc) Single**  
[Single side only]



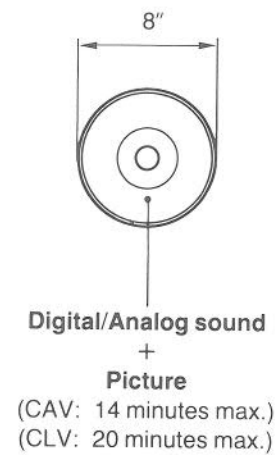
**CD**  
[Single side only]



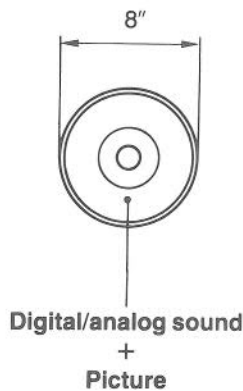
**CDV (Compact Disc Video)**  
[Single side only]



**LD (Laser Videodisc) Single**  
[Single side only]

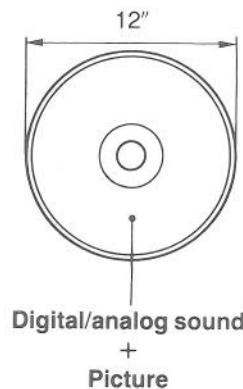


**LD**  
[Both sides]



(CAV: 14 minutes max. for single side)  
(CLV: 20 minutes max. for single side)

**LD**  
[Both sides or single side only]



(CAV: 30 minutes max. for single side)  
(CLV: 60 minutes max. for single side)

- Only discs bearing one of trademarks shown on the right can be used with this unit.
- CED and VHD system video discs cannot be used with this unit.
- This unit uses the NTSC color TV system. Discs marked with other color TV systems (PAL, SECAM) cannot be played back.
- This unit does not correspond to the CD Graphics and CD-ROM specifications.
- Never use any discs whose back is coated with aluminum.

**Note:**

Your attention is drawn to the fact that recording, broadcasting, showing, playing to public and rental of pre-recorded discs and tapes or other published or broadcast material may infringe copyright laws.



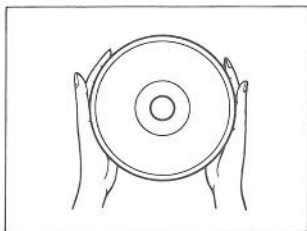


# Handling The Disc

## Holding the Disc

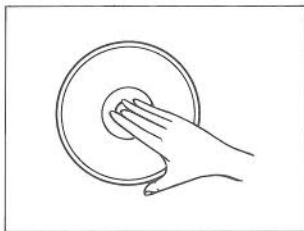
Hold the disc without touching its surface.

### LD (12")/LD, LD Single (8") Discs



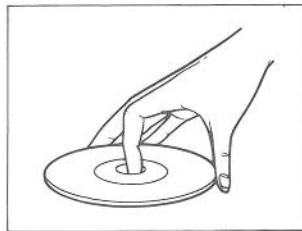
**When holding with both hands:**

Hold the disc by the edge.

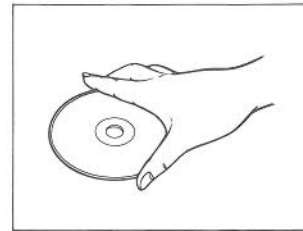


**When holding with one hand:**

### CDV, CD (5")/CD Single (3") Discs



Hold the disc with the index finger in the center hole and the other fingers around the edge.



## Placing the Disc on the Disc Tray

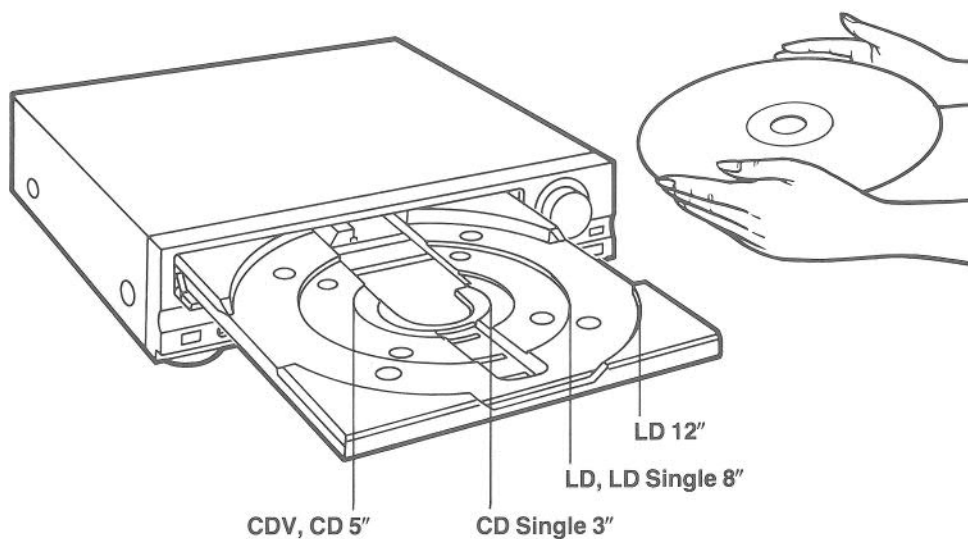
Place the disc in the proper recession according to its size and make sure it lies completely flat.

### LD Disc with Recording on Both Sides:

Place the disc on the tray with the label of the side to be played back facing upward.

### LD Disc with Recording on One Side Only and CDV or CD Disc:

Place the disc on the tray with its label facing upward.

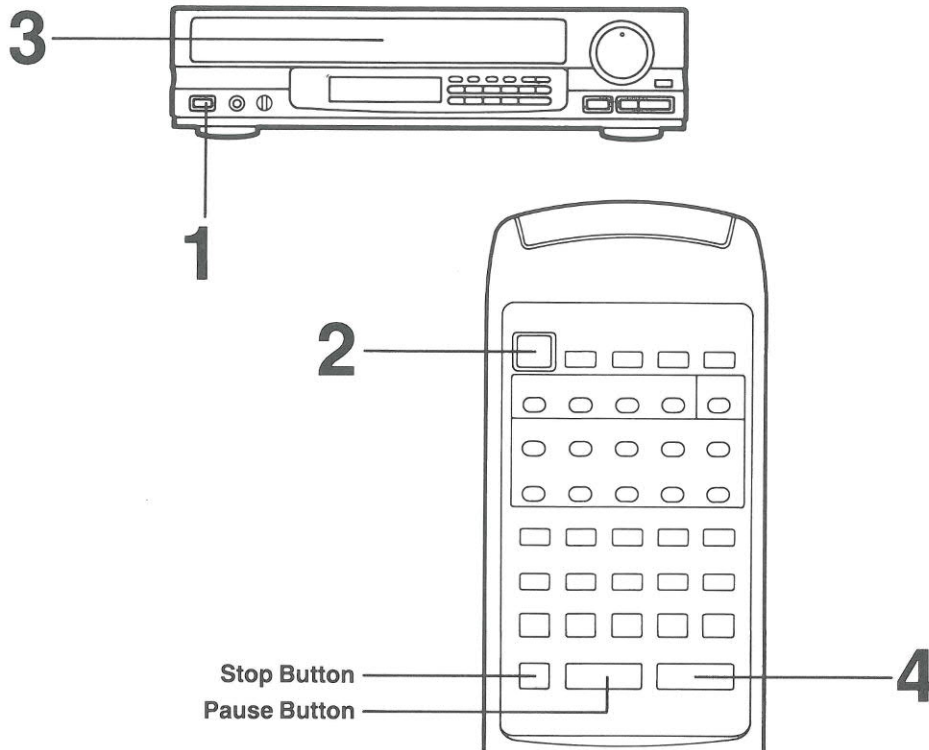


### Note:

Incorrect placement of the disc or inserting two discs at the same time will cause malfunction and or cause serious damage to the unit.

# Playback

Functions and operations discussed in this operating instruction booklet are to be mainly used with the remote control.



## Normal Playback [LD] [CDV] [CD]

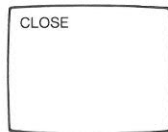
**1** Turn the power on.

**2** Open the Disc Tray.

**3** Insert the disc.

**4** Press the Play Button.

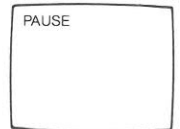
- The playback will also start if the Open/Close Button on the Remote Control is pressed.



**To interrupt the playback temporarily:**

Press the Pause Button.

- To continue the playback from the same position, press the Pause Button again.



**Note:**

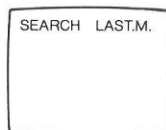
- Do not tilt, lift or cause any shock to the Multi Laser Disc Player while a disc is being played back. This could damage the disc.
- Do not try to open the Disc Tray with your hands.
- Do not insert any object other than the specified discs.
- To prevent damage to its mechanism and accumulation of dust, do not leave the Disc Tray in its opened position.

**To stop playback:**

Press the Stop Button.

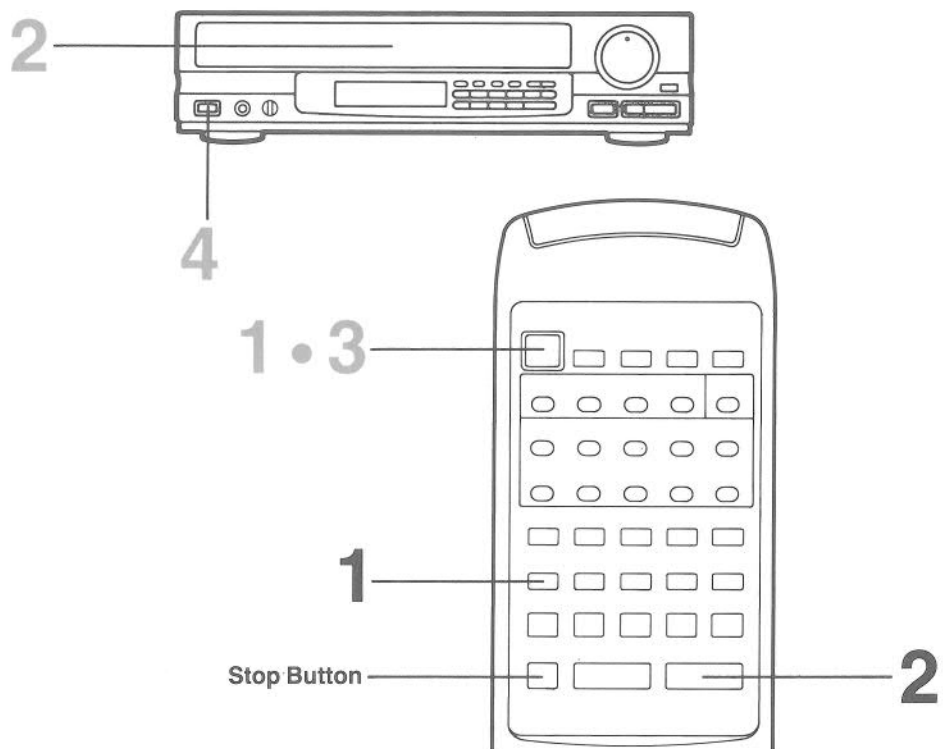
## Last Memory Function [LD]

When the Stop Button is pressed, the Last Memory Function memorizes the point where the playback was stopped. When the Play Button is then pressed with the unit in the stop mode, playback will resume approximately at the point where it was stopped.



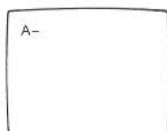
However, if any operation other than playback is performed after pressing the Stop Button, the Last Memory Function will be cancelled.

- The Last Memory Function does not work in the Program Playback mode and the Repeat Playback mode.

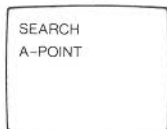


### Custom Index Playback [LD] [CDV] [CD]

**1** During playback, press the A-B Repeat Button at the point from where you want to watch (listen [CD]).



**2** Press the Play Button.  
 •The playback will restart from the point where the A-B Repeat Button was pressed in step 1.



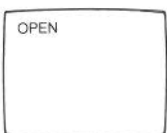
**Note:**

- This function will be cancelled when any button other than Play, Still, Forward and Backward is pressed.
- This function does not work when the disc portion to be repeated covers parts of both the audio and video sections of a CDV disc.
- This function does not work during Random Playback and Program Playback.

To stop the playback, press the Stop Button.

### Removal of Disc from Multi Disc Player

**1** Open the Disc Tray.



**2** Remove the disc.

**3** Close the Disc Tray.



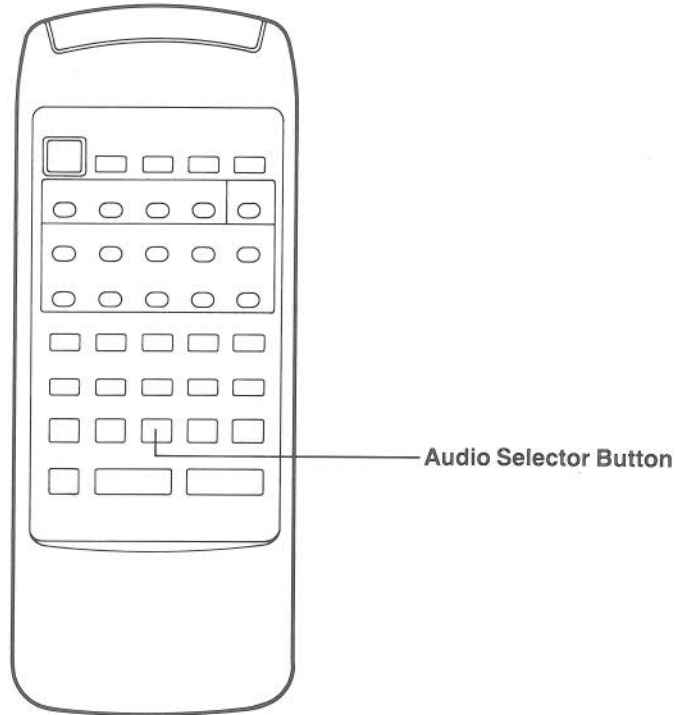
**4** Turn off the power.

When the unit is not to be used for a long period, be sure to disconnect the AC Power Cable from the AC outlet.

# Audio Channel Selection

With the Audio Selector Button, the desired audio Playback can be selected.

## Audio Selector Button, [LD], [CDV] or [CD]

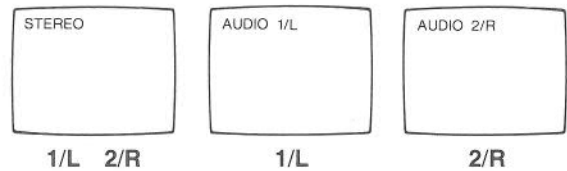


### Discs with recorded stereo sound

To select the desired audio channel, Press the Audio Selector Button.

Audio Indication	Playback Sound
1/L 2/R	Stereo Sound.
1/L	Audio of left channel out through both speakers.
2/R	Audio of right channel out through both speakers.

●On-screen displays are as follows:

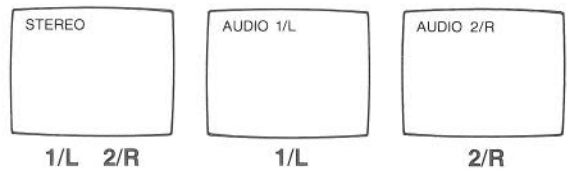


### Disc with recorded bilingual audio information

Switching the sound with the Audio Selector Button

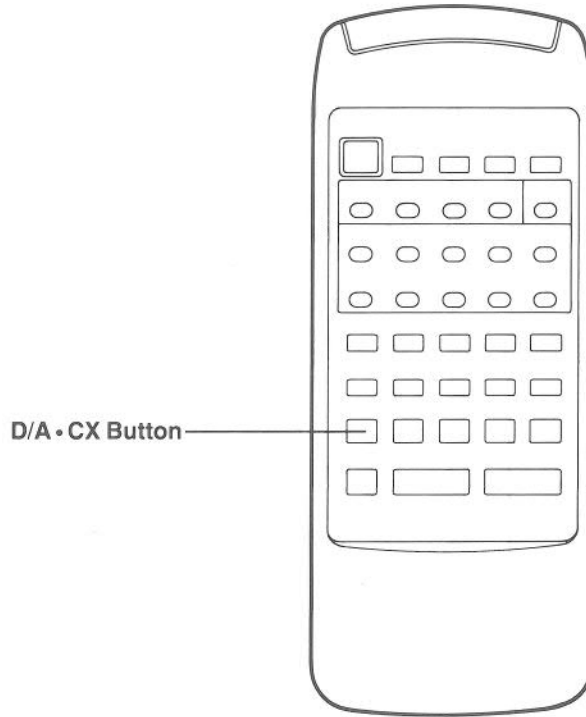
Audio Indication	Playback Sound
1/L 2/R	Main audio signal is heard from left speaker, and sub audio signal from the right speaker.
1/L	Main audio out to both speakers.
2/R	Sub audio out to both speakers.

●On-screen displays are as follows:



With the D/A • CX Button the desired digital sound can be selected as well as the CX noise reduction.

### D/A • CX Button [LD]



### Discs with digital sound



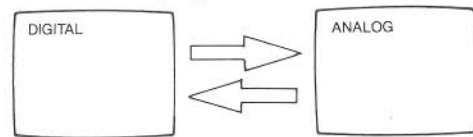
For discs displaying these trademarks.

When playback starts, the indication "DIGITAL SOUND" will be indicated on the Multi-Function Display.

The audio signal output from the Audio Output Jacks on the rear of the multi Laser Disc Player can be switched between digital and analog by pressing the D/A • CX Button on the Remote Control.

When the power is turned on, the digital sound will automatically be selected.

•On-screen displays are as follows:



**Note:**

•Since the recording levels of the digital and the analog sound are different, the volume of some discs with digital sound may change when switching between digital sound and analog sound.

•Depending on the disc used, each push of the D/A • CX Button will change the indication on a TV screen in the following sequence.






"CX ON" and "CX OFF" indicates that the analog sound system is activated or deactivated.

### Discs with CX Mark

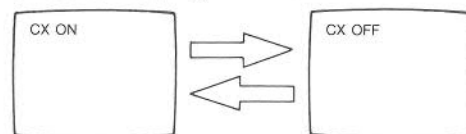


For discs displaying this trademark.

Discs which are encoded with CX allow reproduction of dynamic sound with minimal noise thanks to its Noise Reduction System. When this disc is played back,  will be displayed on the Multi-Function Display.

The code which automatically turns on/off the CX system may not be recorded on all discs, and if a disc without this code is played back,  will not be displayed. In this case, press the D/A • CX Button on the Remote Control to make the  indication light up.

•On-screen displays are as follows:



**Note:**

If a disc without the CX mark is played back, and the CX mode is used, the audio response will change.

 is a trademark of CBS.

The Multi Laser Disc Player conforms with the extended specifications for the CX system.

# On Screen Display Instructions

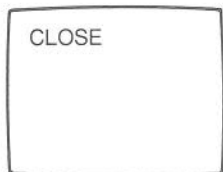
## Examples of Displays

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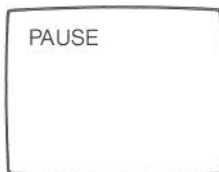
There are many Displays besides those shown below. They are explained in the instructions on the following pages.



Opening Disc Tray.



Closing Disc Tray.



The Multi Laser Disc Player is in the pause mode.



The Search Function or the Skip Function is being operated. Operating search or Skip function.



Reading the content of the disc.  
●This Display will be indicated when a CDV or CD disc is inserted.

- The screen will be blue in the pause mode of an LD disc and in the sound playback mode of a CDV (Audio part) or CD disc.
- If the TV is on during playback of a CDV or CD disc, it is possible to confirm the number of the track being played back, the elapsed playback time, and the operating condition of the Multi Laser Disc Player on the TV screen.

## If the Multi Laser Disc Player is Put in the Stop Mode

---

Depending on the type of inserted disc, the on-screen indication will be as follows:

For CDV and CD discs, the total number of recorded tracks and the recording duration are displayed.

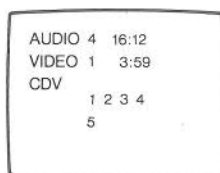
- The time displayed on the screen may differ somewhat from that listed in the explanations included with the disc.

### LD

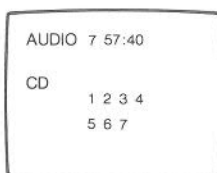


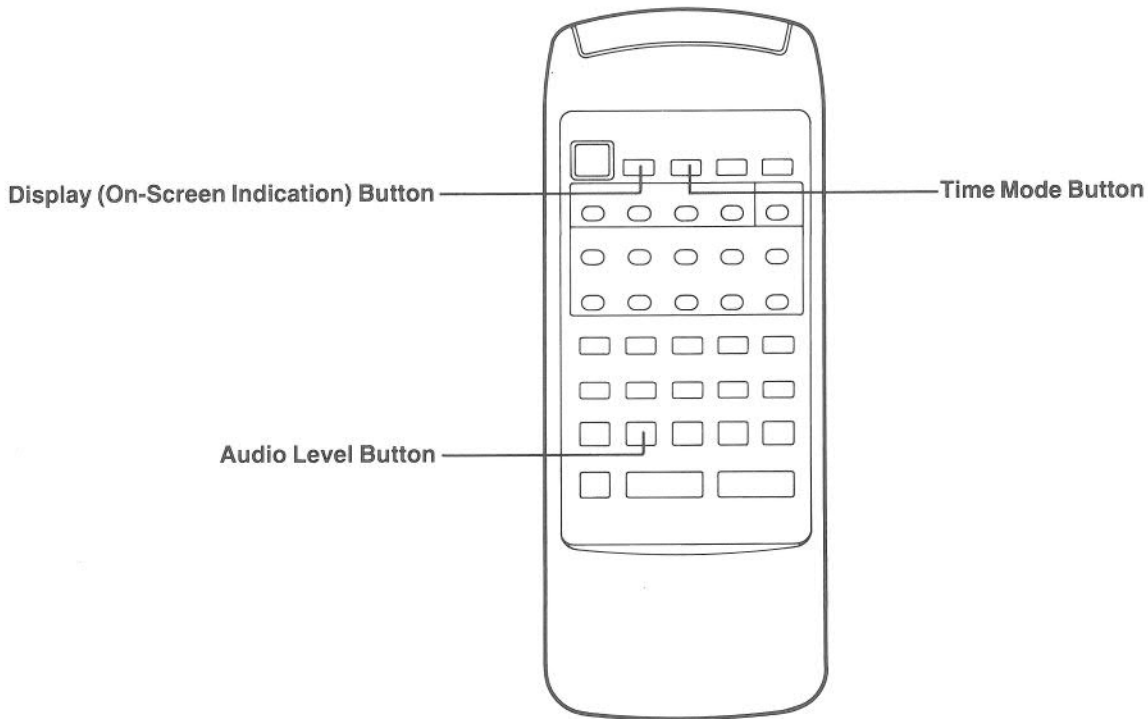
No indication

### CDV



### CD





**To confirm during disc playback [LD] [CDV] [CD]**

Press the Display (On-Screen Indication) Button, and the following indications will appear on the screen.

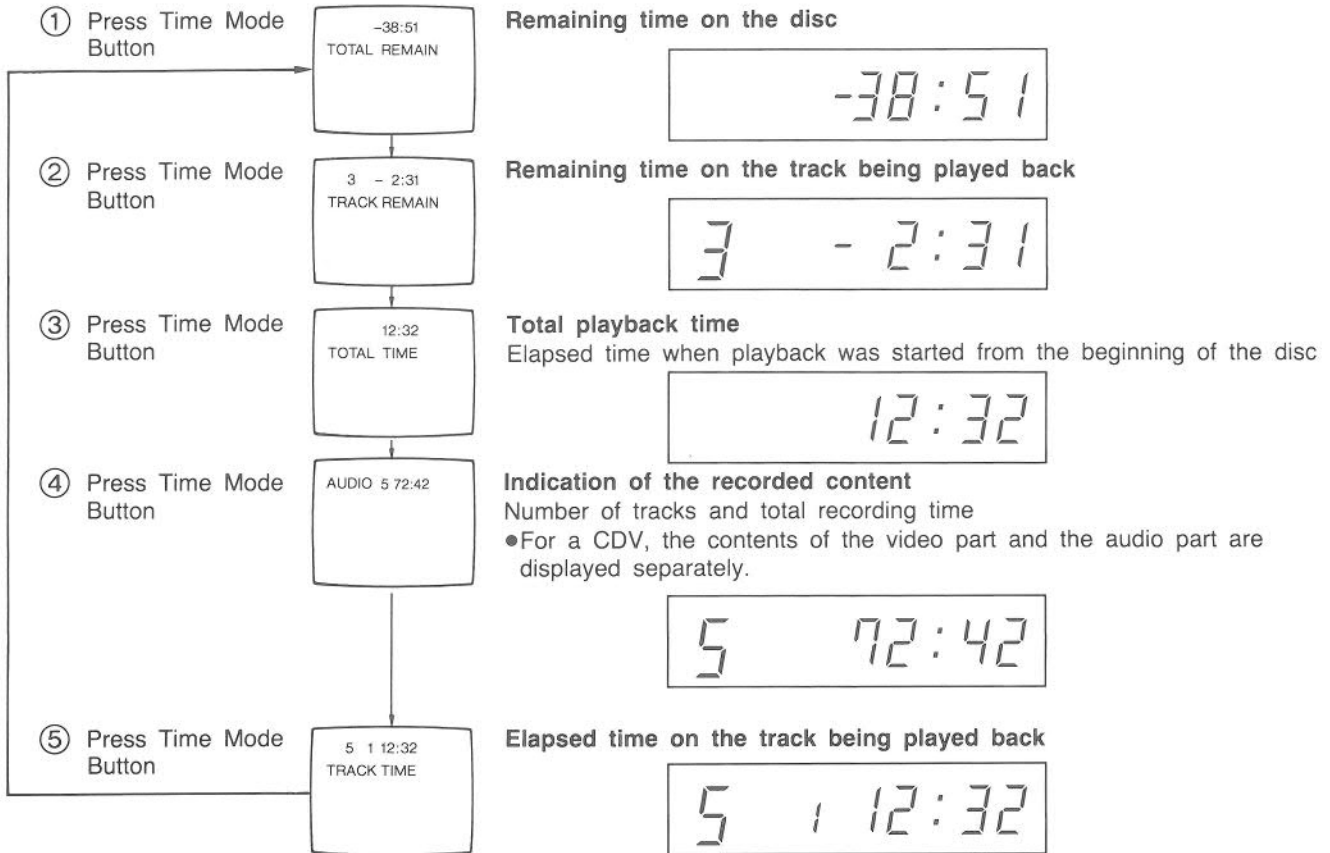
<b>LD [CAV]</b>	<b>LD [CLV]</b>	<b>CDV, CD</b>	<b>One more press</b>
<p>Chapter Number</p> <p>Frame Number</p>	<p>Chapter Number</p> <p>Time Number</p>	<p>The number of the tune which is being played back will flash. (When a CD is played back, the indication "CD" will be displayed.)</p> <ul style="list-style-type: none"> <li>●During playback of the video part of a CDV disc, there will be no indication.</li> </ul>	<p>Track Number</p> <p>Index Number</p> <p>Elapsed Time of Track</p>

- When playing back a CLV on which the seconds have not been recorded, only the minutes will be displayed. (Example: "17: ")
- When playing back a disc on which the chapter has not been recorded, the chapter number will not be displayed.

# On Screen Display Instructions (continued)

## To review the time display [CDV] [CD]

By pressing the Time Mode Button the display will indicate the following:



●Press the Display Button to clear the screen.

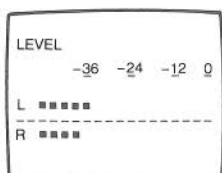
**Note:**

- In the random playback mode, the on-screen display will follow this sequence ②→④→⑤.
- During Edit Playback, the indication ① shows the remaining tape time and the indication ③ indicates the total playback time on side A or side B of the cassette tape.
- The time displayed by the Multi Laser Disc Player may differ somewhat from that listed in the table of contents included with the disc. This is because those table of contents list only the actual playing time of each track, while the Multi Laser Disc Player also counts and displays the time of the intervals between tracks.

## To display the audio volume level [CDV] [CD]

Press the Audio Level Button to display the audio volume on-screen level.

Press this button again to cancel this display.



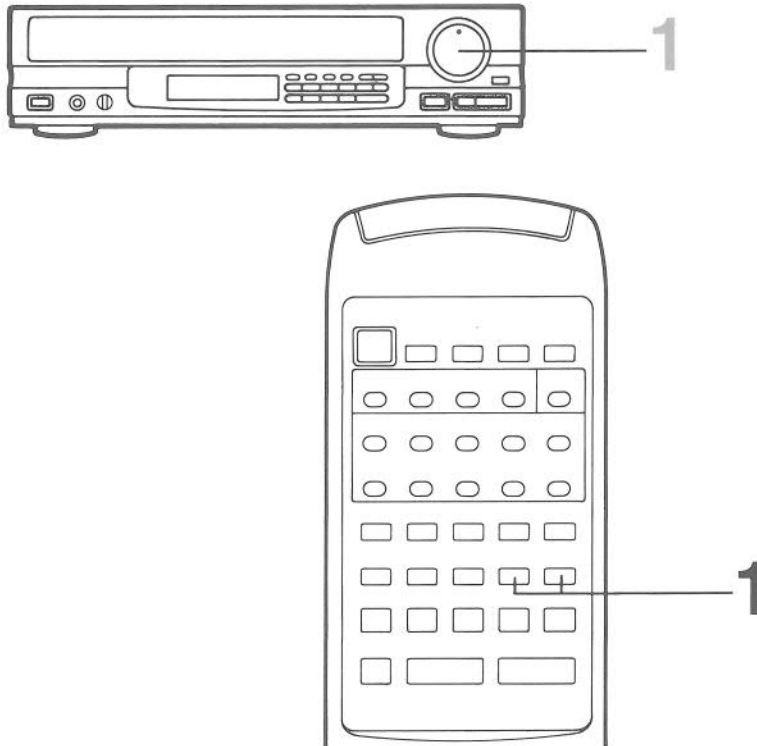
- The volume meter is equipped with peak hold function that keeps instantaneous maximum volume levels.
- The volume level displays the actual signal level recorded on CDV and CD discs.
- The low-frequency signals will not be displayed accurately.

**Note:**

- The numerical volume level indicator display may differ between recordings or other playback sources.
- The volume level is not displayed during playback of the video selection in CDV disc.



# Playback Functions



## Forward (Backward) Playback [LD] [CDV] [CD]

**1** Keep the Scan (Forward or Backward) Button pressed while the Multi Laser Disc Player is in the normal playback mode.

- For approximately the first 2 seconds, the picture will be played back at low speed, then at a faster speed.

- As soon as the button is released, normal playback resumes.

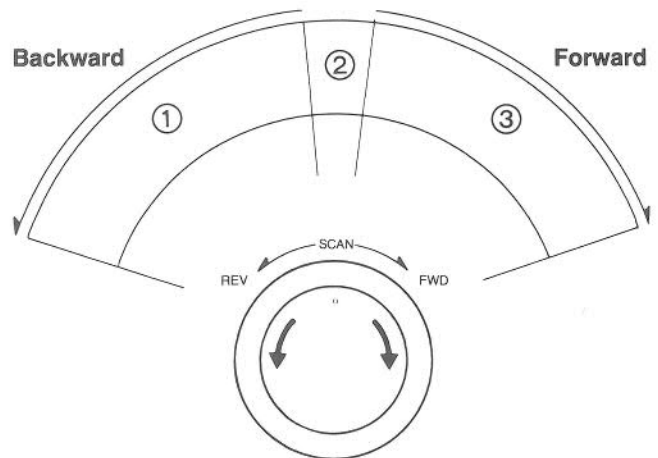
**Note:**

- During Forward (Backward) Playback no sound can be heard in the LD and video part of a CDV disc.
- On CDV discs, Forward (Backward) playback is not possible across the video part and audio part.

## Using the Shuttle Dial [LD] [CDV] [CD]

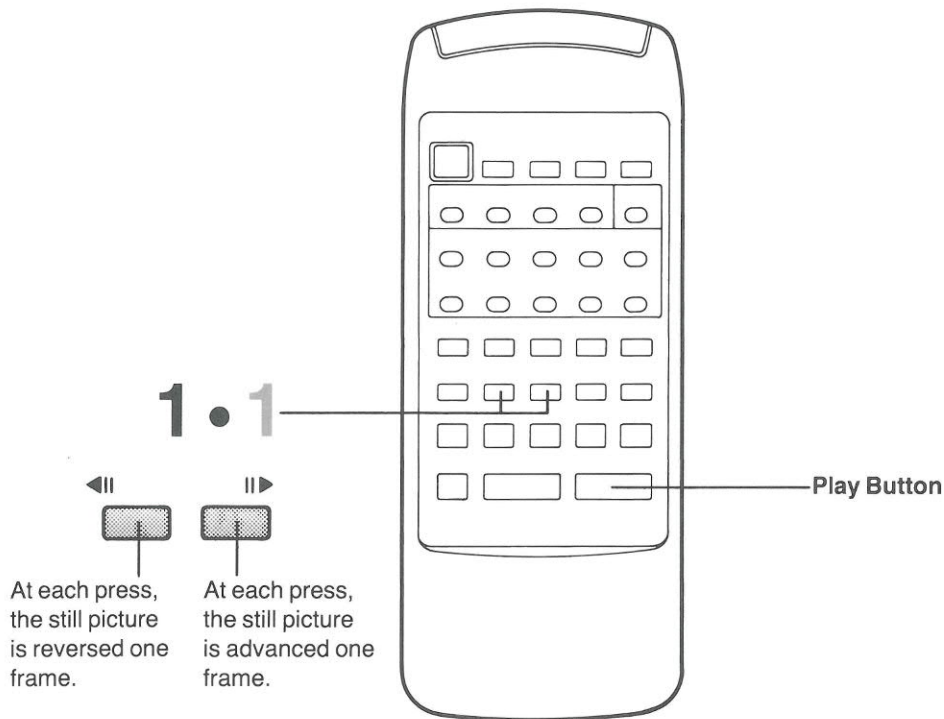
**1** Turn the Shuttle Dial.

- To activate Forward (Backward) playback, turn the Shuttle Dial as shown in the illustration.
- To return to the center "click" position, simply release the Shuttle Dial.
- When turning the Shuttle Dial from the pause condition and returning it to the center "click" position, normal playback will resume. However, in case of an LD (CAV) disc, when turning the Shuttle Dial from the Still Playback, it will switch back to still playback.



- ① Backward Playback
- ② Playback
- ③ Forward Playback

# Playback Functions (continued)



## Still Playback [LD (Only CAV)]

**1** Press the Still/Step Advance Button or the Still/Step Reverse Button while the Multi Laser Disc Player is in the normal playback mode.

- Either button can be pressed to reproduce a still picture.

To return to normal playback, press the Play Button.

### Disc with the Automatic Picture Stop Function

When playing back a disc on which a special "Picture Stop Code" signal is recorded, the unit will automatically switch over to still playback as soon as the frame marked with the stop code is reached. To return to normal playback, press the Play Button.

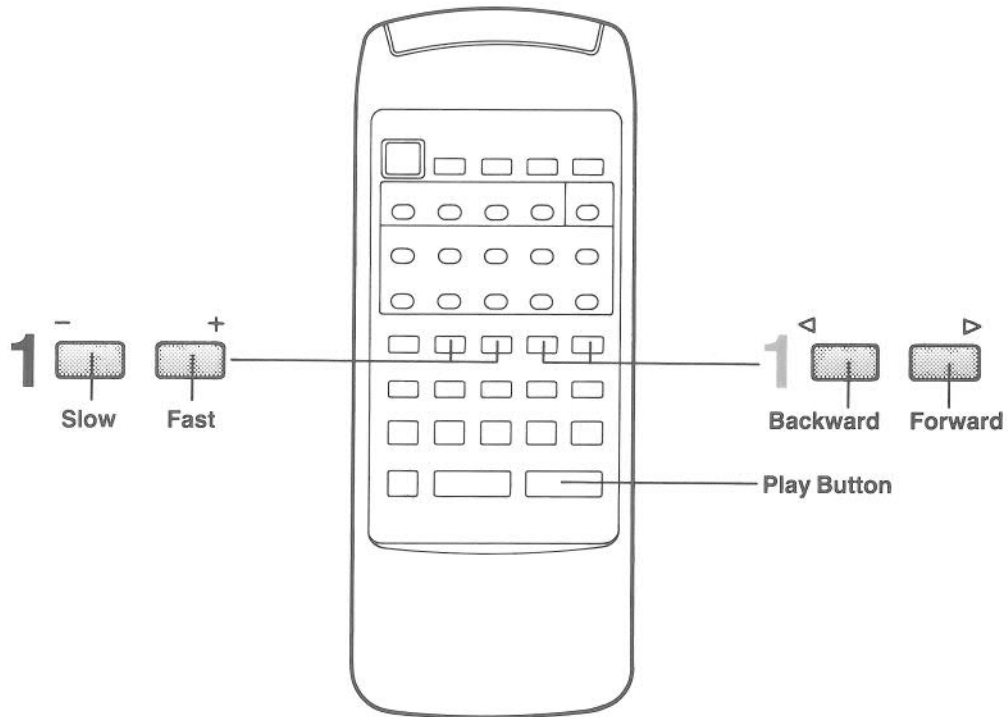
## Still Advance (Reverse) Playback [LD (Only CAV)]

**1** Press the Still/Step Advance Button or the Still/Step Reverse Button while the Multi Laser Disc Player is in the still playback mode.

- Each time you press either of these buttons, the still-picture will be advanced (or reversed) by one single frame.

To return to normal playback, press the Play Button.

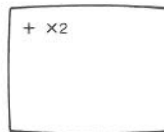
## MULTI SPEED PLAYBACK [LD (Only CAV)]



### To Change the playback speed

**1** Press either of the two Speed Selector Buttons (– Speed or Speed +) while the Multi Laser Disc Player is in the playback mode.

- Every press of either of these two buttons changes the playback speed as shown in the diagram.
- The audio is only heard in the normal forward playback mode.

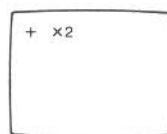


On-Screen Display Playback Speed	Description
×3	3 times normal playback speed
×2	2 times normal playback speed
×1	Normal playback speed
1/2	1/2 slow motion playback
1/4	1/4th slow motion playback
1/8	1/8th slow motion playback
1/16	1/16th slow motion playback
1/30	One single frame is played back for a second.
1/60	One single frame is played back for two seconds.
1/90	One single frame is played back for three seconds.

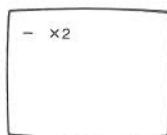
### To change the playback direction

**1** Press either of the Multi Speed Buttons (< Multi Speed or Multi Speed >).

- It is possible to change the playback speed in ten stages in both directions (forward and backward) by using the Speed Selector Buttons and the Multi Speed Buttons.
- The audio is only heard in the normal playback mode in forward direction.



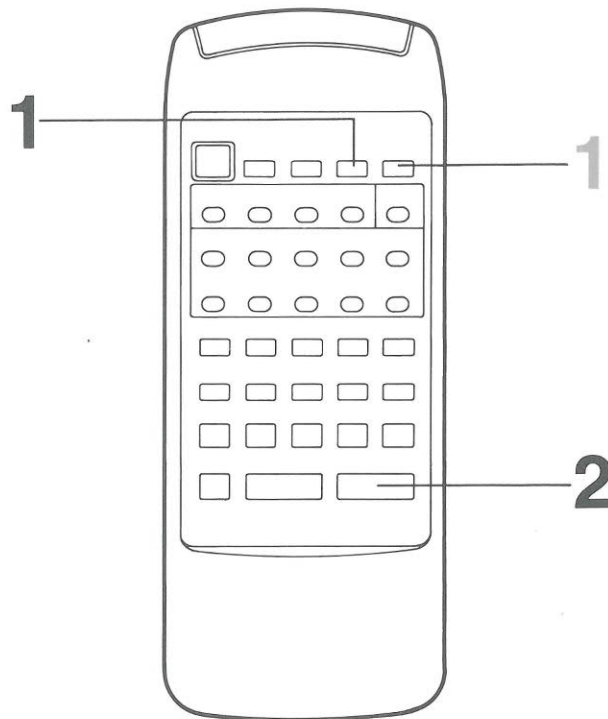
**Forward**



**Backward**

To return to normal playback, press the Play Button.

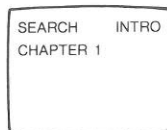
# Playback Functions (continued)



## Intro Scan Playback [LD] [CD]

The beginning of each chapter/track (tune) will be played back in succession for approx. 10 seconds each.

- 1 In the Stop mode:**  
**Press the Intro Scan Button.**
  - Intro Scan will start.



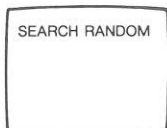
- 2 When the desired frame (the desired tune) is reached:**  
**Press the Play Button.**
  - Normal playback will start.

### Note:

- When pressing the Scan Buttons, Multi Speed Button, Random Button, A–B Repeat Button or Repeat Button during Intro Scan Playback, the Intro Scan mode will be cancelled.
- With an LD disc, after scanning all chapters on the disc, the part shortly before the end of the disc will be played back, and the unit will then return to the beginning of the disc and switch over to normal playback.
- In case of an LD (CLV) disc on which the seconds are not recorded, the playing time is not fixed.
- With a disc that has no chapter numbers, the beginning of the disc will be played back for approx. 10 seconds, and the Multi Laser Disc Player will then return to the beginning of the disc and switch over to normal playback.
- With a CD disc, after scanning all tracks (tunes) on the disc, the unit will return to the beginning of the disc and switch over to normal playback.

## Random Playback [CDV] [CD]

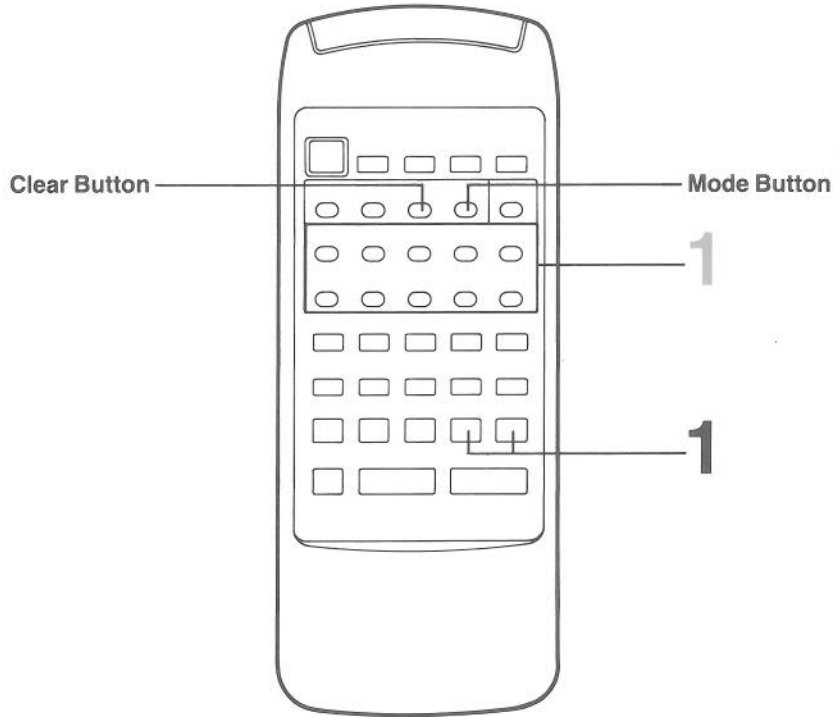
- 1 Press the Random Button while the Multi Laser Disc Player is in the normal playback mode or the stop mode.**



- The Multi Laser Disc Player automatically performs random playback. After all tracks or programs have been played back, it will go to the stop mode.

To return to normal playback, press the Random Button again.

# Searching For Desired Scenes



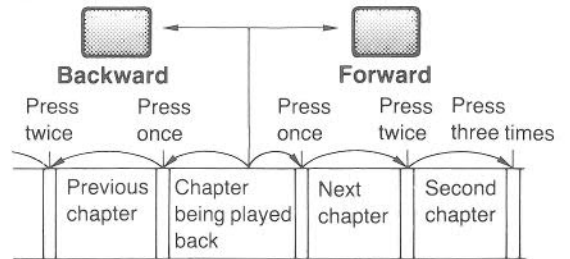
## Chapter Skip [LD]

- 1 Press the Skip Button during playback.**
  - It is also possible to directly access the desired chapter by repeatedly pressing the Skip Button as many times as the number of chapters are present.

**Note:**

This function does not work with discs without chapter numbers recorded. When pressing the Skip Button more than the number of chapters remaining, playback will start a little before the end of the last chapter in the disc.

### Chapter Skip Function



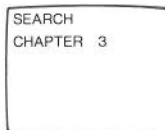
**Playback direction**

- Pay attention to the number of times you press the Skip Button because the present chapter is included in the count of chapters skipped in the backward direction.

## Chapter Search Function [LD]

**Example:** To access the beginning of chapter number 3:

- 1 Press the Numeric Button "3".**
  - The program in chapter 3 will be played back.
  - If the on-screen display is not as shown on the right, press the Mode Button until "CHAPTER" appears, and enter the desired chapter number.
  - If you want to access another chapter during playback, but you pressed a wrong number, simply enter the correct chapter number.



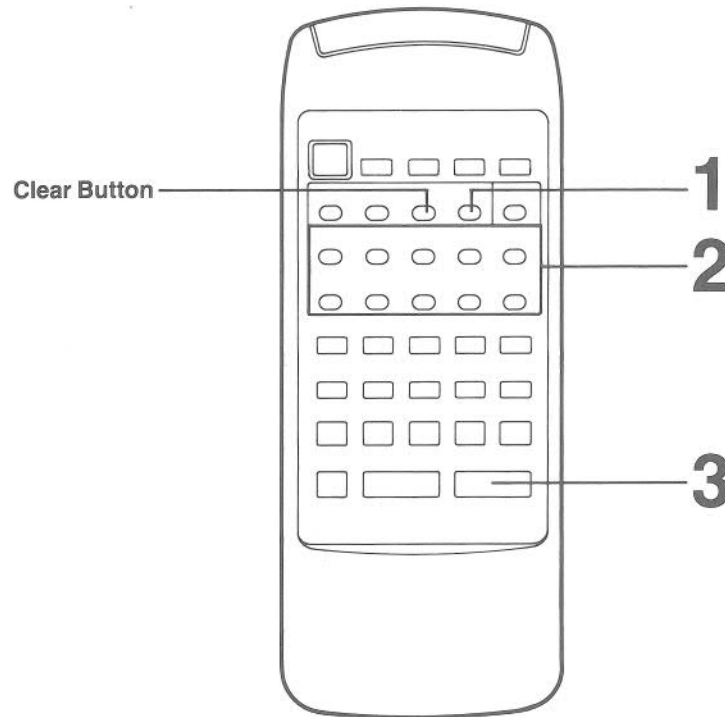
**To access a chapter with a 2-digit number:** Use the "+10" Button for the first digit (tens), and the corresponding Numeric Button for the second digit.

- Example:** To access the chapter 14:  
 "+10" → "4"  
 To access the chapter 20:  
 "+10" → "+10" → "0".

**Note:**

- This function does not work with discs without chapter numbers recorded.
- If a higher chapter number is selected than the total number of chapters recorded on the disc, playback will start a little before the end of the last chapter.
- If no chapter number is entered after making the display "CHAPTER" appear, the indication can be cancelled by pressing the Clear Button.

# Searching For Desired Scenes (continued)

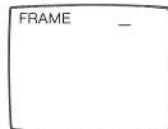


## Frame Search Function [LD (Only CAV)]

**Example:** To play back from frame number 15000:

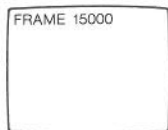
### 1 Press the Mode Button during playback.

- Press until the display "FRAME" appears on the TV screen.
- This operation is not necessary for discs on which no chapters are recorded.



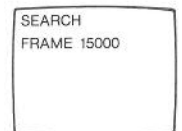
### 2 Press the Numeric Buttons "1" → "5" → "0" → "0" → "0".

- If you pressed a wrong number, press the Clear Button to clear the number and then press the correct Numeric Buttons.



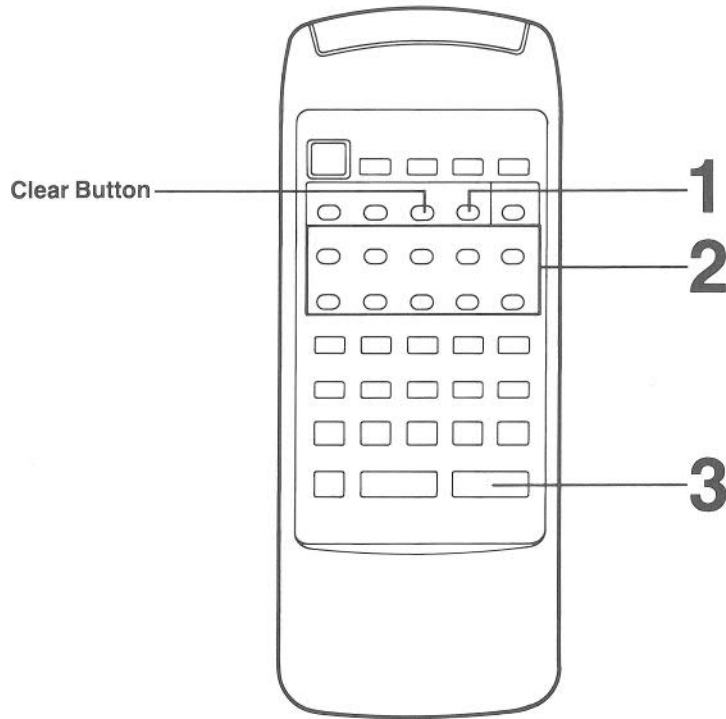
### 3 Press the Play Button.

- Playback will start from the specified frame.
- When using Frame Search from the still playback mode, a still picture will be played back when the specified frame is reached.



#### Note:

- If a frame number higher than highest recorded frame number is specified, playback will start a little before the end of the disc.



## Time Search Function [LD (Only CLV)]

**Example:** To play back starting 15 minutes from the beginning of the disc:

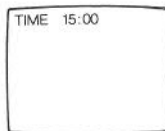
### 1 Press the Mode Button during playback.

- Press until the indication "TIME" appears on the TV screen.
- This operation is not necessary for discs on which no chapters are recorded.



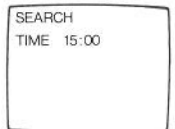
### 2 Press the Numeric Buttons "1" → "5" → "0" → "0".

- If you pressed a wrong number, press the Clear Button to clear the number and then press the correct Numeric Buttons again.



### 3 Press the Play Button.

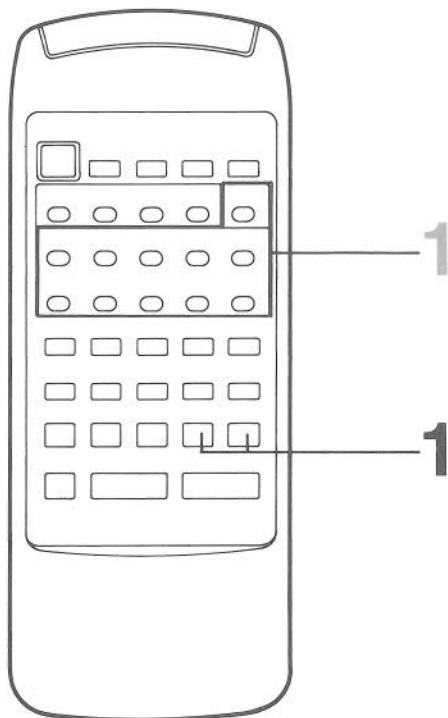
- Playback will start from the specified time number.



#### Note:

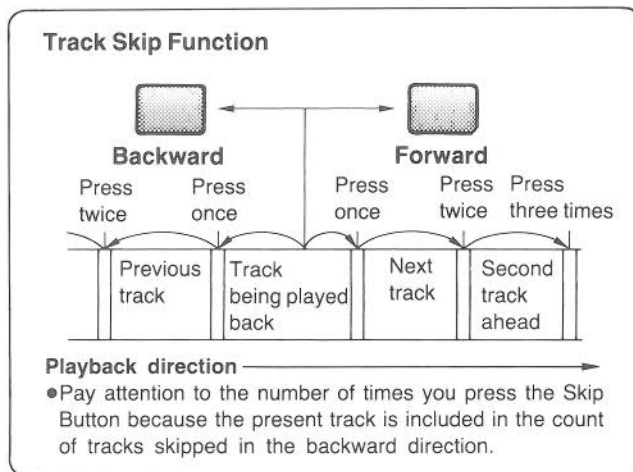
- In case of discs on which the time is only recorded in minutes, playback starts from the beginning of the specified minute even if the seconds were specified.
- When a time number higher than the total playback time is entered, playback will start a little before the end of the disc.

# Searching For Desired Sound



## Track Skip [CDV] [CD]

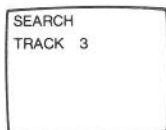
- 1 Press the Skip Button during playback.**
- The Track Skip function can also be operated with the Skip Button on the Multi Laser Disc Player.
  - It is also possible to directly access a track by pressing and holding the Skip Button until the desired track has been located.



## Track Search Function [CDV] [CD]

**Example:** To access track number "3"

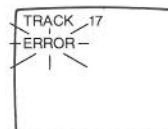
- 1 Press the Numeric Button "3".**
- Track Number 3 will be played back.
  - If you want to access another track during playback, but you pressed a wrong number, simply enter correct number.



**To access a track with a 2-digit number:**  
 Use the "+10" Button for the first digit (tens), and the corresponding Numeric Button for the second digit.

**Example:** To access track number "14":  
 "+10" → "4"  
 To access track number "20":  
 "+10" → "+10" → "0"

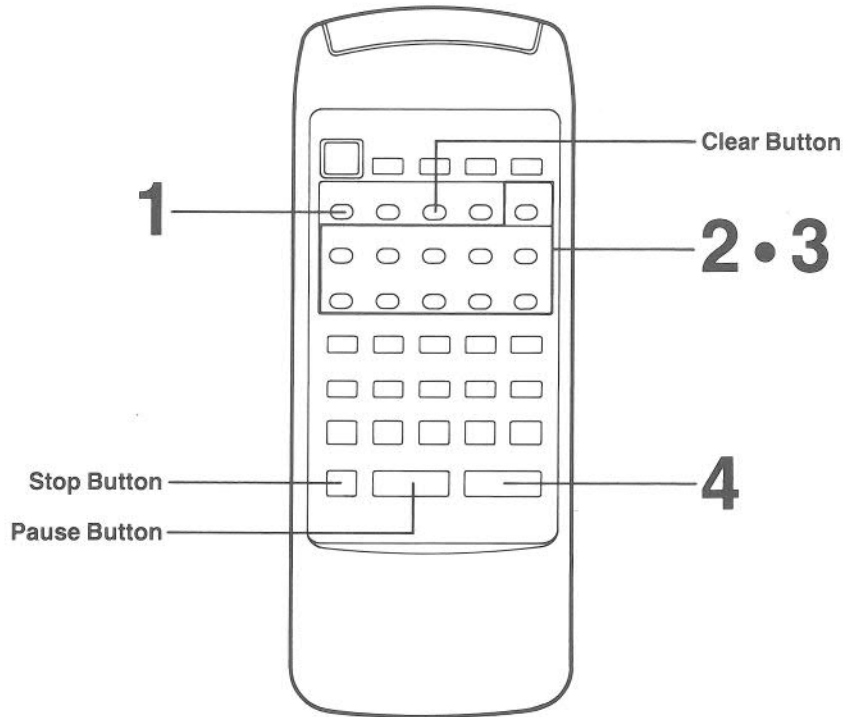
**Note:**  
 When an unrecorded track number is specified while the Disc Tray is open, the indication "ERROR" on the TV screen will flash and this unit will switch over to the stop mode.  
 In this case, press the Open/Close (Play) Button to open the Disc Tray, confirm the numbers of the recorded tracks and then press the correct numeric button(s) for the desired track.





# Program Playback

Playback is performed in the user-specified order, regardless of the order in which the chapters or tracks are recorded on the disc. The programming is done by chapters or tracks.



## Normal program playback [LD] [CDV] [CD]

**Example:** To play back an LD in the order of chapter "3" → "1" → "4".

**1 Press the Program Button during playback or in the stop mode.**

The TV screen will change over to the program mode. Program Number "1" will be displayed in the Multi-Function Display.



**2 Press the Numeric Button "3".** Chapter Number "3" will be displayed on-screen.

• If you pressed a wrong number, press the Clear Button and then enter the correct Numeric Button.



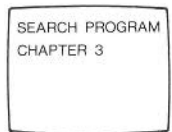
**3 Press the Numeric Buttons "1" and then "4".**

• Up to 20 chapters can be programmed in sequence.



**4 Press the Play Button.**

- Program Playback starts.
- After all programmed chapters or tracks have been played back, the unit will go in the stop mode, and the TV screen will change over to the program mode again.



To stop the Program Playback halfway, press the Stop Button.

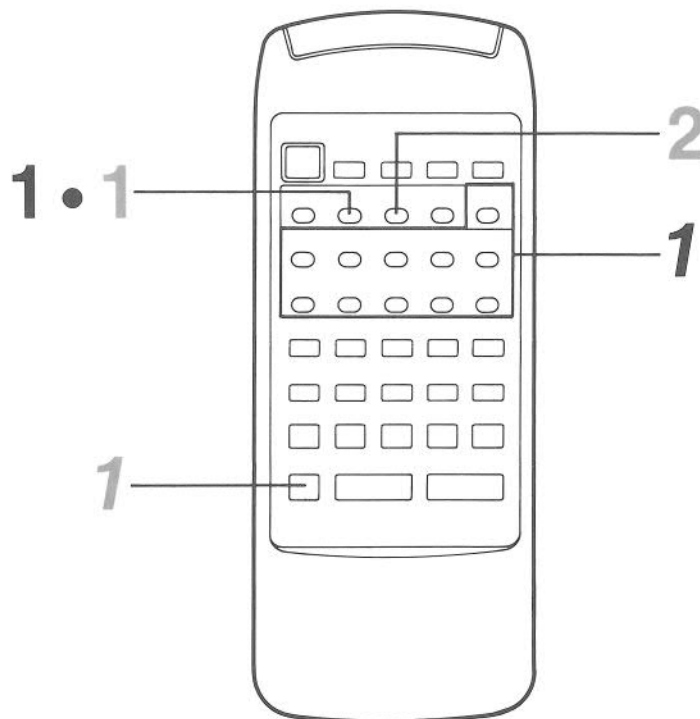
To start the Program Playback again, press the Play Button in the stop mode.

To return to the normal playback mode, press the Program Button during the Program Playback.

**Note:**

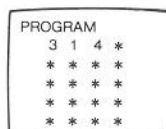
- When programming more than 20 chapters or tracks, the indication "- F" in the Multi-Function Display and the indication "FULL" on the TV screen will flash, no further chapters or tracks will be accepted.
- In case of LD discs, chapter numbers that are not recorded on the disc can also be programmed. However, they will be skipped when the disc is played back.
- Program Playback is not possible with LD discs on which no chapter numbers are recorded.
- To pause at the beginning of the programmed sequence of chapters or tracks before the playback starts, press the Pause Button immediately after pressing the Play Button.

# Program Playback (continued)



## To confirm the chapters or tracks selected for Program Playback

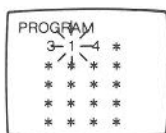
- 1 Press the Recall Button.



## To cancel the chapters or tracks selected for Program Playback

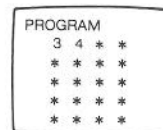
(It is possible to cancel them individually.)

- 1 Press the Recall Button, until the number of the chapter or track to be deleted flashes.



- 2 Press the Clear Button.

•The selected chapter or tracks is cancelled.



### Note:

The chapter or track now being played back cannot be cancelled.

## To add chapters or tracks for Program Playback

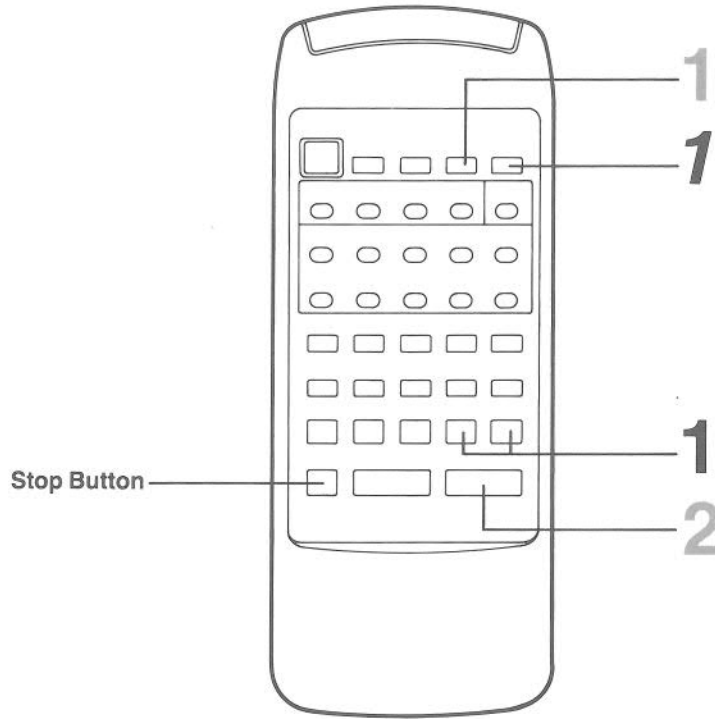
(It is possible to add new chapters or tracks to be played back.)

- 1 Press the Numeric Button.

## To cancel Program Playback

- 1 Press the Stop Button with the unit already in the stop mode.

•Program Playback can also be cancelled by turning off the unit or opening the Disc Tray.



### Program Skip [LD] [CDV] [CD]

To skip during an undesired chapter or track during Program Playback:

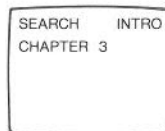
**1** Press the Skip Button.

- Pay attention to the number of times you press the Skip Button because the currently played-back chapter or track is included in the count for the skip in the backward direction.

### Program Intro Scan [LD] [CD]

The beginning of each programmed chapter/track (tune) will be played back in the programmed order for approx. 10 seconds each.

**1** With this unit in the stop mode, perform the programming steps (1–4) on page 29, and then press the Intro Scan Button.



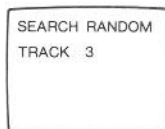
**2** When the desired scene (tune) is reached, press the Play Button.

- Normal program playback will start.

### Program Random Playback [CDV] [CD]

To perform automatic playback in random sequence of the tracks selected for Program Playback:

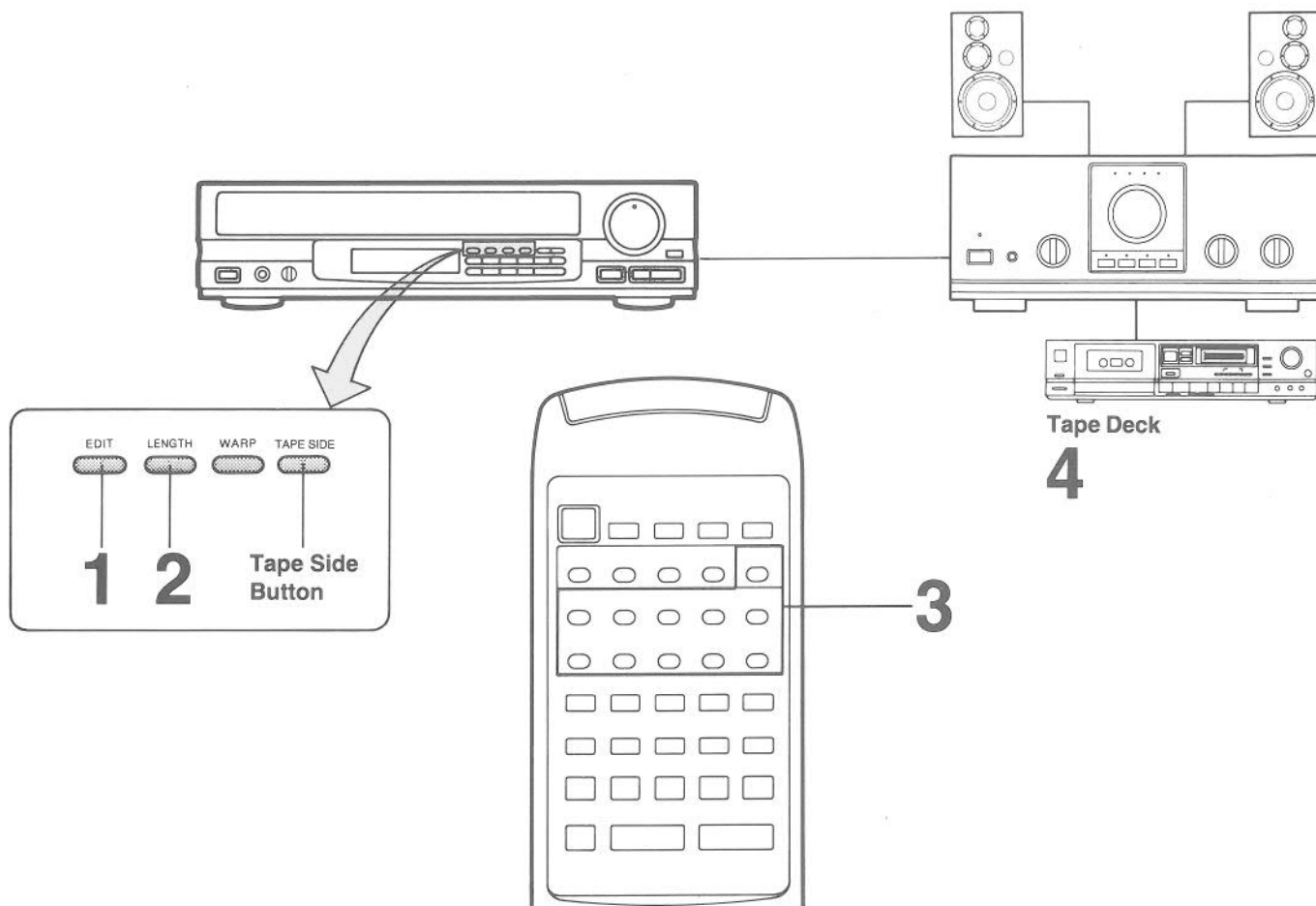
**1** After selecting the desired tracks for Program Playback, press the Random Button.



- After all tracks selected for Program Playback have been played back in random order, the unit will go into the stop mode.

To stop Program Random Playback, press the Stop Button.





## Edit Playback onto Cassette Tapes with other Recording Times [CD]

Specifying the desired length of the tape for editing.

**Example:** Editing onto a 54-Minute Cassette Tape

- 1** Press the Edit Button.
- 2** Press the Length Button several times to select "C-0".  
 → C-46 → C-60 → C-90 → **C-0**
- 3** Press the Numeric Buttons in the following sequence:  
 "+10" → "+10" → "+10" → "+10" → "+10" → "4"

- It is possible to specify a recording time of up to 99 minutes.
- If you press a wrong Numeric Button, first press the Tape Length Button again to select "C-0", and then input the correct tape time with the Numeric Buttons.

After the desired tape time has been specified, this unit automatically calculates and divides tunes to be recorded into A side and B side of the tape.

- 4** Use a cassette tape with the specified tape time and put the tape deck in the recording mode.
- 5** Perform operation steps 3 to 5 described on the left page for Edit Playback.

**Note:**  
Depending on the length of the tape, it may not be possible to edit all tunes recorded on a disc.

To confirm the remaining recording time on side B of a cassette tape.

Number of tunes to be recorded on side B	Remaining recording time on side B
8 No. 4	2:16

EDT, 1 2 3 4 5 6 7 8

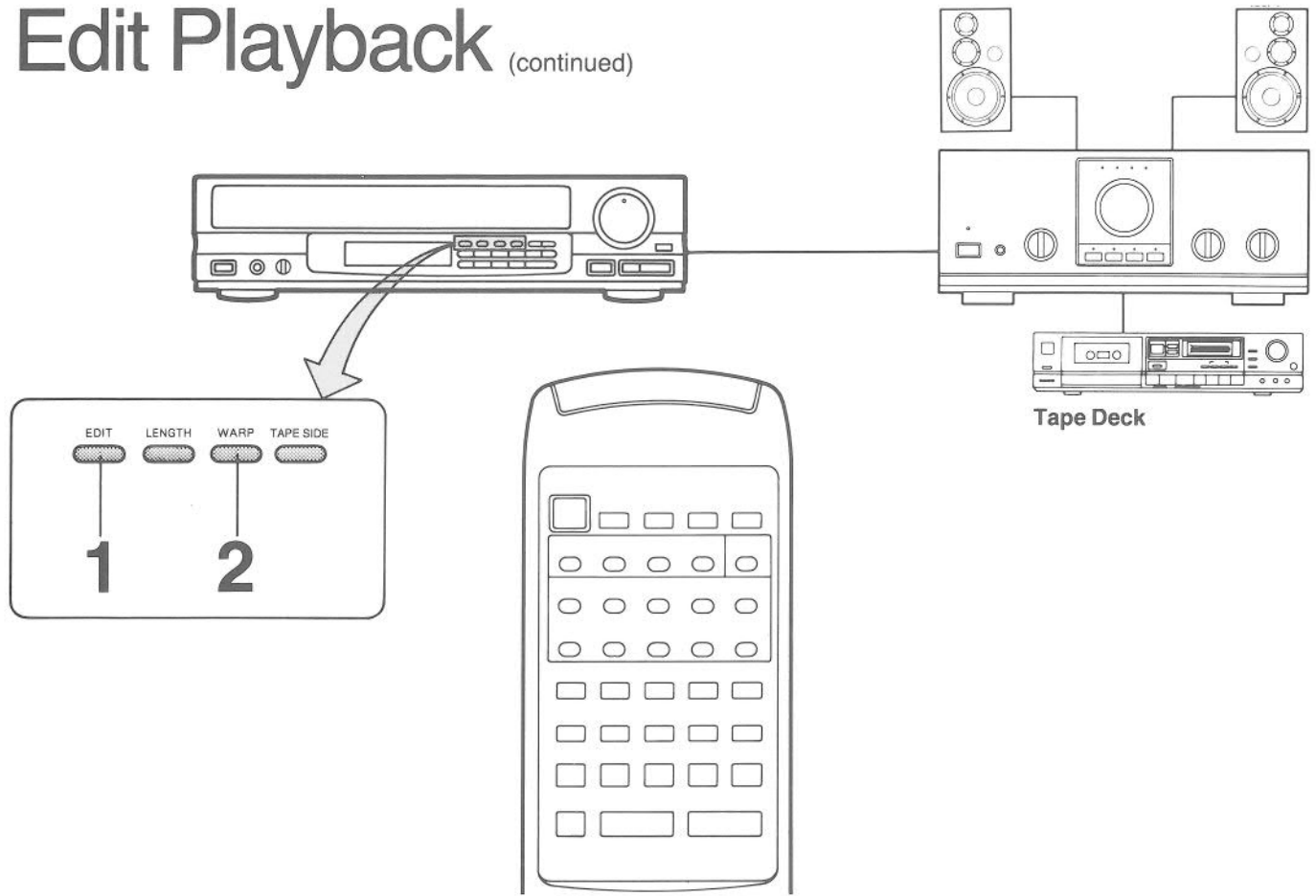
**Tape Side Indication**

- Press the Tape Side Button while it is in the stop mode. This displays the remaining time on side A and side B which can be confirmed.

**Notes:**

- During editing, all operation buttons except the Open/Close (Play) Button, Stop Button, On-Screen Indication Button, Time Mode Button, Volume Level Indication Button and Recall Button are non-operational.
- When half of the specified tape time (23 minutes in case of a 46-minute tape) is shorter than the first tune on the disc, that tune will not be included in the editing calculation. In this case, specify and use a longer tape.

# Edit Playback (continued)



## Warp Function (Filling up Side A of the Tape) [CD]

The "Warp" function makes it possible to exchange the last tune destined for side A of the cassette tape with a longer one from side B, or to add a tune from side B to the end of side A, to shorten the blank, unrecorded part at the end of side A.

### 1 Press the Edit Button.

- This unit automatically determines the necessary tape time (46, 60 or 90 minutes) according to the total length of all programmed tunes, and it divides the tunes for recording onto side A and side B in the programmed order.

### 2 Press the Warp Button.

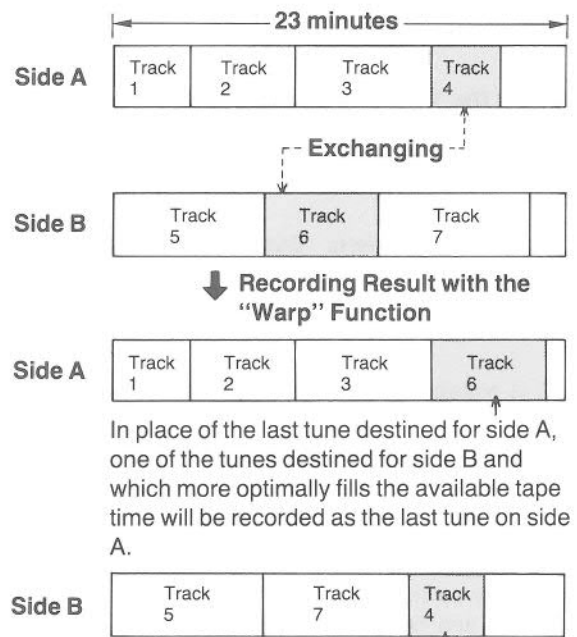
- This unit automatically selects a tune from side B that fits into the remaining tape time on side A, thus changing the order of recording the tunes.

### 3 Perform the operation steps 2 to 5 on page 32.

To use the Warp Function for "Edit Playback onto Cassette Tapes with Other Recording Times", as described on page 33, press the Warp Button after performing operation step 3 on page 33.

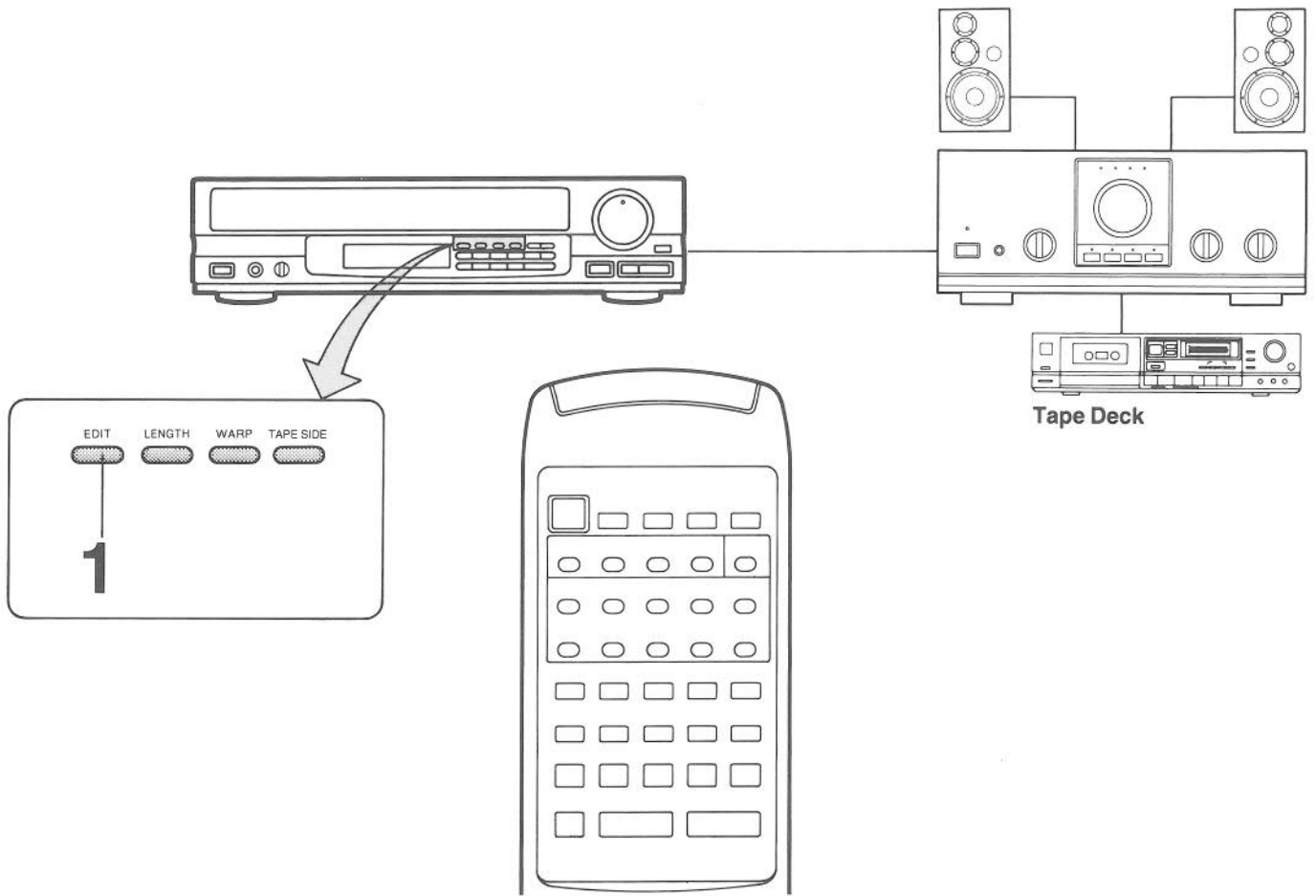
#### Function Principle of the Warp Function

Example: Using a 46-minute cassette tape



In place of the last tune destined for side A, one of the tunes destined for side B and which more optimally fills the available tape time will be recorded as the last tune on side A.

The tune that was replaced at the end of side A will automatically be recorded as the last tune on side B.



## Program Edit Playback [CD]

Editing tracks onto an audio cassette in the programmed order.

It is possible to edit up to 20 programs.

### 1 After performing the procedures for Program Playback (page 29), press the Edit Button.

- This unit automatically determines the necessary tape time (46, 60 or 90 minutes) according to the total length of all programmed tunes, and it divides the tunes for recording onto side A and side B in the programmed order.

### 2 Perform operations steps 2 to 5 on page 32.

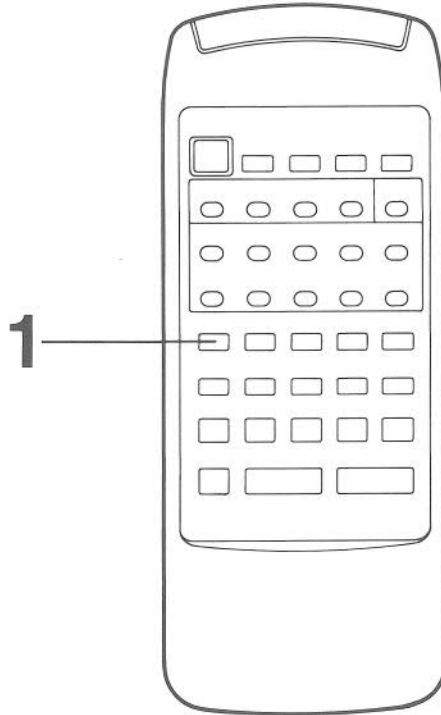
To specify another tape time, perform the operation steps 2 to 5 on page 33.

#### Note:

Depending on the length of the tape, it may not be possible to edit all programmed tunes.

# Repeat Playback

Six Repeat Playback functions are possible.



## Chapter/Track Repeat, Side Repeat

To repeatedly view the chapter being played back:  
Chapter Repeat [LD]

To repeatedly listen to the track being played back:  
Track Repeat [CDV] [CD]

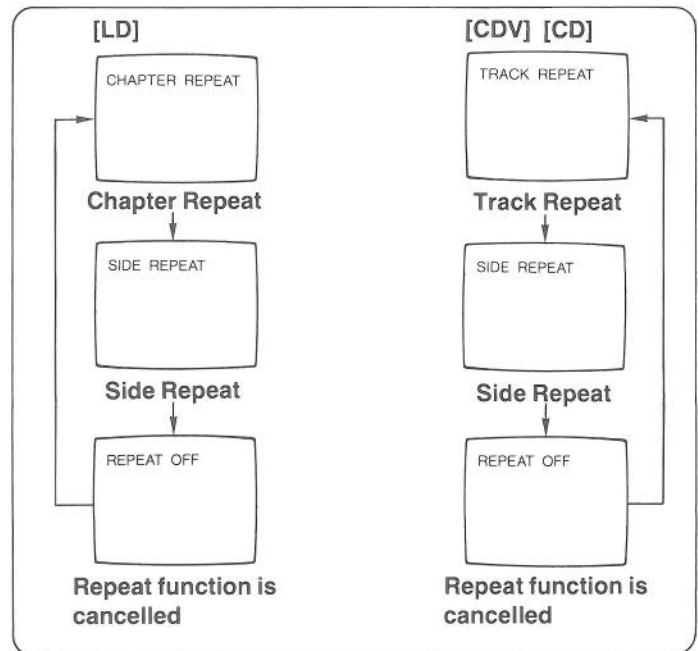
To repeat the whole side being played back:  
Side Repeat [LD] [CDV] [CD]

**1** Press the Repeat Button during playback to select the desired repeat playback mode.

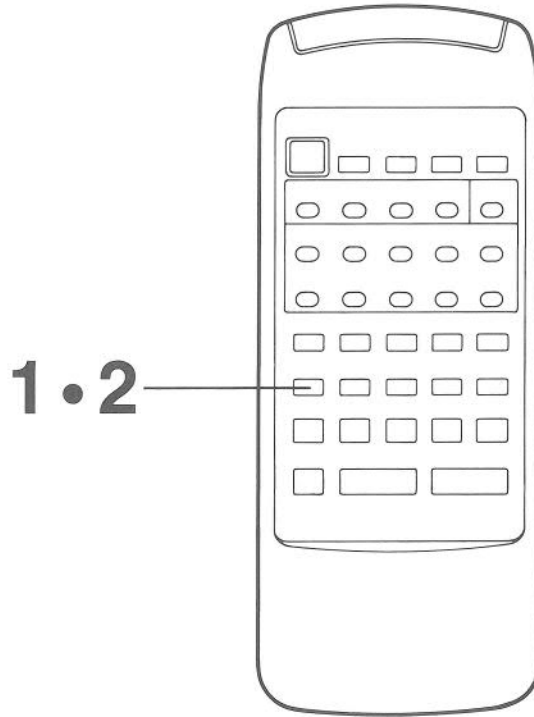
- Every time the Repeat Button is pressed the repeat playback mode display changes in the order indicated by the arrows in the illustration on the right.

### Note:

When playing back an LD disc on which no chapter numbers are recorded, pressing the Repeat Button once will cause Side Repeat playback to be performed. Chapter Repeat will not be possible.







1.2

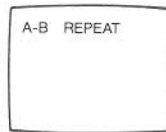
### A-B Repeat [LD] [CDV] [CD]

To repeat the playback between two specified points:

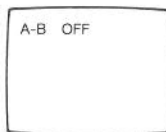
- 1** During playback, press the **A-B Repeat Button** at the point from where you want to perform Repeat Playback.
  - The repeat start point (A) is memorized.



- 2** Press the **A-B Repeat Button** again at the point to which you want to perform Repeat Playback.
  - The repeat end point (B) is memorized and the Repeat Playback between A and B starts.



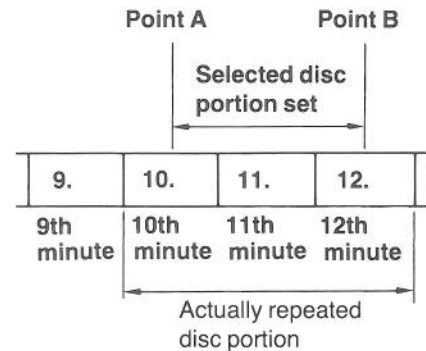
To cancel the **A-B Repeat Playback** Press the **A-B Repeat Button** so that the display "A-B OFF" appears.



**Note:**

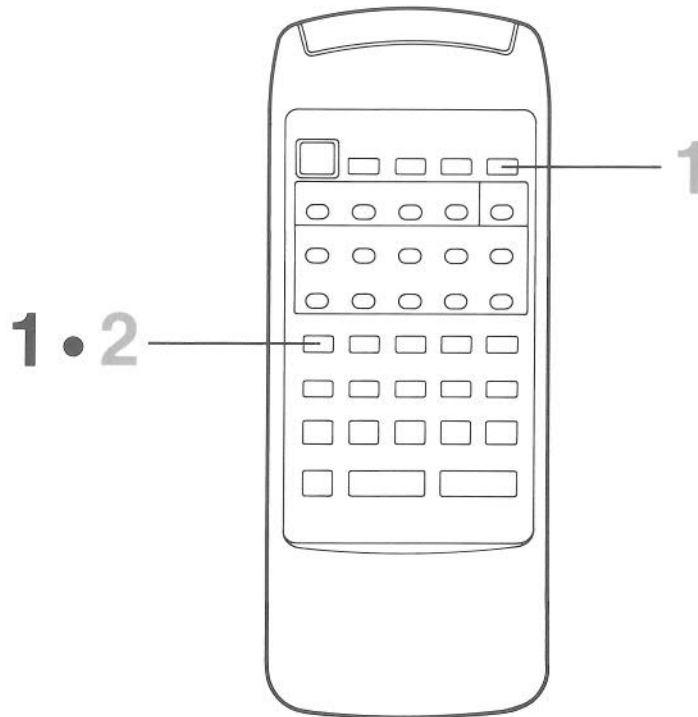
- On a CDV disc, A-B Repeat Playback across both video and audio parts is not possible.
- The Repeat Playback for long-play LD (CLV) discs is operated by the time number recorded on the disc. Therefore, on a disc on which time number is recorded in minutes only, the selected start and stop points of the A-B Repeat Playback may not exactly match the points where the A-B Repeat Button was pressed. However, this is not a malfunction.

**Example:**



- The A-B Repeat Playback is not possible during all "Random Playback" and "Program Playback".
- When the A-B Repeat Button is pressed two times during one of the Repeat Playback functions explained on page 36, that function will be cancelled and the unit will go into the A-B Repeat Mode.

# Repeat Playback (continued)



## Program Repeat [LD] [CDV] [CD]

To automatically repeat Program Playback:

**1** Press the Repeat Button during Program Playback

- Regarding the operation for Program Playback, refer to page 29 and subsequent pages.

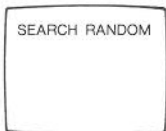


To cancel the Program Repeat function, press the Program Button.

## Random Repeat [CDV] [CD]

To automatically perform Repeat Playback in random sequence:

**1** Press the Random Button.



**2** Press the Repeat Button.

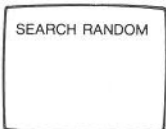


To cancel the Random Repeat function, press the Random Button again.

## Program Random Repeat [CDV] [CD]

To automatically repeat the playback in random sequence of the tracks selected for Program Playback: After selecting the desired tracks for Program Playback as described on page 29.

**1** Press the Random Button.



**2** Press the the Repeat Button.



To cancel the Random Repeat function, press the Program Button.

# Cautions For Use

Be sure to follow the items mentioned below for the safe and correct operation of this unit.

## **Avoid Sudden Changes in Temperature**

If the Multi Laser Disc Player is suddenly moved from a cold place to a warm place, moisture may form on the disc and inside the unit.

## **Condensation may form in the Multi Laser Disc Player if:**

- The unit is in a room where the heater has just been turned on.
- The unit is in a room with steam or high humidity.
- The unit is brought from cold surroundings into a well-heated room.
- The unit is suddenly brought from cool surroundings, such as an air-conditioned room or car, to a place which is hot and humid.

## **Note:**

- Do not operate the Multi Laser Disc Player for at least 1 hour if any of the above conditions occur. This unit does not incorporate a dew sensor.
- If dew has formed on the surface of a disc, carefully wipe it with a soft cloth.

## **If the Multi Laser Disc Player Is Placed Near the TV Set:**

The picture and sound may be adversely affected during the playback on this unit.

If this symptom occurs, place the unit farther away from the TV set.

## **Never place anything except the specified discs on the Disc Tray.**

## **Humidity and Dust**

Avoid places where there is high humidity or much dust, which may cause damage to internal parts.

## **Do Not Obstruct the Ventilation Holes**

The ventilation holes prevent abnormal increase in temperature. Do not block or cover these holes.

## **Keep away from High Temperature**

Keep the Multi Laser Disc Player away from extreme direct heat such as direct sunlight, heating radiators, or closed automobiles.

## **Keep Magnets away**

Never bring a magnet or magnetized object near the Multi Laser Disc Player because it will adversely affect the performance of the unit.

## **No Fingers or Other Objects Inside**

Touching internal parts of this Multi Laser Disc Player is dangerous, and may cause serious damage to the unit. Do not attempt to disassemble the unit. There are no user serviceable parts inside.

## **Keep Water away**

Keep the Multi Laser Disc Player away from flower vases, tubs, sinks, etc.

CAUTION: If liquids are spilled into the unit, serious damage could occur. If you spill any liquid into the unit, consult qualified service personnel.

## **Lightning**

To avoid damage by lightning, disconnect the AC plug from the Multi Laser Disc Player or wall outlet.

## **Cleaning the Multi Laser Disc Player**

Wipe the unit with a clean, dry cloth. Never use cleaning fluid, or other chemicals. And do not use compressed air to remove dust.

## **Stacking**

Place the Multi Laser Disc Player in a horizontal position, and do not place anything heavy on it.

- The rear panel of this unit may become a little hot. However, this is normal and not due to any malfunction.

## **Do not expose the Multi Laser Disc Player when carrying it.**

## **When the unit is not used for a long period of time.**

Be sure to remove the disc and turn the unit off.

Be sure to unplug the AC cord.

# Cautions For Using Discs

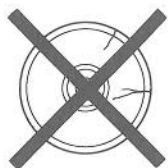
## Do not use damaged or warped discs

- The disc rotates at high speed in the player. Do not use a damaged disc. It could cause a defect and malfunction of the unit.
- If the disc is scraping against the Disc Tray after it starts playing (strange noise or vibration occurs), press the Stop Button or the Open/Close Button immediately to stop the disc rotation.
- Do not use the stabilizer for CDs.

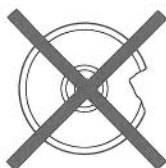
The discs rotate at very high speed.

Therefore, trying to play back defective discs such as cracked or warped discs, as well as discs that are not correctly placed in the proper recess on the Disc Tray, is very dangerous.

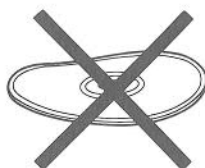
- Never use any discs that are cracked, chipped, warped or repaired with glue or adhesive tape.



Cracked

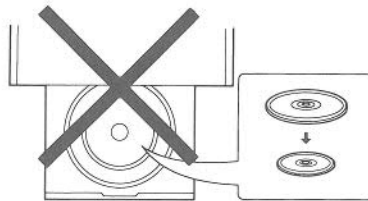


Chipped

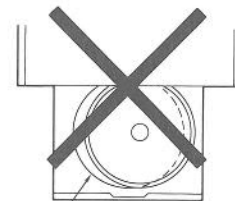


Warped

- Place only a single disc in the proper recess on the Disc Tray according to its size and make sure it lies completely flat. Never place two or more discs on the tray and never attempt playback with a disc improperly installed in its disc tray.



Two discs are inserted at the same time.



Recess

The disc improperly installed in its disc tray.

- If unusual vibration or noise occurs during playback of a disc, press the Stop Button or the Open/Close Button. Check whether the disc is properly placed and not damaged, before trying to play it back again.

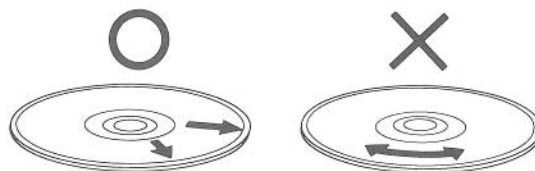
## Cautions for storage

- Always remove the disc after use from the Multi Laser Disc player and store it in the case vertically. Inclining or stacking the discs may cause them to bend.

- Do not store discs in places exposed to direct sunlight, high temperatures and high humidity.
- Do not attach any labels to the discs. Be careful not to damage the discs.

## Cleaning

- Wipe off the dust, dirt and fingerprints on the disc with a soft, dry, lint-free cloth.
- If the surface is extremely dirty, use a soft, clean cloth moistened with water. Then wipe dry with a soft dry cloth.
- When wiping the disc, always move the cloth directly outward from the center of the disc.  
(Circular scratches are more likely to cause errors than straight scratches from center to outer circumference of the disc.)



- Do not use benzine, thinner or record sprays.
- Do not use static electricity prevention liquids or sprays.

# Before Requesting Service

Before requesting service, check the following points again:

SYMPTOM	CAUSE	REMEDY
Power does not turn on.	The AC Power Cable is unplugged.	Plug in the AC Power Cable.
The Disc Tray does not come out.	The power is not turned on.	Turn on the power.
Playback does not start. Playback stops soon after starting playback.	Condensation has formed in the Player.	Wait until condensation has dissolved.
	Disc is not inserted correctly.	Insert the disc correctly.
	Unrecorded side of the disc is being played back.	Play back the correct side of the disc.
	Disc is extremely dirty.	Wipe the disc with a soft, clean cloth.
No playback picture appears. Playback picture is not clear.	The Player is not connected correctly.	Connect the Player correctly.
	Condensation has formed.	Wait until condensation has dissolved.
	Disc is flawed or dirty.	Wipe the disc with a soft, clean cloth.
	Speakers are placed too close to the TV set.	Place speakers farther away from the TV set.
Still Playback, Still Advance (Reverse) Playback and Multi Speed Playback cannot be performed.	CLV disc or CDV disc (video part) is being played back.	These special playback functions cannot be used with CLV and CDV discs.
No sound is reproduced. Sound can hardly be heard.	Input selector on TV set (or monitor) or on stereo set (amplifier, AV selector etc.) is set incorrectly.	Set input selector correctly.
	Connection between player and stereo set is not correct.	Connect Player correctly.
	Sound level on TV set (or monitor) or on stereo set is adjusted too low.	Adjust sound level correctly.
	Pause playback, Still Playback, Still Advance (Reverse) Playback are being performed.	During Pause, Still Playback and Still Advance (Reverse) Playback no sound is reproduced.
	Multi Speed Playback is being performed.	Sound is reproduced only during playback in forward direction.
	Disc is flawed or dirty.	Wipe disc with a soft, clean cloth.
	Condensation has formed inside Player.	Wait until condensation has dissolved.
	Remote Control does not work.	Remote Control Transmitter is not being pointed at the Infra-red Receiver Window on the Player.
Distance is too large (more than 7 m (23 FT) from the Player).		Operate within a distance of 7 m (23 FT) from the Player).
An obstacle is between the Remote Control Transmitter and the Player.		Remove the obstacle.
Batteries are exhausted.		Replace with new batteries.
Battery polarities (+, -) are reversed.		Insert the batteries correctly.

# Possible Functions For The Different Discs

- Function performed
- \* Possible only for discs with recorded chapter numbers
- Does not apply

Possible Functions	Disc Type					Page
	LD		CDV		CD	
	Standard Disc (CAV)	Long Play Disc (CLV)	Video+ Audio Section	Audio Section		
Normal Playback	●	●	●	●	●	14
Restarting playback from stopped position	●	●	—	—	—	14
Restarting playback from desired position	●	●	●	●	●	15
Forward (Backward) playback	●	●	●	●	●	21
Still Playback	●	—	—	—	—	22
Still Advance and Still Reverse Playback	●	—	—	—	—	22
Change of Playback Speed and Direction	●	—	—	—	—	23
Playback of the beginning of each chapter (track) for approx. 10 seconds	●	●	—	—	●	24
Automatic Playback in Random Sequence	—	—	●	●	●	24
Skipping one by one to desired chapter	*	*	—	—	—	25
Direct access to desired chapter	*	*	—	—	—	25
Direct Access to Desired Frame	●	—	—	—	—	26
Direct Access by Playback Time to Desired Scene	—	●	—	—	—	27
Skipping to Desired Tune	—	—	●	●	●	28
Direct Access to Desired Tune	—	—	●	●	●	28
Playback in Programmed Order	*	*	●	●	●	29
Skipping to the next programmed chapter/track during program playback	*	*	●	●	●	31
Playback of each programmed chapter/track for approx. 10 seconds	●	●	—	—	●	31
Automatic Playback of Programmed Tracks at Random	—	—	●	●	●	31
Editing tracks onto 46, 60 or 90 minute cassette tapes	—	—	—	—	●	32
Editing tracks onto cassette tapes with other recording times	—	—	—	—	●	33
Editing in programmed order	—	—	—	—	●	35
Repeat playback of current chapter/track	*	*	●	●	●	36
Repeat Playback of the Whole Side Being Played Back	●	●	●	●	●	36
Repeat playback between two specified points	●	●	●	●	●	37
Repeat Playback in Programmed Order	*	*	●	●	●	38
Automatic Repeat at Random	—	—	●	●	●	38
Repeat Playback of Programmed Tracks at Random	—	—	●	●	●	38

# Specifications

Information for Your Safety

<b>Power Source:</b>	AC 110 V, 127 V, 220 V, 240 V, 50–60 Hz																							
<b>Power Consumption:</b>	32 W																							
<b>Television System:</b>	NTSC																							
<b>Format:</b>	Laser Vision Video Disc System, Compact Disc with Video and Compact Disc, Digital Audio System																							
<b>Weight:</b>	17.82 lbs (8.1 kg)																							
<b>Dimensions:</b>	16 <sup>15</sup> / <sub>16</sub> " (W) × 47 <sup>1</sup> / <sub>16</sub> " (H) × 15 <sup>3</sup> / <sub>4</sub> " (D) [430 (W) × 113 (H) × 400 (D) mm] (Not including protruding parts)																							
<b>Operating Temperature:</b>	+5~+35°C																							
<b>Operating Humidity:</b>	5~90% (There should be no condensation)																							
<b>Usable Discs:</b>	<table border="0"> <tr> <td>(1) Laser Vision Disc</td> <td></td> </tr> <tr> <td>    12" (30 cm) Long Play Disc (CLV)</td> <td>1800~600 rpm 2-hour playback (max.) for both sides</td> </tr> <tr> <td>    12" (30 cm) Standard Disc (CAV)</td> <td>1800 rpm 1-hour playback (max.) for both sides</td> </tr> <tr> <td>    8" (20 cm) Long Play Disc (CLV)</td> <td>40-minute playback (max.) for both sides/20-minute playback (max.) for single side</td> </tr> <tr> <td>    8" (20 cm) Standard Disc (CAV)</td> <td>28-minute playback (max.) for both sides/14-minute playback (max.) for single side</td> </tr> <tr> <td>(2) Compact Disc</td> <td></td> </tr> <tr> <td>    5" (12 cm) Disc</td> <td>500~200 rpm 74-minute playback (max.) for single side</td> </tr> <tr> <td>    3" (8 cm) Disc</td> <td>500~300 rpm 20-minute playback (max.) for single side</td> </tr> <tr> <td>(3) Compact Disc with Video</td> <td></td> </tr> <tr> <td>    Video Section</td> <td>2700~1800 rpm 5-minute playback (max.) for single side</td> </tr> <tr> <td>    Audio Section</td> <td>500~300 rpm 20-minute playback (max.) for single side</td> </tr> </table>		(1) Laser Vision Disc		12" (30 cm) Long Play Disc (CLV)	1800~600 rpm 2-hour playback (max.) for both sides	12" (30 cm) Standard Disc (CAV)	1800 rpm 1-hour playback (max.) for both sides	8" (20 cm) Long Play Disc (CLV)	40-minute playback (max.) for both sides/20-minute playback (max.) for single side	8" (20 cm) Standard Disc (CAV)	28-minute playback (max.) for both sides/14-minute playback (max.) for single side	(2) Compact Disc		5" (12 cm) Disc	500~200 rpm 74-minute playback (max.) for single side	3" (8 cm) Disc	500~300 rpm 20-minute playback (max.) for single side	(3) Compact Disc with Video		Video Section	2700~1800 rpm 5-minute playback (max.) for single side	Audio Section	500~300 rpm 20-minute playback (max.) for single side
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Video Section	2700~1800 rpm 5-minute playback (max.) for single side																							
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<b>Video Signal Output Level:</b>	1 Vp-p (at 75 ohm, synchronizing load)																							
<b>S-Video Output Level:</b> (Y/C Separate Signal Output)	Y Output/1 Vp-p (at 75 ohm, synchronizing load) C Output/0.286 Vp-p (at 75 ohm)																							
<b>Audio Signal Output Level:</b>	(1) Digital Audio Output Level 200 m Vrms (1 kHz, -20 dB) (2) Analog Audio Output Level 200m Vrms (1 kHz, Modulated 40%)																							
<b>Digital Audio Signal Output Characteristic:</b>	<table border="0"> <tr> <td>(1) Frequency Response;</td> <td>4 Hz~20 kHz (EIAJ)</td> </tr> <tr> <td>(2) S/N Ratio;</td> <td>101 dB (EIAJ)</td> </tr> <tr> <td>(3) Dynamic Range;</td> <td>94 dB (EIAJ)</td> </tr> <tr> <td>(4) Wow and Flutter;</td> <td>Below measurable limit</td> </tr> <tr> <td>(5) Total Harmonic Distortion;</td> <td>0.006% (EIAJ) (1 kHz)</td> </tr> </table>		(1) Frequency Response;	4 Hz~20 kHz (EIAJ)	(2) S/N Ratio;	101 dB (EIAJ)	(3) Dynamic Range;	94 dB (EIAJ)	(4) Wow and Flutter;	Below measurable limit	(5) Total Harmonic Distortion;	0.006% (EIAJ) (1 kHz)												
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(4) Wow and Flutter;	Below measurable limit																							
(5) Total Harmonic Distortion;	0.006% (EIAJ) (1 kHz)																							
<b>Headphone Output Level:</b>	32 ohm (30 mW), Impedance; more than 8 ohm																							

感謝您購買本多功能雷射放映機，LX-101EN。  
爲了獲得最佳性能並確保安全，請詳閱此說明書。

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## 附件

紅外線遙控器（帶兩節“R03”型電池）  
電源線  
影像纜線  
音頻纜線  
插頭轉接器



### 電壓選擇器

將電壓選擇器設至當地電壓，則本機也能用於其他電壓不同（交流110伏, 127伏, 220伏, 240伏）的國家。在接通電源之前，請確認電壓選擇器的設定符號您所在地區的電壓。請參考第46頁。

型號和系列號碼可在本機的背面或底部找到。

請在下面提供的空格中加以注明，並作為您購買本機的永久記錄以備失竊時使用。

型號號碼 \_\_\_\_\_

系列號碼 \_\_\_\_\_

### 注意事項：

- 本機利用雷射器。  
如不遵守此處規定的方法進行操作、調整或控制，則可能會導致暴露於放射線的危險。  
請勿打開外蓋或自己動手維修。請將維修工作委託給專業維修人員。

### 警告：

為了避免火災或電擊事故，請勿讓本機淋雨或受潮。

注意事項：多功能雷射放映機使用不可見的雷射光束，如果直接對準人體，則可引起放射線危害。  
一定要按說明書正確操作放映機。

■ 為了避免火災或電擊事故，請只使用此處推薦的附件。

# 使用之前

## 電壓調整

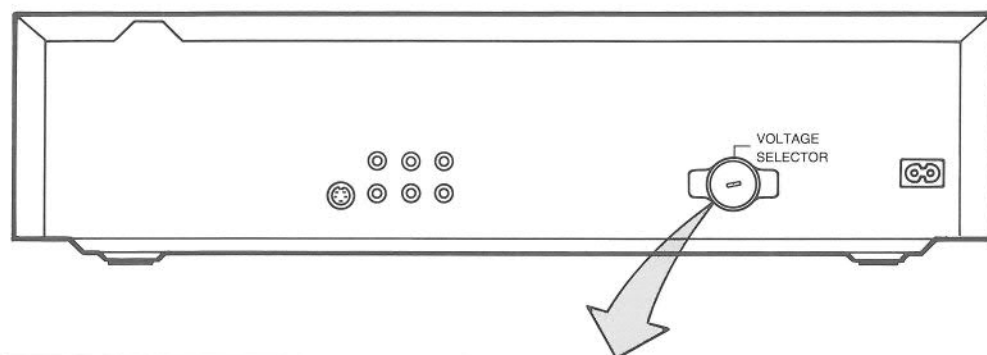
用平嘴螺絲刀設定後部的電壓選擇器，使它與當地供電電壓相符。

- 本機出廠時，電壓選擇器設定在240V。

### 注意：

設定電壓選擇器之前，電源開關必須切斷，電源插頭不得接上。

如果設定錯誤，本機將受到嚴重損壞。

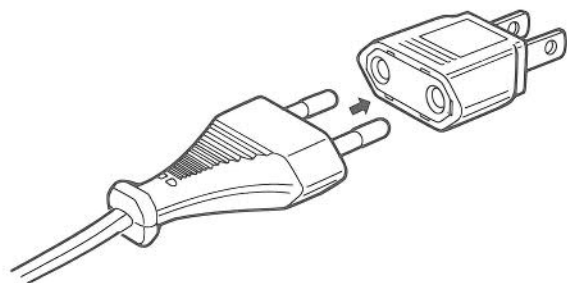


電壓選擇器的設定位置				
當地供電電壓	AC 110 V	AC 127 V	AC 220 V	AC 240 V

## 交流插頭轉換器

因為本機裝有電壓選擇器，所以也可以在其它國家使用。但是，每個國家的插頭規格不一定相同。這就有必要使用交流插頭轉換器。(此類轉換器在機場商店等有出售。)

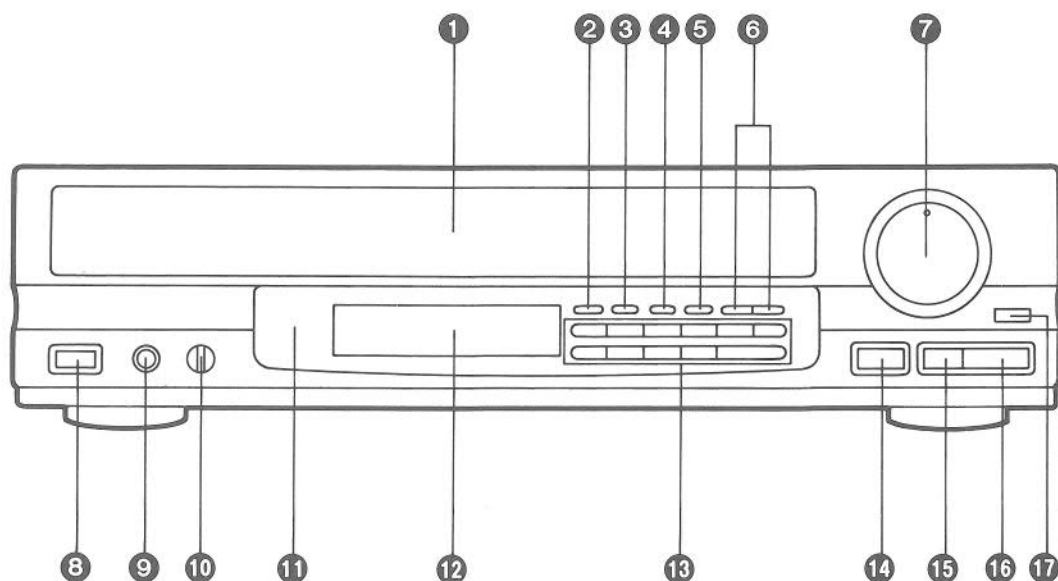
- 將本機使用於交流110V或127V供電的國家時，如使用所提供的交流插頭轉換器，即可操作本機（除了少數國家外）。



# 控制器和組件

本說明書的說明主要針對遙控器的使用。因此，下面表示的頁次數目應參照遙控器的使用。

## 前部



## 控制部分

序號	說明	頁次
①	碟托盤	55
②	編輯鈕	74
③	長時間鈕	75
④	卷繞鈕	76
⑤	磁帶面鈕	75
⑥	跳越鈕	67, 70
⑦	往復旋鈕	63
⑧	電源通 / 斷鈕	56
⑨	耳機插孔	—
	● 連接耳機至該插孔可獲得雙語和立體聲效果。	

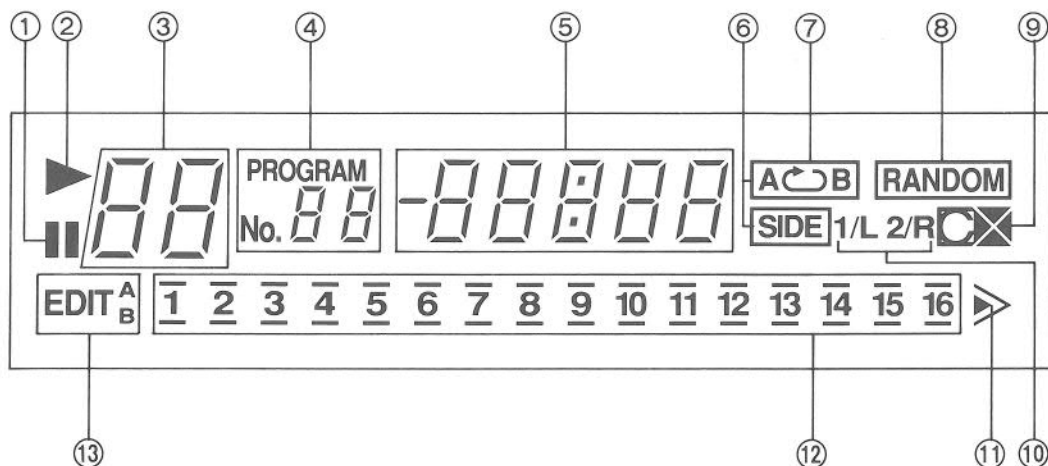
序號	說明	頁次
⑩	耳機音量控制	—
	● 用於調整音量	
⑪	遙控器接收窗	51
⑫	多功能顯示屏	48
⑬	數碼鈕	67
⑭	停止鈕	56
⑮	暫停鈕	56
⑯	播放鈕	56
⑰	打開 / 關閉 (播放) 鈕	56

## 警告

建議不要用耳機長時間高音量收聽。

# 控制器和組件 (續前)

## 多功能顯示屏



- ① 暫停指示燈
- ② 各種播放方式的播放指示燈
- ③ 樂章 / 磁迹號碼指示
- ④ 索引號碼 / 節目號碼指示
- ⑤ 幀號碼 / 時間號碼指示
- ⑥ 單面重復指示燈
- ⑦ 通常索引播放 / 各種重復播放指示
- ⑧ 隨機播放指示
- ⑨ CX系統 ON 指示燈
- ⑩ 音頻輸出方式指示燈
- ⑪ 過量指示

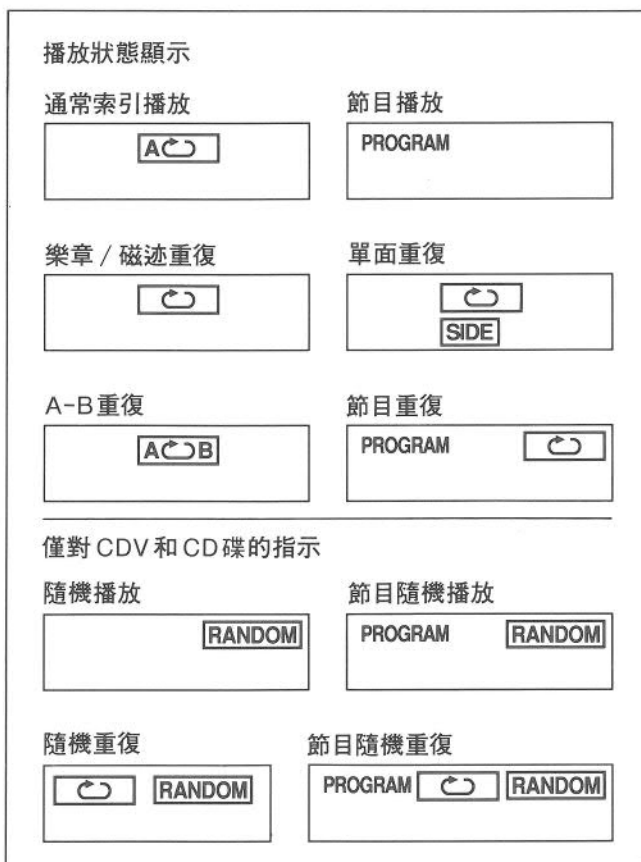
如果碟上磁迹數多於17，則“>”指示將出現。播放的曲子號碼大於17時，“>>”指示將被顯示。

### ⑫ 曲子號碼指示

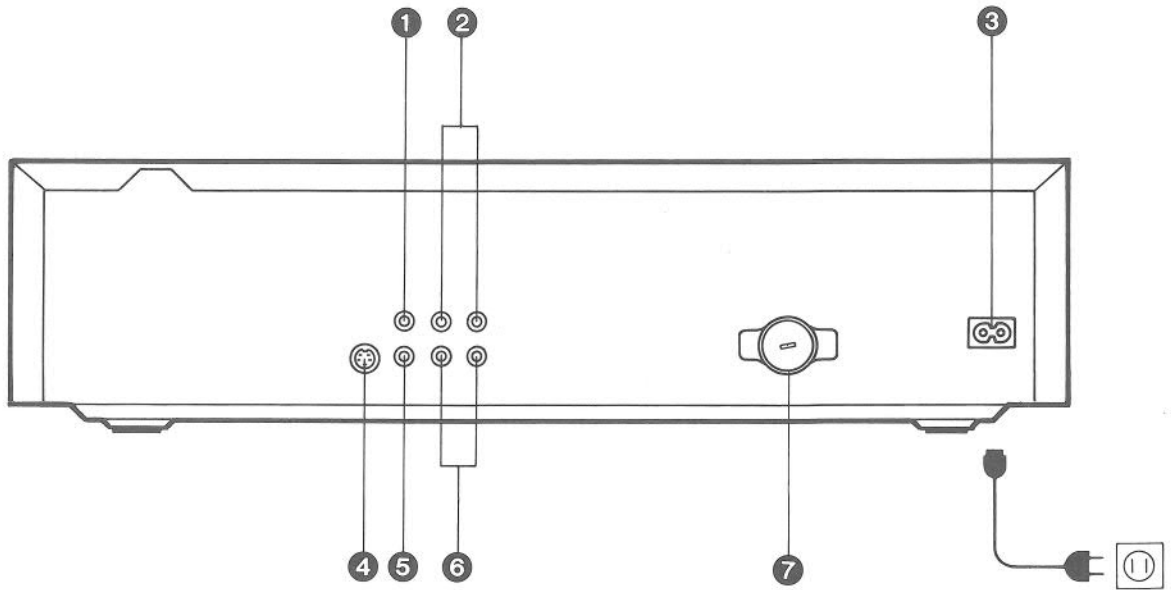
- 播放錄有樂章號碼的LD碟時，正被播放的樂章號碼之上或之下的條紋會亮起。
- 播放未錄製樂章號碼的LD碟時，條紋不會亮起。
- 播放CDV或CD碟時，正被播放的樂章號碼之上或之下的條紋會亮起。一旦磁迹的播放結束，號碼上或下的條紋就消失。

- 在有些LD碟上，樂章號碼“0”也許會被錄製。然而，却没有曲子號碼指示對應該號碼。

### ⑬ 編輯指示



## 後部

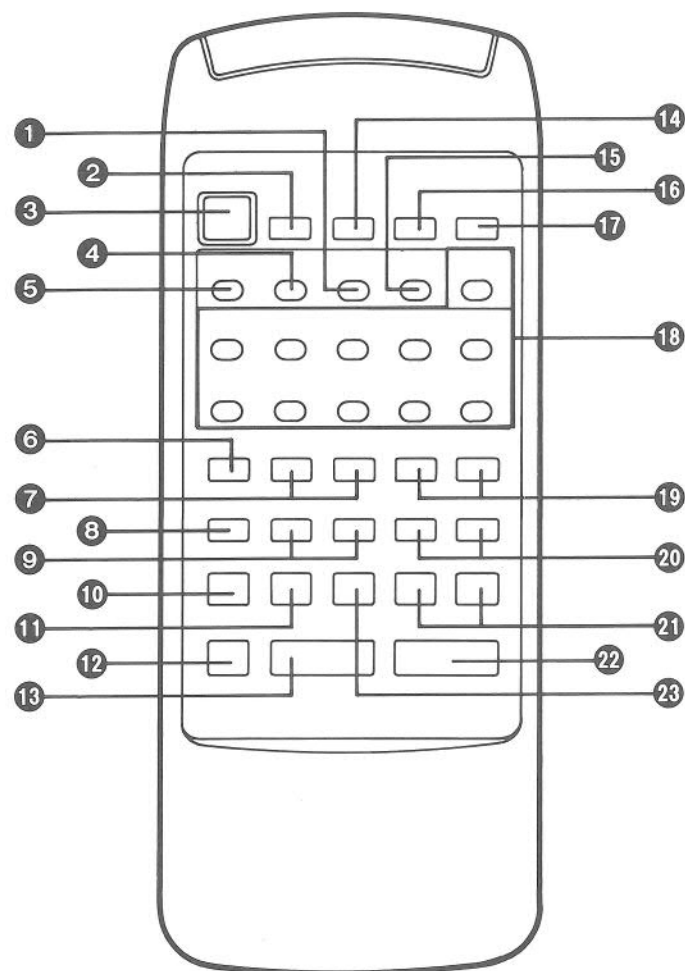


序號	說明	頁次
①	影像輸出 1 插孔	52
②	音頻輸出 1 插孔	52
③	交流電源插孔	—

序號	說明	頁次
④	S 影像輸出插孔	52
⑤	影像輸出 2 插孔	52
⑥	音頻輸出 2 插孔	52
⑦	電壓選擇器	46

# 控制器和組件 (續前)

## 遙控器

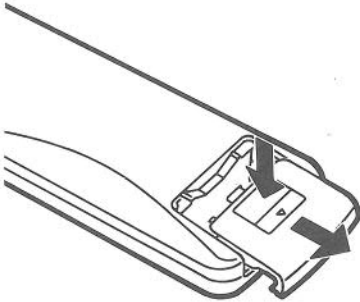


序號	說明	頁次
①	清除鈕	67
②	顯示 (屏幕指示) 鈕	61
③	打開 / 關閉 (播放) 鈕	56
④	回憶鈕	72
⑤	節目鈕	71
⑥	重復鈕	78
⑦	速度選擇鈕	65
⑧	A-B重復鈕 (通常索引)	57, 79
⑨	靜止 / 步進 (反向) 鈕	64
⑩	D/A · CX 鈕	59
⑪	音頻電平鈕	62
⑫	停止鈕	56
⑬	暫停鈕	56
⑭	時間方式鈕	62
⑮	方式鈕	67
⑯	放頭檢索鈕	66
⑰	隨機鈕	66
⑱	數碼鈕	67
⑲	多速鈕	65
⑳	掃描鈕	63
㉑	跳越鈕	67, 70
㉒	播放鈕	56
㉓	音頻選擇鈕	58

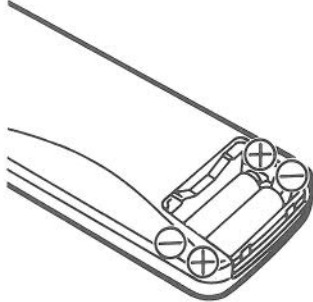
# 使用遙控器

## 電池安裝

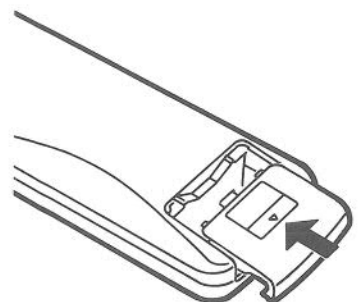
1



2



3



1 取下電池蓋。

2 按照電池室內所示，將電池放入電池室內。

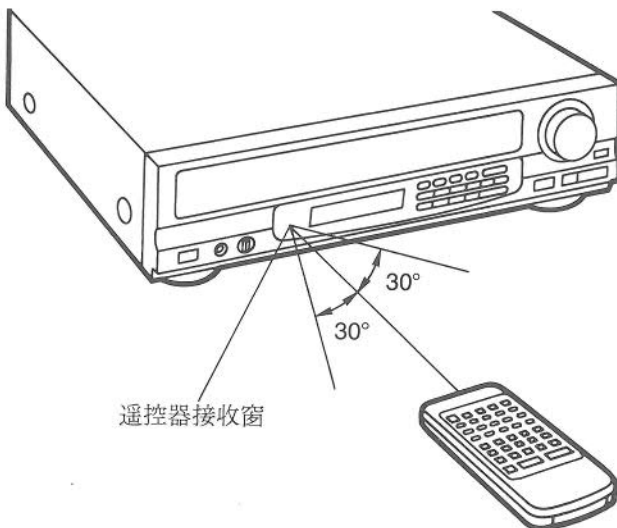
3 合上蓋。

## 電池的使用

- 裝入電池時應保證其極性（+和-）正確。
- 勿使電池受熱，否則會發生內部短路。
- 如果您打算在一段較長時間內不使用遙控器，則請取出電池並放置於陰涼乾燥處。
- 盡快取出並處理掉耗盡的電池。
- 請勿將新舊電池混用，也絕不能讓鹼性電池和錳電池混用。

## 操作時的注意

### 如何操作遙控器



- 紅外線光束必須直接傳送至本機前部的遙控器接收窗。
- 直射太陽光可能會干擾紅外線光束。
- 本機遙控器接收窗的感光角度為從中間起兩邊各約30°。
- 遙控器須在距離本機前部大約7公尺（23英尺）內使用。



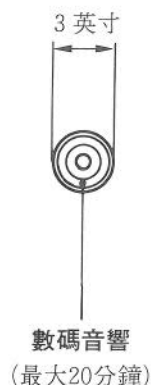




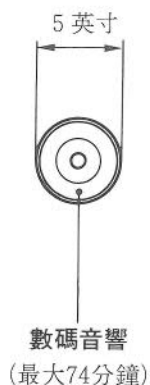
# 可播放的碟

本多功能雷射放映機不需任何轉接器便可放映下述六種雷射碟。

CD (小型碟) 單面  
〔僅單面〕



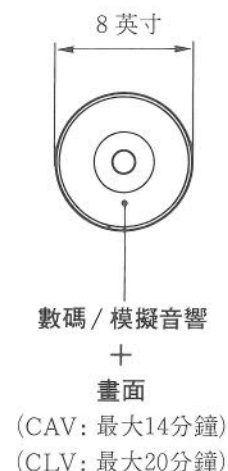
CD  
〔僅單面〕



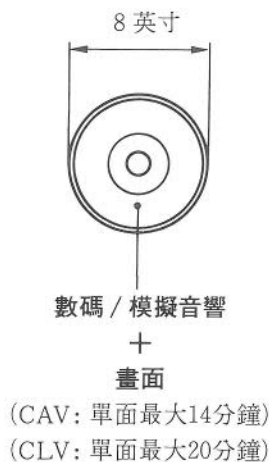
CDV (小型影像碟)  
〔僅單面〕



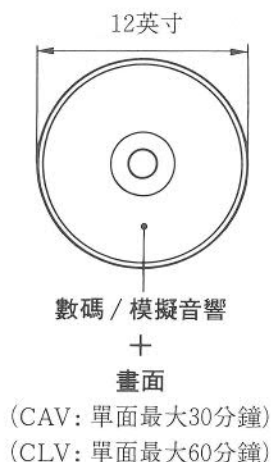
LD (雷射影像碟) 單面  
〔僅單面〕



LD  
〔兩面〕



LD  
〔兩面或僅單面〕



- 只有帶右圖所示商標之一的碟才能播放於本機。
- CED 和 VHD 制式的影像碟不能播放於本機。
- 本機適於 NTSC 彩色電視制式。標記有其他彩色電視制式 (PAL、SECAM) 的碟不能被播放。
- 本機不能對應 CD 圖形和 CD-ROM 規格。
- 絕不能使用背面鍍有鋁的碟。

## 注意：

請注意：對影像碟、原影帶、其他出版物或廣播材料進行錄製、廣播、表演或對公眾播放或出租，可能會引起侵犯版權的問題。

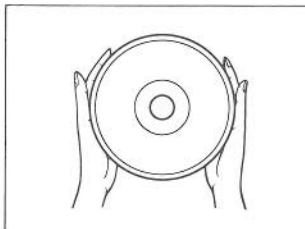


# 碟的裝卸

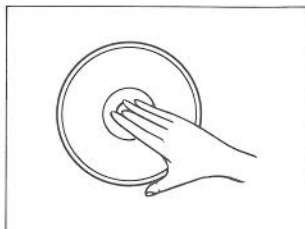
## 碟的拿法

拿住碟時，請勿接觸其表面。

### LD(12英寸)/LD、LD單面(8英寸)碟

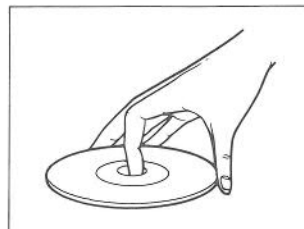


用兩手拿碟時：  
握住碟的邊緣。

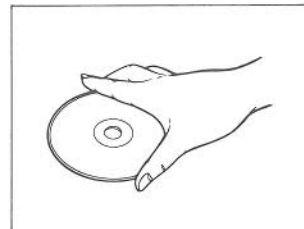


用一隻手拿碟時：

### CDV、CD(5英寸)/CD單面(3英寸)碟



拿碟時，將食指放在中心孔，  
將其他指頭放在碟的周圍。



## 將碟放至碟托盤

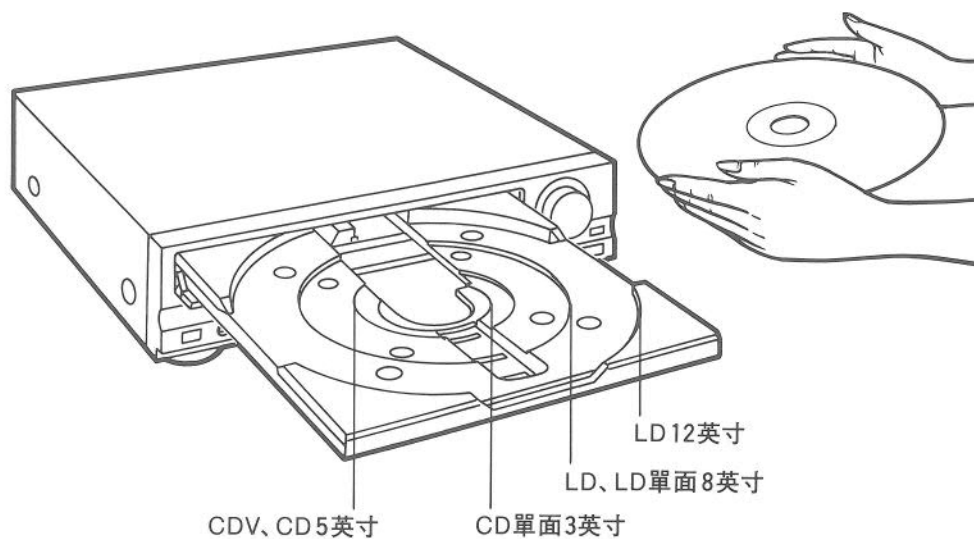
根據碟的尺寸，將其放至適當的凹處並確保平整。

### 兩面錄製的LD碟：

將碟放入托盤、並使要播放的面的標籤朝上。

### 一面錄製的LD碟及CDV碟或CD碟：

放至托盤時將其標籤朝上。

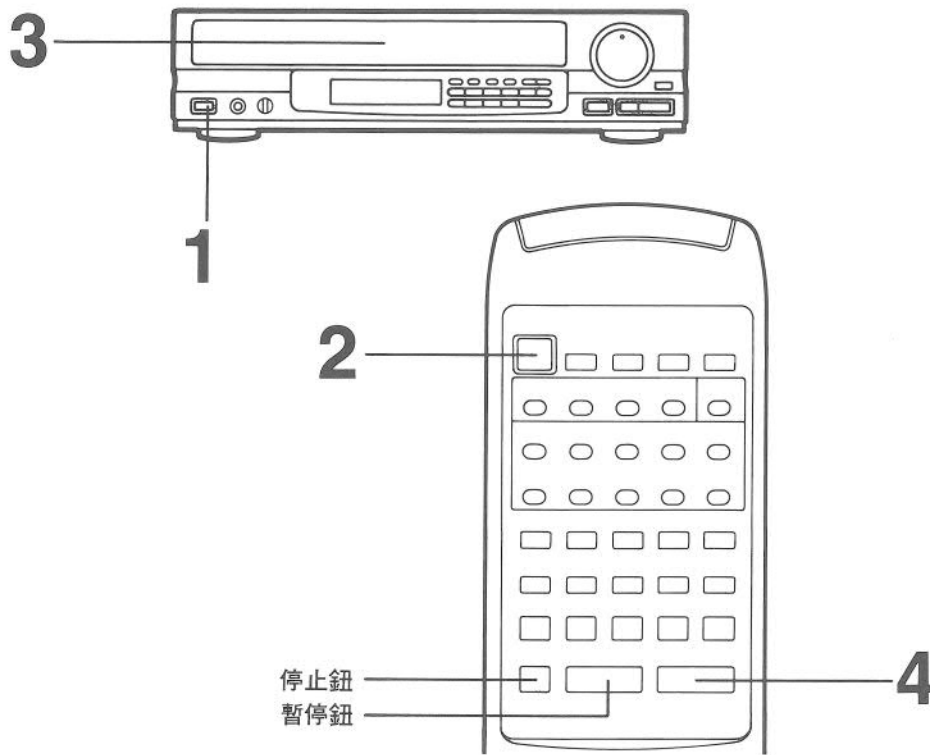


### 注意：

碟的放置不正確或同時放入兩張碟將引起故障或損壞本機。

# 播放

本操作說明書所討論的功能和操作主要用於遙控器。



## 正常播放 [LD][CDV][CD]

**1** 打開電源。

**2** 打開碟托盤。

**3** 插入碟。

**4** 按播放鈕。

- 如果按了遙控器上的打開 / 關閉鈕則也將使播放開始。

要停止播放時：

按停止鈕。

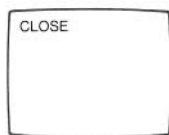
要暫時中斷播放時：

按暫停鈕。

- 要從同一位置繼續播放時，則請再按一次暫停鈕。

注意：

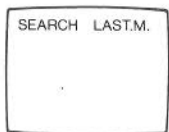
- 正在播放碟時，請勿傾斜、舉起或沖撞本多功能鐳射放映機，否則會損壞碟。
- 請勿試圖用手打開碟托盤。
- 請勿插入指定的碟之外的物體。
- 爲了防止機械部分損壞或灰塵堆積，請勿將碟托盤放置於開啓位置。



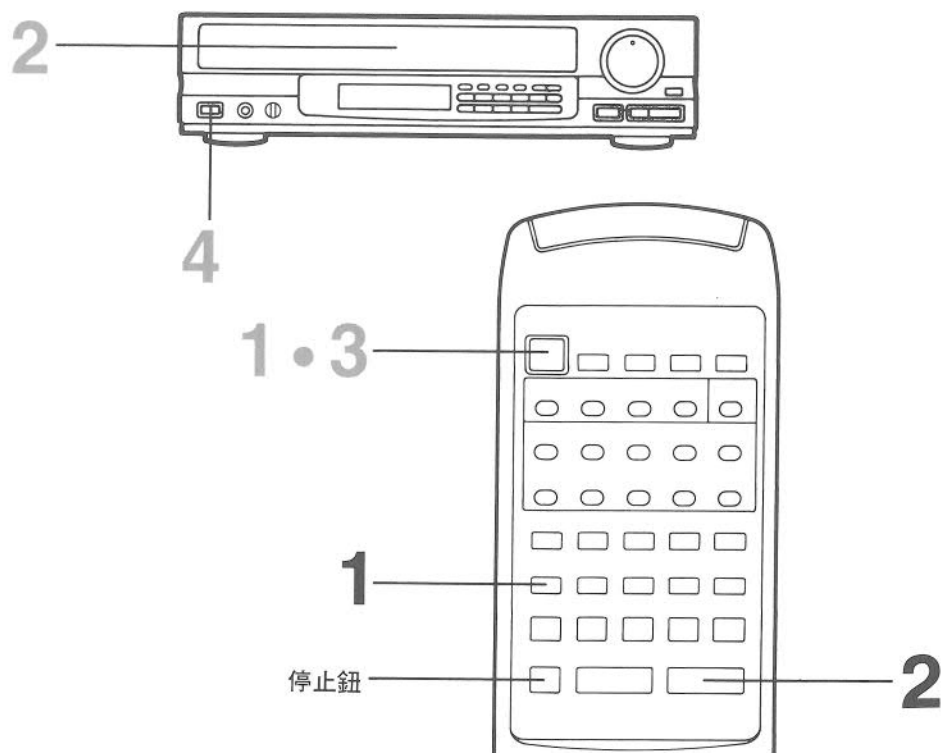
## 最終記憶功能 [LD]

按了停止鈕後，最終記憶功能將記住停止播放的點。本機處於停止狀態中按播放鈕時，本機將在停止的點附近處重新開始播放。

然而，在按了停止鈕之後進行了播放以外的操作時，最終記憶功能將被取消。



- 最終記憶功能在節目播放狀態和重復播放狀態中不起作用。



### 通常索引播放〔LD〕〔CDV〕〔CD〕

**1** 在播放時，在您想觀看(收聽〔CD〕)的位置按 A-B 重復鈕。

**2** 按播放鈕。  
● 從步驟 1 中按過 A-B 重復鈕的位置，播放將重新開始。

要停止播放時，請按停止鈕。



#### 注意：

- 在按了除播放鈕、靜止鈕、快進鈕和倒轉鈕之外的鈕後，該功能將被取消。
- 要重復的碟的部分包含 CDV 碟音頻和影像兩部分時，該功能將不起作用。
- 在隨機播放和節目播放時該功能將不起作用。

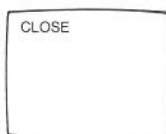
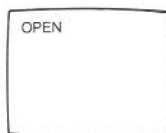
### 從多功能雷射放映機中取出碟

**1** 打開碟托盤。

**2** 取出碟。

**3** 關閉碟托盤。

**4** 關斷電源。

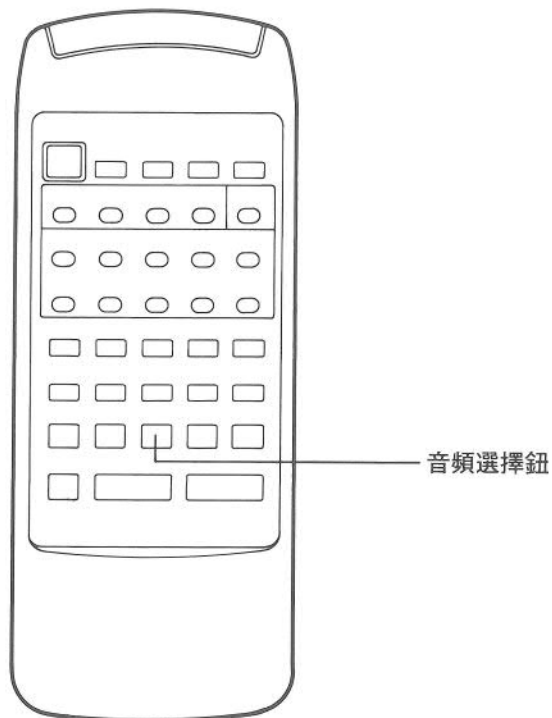


當長時間不使用本機時，請務必從電源插座上拔掉交流電源線。

# 音頻聲道選擇

利用音頻選擇鈕，可選擇希望的聲音播放。

音頻選擇鈕，〔LD〕、〔CDV〕或〔CD〕

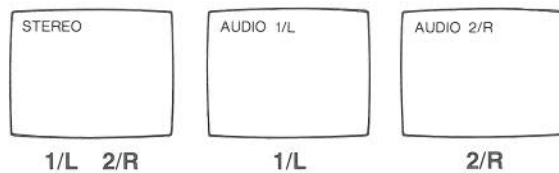


## 錄有立體聲音響的碟

要選擇希望的音頻聲道時，請按音頻選擇鈕。

● 屏幕顯示如下：

音頻指示	播放的音響
1/L 2/R	立體聲
1/L	左聲道音頻通過兩揚聲器輸出。
2/R	右聲道音頻通過兩揚聲器輸出。

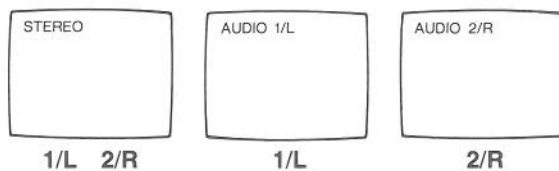


## 錄有雙語音頻信息的碟

用音頻選擇鈕切換聲音。

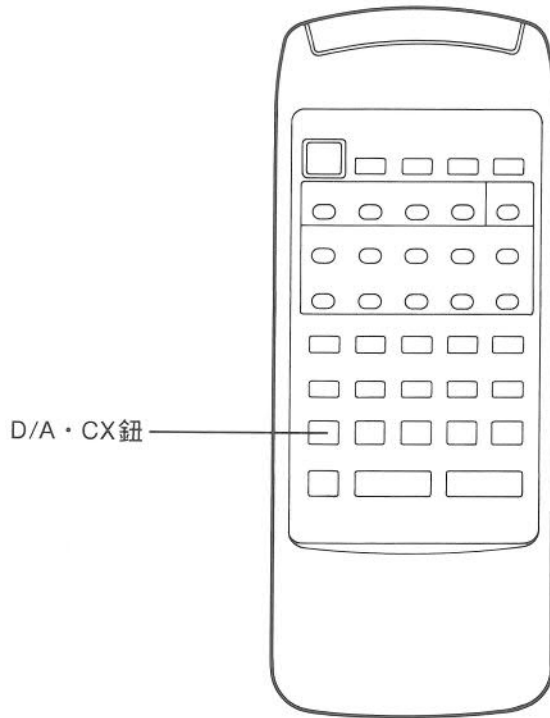
● 屏幕顯示如下：

音頻指示	播放的音響
1/L 2/R	左揚聲器可聽到主音頻信號，右揚聲器可聽到副音頻信號。
1/L	主音頻信號通過兩揚聲器輸出。
2/R	副音頻信號通過兩揚聲器輸出。



通過 D/A · CX 鈕，可選擇數碼音響以及 CX 降噪。

## D/A · CX 鈕 [LD]



### 有數碼音響的碟

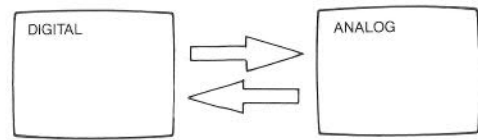


對於有這些商標的碟

播放開始時，指示“DIGITAL SOUND”將出現在多功能顯示屏上。

利用遙控器上的 D/A · CX 鈕，可將多功能雷射放映機後面的音頻輸出插孔來的音頻信號輸出在數碼和模擬之間切換。打開電源時，數碼音響將被自動選擇。

● 屏幕顯示為如下：



注意：

- 因為數碼和模擬音響的錄製電平不同，故在數音響和模擬音響之間切換時，某些碟的音量將發生變化。
- 取決於所用的碟，每按一次 D/A · CX 鈕，電視屏幕上的顯示將按如下順序變化。


→ DIGITAL → CX ON → CX OFF →



“CX ON”和“CX OFF”表明模擬音響被啟動或被取消。

### 帶 CX 標記的碟

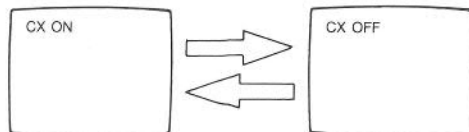


對於有該商標的碟。

因為帶有 CX 標記的碟具備降噪系統，故在播放時可獲得動態音響且噪音最低。該碟被播放時，多功能顯示屏上將出現 。

可自動開 / 關 CX 系統的編碼可能未被錄在所有的碟上，播放無此編碼的碟時， 將不被顯示。這時，請按遙控器上的 D/A · CX 鈕，使得  指示亮起。

● 屏幕顯示為如下：



注意：

如果播放沒有 CX 標記的碟且 CX 方式被使用時，音頻響應將有改變。

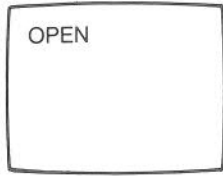
 是 CBS 的商標。

多功能雷射放映機符合 CX 系統擴充了的規格。

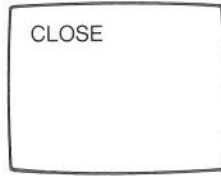
# 屏幕顯示說明

## 顯示例

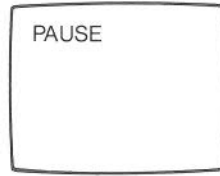
除下示的以外，還有許多顯示。它們被解釋於以下各頁。



打開碟托盤。



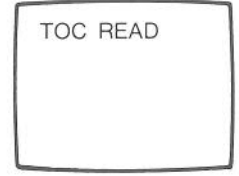
關閉碟托盤。



多功能雷射放映機處於暫停狀態。



檢索功能或跳越功能正在被操作。操作檢索或跳越功能。



讀取碟的內容。  
● 插入CDV或CD碟時該顯示將出現。

- 在LD碟的暫停狀態以及CDV(音頻部分)或CD碟的聲音播放狀態，屏幕將為藍色。
- 如果播放CDV或CD碟時電視機開着，則可在電視機屏幕上確認播放的磁迹號碼、經過的播放時間以及多功能雷射放映機的操作狀態。

## 如果多功能雷射放映機處於停止狀態

取決於插入的碟的型號，屏幕指示將如下：

對於CDV和CD碟，錄製的總磁迹數和錄製時間將被顯示。

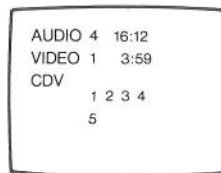
- 屏幕上顯示的時間可能會與碟中說明書標明的略有差異。

**LD**

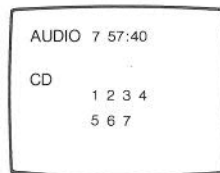


無指示

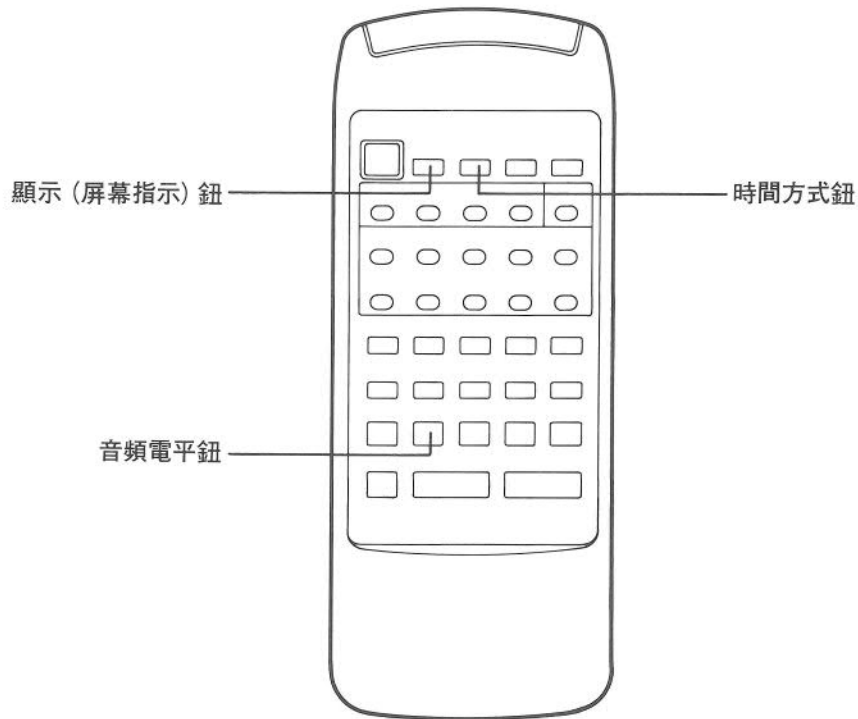
**CDV**



**CD**

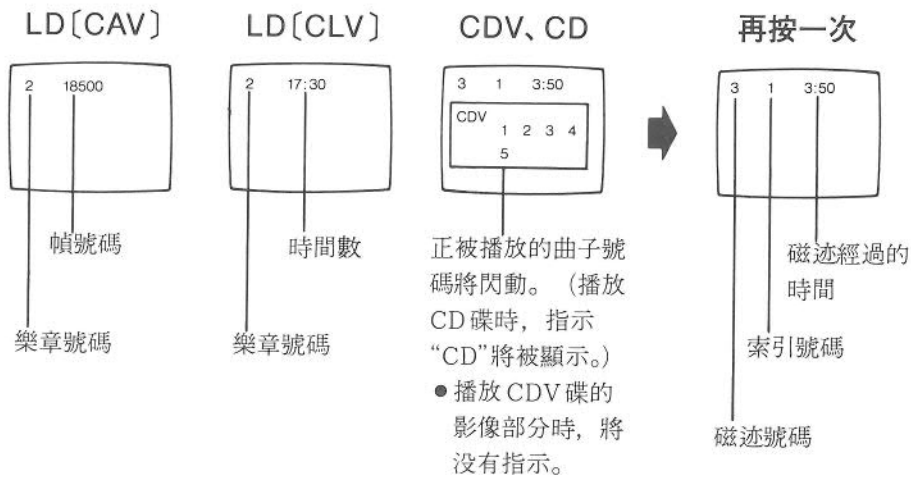






### 碟播放時的確認 [LD][CDV][CD]

按顯示 (屏幕指示) 鈕，下列指示將出現在屏幕上。

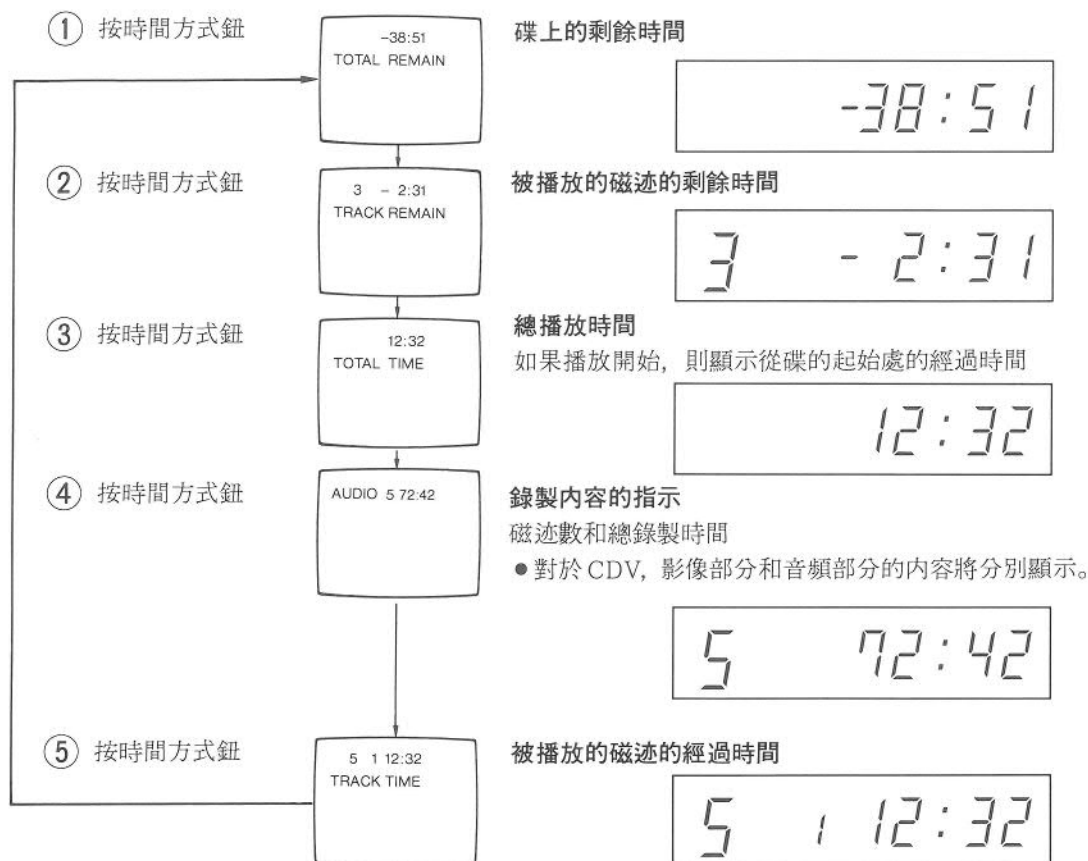


- 播放未錄製秒數的 CLV 碟時，僅有分鐘被顯示。(例如：“17: ”)
- 播放未錄製樂章的碟時，將無樂章顯示。

# 屏幕顯示說明 (續前)

## 檢索時間顯示 [CDV][CD]

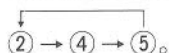
按時間方式鈕，則顯示屏指示為如下：



- 按顯示鈕清除屏幕。

注意：

- 在隨機播放狀態中，屏幕顯示將遵守下列順序

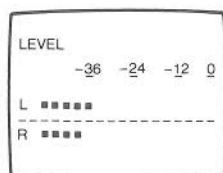


- 編輯播放中，指示①顯示剩餘磁帶時間，指示③顯示磁帶 A 面或 B 面的總播放時間。
- 屏幕上顯示的時間可能會與碟中內容表標明的略有差異。這是因為這些內容表僅標明每一磁迹的實際播放時間，而多功能雷射放映機也計時且顯示磁迹之間的時間。

## 顯示音頻音量 [CDV][CD]

按音頻電平鈕在屏幕上顯示音頻音量。

再按該鈕一次可消除顯示。

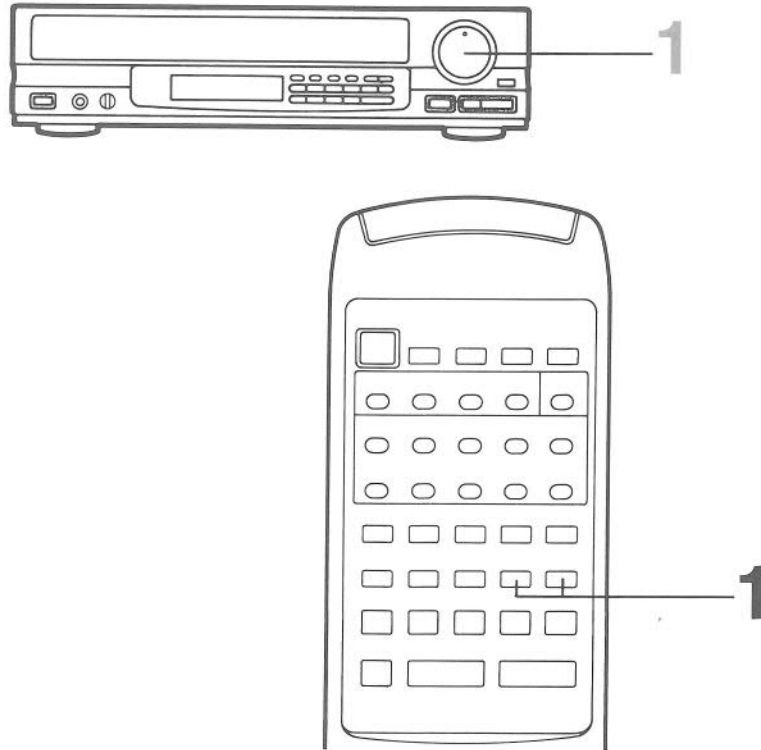


- 音量表配備有峰值保持功能，可保持瞬時最大音量值。
- 音量表顯示 CDV 和 CD 碟上錄製的實際信號電平。
- 低頻信號將不能被精確顯示。

注意：

- 各錄音之間或音源之間的數碼音量指示燈可能不一樣。
- CDV 碟的影像部分被播放時，音量將不被顯示。

# 播放功能



## 正向(反向)播放 [LD][CDV][CD]

**1** 當多功能放映機處於正常播放狀態時按掃描（正向或反向）鈕。

- 畫面將以慢速度播放大約 2 秒鐘，然後進入快速。

- 一旦釋放該鈕，便回到正常播放狀態。

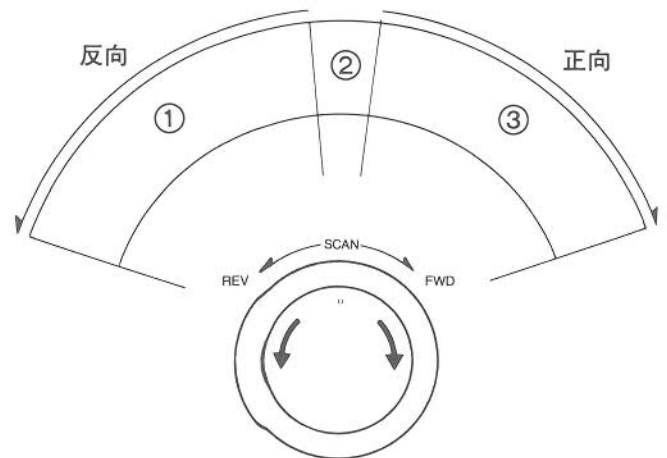
注意：

- 在 LD 和 CDV 碟的影像部分進行正向（反向）播放時，將沒有聲音出現。
- 在 CDV 碟上，正向（反向）播放不能跨越影像部分和音頻部分。

## 使用往復旋鈕 [LD][CDV][CD]

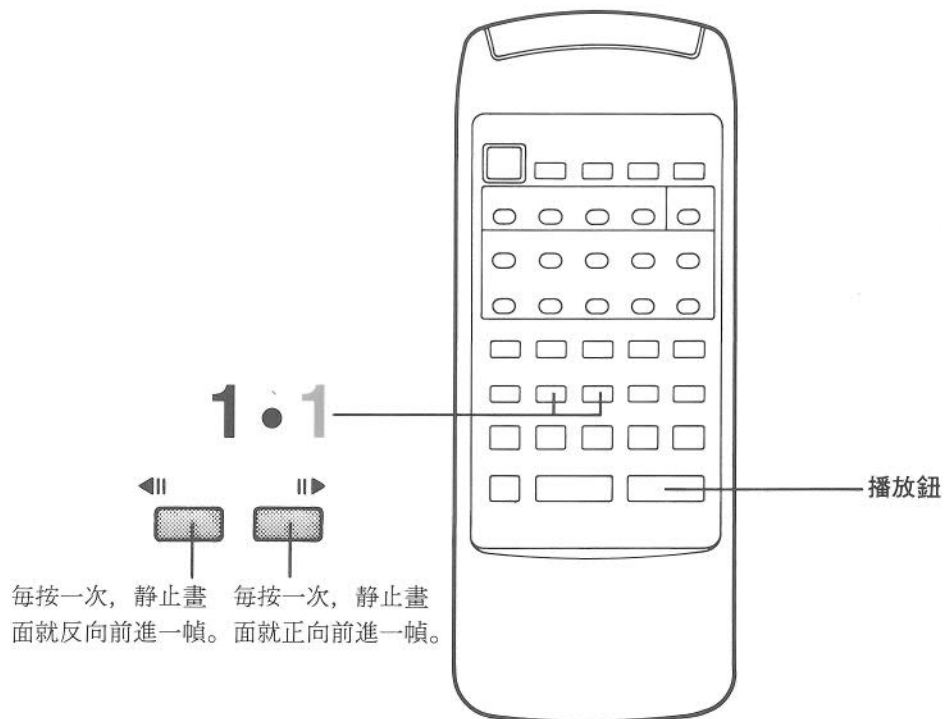
**1** 旋轉往復旋鈕。

- 要啟動正向（反向）播放功能時，請按下圖所示旋轉往復旋鈕。
- 要回到中間“咔嗒”位置時，只需按往復旋鈕。
- 在暫停狀態下將往復放鈕回到中間“咔嗒”位置時，正常播放將恢復。然而，對於 LD (CAV) 碟、在靜止播放狀態下旋轉往復旋鈕時、將切換至靜止播放。



- ① 反向播放
- ② 播放
- ③ 正向播放

# 播放功能 (續前)



## 靜止播放〔LD(僅CAV)〕

**1** 當多功能雷射放映機處於正常播放狀態時，按靜止 / 步進鈕或靜止 / 反向步進鈕。

- 按任一鈕，都可播放靜止畫面。

要回到正常播放狀態時，請按播放鈕。

帶有自動畫面停止功能的碟

播放錄製有特殊“畫面停止碼”信號的碟時，本機將在到達標記有停止碼的幀位置處立刻切換至靜止播放狀態。

要回到正常播放狀態時，可按播放鈕。

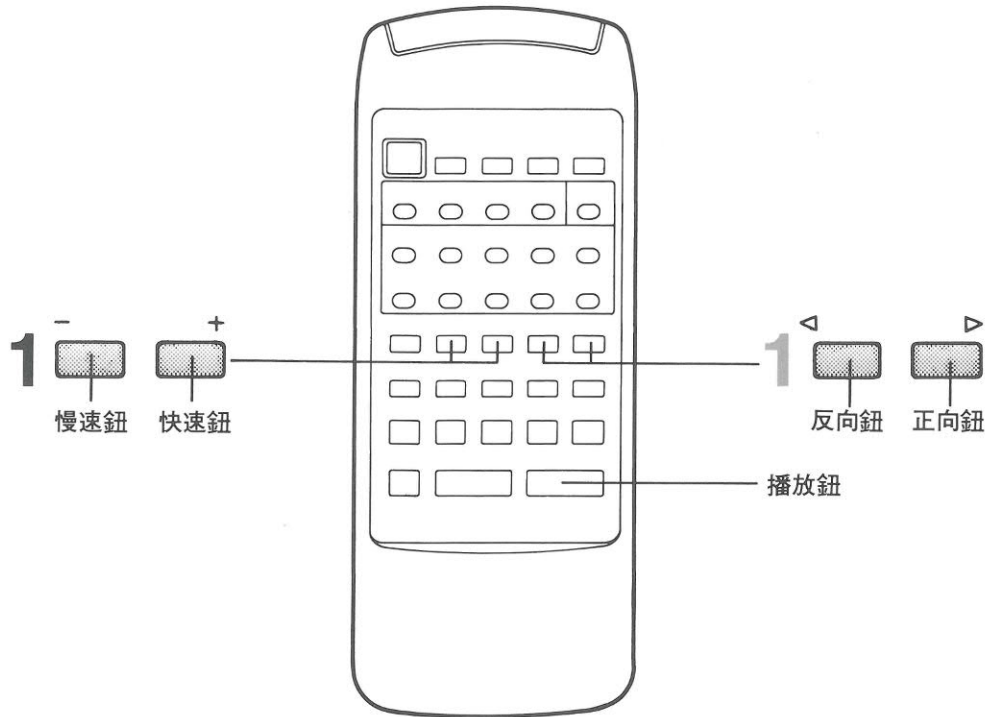
## 靜止步進(反向)播放〔LD(僅CAV)〕

**1** 當多功能雷射放映機處於靜止播放狀態時，按靜止 / 步進鈕或靜止 / 反向步進鈕。

- 每按一次任一鈕，便可正向(或反向)播放一幀靜止畫面。

要回到正常播放狀態時，請按播放鈕。

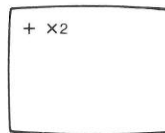
## 多速播放〔LD (僅CAV)〕



### 要改變播放速度時

**1** 當多功能雷射放映機處於播放狀態時，按兩速度選擇鈕（- Speed 或 Speed +）中的任一組。

- 每按一次任一鈕，播放速度將按表中所示變化。
- 僅在正常正向播放狀態中，聲音才會播出。

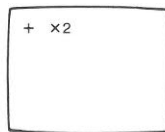


屏幕顯示播放速度	說明
×3	3 倍正常播放速度
×2	2 倍正常播放速度
×1	正常播放速度
1/2	1/2 慢速播放
1/4	1/4 慢速播放
1/8	1/8 慢速播放
1/16	1/16 慢速播放
1/30	每秒播放一幀。
1/60	每兩秒播放一幀。
1/90	每三秒播放一幀。

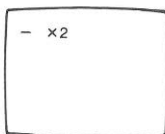
### 要改變播放方向時

**1** 按兩多速鈕（◀ 多速或 多速 ▶）中的任一鈕。

- 使用速度選擇鈕和多速鈕，可兩方向（正向和反向）按十段改變播放速度。
- 僅在正常正向播放狀態中，聲音才會播出。



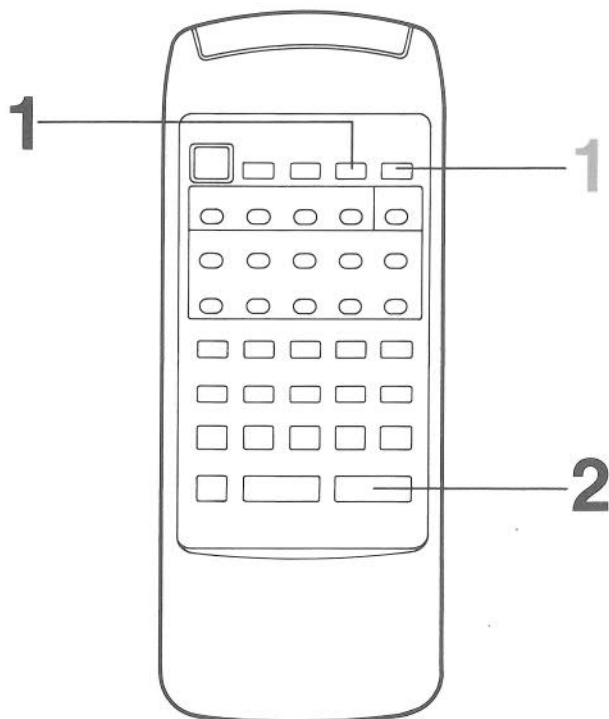
正方向



反方向

要回到正常播放狀態時，請按播放鈕。

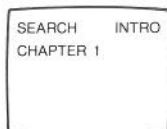
# 播放功能 (續前)



## 放頭檢索播放 [LD][CD]

按順序將每一樂章 / 磁迹的開頭部分播放大約10秒鐘。

- 1 停止狀態中：  
按放頭檢索鈕。
  - 放頭檢索將開始。



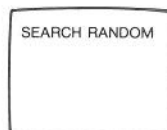
- 2 到達希望的幀（希望的曲子）時，  
按播放鈕。
  - 正常播放將開始。

### 注意：

- 在放頭檢索中按了快進檢索或倒轉檢索鈕、多速鈕、隨機鈕、A - B 重復鈕或重復鈕中的任一鈕時，放頭檢索將被取消。
- 對於 LD 碟，掃描過碟上所有的樂章後，碟末尾的部分將被播放，然後本機回到碟的開始處並切換至正常播放狀態。
- 對於 LD (CLV) 碟，因為秒數未被錄製，故播放時間不被固定。
- 對於無樂章號碼的碟，碟的開頭部分將被播放大約10秒鐘，然後多功能雷射放映機將回到碟的開始處並切換至正常播放狀態。
- 對於 CD 碟，掃描過碟上所有的磁迹 (曲子) 後，本機將回到碟的開始處並切換至正常播放狀態。

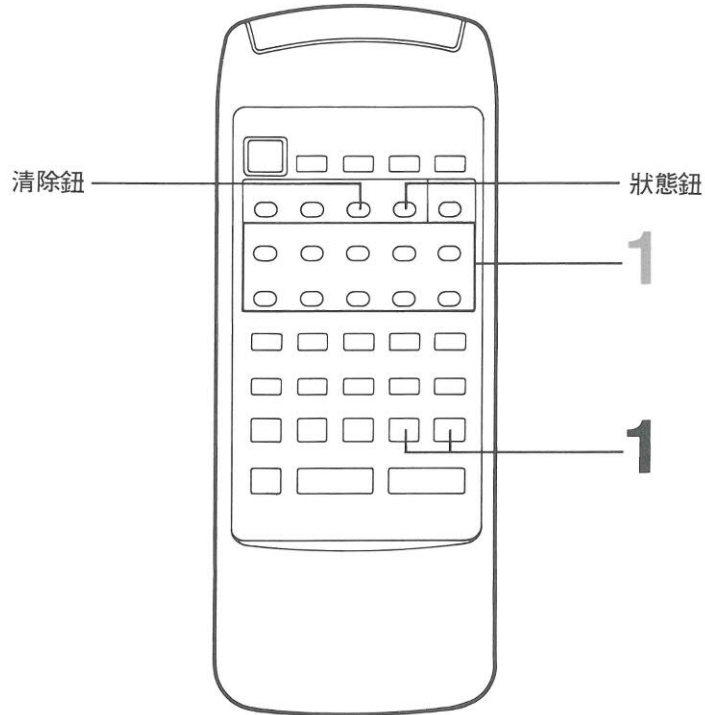
## 隨機播放 [CDV][CD]

- 1 當多功能雷射放映機處於正常播放狀態或停止狀態時，按隨機鈕。
  - 多功能雷射放映機將自動進行隨機播放。所有磁迹或節目播放完後，它將進入停止狀態。



要回到正常播放狀態時，請再按一次隨機鈕。

# 檢索希望的畫面



## 樂章跳越(LD)

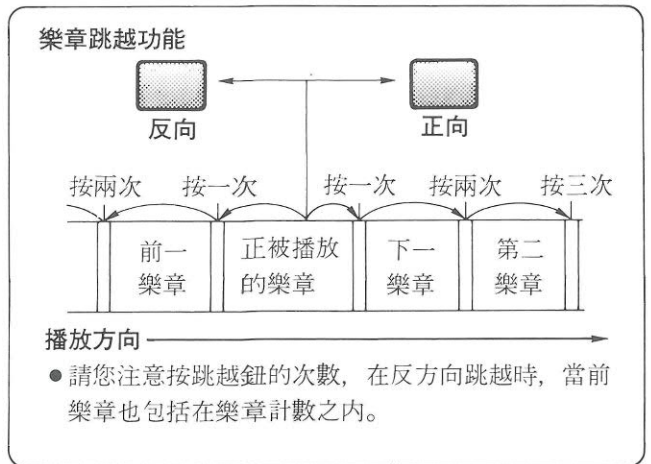
### 1 播放中按跳越鈕。

- 根據樂章號碼指定的次數反復按跳越鈕，也能直接找到希望的樂章。

#### 注意：

對於沒有樂章號碼的碟，該功能將不起作用。

如果所按跳越鈕的次數超過剩餘樂章數，則將在碟的最後樂章的結束之前一點距離開始播放。

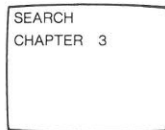


## 樂章檢索系統(LD)

例：找到樂章號碼3的起始處：

### 1 按數碼鈕“3”。

- 第3樂章的節目將被播放。
- 如果屏幕顯示與右邊的不同，則請按狀態鈕使得“CHAPTER”出現，然後輸入希望的樂章號碼。
- 如果在播放中您想找到另一樂章，但您按錯了數字，則只需輸入正確的樂章號碼即可。



檢索2位數碼的樂章時：

用“+10”於第一位數(十位)，然後按相應的鈕用於第二個數字。

例：找第14樂章：

“+10” → “4”

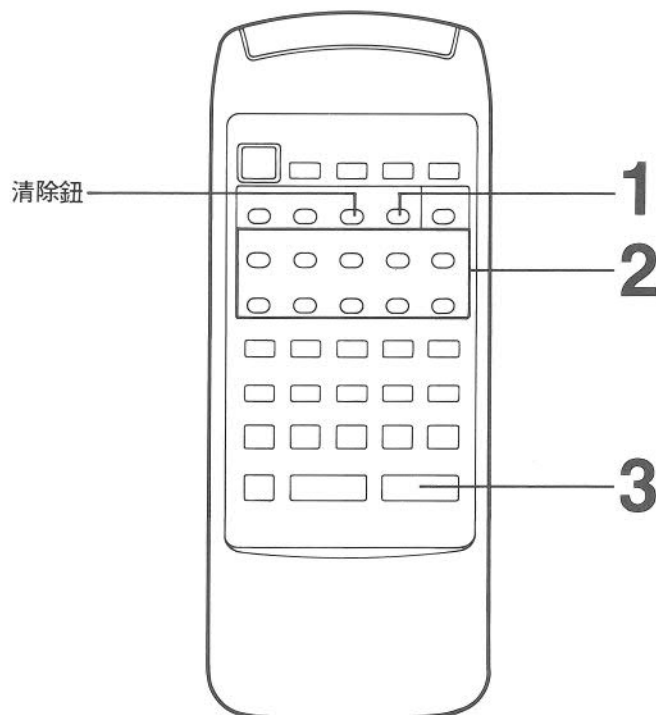
找第20樂章：

“+10” → “+10” → “0”

注意：

- 對於沒有樂章號碼的碟，該功能將不起作用。
- 如果所選的樂章號碼大於碟上總的樂章數，則將在最後樂章的結束之前一點距離開始播放。
- 如果顯示“CHAPTER”出現後，未輸入樂章號碼，則可按清除鈕來取消該顯示。

# 檢索希望的畫面 (續前)



## 幀檢索功能[LD (僅CAV)]

例：從幀號碼15000開始播放：

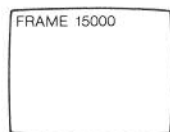
### 1 播放中按狀態鈕。

- 一直按到顯示“FRAME”出現在電視屏幕上。
- 對於沒有樂章號碼的碟不需要此操作。



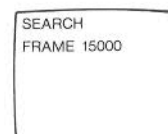
### 2 按數碼鈕“1”→“5”→“0”→“0”→“0”。

- 如果您按錯了數碼，則請按清除鈕加以取消，然後再按正確的數碼鈕。



### 3 按播放鈕。

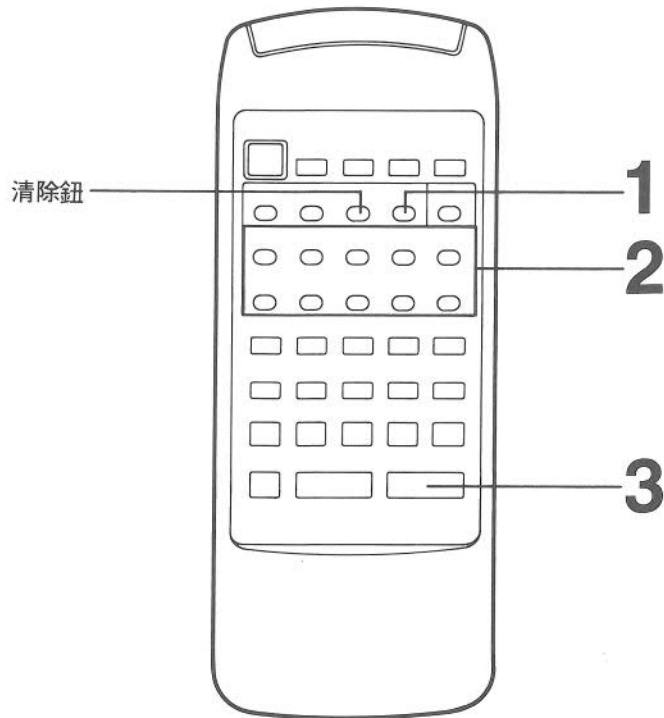
- 播放將從指定的幀開始。
- 從靜止播放狀態使用幀檢索功能時，到達指定的幀後，將播放靜止畫面。



#### 注意：

- 如果指定的幀號碼高於錄製的最高幀號碼，則將在碟的結束稍前一點處開始播放。





## 時間檢索功能[LD (僅CLV)]

例：從距離碟起始點15分鐘處開始播放：

### 1 播放中按狀態鈕。

- 一直接到顯示“TIME”出現在電視屏幕上。
- 對於沒有樂章號碼的碟不需要此操作。



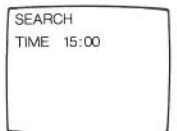
### 2 按數碼鈕“1”→“5”→“0”→“0”。

- 如果您按錯了數碼，則請按清除鈕加以取消，然後再按正確的數碼鈕。



### 3 按播放鈕。

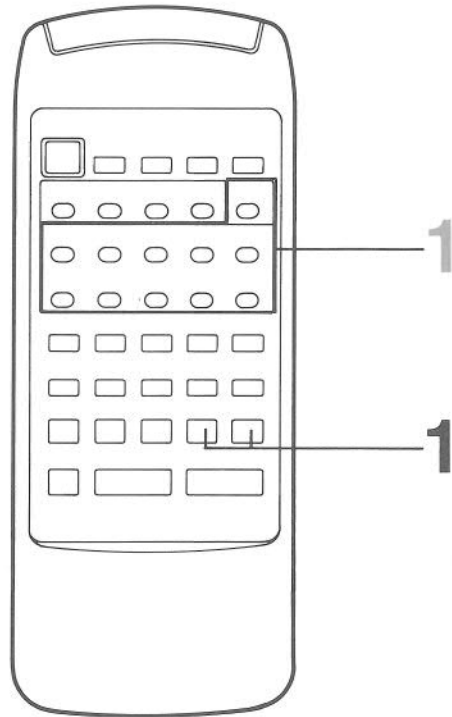
- 播放將從指定的時間處開始。



#### 注意：

- 如果碟上僅錄製了分鐘時間，則即使指定了秒，播放也僅從指定的分鐘的起始點開始。
- 如果指定的時間數高於總的時間數，則將在碟的結束稍前一點處開始播放。

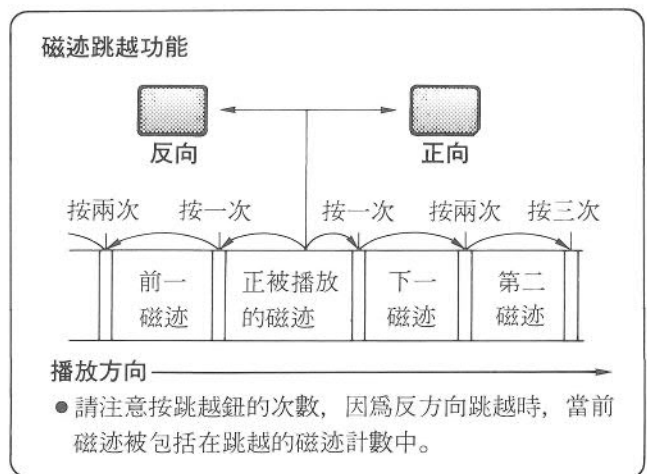
# 檢索希望的聲音



## 磁迹跳越[CDV][CD]

### 1 播放中按跳越鈕。

- 也可用多功能雷射放映機上的跳越鈕來操作該磁迹跳越功能。
- 也可直接找到某磁迹，持續按跳越鈕直至希望的磁迹被找到。

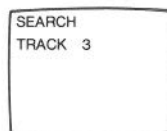


## 磁迹檢索功能[CDV][CD]

例：找到磁迹號碼“3”。

### 1 按數碼鈕“3”。

- 磁迹號碼 3 將被播放。
- 在播放中如果您想找到另一磁迹但却按錯了號碼，則只需輸入正確的號碼。



要找到兩位數的磁迹時：

用“+10”鈕輸入第一位數（十位），用相應的數碼鈕輸入第二位數。

例：找到磁迹碼“14”：

“+10” → “4”

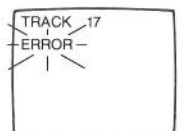
找到磁迹號碼“20”：

“+10” → “+10” → “0”

**注意：**

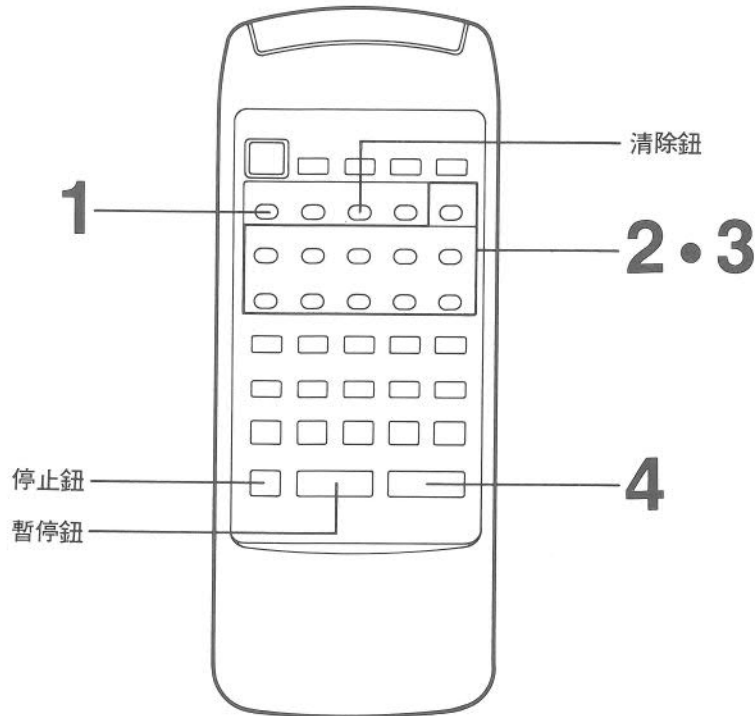
如果碟托盤打開時指定了未錄製的磁迹號碼，電視屏幕上“ERROR”指示將閃動，本機將切換至停止狀態。

這時，請按打開/關閃(播放)鈕打開碟托盤，確認錄製的磁迹號碼，然後按適合與希望磁迹的正確的數碼鈕。



# 節目播放

儘管碟上按順序錄有樂章或磁迹號碼，但本功能將按用戶指定的順序進行播放。節目編制按樂章或磁迹進行。



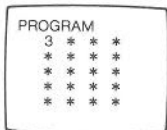
## 正常節目播放[LD][CDV][CD]

例：按樂章“3”→“1”→“4”的順序播放LD碟。

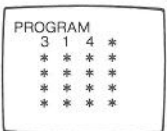
**1** 在播放或停止狀態中按節目鈕。  
電視屏幕將變換至節目狀態。節目號碼“1”將顯示在多功能顯示屏上。



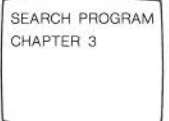
**2** 按數碼鈕“3”。  
樂章號碼“3”將出現在屏幕上。  
●如果您按了錯號碼，則請按清除鈕，然後再輸入正確的數碼鈕。



**3** 按數碼鈕“1”，再按“4”。  
●一次可順序編排20個樂章。



**4** 按播放鈕。  
●節目播放開始。  
●所有編排的樂章或磁迹被播放完後，本機將進入停止狀態，電視屏幕將再次變換至節目狀態。



要中途停止節目播放時，請按停止鈕。

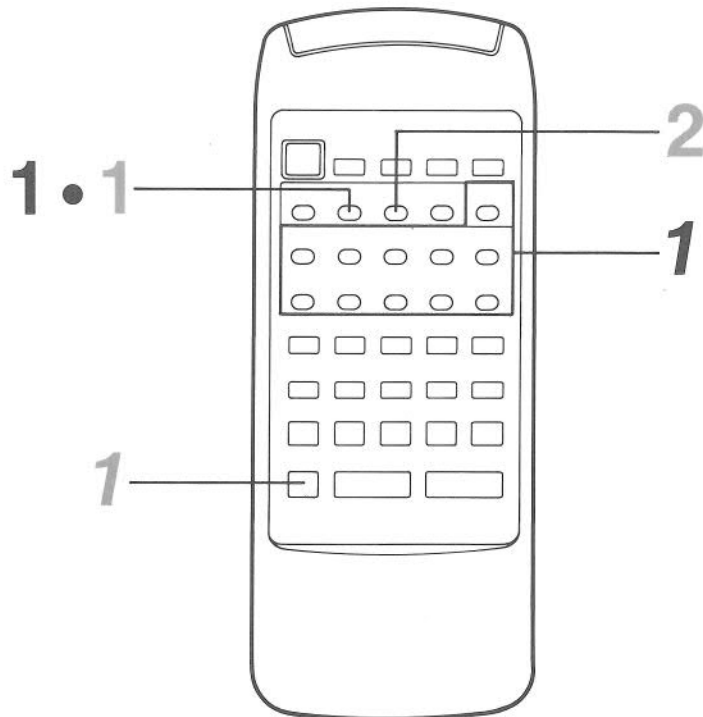
要再次開始節目播放時，請在停止狀態中按播放鈕。

要回到正常播放狀態時，請在節目播放中按節目鈕。

注意：

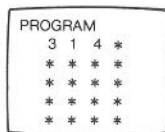
- 編排了20個以上的樂章或磁迹時，多功能顯示屏上的指示“-F”和電視屏幕上的指示“FULL”將閃動，下面的樂章或磁迹將不會被接收。
- LD碟的場合，碟上未錄製樂章號碼的也能被編排，然而，在播放時這些樂章將被跳過。
- 對於未錄製樂章號碼的LD碟，節目播放不能進行。
- 在播放開始之前，要在編排好的樂章或磁迹序列起始處暫停時，請在按了播放鈕後立即按暫停鈕。

# 節目播放 (續前)



要確認所選用於節目播放的樂章或磁迹時

**1** 按回憶鈕。



要取消所選用於節目播放的樂章或磁迹時

(可分別加以取消。)

**1** 按回憶鈕，直至要取消的樂章或磁迹號碼閃動。

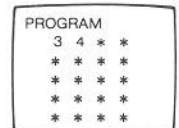


**2** 按清除鈕。

● 所選的樂章或磁迹被取消。

注意：

當前播放的樂章或磁迹不能被取消。



要增加樂章或磁迹用於節目播放時

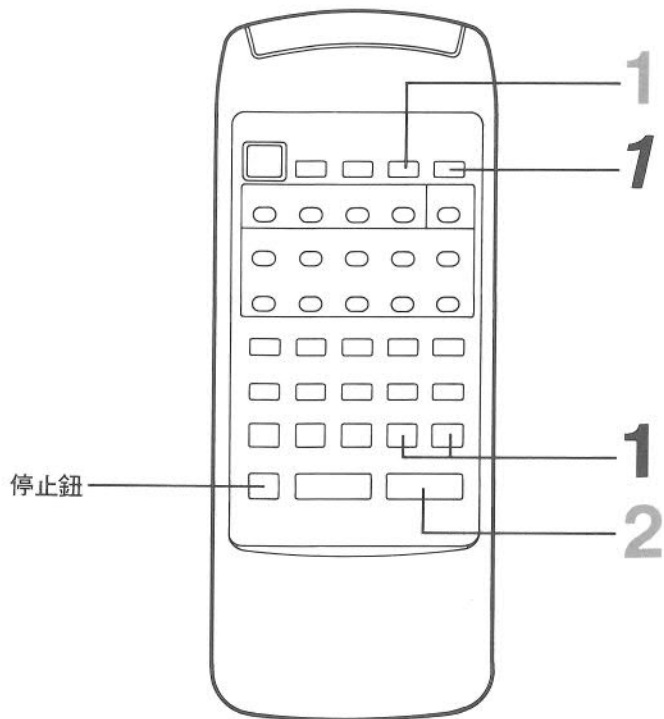
(可增加新的樂章或磁迹用於播放。)

**1** 按數碼鈕。

要取消節目播放時

**1** 在本機已處於停止狀態時按停止鈕。

● 也可關掉本機或打開碟托盤來取消節目播放。



## 節目跳越[LD][CDV][CD]

節目播放中，如果要跳越不希望的樂章或磁迹時：

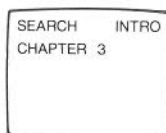
**1** 按跳越鈕。

- 請注意按跳越鈕的次數，因為反方向跳越時，當前播放的樂章或磁迹被包括在跳越計數中。

## 節目放頭檢索[LD][CD]

按編排好的順序對編排過的樂章 / 磁迹（曲子）的開頭部分播放大約10秒鐘。

**1** 當本機處於停止狀態時，完成第71頁的編排步驟（1 - 4），然後按放頭檢索鈕。



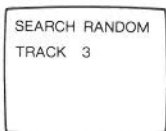
**2** 到達希望的場面（曲子）後，按播放鈕。

- 正常節目播放將開始。

## 節目隨機播放[CDV][CD]

如果要按隨機順序對所選用於節目播放的磁迹自動進行播放時：

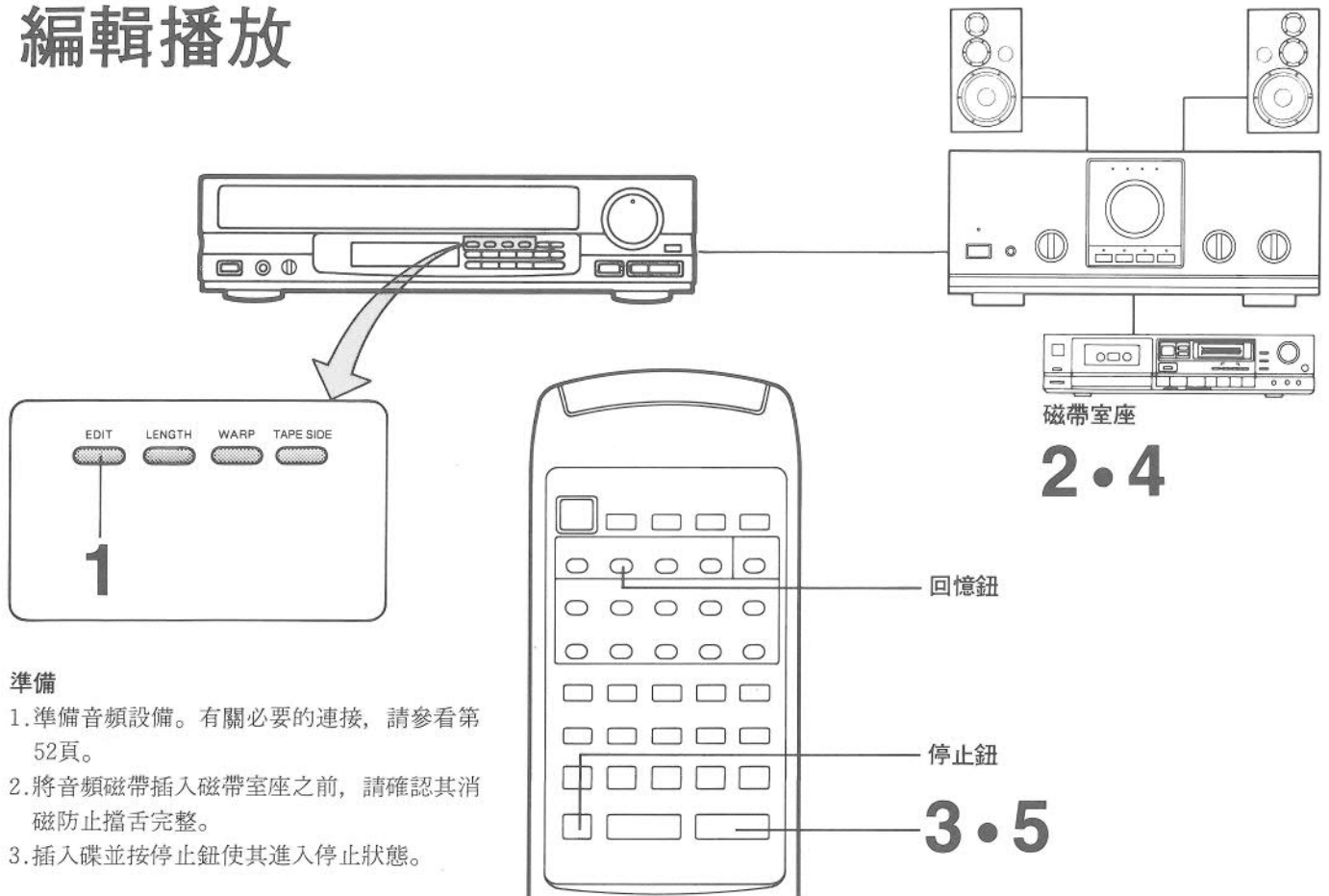
**1** 選擇了用於節目播放的希望的磁迹後，按隨機鈕。



- 當所選的用於節目播放的磁迹都按隨機順序播放完後，本機將進入停止狀態。

要停止節目隨機播放時，請按停止鈕。

# 編輯播放



## 準備

1. 準備音頻設備。有關必要的連接，請參看第 52 頁。
2. 將音頻磁帶插入磁帶室座之前，請確認其消磁防止擋舌完整。
3. 插入碟並按停止鈕使其進入停止狀態。

## 正常編輯播放[CD]

將 CD 碟的內容複製到一盒音頻磁帶上時，多功能雷射放映機能自動計算要錄到 A 面和 B 面的曲子數目(最大 20 曲)。

### 1 按編輯鈕。

- 本機將根據碟的總播放時間，自動決定磁帶的必要長度 (46、60 或 90 分鐘)，並將曲子分為將錄製於磁帶的 A 面和 B 面的兩部分。

AUDIO 8 42:42  
EDIT  
TAPETIME 0

磁帶時間指示  
c-46  
EDIT 1 2 3 4 5 6 7 8

要錄到 A 面的  
曲子數目

A 面剩餘的  
磁帶時間

4 No. 4 1:02  
EDIT 1 2 3 4 5 6 7 8

要錄到 B 面的 曲子數目

要錄到 A 面的 曲子數目

磁帶面指示

AUDIO 8 42:42  
EDIT  
TAPETIME 46

AUDIO 8 42:42  
EDIT  
A1 A2 A3 A4  
B5 B6 B7 B8  
\* \* \* \*  
\* \* \* \*  
\* \* \* \*

### 2 使用上述指定的磁帶並使磁帶室座進入錄音狀態。

### 3 按播放鈕。

- A 面的編輯將開始。
- A 面的編輯結束後，本機將在要錄製於磁帶 B 面的第一支曲子的開始處進入暫停狀態。

SEARCH  
TRACK 1

### 4 準備磁帶的 B 面並使磁帶室座進入錄音狀態。

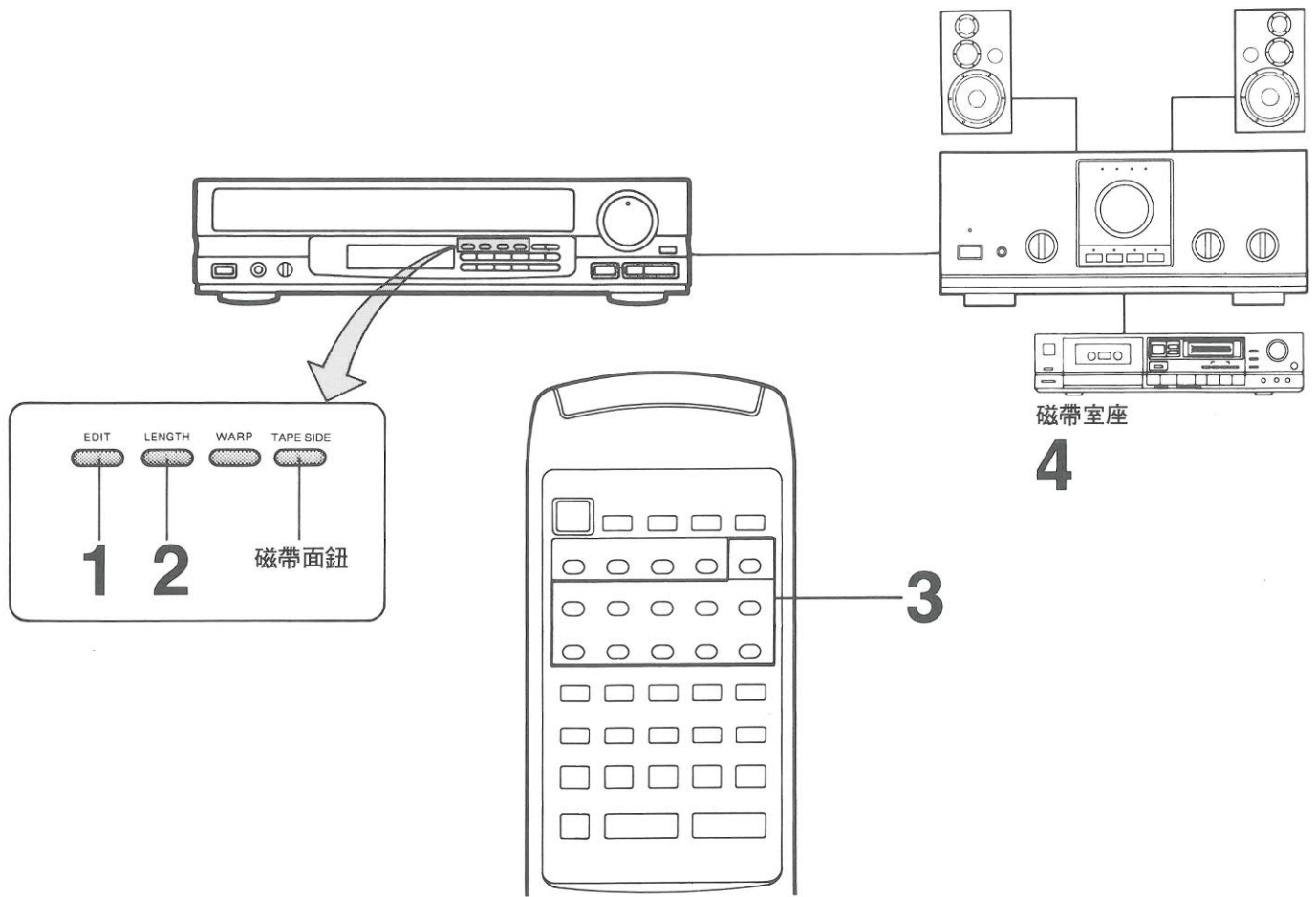
### 5 按播放鈕。

- B 面的編輯將開始。
- B 面的編輯結束後，本機將切換至停止狀態。再按一次停止鈕，編輯狀態將被取消。

要中途停止編輯時，請按停止鈕。

要確認 A 面或 B 面上編輯的曲子時，請按回憶鈕。

- 編輯過的曲子清單將顯示於電視屏幕上。大約 20 秒鐘後，清單將消失。



## 編輯播放至其它錄製時間長度的磁帶〔CD〕

指定編輯用磁帶的所希望時間長度。

例：編輯至54分鐘磁帶

**1** 按編輯鈕。

**2** 按磁帶長度鈕 (LENGTH) 數次以選擇“C-0”。

→C-46→C-60→C-90→C-0

**3** 以下列順序按數碼鈕：

“+10” → “+10” → “+10” → “+10” → “+10” → “4”

- 可指定長達99分鐘的磁帶。
- 如果您按了錯數碼鈕，則請首先按磁帶長度鈕再次選擇“C-0”，然後用數碼鈕輸入正確的磁帶時間。

在希望的磁帶時間被指定後，本機將自動計算並將曲子分為要錄製於磁帶A面和B面的兩部分。

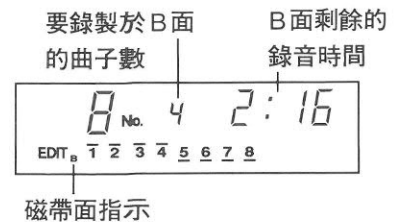
**4** 使用指定磁帶時間的磁帶，並使磁帶室座進入錄音狀態。

**5** 按左頁的步驟3至5進行操作，完成編輯播放。

注意：

取決於磁帶的長度，也許不能編輯碟上的所有曲子。

確認磁帶B面的剩餘錄音時間。

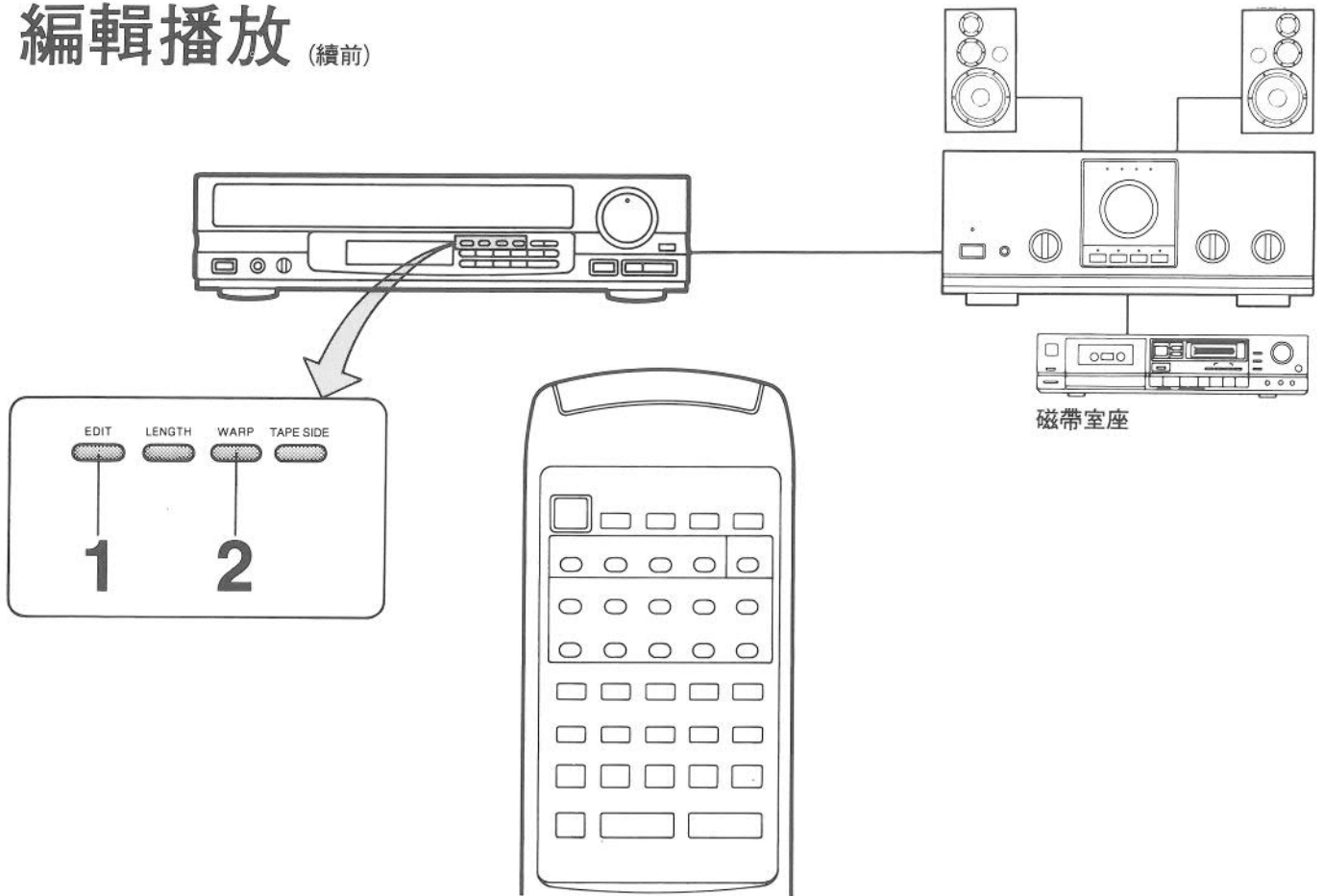


- 停止狀態時按磁帶面鈕。將顯示可確認的A面和B面的剩餘時間。

注意：

- 編輯中，除了打開/關閉（播放）鈕、停止鈕、屏幕顯示鈕、時間方式鈕、音量電平指示鈕和回憶鈕之外，其它鈕都不能操作。
- 如果指定磁帶時間的一半（例如46分鐘磁帶中的23分鐘）比碟上第一支曲子的時間要短，則該曲子將不被包含於編輯計算中。這時，請指定並使用較長的磁帶。

# 編輯播放 (續前)



## 卷繞功能 (填滿磁帶 A 面) [CD]

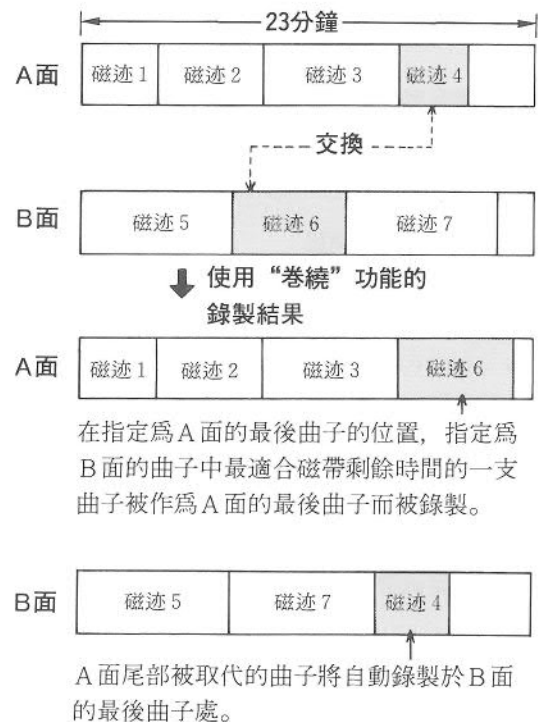
“卷繞”功能可將指定為A面的最後一曲與B面的較長的曲子更換，或將B面的一曲加至A面的尾部，以縮短A面尾部的空白和未錄音部分。

- 1 按編輯鈕。**
  - 本機將根據所有編輯曲子的總播放時間，自動決定磁帶的必要長度（46、60或90分鐘），並將曲子按編好的順序分為要錄製於磁帶的A面和B面的兩部分。
- 2 按卷繞鈕。**
  - 本機將自動從B面選擇能適合於A面剩餘磁帶時間一支曲子，然後改變曲子的錄製順序。
- 3 進行第74頁步驟 2 至 5 的操作。**

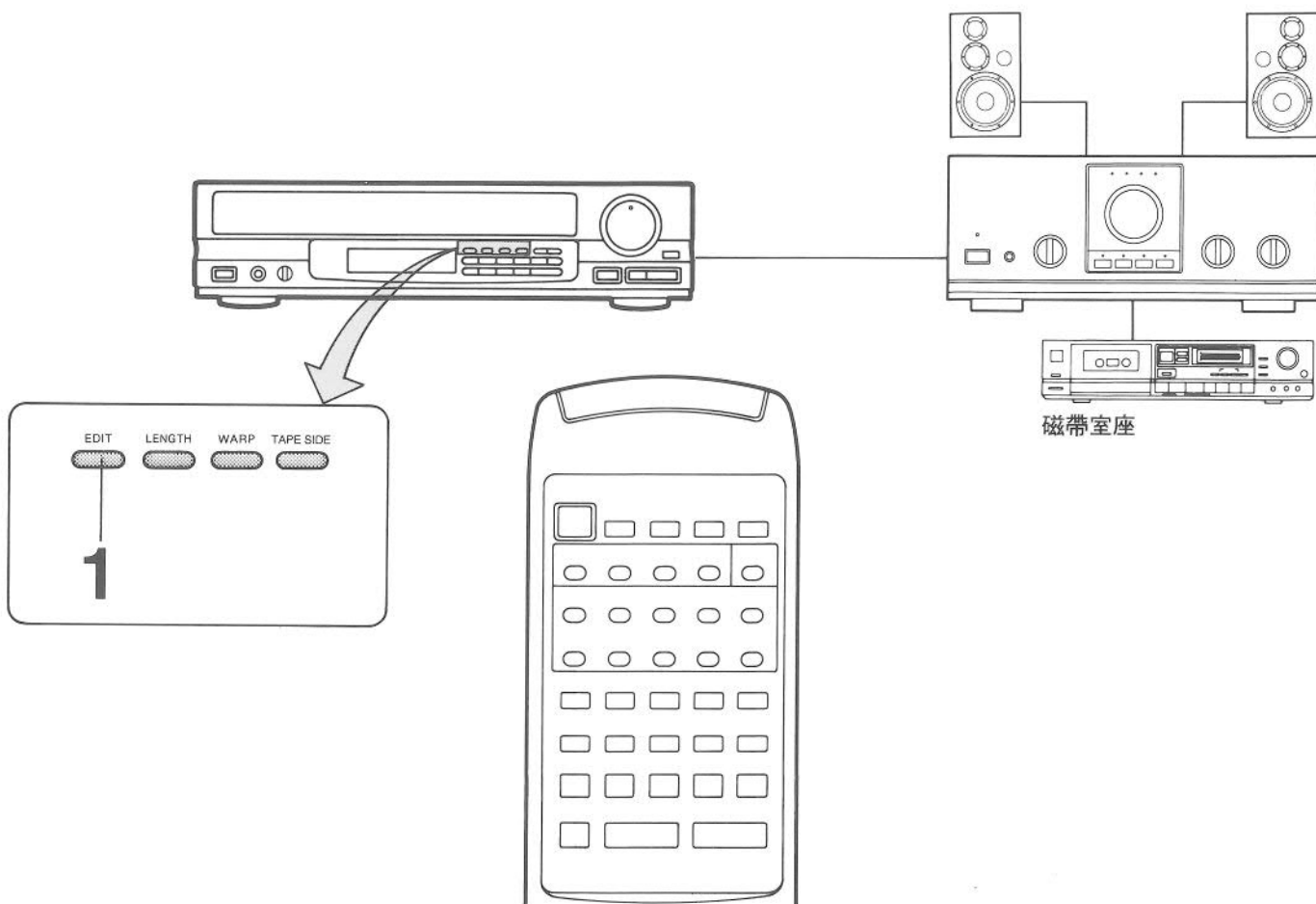
對第75頁所述的“編輯播放至其它錄製時間長度的磁帶”使用卷繞功能時，請在進行了第75頁操作步驟 3 之後按卷繞鈕。

### 卷繞功能的功能原則

例：使用46分鐘磁帶







## 節目編輯播放〔CD〕

按編排的順序將磁迹編輯於音頻磁帶。  
可編輯達20的節目。

- 1** 操作完節目播放（第71頁）的步驟後，按編輯鈕。
  - 本機將根據所有編輯曲子的總播放時間，自動決定必要的磁帶時間（46、60或90分鐘），並將曲子按編排的順序分為要錄製於磁帶A面和B面的兩部分。

- 2** 進行第74頁步驟2至5的操作。

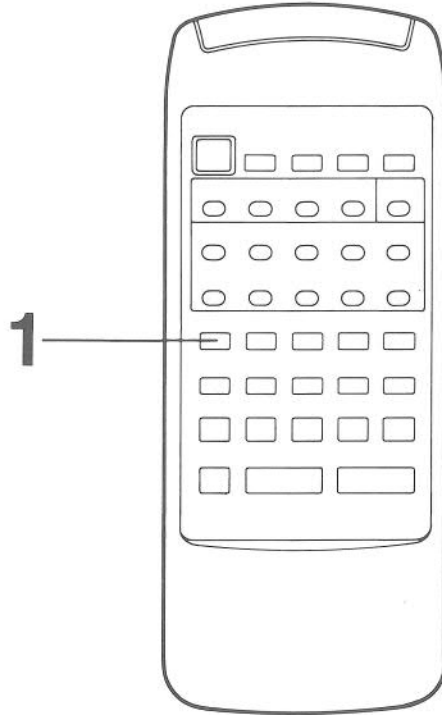
要指定其它磁帶時間時，請進行第75頁步驟2至5的操作。

**注意：**

取決於磁帶的長度，也許不能編輯所有編排的曲子。

# 重復播放

有六種重復播放功能。



## 樂章 / 磁迹重復、單面重復

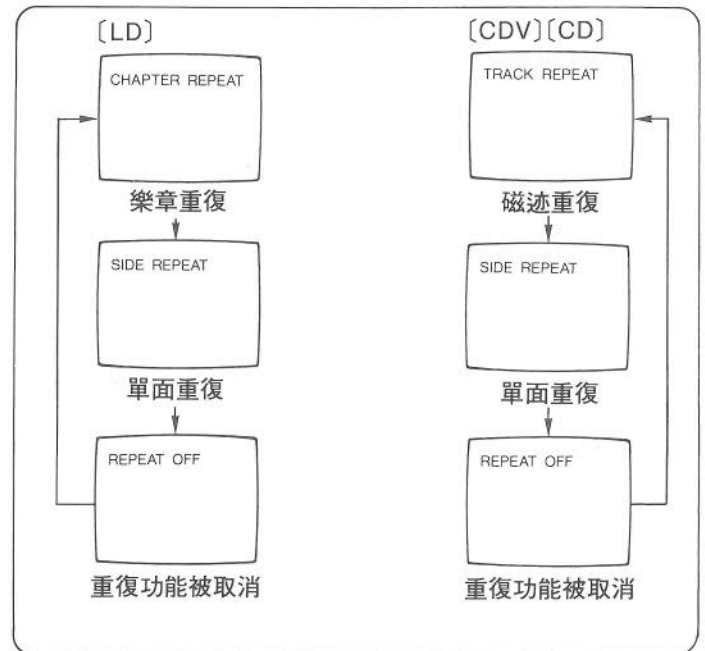
要重復欣賞正被播放的樂章時：  
樂章重復[LD]

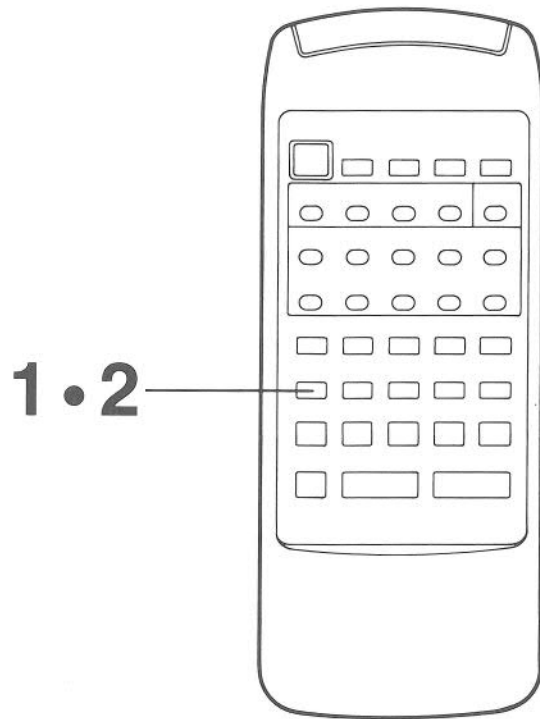
要重復欣賞正被播放的磁迹時：  
磁迹重復[CDV][CD]

要重復欣賞正被播放的整面時：  
單面重復[LD][CDV][CD]

- 1** 播放中按重復鈕，以選擇希望的重復播放方式。
- 每按一次重復鈕，重復播放方式顯示將按右圖中箭頭所示的順序發生變化。

**注意：**  
播放未錄製樂章號碼的LD碟時，按一次重復鈕會啓動單面重復播放。樂章重復不能進行。





## A-B 重復 [LD][CDV][CD]

要在指定的兩點之間重復時：

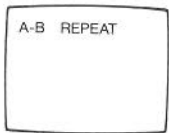
**1** 播放中，在您想開始進行重復播放的點按 A-B 重復鈕。

- 重復開始點 (A) 被記憶下來。



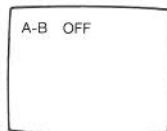
**2** 在您想結束重復播放的點再按 A-B 重復鈕。

- 重復結束點 (B) 被記憶下來，A 與 B 點之間的重復將開始。



要取消 A-B 重復播放時

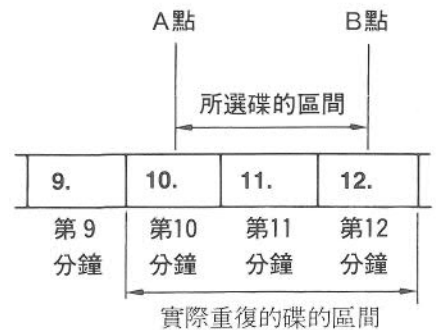
按 A-B 重復鈕使得顯示 "A-B OFF" 出現。



注意：

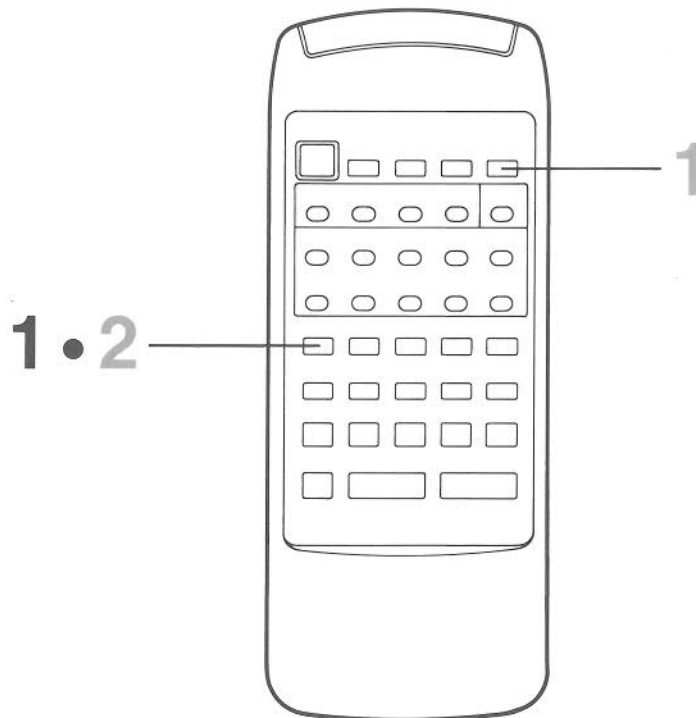
- 對於 CDV 碟，A-B 重復播放不能跨越影像和音頻部分。
- 對於長時間 LD (CLV) 碟，重復播放由碟上錄製的時間數來操作。因此，對於僅錄製了分鐘時間的碟，所選的 A-B 重復播放的開始和結束點可能與按 A-B 重復鈕的點不完全吻合。然而，這並不是故障。

例：



- 在所有“隨機播放”和“節目播放”中，不能進行 A-B 重復。
- 在第78頁所述的重復播放功能之一中如果 A-B 重復鈕被按兩次，則那一重復功能將被取消，本機將進入 A-B 重復狀態。

# 重復播放 (續前)



## 節目重復 [LD][CDV][CD]

要自動重復節目播放時：

- 1 在播放中按重復鈕。
  - 關於節目播放的操作，請參考第71頁及以後的頁。



要取消節目重復功能時，請按節目鈕。

## 隨機重復 [CDV][CD]

要按隨機順序自動進行重復播放時：

- 1 按隨機鈕。



- 2 按重復鈕。

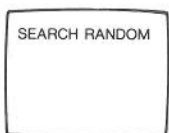


要取消隨機重復功能時，請再按一次隨機鈕。

## 節目隨機重復 [CDV][CD]

要對所選用於節目播放的磁迹按隨機順序自動進行重復播放時：  
按第71頁的方法選擇了要用於節目播放的磁迹之後。

- 1 按隨機鈕。



- 2 按重復鈕。



要取消隨機重復功能時，請再按一次節目鈕。

# 使用注意事項

爲了安全並正確操作本機、請遵守下列注意事項。

## 避免溫度的驟然變化

如果本多功能雷射放映機被突然從較冷的地方移至較熱的地方，則碟上和本機內可能會凝聚濕氣。

在下列情況下本多功能雷射放映機內可能會凝聚濕氣：

- 本機在剛打開暖氣的房間內。
- 本機在有蒸汽或高濕度的房間內。
- 本機從較冷的地方帶進充分加熱過的房間內。
- 本機從較涼爽的環境中，例如有空調的房間或汽車內，突然帶到較熱且潮濕的地方。

注意：

- 如果上述任何情況發生，請至少等待一小時再操作本多功能雷射放映機。本機不具備濕氣檢測器。
- 如果濕氣凝聚在碟的表面上，請小心用軟布擦拭。

如果本多功能雷射放映機放置在電視機旁：

播放本機時電視畫面和聲音將受到不良影響。

如果此現象發生，請將本機遠離電視機。

絕不能將指定的碟以外的物體放置於碟托盤內。

## 濕度和灰塵

避免將本機放置於高濕度或灰塵多的地方，否則將引起內部部件的損壞。

## 請勿堵塞通風孔

通風孔用來防止溫度的不正常上昇，請不要蓋住這些孔。

## 避免高溫處

請讓本多功能雷射放映機避免直接熱源，例如直射太陽熱、散熱器，或封閉的汽車內。

## 挪開磁性體

絕不要將磁鐵或磁化物體放置於本多功能雷射放映機附近，否則將對其性能產生有害的影響。

## 勿觸弄本機內部

接觸本多功能雷射放映機的內部部件很危險，可能會引起本機的嚴重損壞。請勿試圖拆卸本機，內部沒有用戶可維修的部件。

## 避免接觸水

避免讓本多功能雷射放映機接觸花瓶、水盆、水槽等。

注意：如果有液體流入本機，將引起嚴重損壞。如果您讓液體流入本機，則請洽詢專業維修人員。

## 雷擊

要避免雷擊損壞時，請從本多功能雷射放映機上或牆上拔掉交流電源插頭。

## 清掃本多功能雷射放映機

請用清潔、乾燥的布清掃本機。絕不能使用清潔劑或其他化學劑。也不要使用壓縮空氣來掃除灰塵。

## 放置

請將本多功能雷射放映機放置於水平位置，且勿在其上堆放重物。

- 本機的後部可能會變得稍熱，但屬於正常現象，並不意味著故障。

攜帶本多功能雷射放映機時，勿使其暴露在外。

## 當長時間不使用本機時

請務必取出碟，並關掉本機。

請務必拔掉交流電源線。

# 使用碟的注意事項

## 請勿使用損壞的或彎曲的碟

- 碟在機內將高速旋轉。請勿使用損壞的碟，否則會引起本機的損壞或故障。
- 如果開始播放後碟擦刮碟托盤(出現奇怪的噪音或振動)，請立即按停止鈕或打開 / 關閉鈕以停止碟的旋轉。
- 請勿使用 CD 穩定裝置。

碟以極高的速度旋轉。

因此，如果要播放有缺陷的碟例如炸裂或彎曲的碟，以及未適當放入碟托盤中合適的凹框中的碟，則非常危險。

- 絕不要使用炸裂、缺口、彎曲或用膠水或膠帶修補過的碟。



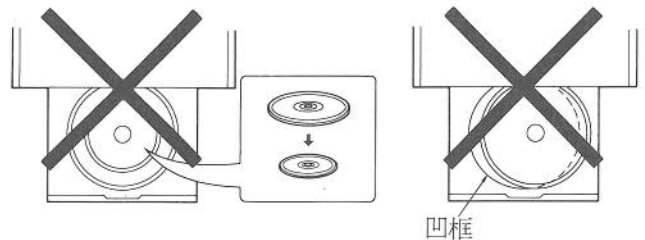
## 放置時的注意事項

- 使用完後，將碟從多功能雷射放映機中取出並小心垂直地放置於盒中。傾斜或堆放可能引起碟的彎曲。

## 清掃

- 請用柔軟、乾燥、不起毛的布擦拭碟。
- 如果表面極髒，請用柔軟、清潔的布蘸水擦拭，然後用柔軟、乾燥的布擦拭碟。
- 擦拭時，請從碟的中心向外緣移動布。  
(如果環向擦拭，則比從中心向外緣移動更會損傷碟。)

- 只能將一張碟，根據其尺寸放入碟托盤中合適的凹框中，並確保完全平整。絕不能放置兩張以上的碟或試圖播放未適當放置於碟托盤中的碟。

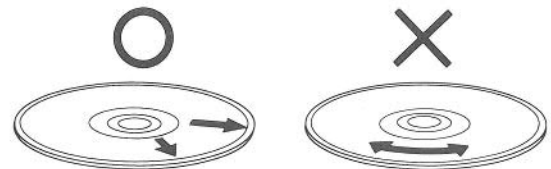


同時放置兩張碟。

在碟托盤中的放置不適當。

- 如果播放時出現異常的振動或噪音，請按停止鈕或打開 / 關閉鈕。在重新播放以前，請確認碟的放置合適且未受損傷。

- 請勿將碟放置於直射陽光下、高溫處或高濕度處。
- 請勿張貼任何標籤於碟上。  
請小心勿損傷碟。



- 請勿使用苯、稀釋劑或唱片噴霧劑。
- 請勿使用靜電防止液體或噴霧劑。

# 要求服務之前

要求服務之前，請先檢查下列各點

不正常現象	原因	修理方法
電源不通。	交流電源線未插入。	插入交流電源線。
碟托盤不出來。	電源未打開。	打開電源。
不能開始播放。 播放開始後又立即停止。	放映機內凝聚濕氣。	等到濕氣消失。
	碟的插入不正確。	正確插入碟。
	播放了未錄製的面。	播放碟的合適面。
	碟極髒。	用柔軟、清潔的布擦拭碟。
無畫面。畫面不清晰。	放映機未連接正確。	正確連接放映機。
	凝聚有濕氣。	等到濕氣消失。
	碟有缺陷或太髒。	用柔軟、清潔的布擦拭碟。
	揚聲器太靠近電視機。	將揚聲器遠離電視機。
靜止播放、靜止前進（倒轉）播放和多速播放不能進行。	播放着 CLV 碟或 CDV 碟（影像部分）。	這些特殊播放功能不適用於 CLV 和 CDV 碟。
無聲音。 聲音很難聽到。	電視機（或監視機）或立體聲設備（放大器、AV 選擇器等）的輸入選擇器的設定不正確。	正確設定輸入選擇器。
	放映機未正確連接至立體聲設備。	正確連接放映機。
	電視機（或監視機）或立體聲設備聲音電平調得太低。	正確調整聲音電平。
	正在進行暫停播放、或靜止播放、或靜止步進（倒轉）播放。	在暫停、靜止播放和靜止步進（倒轉）播放時無聲音播出。
	正在進行多速播放。	僅在正向播放時才有聲音播出。
	碟有缺陷或太髒。	用柔軟、清潔的布擦拭碟。
	放映機內凝聚有濕氣。	等到濕氣消失。
遙控器失效。	遙控器未對準放映機的紅外線接收窗。	將遙控器對準紅外線接收窗。
	距離太遠（距離放映機 7 公尺（23 英尺）以上。）	在距離放映機 7 公尺（23 英尺）內操作。
	遙控器與放映機之間有障礙物。	挪開障礙物。
	電池耗盡。	更換新電池。
	電池極性（+，-）放反。	正確插入電池。

# 對應各種碟的可能功能

● 功能具備

\* 僅適於錄製有樂章號碼的碟。

— 功能不具備

可能功能	碟 型					頁 次
	LD		CDV		CD	
	標準碟 (CAV)	長時間碟 (CLV)	影像十 音頻部分	音頻部分		
正常播放	●	●	●	●	●	56
從停止位置重新開始播放	●	●	—	—	—	56
從希望的位置重新開始播放	●	●	●	●	●	57
正向 (反向) 播放	●	●	●	●	●	63
靜止播放	●	—	—	—	—	64
靜止前進和靜止倒轉播放	●	—	—	—	—	64
播放速度和方向的改變	●	—	—	—	—	65
每一樂章 (磁迹) 開始處大約10秒的播放	●	●	—	—	●	66
隨機順序的自動播放	—	—	●	●	●	66
跳越至希望位置	*	*	—	—	—	67
直接找到希望位置	*	*	—	—	—	67
直接找到希望的幀	●	—	—	—	—	68
利用播放時間直接找到希望的畫面	—	●	—	—	—	69
跳越至希望的曲子	—	—	●	●	●	70
直接找到希望的曲子	—	—	●	●	●	70
按編排的節目順序播放	*	*	●	●	●	71
節目播放中跳越至下一編排的樂章 / 磁迹	*	*	●	●	●	73
每一編排好的樂章 / 磁迹開始處大約10秒的播放	●	●	—	—	●	73
隨機自動播放編排好的磁迹	—	—	●	●	●	73
將磁迹編輯至46、60或90分鐘磁帶	—	—	—	—	●	74
將磁迹編輯至其它時間長度的磁帶	—	—	—	—	●	75
按編排的順序編輯	—	—	—	—	●	77
當前樂章 / 磁迹的重復播放	*	*	●	●	●	78
正被播放的面的整面重復播放	●	●	●	●	●	78
兩特定位置的重復播放	●	●	●	●	●	79
按編排的順序重復播放	*	*	●	●	●	80
隨機自動重復播放	—	—	●	●	●	80
編排好的磁迹順序的隨機重復播放	—	—	●	●	●	80



# 規格

您的安全信息。

電源：	交流110伏, 127伏, 220伏, 240伏, 50-60赫茲
功率消耗：	32瓦
電視制式：	NTSC
規格：	雷射影像碟系統、帶影像的小型碟和小型碟、數碼音頻系統
重量：	8.1公斤
尺寸：	430(寬)×113(高)×400(深)mm (不包括突出部分)
操作溫度：	+5 ~ +35°C
操作濕度：	5 ~ 90% (不得有濕氣凝聚)
可使用的碟：	(1) 雷射影像碟 12英寸(30公分)長時間碟(CLV) 1800~600轉/分 兩面播放時2小時(最大) 12英寸(30公分)標準碟(CAV) 1800轉/分 兩面播放時1小時(最大) 8英寸(20公分)長時間碟(CLV) 兩面播放時40分鐘(最大) / 單面播放時20分鐘(最大) 8英寸(20公分)標準碟(CAV) 兩面播放時28分鐘(最大) / 單面播放時14分鐘(最大) (2) 小型碟 5英寸(12公分)碟 500~200轉/分 單面播放時74分鐘(最大) 3英寸(8公分)碟 500~300轉/分 單面播放時20分鐘(最大) (3) 帶影像小型碟 影像部分 2700~1800轉/分 單面播放時5分鐘(最大) 音頻部分 500~300轉/分 單面播放時20分鐘(最大)
影像信號輸出電平：	1V <sub>p-p</sub> (75歐, 同步負載時)
S 影像輸出電平： (Y/C分離信號輸出)	Y輸出 / 1V <sub>p-p</sub> (75歐, 同步負載時) C輸出 / 0.286V <sub>p-p</sub> (75歐)
音頻信號輸出電平：	(1) 數碼音頻輸出電平200mV <sub>rms</sub> (1千赫, -20分貝) (2) 模擬音頻輸出電平200mV <sub>rms</sub> (1千赫, 調制40%)
數碼音頻信號輸出特性：	(1) 頻率響應： 4赫茲~20千赫(EIAJ) (2) 信號/噪聲比： 101分貝(EIAJ) (3) 動態範圍： 94分貝(EIAJ) (4) 顫動抖晃率： 測不出 (5) 總諧波畸變： 0.006%(EIAJ)(1千赫)
耳機輸出電平：	32歐(30毫瓦), 阻抗：8歐以上







Printed in Japan

日本印刷

VQT4347

F0691Y0-1000©



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