

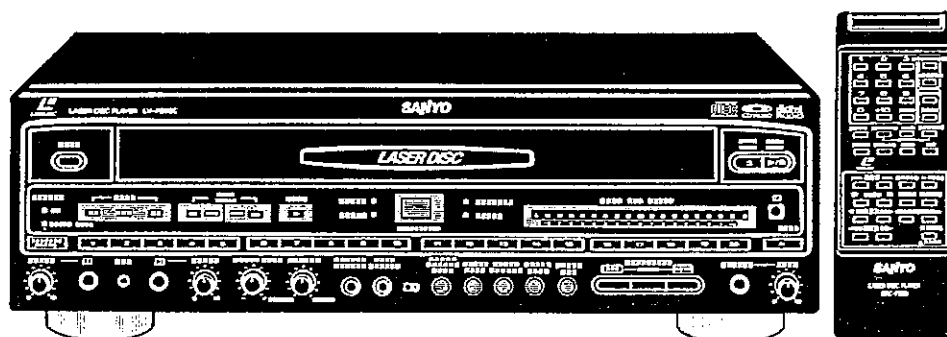
# INSTRUCTION MANUAL

# SANYO

## LV-P500E

### Laser Disc Player

**NTSC**



This unit only plays discs with symbols indicated below. Please note that VHD system video discs cannot be used with this unit.

This unit is applicable to the NTSC television system. Please note that the discs having indications of other television systems (PAL, SECAM) cannot be used.



#### **Laser Disc**

This is a universally standardized symbol of Laser video disc.



#### **Compact Disc with Video**

A disc with this symbol on the label surface, manual, etc.

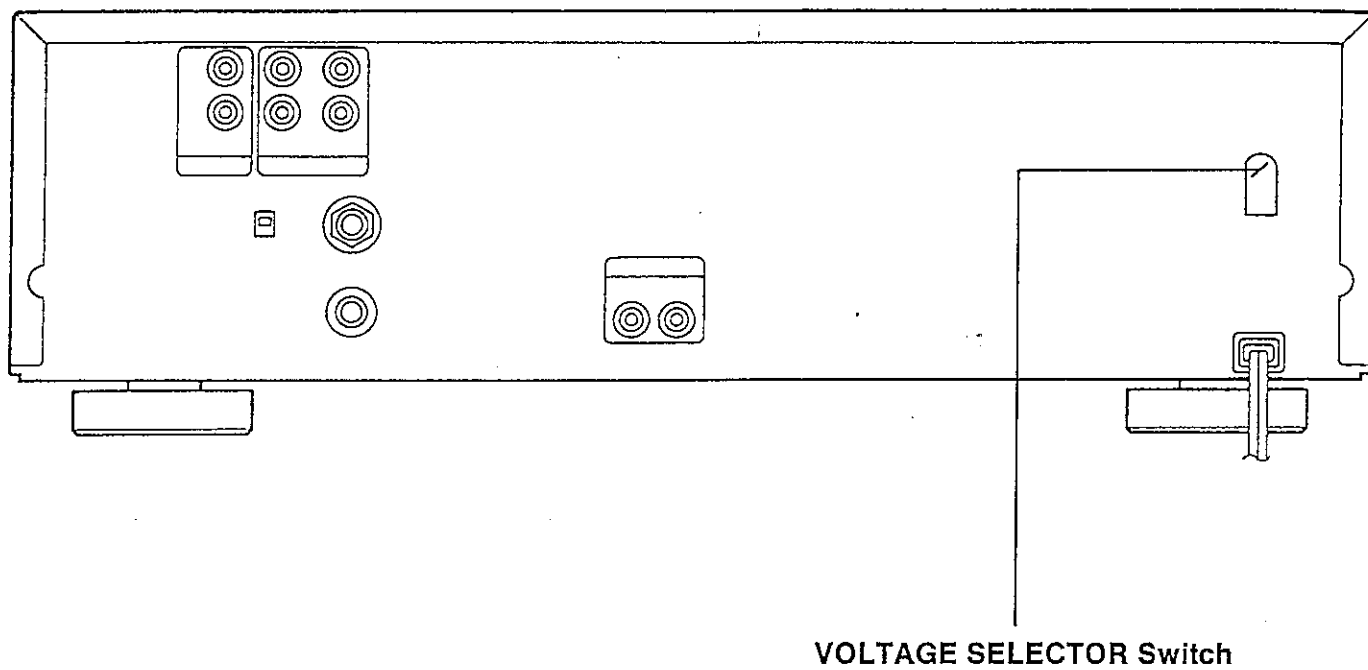


#### **Compact Disc**

A disc with this symbol on the label surface, manual, etc.

### **VOLTAGE SELECTOR Switch**

Before using the unit, set VOLTAGE SELECTOR switch on the rear panel to the voltage used in your area.  
Use a flat-blade screwdriver to switch the voltage.



### **WARNING!**

- Unauthorized recording of copyrighted material may violate applicable copyright laws. SANYO assumes no responsibility for the unauthorized duplication, use or other acts which infringe upon the rights of copyright owners.
- To avoid the hazards of fire or electrical shock, do not expose this appliance to rain or other moisture.

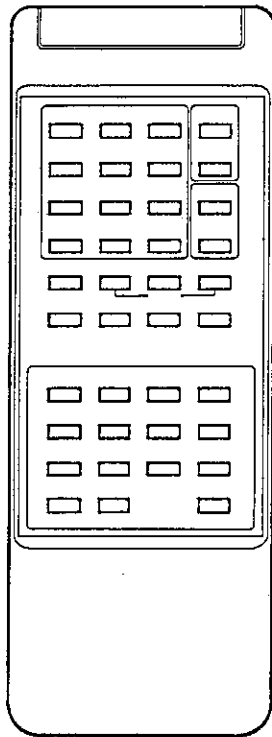
This Laser Disc Player was developed by SANYO to give you many years of enjoyment. Please read the following instructions carefully. They have been prepared to assist you during the initial set-up procedure and to assure you of optimum performance at all times.

The warranty on this unit does not cover damage caused by mishandling or misuse.

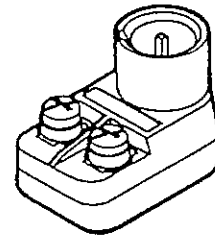
## TABLE OF CONTENTS

● ACCESSORIES .....	4
● SAFETY TIPS .....	5~6
● CONTROLS .....	7~8
● USING THE REMOTE CONTROL .....	9~10
● ABOUT DISCS .....	11~13
● TV MENU DISPLAY .....	14
● PREPARATIONS .....	15~16
● KARAOKE .....	17~25
● ENJOYING MOVIES AND MUSIC IN SUCCESSION .....	26
● VARIOUS PLAYBACK FUNCTIONS .....	27~28
● FINDING THE DESIRED SECTION .....	29~30
● REPEAT PLAYBACK .....	31~32
● PROGRAMMING .....	33~34
● CASSETTE TAPE EDITING .....	35~37
● DISPLAYING THE NUMBERS RECORDED ON THE DISC .....	38~39
● WATCHING TV WHILE PLAYING A DISC .....	40
● CONNECTIONS .....	41~44
● TROUBLESHOOTING GUIDE .....	45~46
● SPECIFICATIONS .....	47

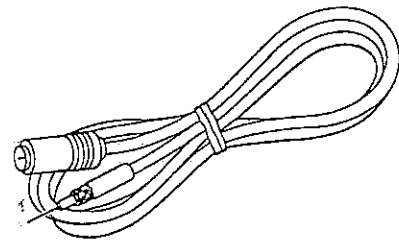
# ACCESSORIES



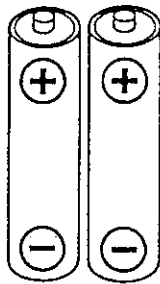
Wireless remote control



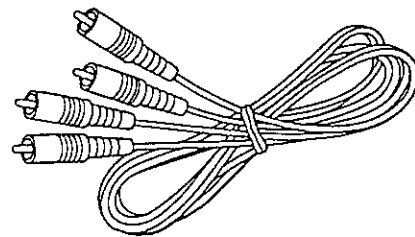
Antenna transformer



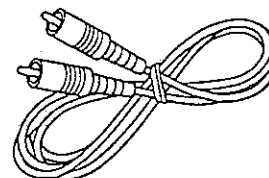
Coaxial cable



AA batteries (1.5volt)



Audio cord



Video cord

# SAFETY TIPS

## Location

- Avoid places of high temperature and humidity—such as the kitchen or bathroom, and also dusty areas.
- Do not place this unit anywhere near a cooking table or a humidifier where it will be exposed to smoke and steam as unit troubles may occur.
- Do not place this unit in an area that is directly exposed to sunlight or near heating equipment such as a stove as it will adversely affect the cabinet and component parts.
- In cases where the unit is left in a car with all doors closed or in a similar situations where the temperature is abnormally high, cabinet warping and internal troubles may occur.
- Avoid placement on wobbling or unstable surfaces. (Select a level surface.)
- Avoid places near any vibrating appliance or any area where vibration may occur. Doing so may cause unstable operation of your unit.

## Ventilation Hole

- In order to prevent internal temperature from rising, a hole in the cabinet is provided. When using this unit, caution must be exercised not to cover up this hole.
- Do not place the player in a small or unventilated place such as a book case or cover it with a table cloth or such. Do not cover up the ventilation hole by putting it on a carpet or a comforter. Also, do not rest unit on any heat generating component such as an amplifier.

## Do not place Objects On Player

- Please do not put flower vases, glasses, cosmetics, or any containers filled with pharmaceuticals, water, etc. if water spillage should occur, unplug unit and contact your nearest merchant.
- Do not place any heavy objects on the player as damage to the cabinet, and possible future problems may occur.

## Entry of Extraneous Substances

Please do not put or drop metals or combustible foreign matters through the disc lid or the ventilation hole of the player. To prevent entry of such extraneous substances, keep the disc table closed when not in use. If any foreign matters should enter, remove unplug unit and contact your nearest merchant immediately. As usage may cause fire, electrical shock or other technical problems. Extra caution should be exercised in homes with children.

## When not in Use

When not in use, always leave the disc out and the power switch OFF.

## Long Time Absence or Usage

In the case of a long time absence or usage, leave player unplugged.

## Thunder Precaution

In case of thunder, unplug unit as quickly as possible, taking care not to touch antenna.

## Cabinet Precautions

Do not remove cabinet of player, Handling the inside of unit is dangerous and may also cause additional malfunctions. For internal checks or adjustments, please inquire with your merchant's service department.

## Playback Precautions

- The disc spins at a high speed during playback. Therefore, caution must be taken not to tilt, vibrate, or shock the player or to carry it around while in the playback mode, as malfunction may occur.
- Also, the player, while in use, may cause radio interference, if placed in the near vicinity.

## Cautions for Carrying and Transportation

- When carrying the player, caution should be taken to avoid shock which may cause malfunctions.
- In case of moving or transportation, be sure to remove disc before packing. Also, be certain to remove the plug and outside connecting wires, such as antenna wires, TV connection wires, etc.

## Main Cord Protection

- Do not place heavy objects such as furniture, or carpeting, etc., on the main cords. Damaged cords may cause fire and/or electrical shocks. When any main cord is damaged, please replace at your nearest merchant.
- If main cords are located close to heating devices, take sufficient care so that cords do not come in direct contact with heating devices.
- When removing plug, do not under any circumstances pull on main cord. Hold the plug itself.

## Copyright Licensing

Duplication, broadcasting, screening, public performance, renting of discs without permission from rightful persons are strictly prohibited.

## Taking Care of Cabinet

- When taking care of cabinet, first unplug the unit.
- Do not wipe unit with benzine or thinner, etc. as the quality of surface may change or peel.
- Do not allow volatile substances such as insecticides to be sprayed on unit. Also, do not leave unit in contact with rubber, or vinyl products, etc., for a long time. Plasticizer contained in the plastic materials may cause the quality changes or peeling.
- Lightly wipe any stains on the cabinet or on the front panel with a soft cloth such as flannel. For hardened stains, soak cloth in neutral detergent, squeeze and then wipe stain with cloth and blot with dry cloth.

## Unit Problems

It is dangerous to use unit if it emits smoke or unfamiliar odors. If this problem occurs the plug unit immediately and see your merchant's repair service department.

## Dew Condensation

### About Dew Condensation

- When cold water is placed in a glass, waterdrops adhere to the surface of the glass. This is dew condensation.
- Player internal mechanisms or lenses may also condensate under certain conditions.

### How Dew Condensation Happens

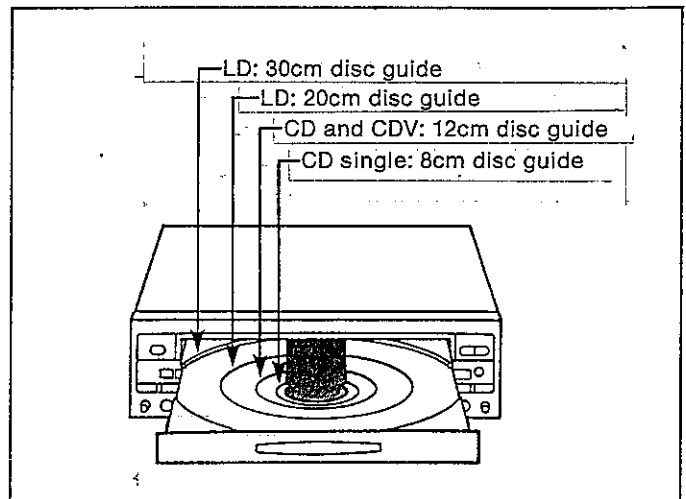
The player will condensate if it moved from a cool area such as an air-conditioned room or car into a high temperature or humidity filled room within a short time, or when the player receives a cool wind directly from a cooling device or air conditioner.

### When Condensation Occurs

A condensated player may not work as well as it should. Turn on the player and let it idle for a one or two hour period.

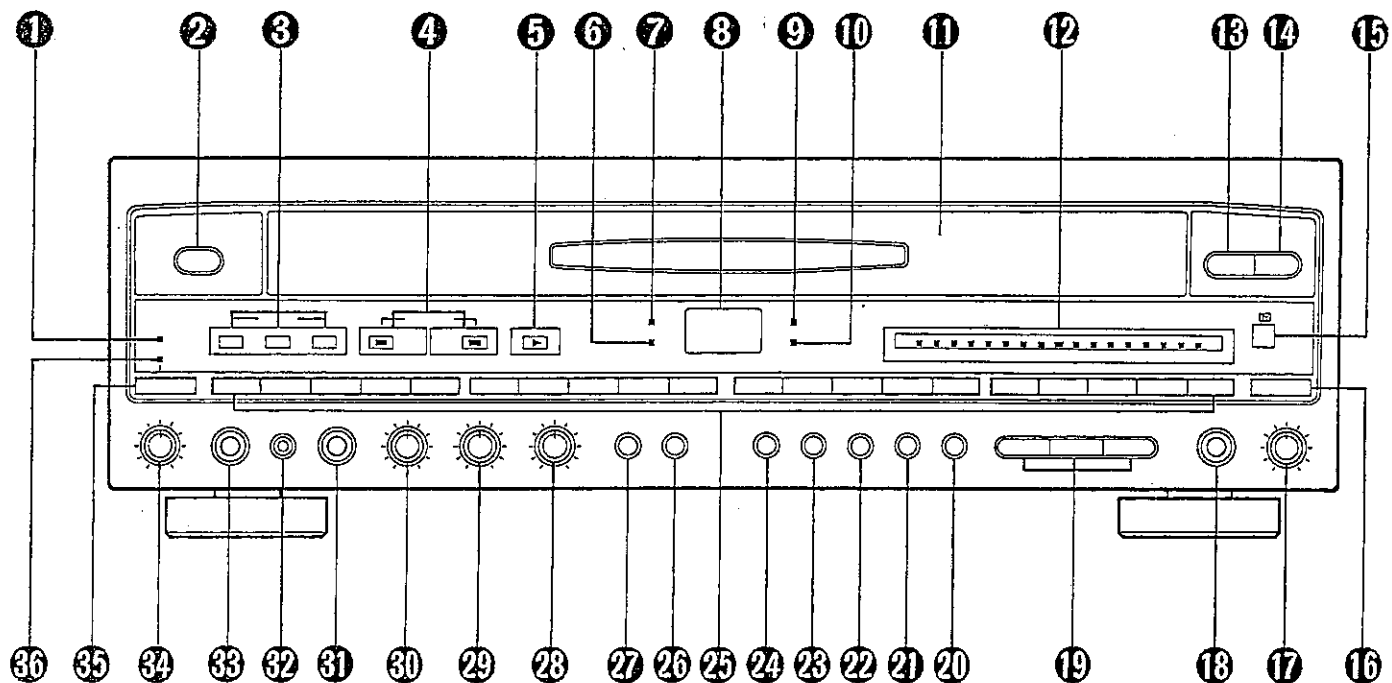
## Cautions on the Disc Tray

- Only one disc can be loaded at a time. Never set a 30cm disc on top of CD, etc.
- Do not place heavy objects on the disc tray or press down strongly on it, as this could result in damage.
- Always keep the disc tray closed except when loading and unloading discs.
- Never try to forcibly close or open the disc tray, whether during playback or in the stop mode, as this could result in damage.
- 8cm CDs can be used on this player without an adapter. Do not use an adapter.

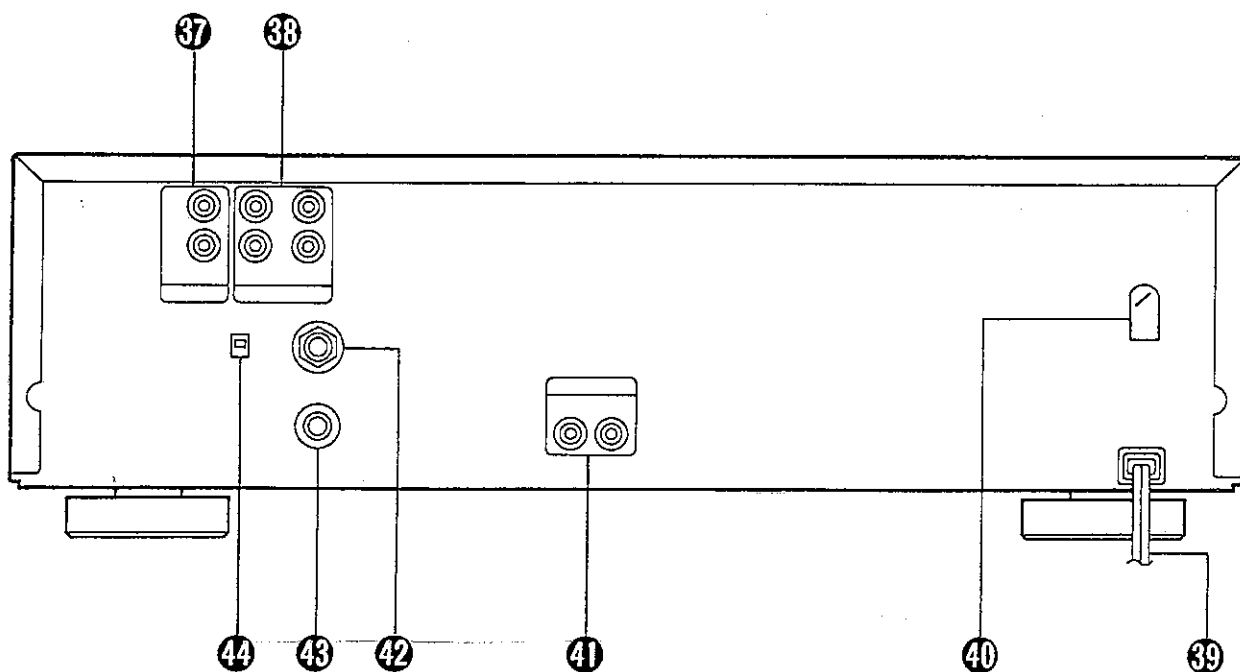


# CONTROLS

## Front Panel



## Rear Panel





## Front Panel

1. TV/DISC Indicator
2. POWER switch
3. DISC indicators

CD	Lights when a CD is playing.
CDV	Lights when a CDV is playing.
LD	Lights when an LD is playing.

- When the power is turned on, all three indicators flash, then stop flashing, remaining lit.
- When the disc tray is closed after setting a disc in it, all three indicators flash, then only one indicator lights.

4. INPUT SELECT indicators

DISC	Lights when a disc is playing.
EXT.	Lights when an external component is playing.

- The DISC indicator lights when the power is turned on.
- Press the INPUT SELECTOR button to play an external component.

5. PLAY indicator

Flashing	Preparation for disc playback.
Lit	Disc being played.

- When the power is turned on, the indicator first flashes, then turns off.

6. STEREO indicator
7. DIGITAL indicator
8. Track/chapter display  
CD/CDV: Track number  
LD: Chapter number

9. PROGRAM indicator

Flashing	Program being input.
Lit	Programmed playback.

10. REPEAT Indicator

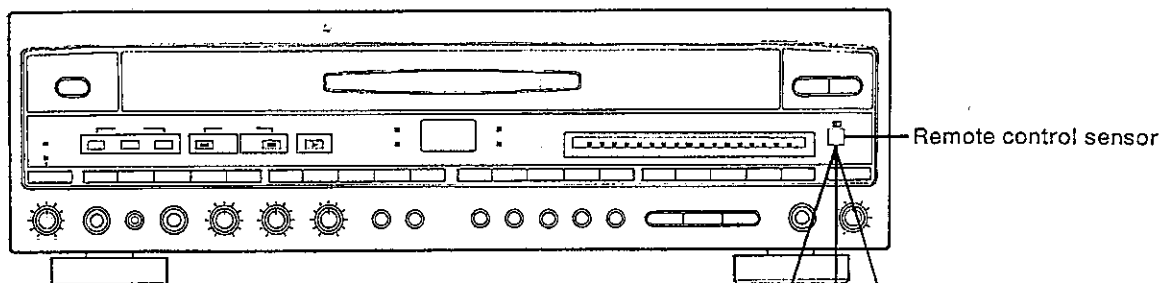
Flashing	<ul style="list-style-type: none"> <li>• Repeat mode being set.</li> <li>• Memory repeat playback.</li> </ul>
Lit	Repeat playback.

11. Disc tray
12. Key control indicators
13. OPEN/CLOSE button
14. PLAY/PAUSE button
15. Infrared sensor window
16. STOP button
17. PHONES LEVEL control
18. PHONES jack
19. KEY CONTROL buttons
20. VOCAL KEY button (with indicator)
21. VOCAL FADER button (with indicator)
22. VOCAL CHANGER button (with indicator)
23. DIGITAL SURR.(Surround) button (with indicator)
24. DIGITAL MULTIPLE AUDIO button (with indicator)
25. Direct Search buttons
26. INPUT SELECTOR button
27. DIGITAL/ANALOG button
28. BALANCE (Multiple Audio Balance) control
29. DIGITAL ECHO control
30. MIC (Microphone) 2 VOLUME control
31. MIC (Microphone) 2 jack
32. Key control jack
33. MIC (Microphone) 1 jack
34. MIC (Microphone) 1 VOLUME control
35. KARAOKE/NORMAL button
36. KARAOKE MODE indicator

## Rear Panel

37. AUDIO IN (Input) jacks
38. AUDIO OUT (Output) 1/2 jacks
39. AC power cord
40. VOLTAGE SELECTOR switch
41. VIDEO OUT (Output) 1/2 jacks
42. ANTENNA jack
43. RF OUT (Output) jack
44. CHANNEL SELECTOR switch

# USING THE REMOTE CONTROL

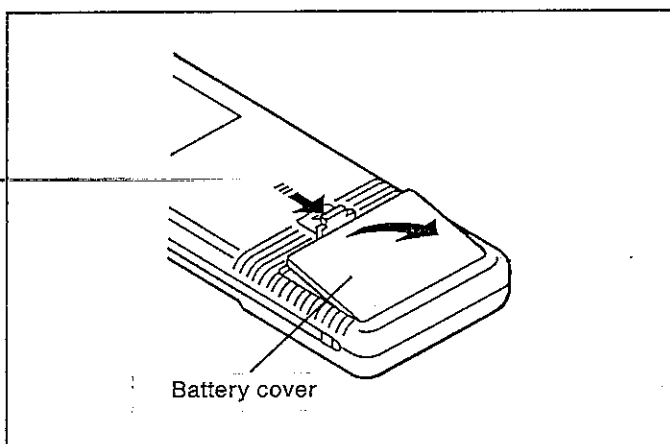


The remote control can be operated from a straight distance of approximately 7 meters, within an angle of 30° to the left or right in the horizontal direction.

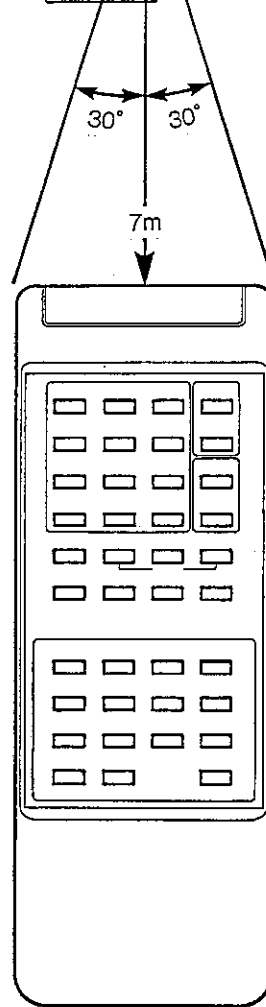
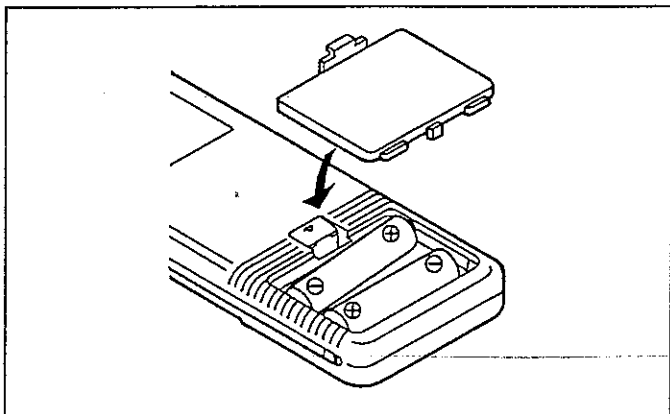
- Point the remote control straight at the remote control sensor on the main unit.
- If the remote control unit's batteries become weak, the operating distance decrease. If this happens, replace both batteries with new ones.

## Inserting the Batteries

- 1 Remove the battery cover.



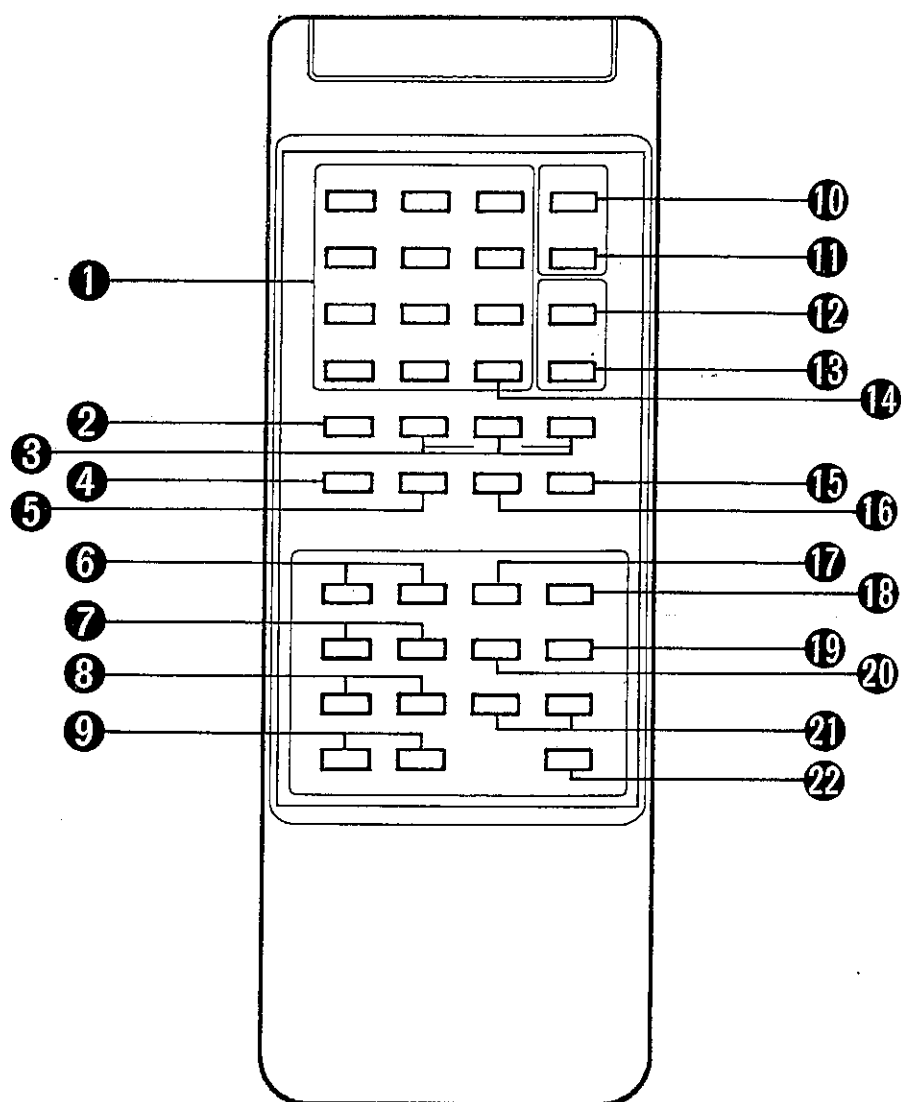
- 2 Insert two AA batteries in the proper "+" and "-" directions.



## NOTES:

The batteries may explode or leak if they are used improperly.

- When replacing the batteries, use two new batteries of the same type. Never use a new battery with an old one or two batteries of different types.
- The batteries may leak if one or more is inserted in the wrong direction.
- Remove the batteries if you do not plan to use the remote control unit for over a month.
- Do not charge, heat, disassemble or dispose of batteries in flames.



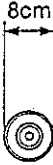
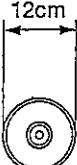
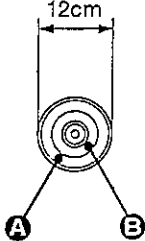
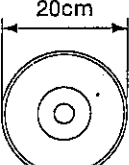
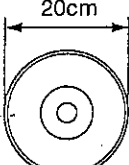
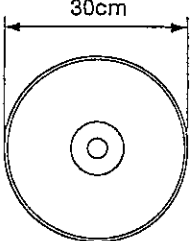






1. Direct Search buttons
2. TV/DISC button
3. REPEAT buttons
  - SIDE/RANDOM button
  - A-B button
  - CHAP/PROG (Program) button
4. DISPLAY button
5. FRAME/TIME button
6. SKIP buttons
7. SCAN buttons
8. FAST buttons
9. SLOW buttons

10. DIG (Digital)/ANA (Analog) button
11. AUDIO OUT button
12. PROGRAM button
13. MEMORY button
14. CLEAR button
15. EDIT button
16. PART button
17. RANDOM button
18. PLAY button
19. PAUSE button
20. INTRO button
21. STILL/STEP buttons
22. STOP/EJECT button

# ABOUT DISCS

The LV-P500E is a CD/CDV/LD-compatible disc player using the CD Video System. The six different types of discs shown below can be played on the LV-P500E. The type of disc is indicated on the disc's jacket or label.

- All of these discs can be played on the LV-P500E without using an adapter.
- VSDs (Video Single Discs) can also be used. VSDs are discs containing only part **A** shown below for CDVs (video + digital audio)

Disc	CD		CDV	LD		
Size	 8cm CD single	 12cm	 12cm <b>A</b> <b>B</b>	 20cm LD single	 20cm	 30cm
Max. playing time	20 minutes (one side only)	74 minutes (one side only)	25 minutes (one side only)	CAV: 14 minutes CLV: 20 minutes (one side only)	CAV: 28 minutes CLV: 40 minutes	CAV: 60 minutes CLV: 120 minutes
Recorded content	Digital audio (audio only)		<b>A</b> Video + digital audio (5 minutes) <b>B</b> Digital audio (20 minutes)	Video + digital/analog audio		
Marks						

## NOTES:

- VHD format video discs cannot be used on the LV-P500E.
- The LV-P500E conforms to the NTSC format. Discs marked PAL, SECAM or other formats cannot be used on the LV-P500E.
- The aluminum-backed discs sometimes used for professional applications cannot be used on the LV-P500E.
- Never use an 8cm CD (CD single) adapter.

## Laser Discs (LDs)

### Standard (CAV) discs: Constant rotation speed

These discs are played at a constant speed of 1800 revolutions per minute. 30cm discs have a playing time on one side of 30 minutes, and include a maximum of 54,000 frames. There is one frame per disc revolution, and each frame has a number, from 1 to 54,000.

CAV: Constant Angular Velocity

### Long-play (CLV) discs: Constant linear speed

With these discs, the speed varies from 1800 rpms when reading the signals at the innermost section to 600 rpms when reading the signals at the outermost section. On 30cm discs, the playing time on one side is 60 minutes, and the elapsed time from the beginning is recorded on the discs.

CLV: Constant Linear Velocity

### Discs with the CX mark

Discs with the CX mark offer powerful sound with little noise thanks to the CX noise reduction system. With discs including codes for turning the CX system on and off, the codes are read to turn the system on and off automatically. The CX system will only function for analog audio signals.

CX is a CBS trademark.

### Discs with digital/analog audio signals

On these discs, digital/analog audio signals are included in addition to the analog audio signals. On the LV-P500E, when a disc including digital/analog audio signals is played, the digital/analog audio signals are played with priority.

The digital/analog audio signals are sometimes recorded with a higher volume than the analog audio signals.

- When switching between the digital and audio signals, remember there may be a difference in volume level.
- When playing through an unused TV channel, use the analog audio signals.

### Multi audio discs with digital/analog audio signals

These discs contain digital and analog audio sections. The two sections are recorded with different section. The LV-P500E allows you to select either the digital or analog sound. Read the notes included with the disc.

Example of an audio recording on multi-audio discs with digital/analog audio signals

	1/L	2/R
Digital audio	background music (left)	background music (right)
Analog audio	background music	background music + vocals

### Discs with picture stop signals

Some hobby and educational discs, games, and quiz discs include picture stop signals. When these signals are reached during playback, the disc automatically stops and a still frame is shown.

## Compact Discs with Video Signals (CDVs)

These discs include 5 minutes of video signals with digital/analog audio signals along the outside tracks (video part), 20 minutes of digital/analog audio signals on the inside tracks (audio part). Normal playback begins at video part, followed by the audio part.

### LD Terminology

#### • Chapter numbers

These are numbers indicating sections of the program on the disc. Discs containing chapter numbers are so indicated on the jacket.

#### • Frame numbers

These are the numbers of each frame (picture) on the disc, and are recorded on standard (CAV) discs. These frame numbers can be used to easily find frames you want to see.

#### • Time numbers

These indicate the elapsed playing time from the beginning of the disc, and are recorded on long-play (CLV) discs. Use these time numbers to easily find the section of the disc you want to see by the time (minutes and seconds).

### CD/CDV Terminology

#### • TOC: Table Of Contents

In addition to the audio signals, all CDs and CDVs include TOC information at the beginning of the disc. This includes information on the number of tracks and playing times. Some LDs also include TOCs. Such LDs are indicated by the — — — — mark.

#### • Track numbers

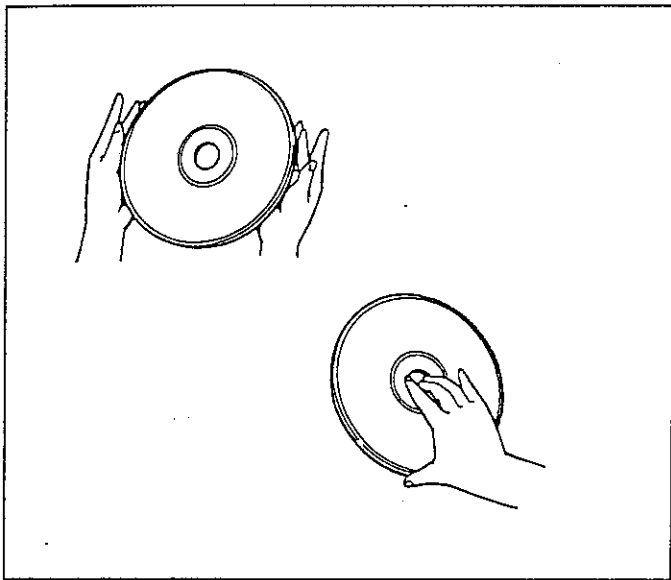
These numbers indicate different sections of the program on the disc. On CDVs, the track numbers start from the audio part and continue into the video part. These track numbers can be used to easily find the section of the disc you want to hear.

## Handling Discs

- Always keep discs clean. Dirt, scratches, warping, etc., will result in lower picture and sound quality.
- Avoid touching the surface of the disc whenever possible.

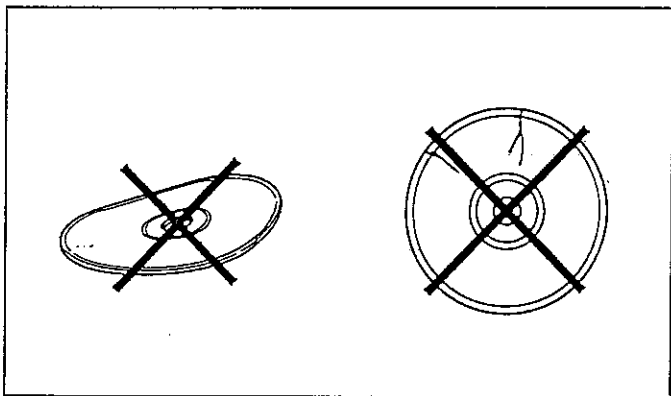
## Holding Discs

- When holding with both hands, hold the disc along the edges.
- When holding with one hand, hold the disc with one finger in the center hole and another along the edge.



## Do not use cracked or warped discs.

- The disc rotates at high speed inside the player during playback. Using cracked or warped discs, or discs on which cracks have been repaired with glue, is dangerous. Never use such discs.
- Do not stick paper or stickers on either the signal surface or labelled surface of the disc, or write on the labelled side with ball-point pens, hard pencils, etc.

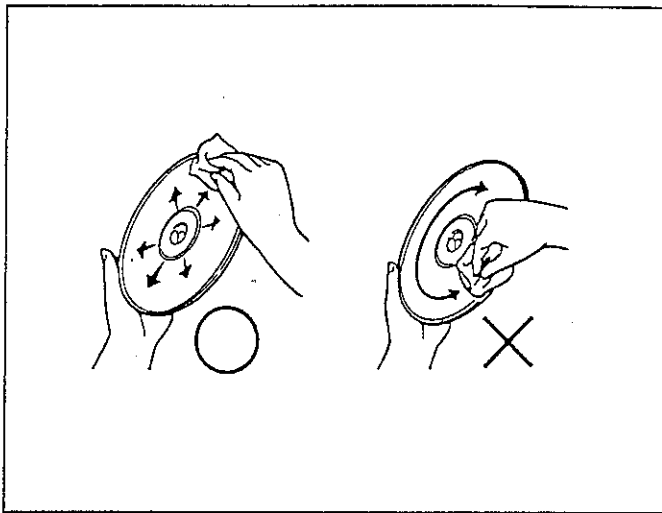


## Cleaning Discs

- Wipe dirt off from the inner side towards the outer side.
- Use a soft cloth to wipe dirt, dust, or fingerprints off the disc.

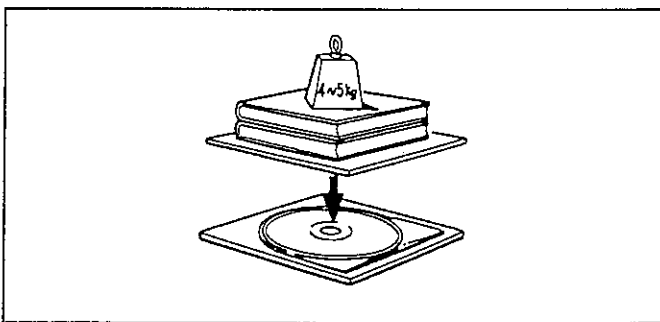
For tough dirt, apply some neutral detergent diluted with water to the cloth, wring out thoroughly, wipe off the dirt, then wipe off any moisture with a dry cloth.

- Do not use regular record cleaner, anti-static agents, or benzene, thinner or other solvents.



## Storing Discs

- After playback is finished or is stopped, always remove the discs from the player, put them in their jackets, and store them vertically in a cool, dry place.
- Discs may warp even in their jackets if they are stored on a slant or stacked one on top of another. In addition, do not leave discs in places exposed to directly sunlight.
- If a disc gets warped, put the disc in its inner pouch, set it between sheets of glass or other flat sheets, put a weight of 4 to 5kg on top and leave for one day or so. This sometimes reduces the warping.



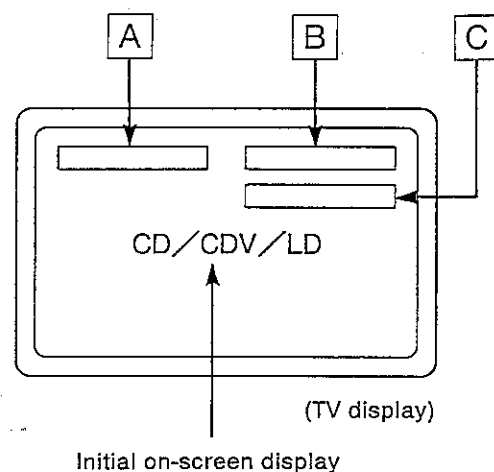
# TV MENU DISPLAY

Before playback starts, during standby, etc., the TV screen turns blue and various displays appear. It is also possible to display the operations currently performed over the picture on the screen.

	Operation	Screen Display
A	INTRO Button	INTRO
	RANDOM Button	RANDOM
B	Disc loading/unloading and playback.	DISC CHECK TOC CHECK OPEN, CLOSE PLAY, STOP
	PLAY/PAUSE button on main unit or PAUSE button on remote control unit	PAUSE
	At the end of program (e. g. fast forward).	END
	When a number not recorded in the disc is input.	NO ADDRESS
C	SCAN Button	SCAN FWD, REV
	FAST Button	FAST FWD, REV
	SLOW Button	SLOW FWD, REV
	STILL/STEP Button	STILL
	AUDIO OUT Button	1/L → 2/R → STEREO
	DIG/ANA Button	ANALOG → DIGITAL
	SIDE/RANDOM Button	REPEAT - S (SINGLE) REPEAT - R (RANDOM)
	A - B Button	REPEAT - A
	CHAP/PROG Button	REPEAT - C (CHAPTER) REPEAT - T (TRACK) REPEAT - P (PROGRAM)

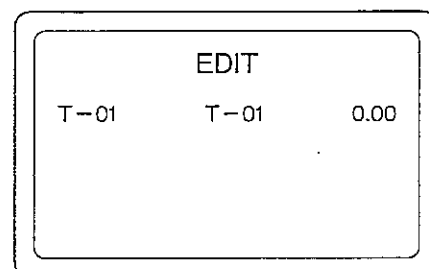
## NOTES:

- The messages are only displayed for approximately 2 seconds after the corresponding buttons are pressed.
- The on-screen display is different during the search, repeat and program modes, etc. Refer to displays on the pages describing the operations.
- Refer to page 38 for the on-screen display for the numbers, etc., recorded on the disc.
- If the power is turned off before the initial on-screen display (CD/CDV/LD) appears, "POWER OFF" flashes at the top right, then turns off. On this unit, "P" flashes then turns off.
- "PLAY FWD" appears at the upper right then turns off when returning to normal playback after forwarding or reversing or when playback starts after the pause mode.



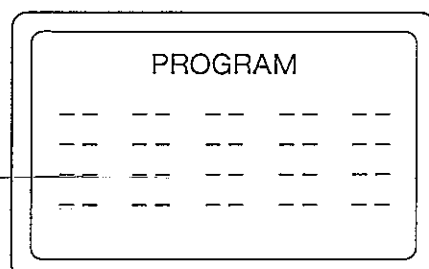
## Editing input display for CDs only

The number of tracks available for recording is displayed simply by inputting the tape recording time. Two editing operations can be input (for recording on sides A and B of a tape or for recording from a certain track).



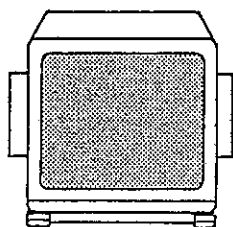
## Program input display

Up to 20 chapters/tracks can be programmed in any order.



# PREPARATIONS

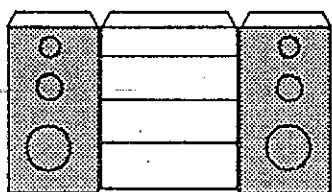
## ① Prepare the TV.



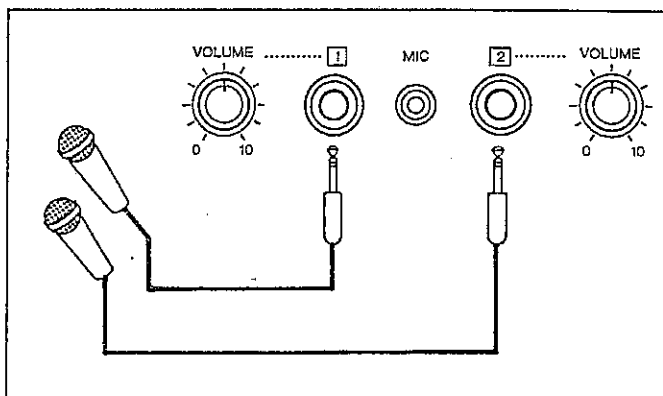
For TVs with AV jacks.	Set the TV's input switch (TV/video) to "video".
For TVs without AV jacks.	Set the TV to the video channel. Channel 3 or channel 4.

## ② Prepare the stereo system.

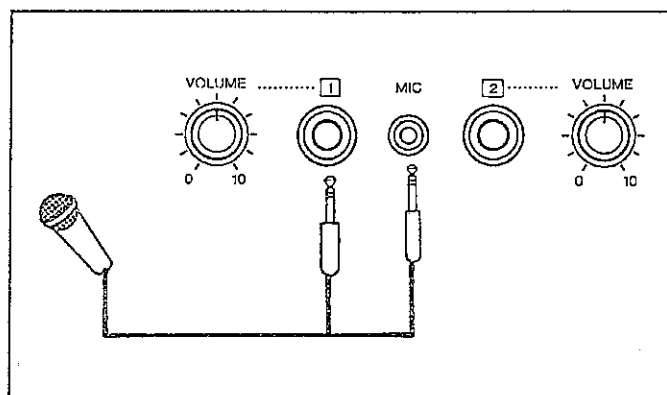
When connected to a stereo system, set the input selector switch of the stereo system to the position to select the LV-P500E ("CD", "AUX", etc.)



- ③ To play karaoke, connect microphones to the LV-P500E.
- Two standard plug microphones (with an impedance of 200 to 600 ohms) can be connected to the LV-P500E. (Microphones not supplied.)



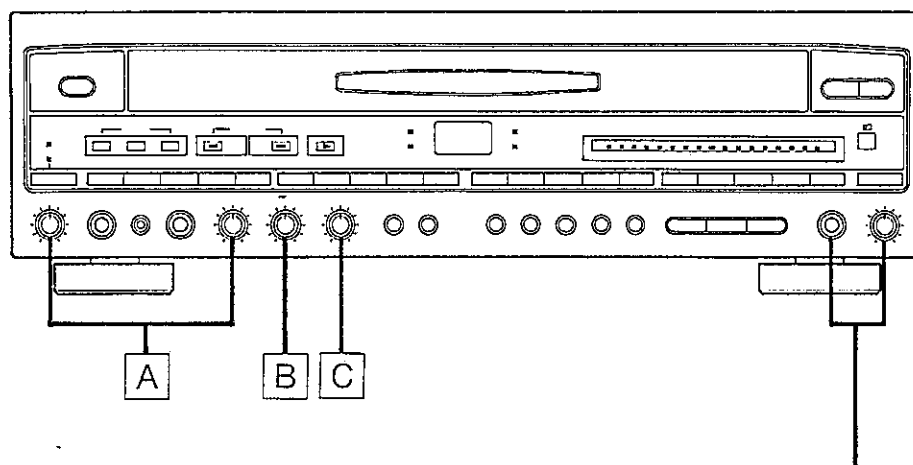
- A microphone with key control switch (KA-HM-F70) can be connected to either microphone jack, 1 or 2. The microphone's key control switch can be used to adjust the key of the karaoke accompaniment (background music). (For details, refer to the microphone's manual.)



### Connecting and disconnecting microphones

- When the LV-P500E's power is on, turn the microphone volume controls to the minimum before connecting and disconnecting microphones.
- Disconnect the microphones when not using them.

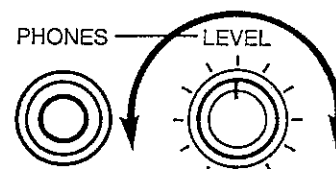




- A. MIC 1 and 2 VOLUME controls  
The volume of microphones 1 and 2 can be adjusted separately.
- B. DIGITAL ECHO control  
Use this to adjust the amount of echo for the microphones.
- C. BALANCE control  
Use this to adjust the recorded vocal when playing the analog part of a multiple audio disc.  
This control only functions when microphones are connected.

### Headphones

- Use headphones (sold separately) when you want to play discs quietly by yourself. Use the PHONES LEVEL control to adjust the volume.
- Keep the volume to an appropriate level to protect your ears. Also avoid using the headphones over long periods of time, as this can harm your ears.



### Cautions on Karaoke

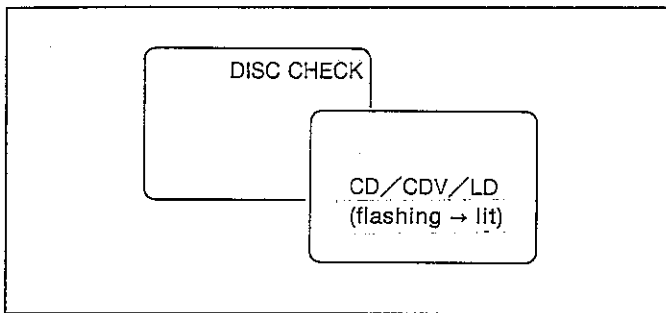
- Howling may occur if the microphone is too close to a speaker or if the volume is too high. If this happens, move the microphone away or lower the volume.
- When using a TV's speakers, noise may appear on the TV screen or be produced from the speakers if the microphone's volume is too high. If this happens, turn the microphone's volume down.
- If nothing happens when operating buttons are pressed, press the OPEN/CLOSE button and reset the disc.
- Always remove the disc and store it away after playing it.
- For multi audio CDs, the BALANCE control does not function. Use the AUDIO OUT button on the remote control unit to switch the sound.

# KARAOKE

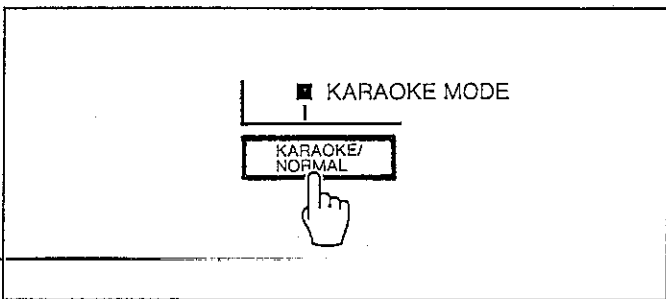
## Karaoke Using the Single-Stop Function

With the single stop function, the play pause mode is set at the beginning of each track/chapter, and "PAUSE" appears on the TV screen. This function comes in handy when taking turns in singing.

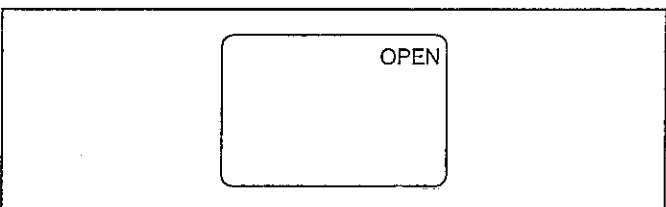
- ① Press the POWER switch.



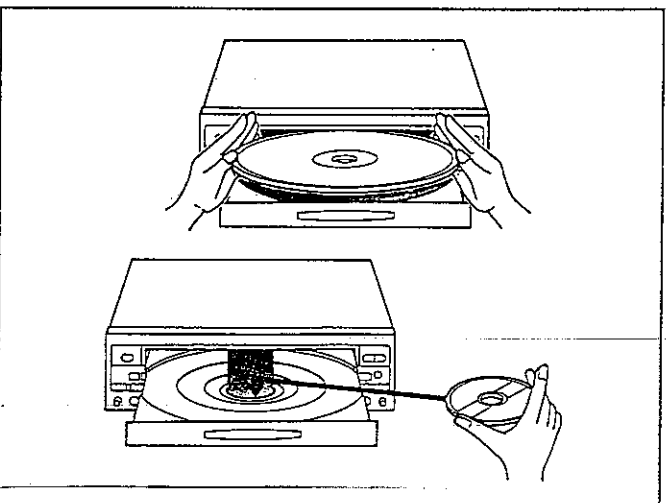
- ② Press the KARAOKE/NORMAL button to turn the indicator on.



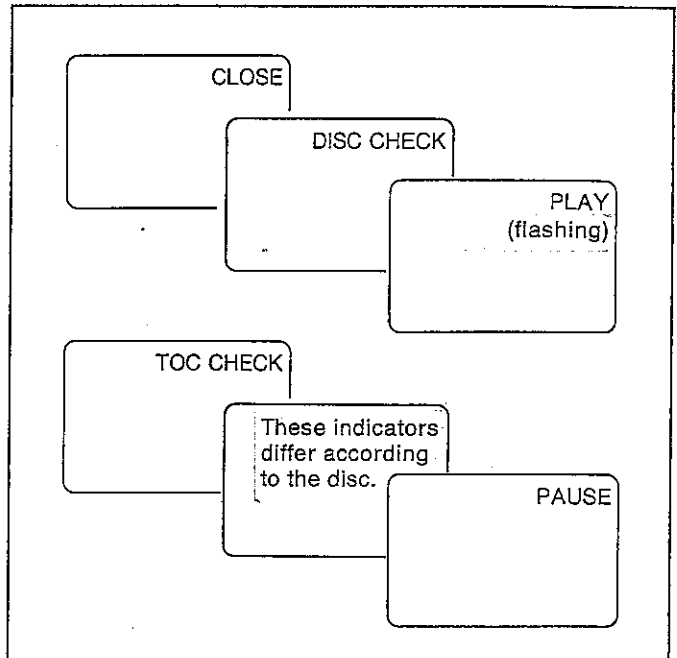
- ③ Press the OPEN/CLOSE button and open the disc tray.



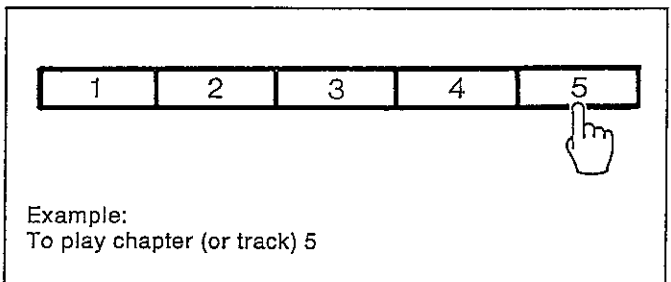
- ④ Load the disc.



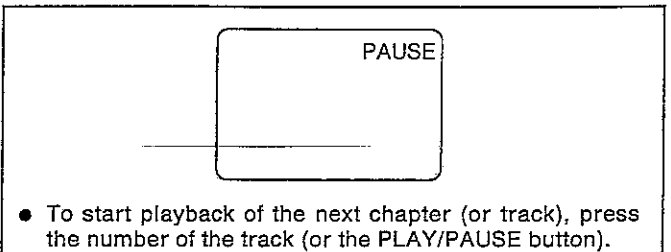
- ⑤ Press the PLAY/PAUSE (or OPEN/CLOSE) button.
  - The disc tray closes automatically and the player is set to the play pause mode.
  - "PLAY" (flashing) does not appear when playing CDs or CDVs.

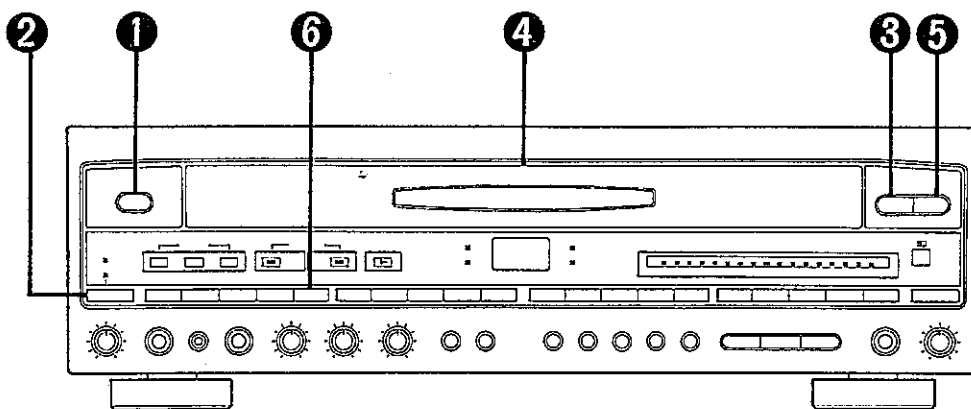


- ⑥ Press the number of the desired chapter (or track) using the direct search buttons (0~9).
  - The desired chapter (or track) starts playing.

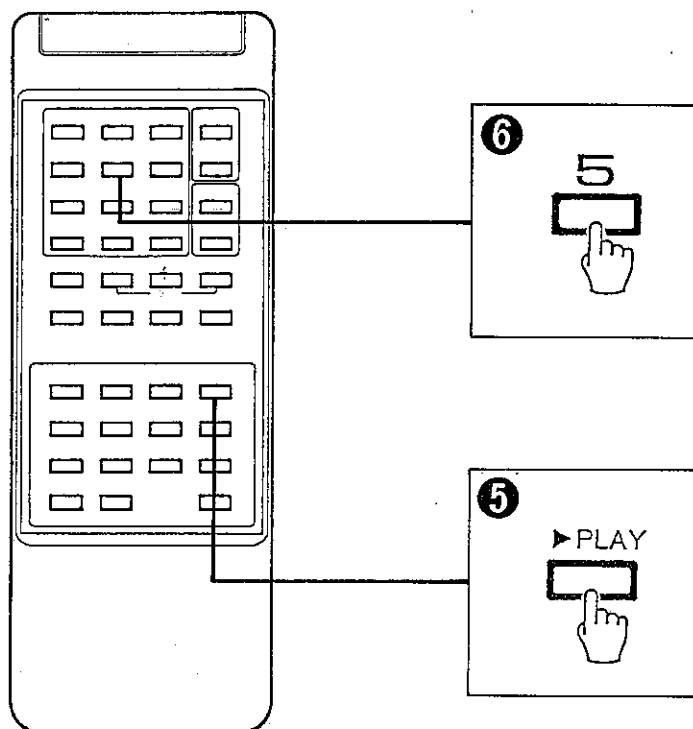
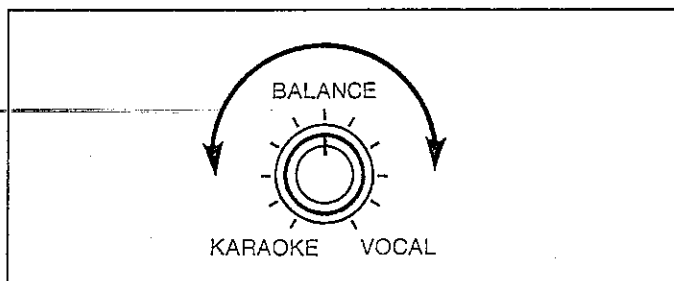


- ⑦ Once playback is finished, the play pause mode is set.



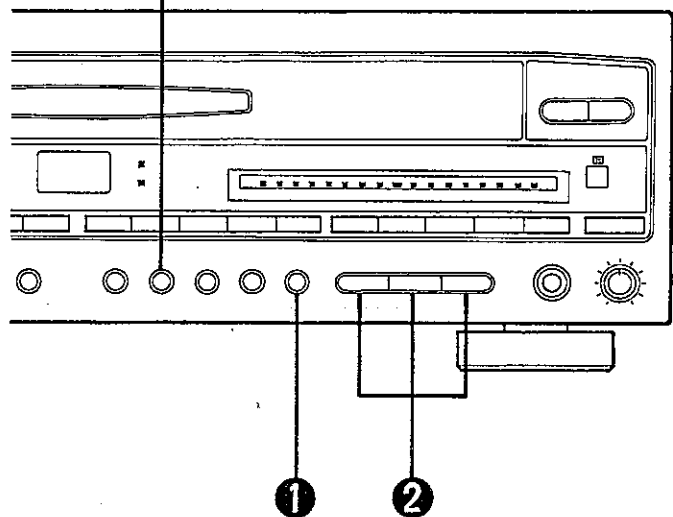
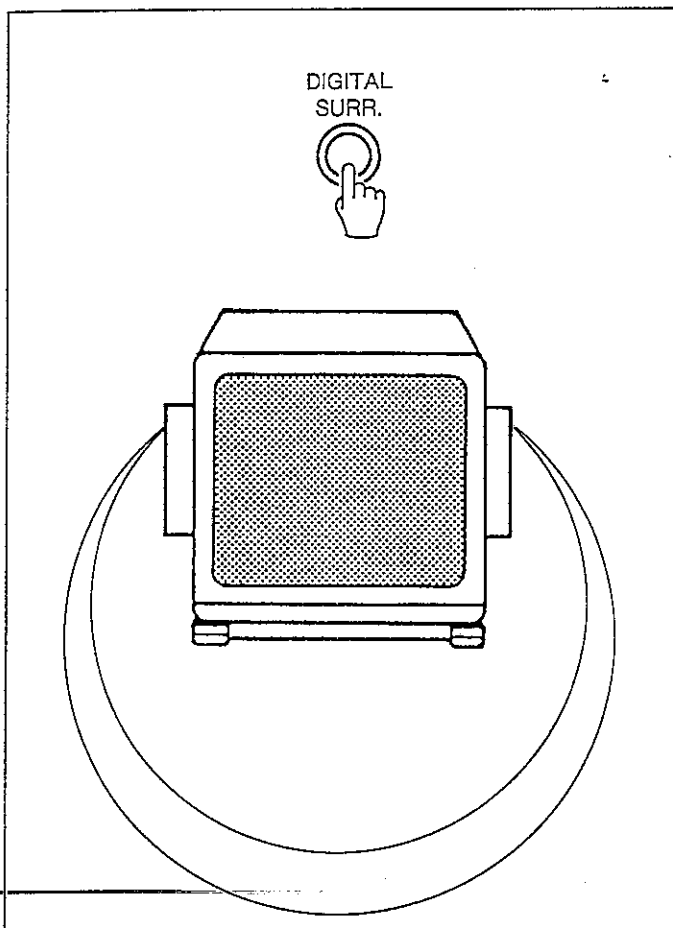


- When playback starts on multiple audio discs with digital/analog audio signals ...  
The DIGITAL indicator lights and only the karaoke accompaniment is played. To listen to the vocals, switch to the analog part (the DIGITAL indicator turns off), or turn the DIGITAL MULTIPLE AUDIO button on (the button's indicator lights), then adjust the vocals using the BALANCE control. (Refer to page 20.)
- When playback starts on analog multiple audio discs ...  
Both the karaoke accompaniment and the vocals are played, so adjust the vocals using the BALANCE control. (The DIGITAL indicator is off.)



### Adding Concert Hall Effects

Press the DIGITAL SURR. button (the button's indicator lights) to enjoy karaoke with concert hall effects.



### Adjusting the Key

The LV-P500E includes a vocal key control function so you can adjust not only the key of the karaoke accompaniment, but actually raise or lower your own voice.

**1**

To adjust the key of the karaoke accompaniment, first turn the VOCAL KEY button off (the button's indicator turns off), then press the KEY CONTROL buttons.

VOCAL KEY



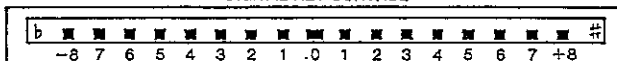
To adjust the key of your voice, first turn the VOCAL KEY button on (the button's indicator turns on), then press the KEY CONTROL buttons.

VOCAL KEY



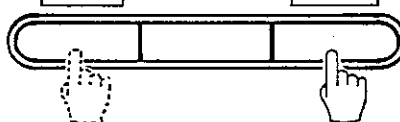
**2**

DIGITAL KEY CONTROL



KEY CONTROL

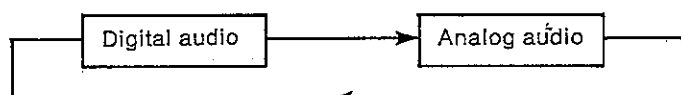
LOW ..... CENTER ..... HIGH



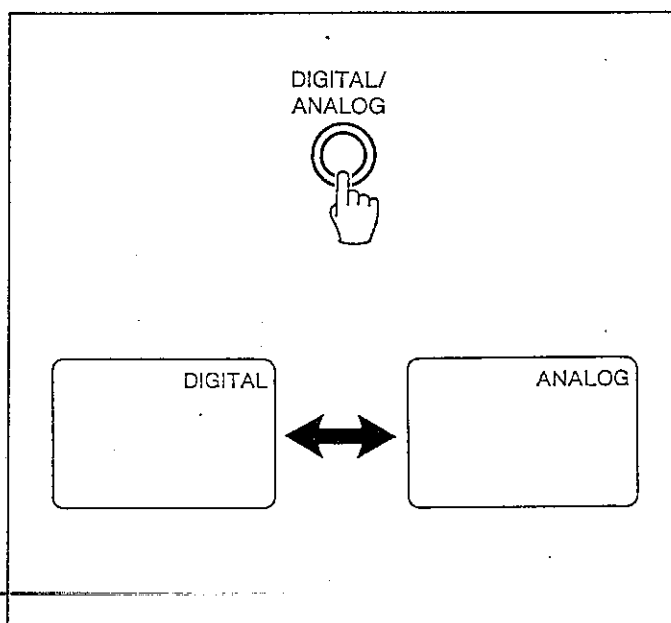
- When using a microphone with a key control switch (separately sold KA-HM-F70), the key of the karaoke accompaniment can be adjusted using the microphone's key control switch.
- In the single stop mode, the key returns to the standard key at each new track/chapter. It also returns to the standard key when the disc tray is opened or when the VOCAL KEY button is turned on and off.
- Use the vocal key control function as a device for making home karaoke sessions or parties more lively.

## Listening to the Analog Sound of Discs with Digital/Analog Audio Signals

Press the DIGITAL/ANALOG button during playback to switch the audio signals as follows:



- The "DIGITAL" indicator is displayed when digital sound is reselected.
- The DIGITAL indicator on the main unit lights when the digital audio signals are selected.

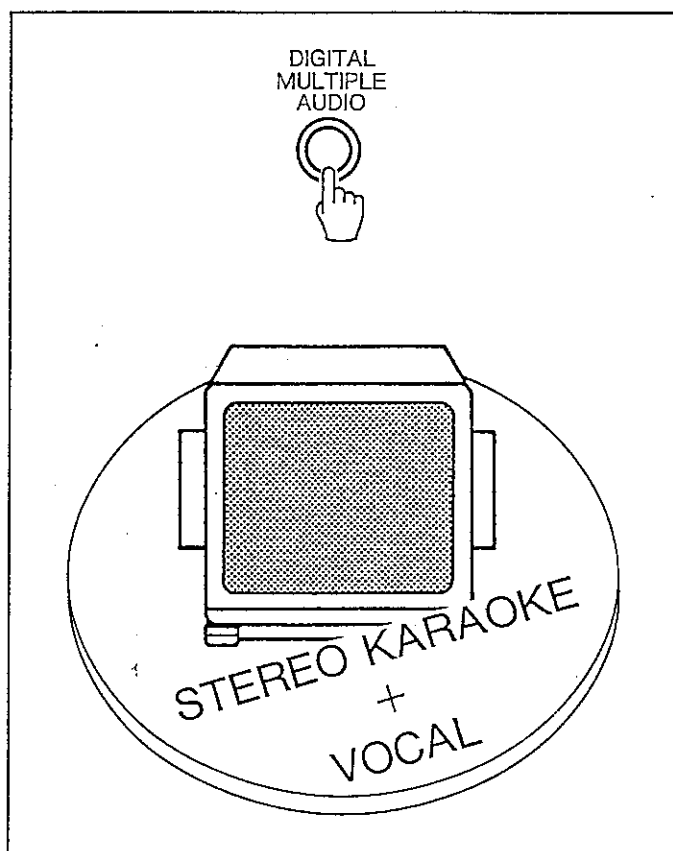


### When set to the analog mode ...

- The vocals recorded in the disc, and the volume of the vocals can be adjusted using the BALANCE control.
- The analog sound (multiple audio) can be turned on and off with the AUDIO OUT button. (Refer to page 21.)

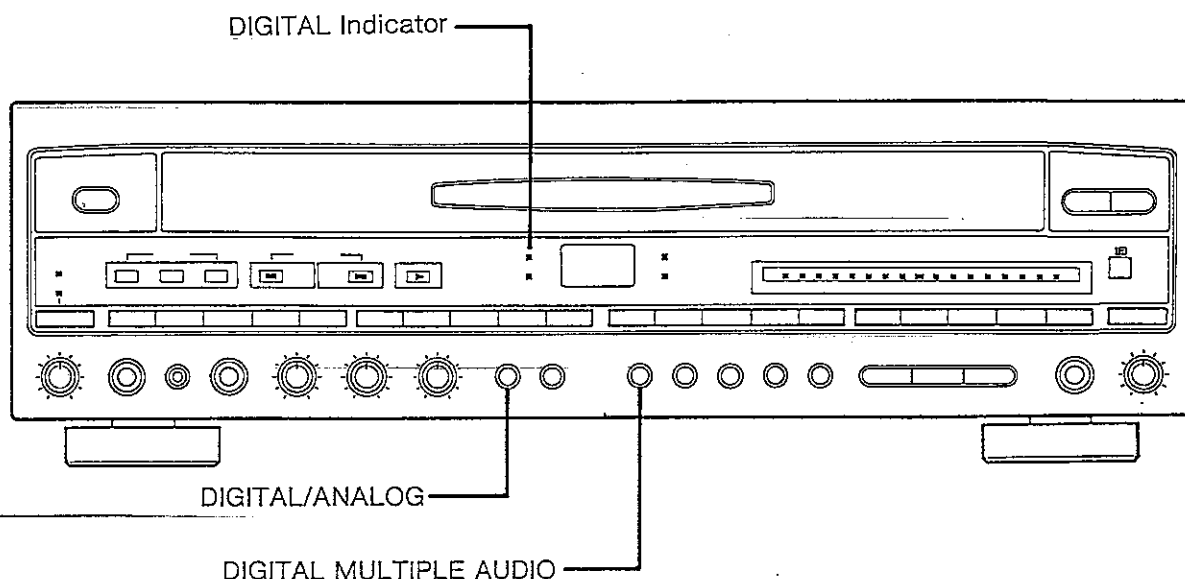
## Listening to the digital part of multiple audio discs with digital/analog audio signals

Turn the DIGITAL MULTIPLE AUDIO button on (the button's indicator lights) to listen to the recorded vocals in stereo karaoke.



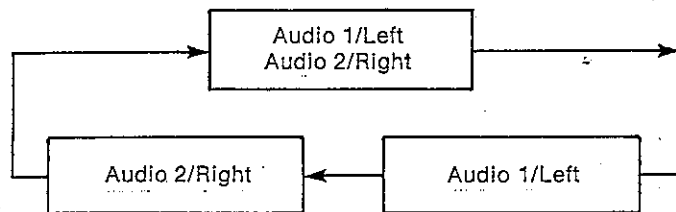
### When the DIGITAL MULTIPLE AUDIO button is turned on (the button's indicator lights) ...

- Digital sound is set (the LV-P500E's DIGITAL indicator lights) even when playing analog signals.
- The DIGITAL/ANALOG button and AUDIO OUT button do not function.
- The volume of the vocals can be adjusted using the BALANCE control.

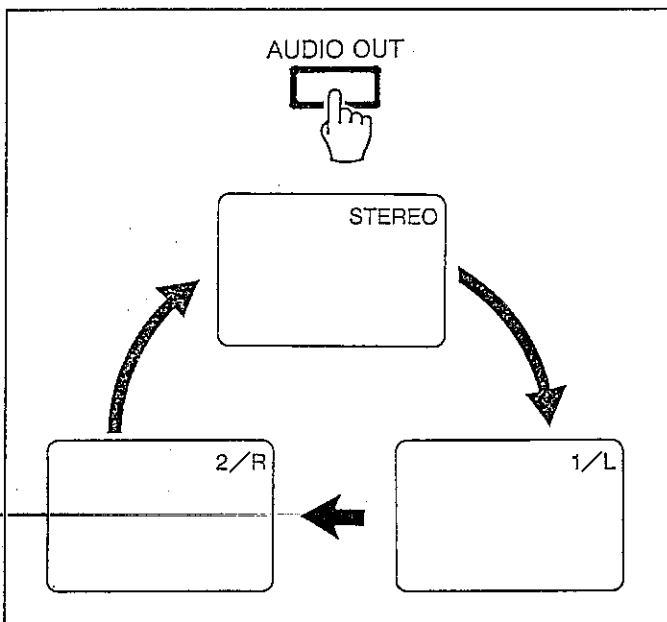


## Selecting the audio

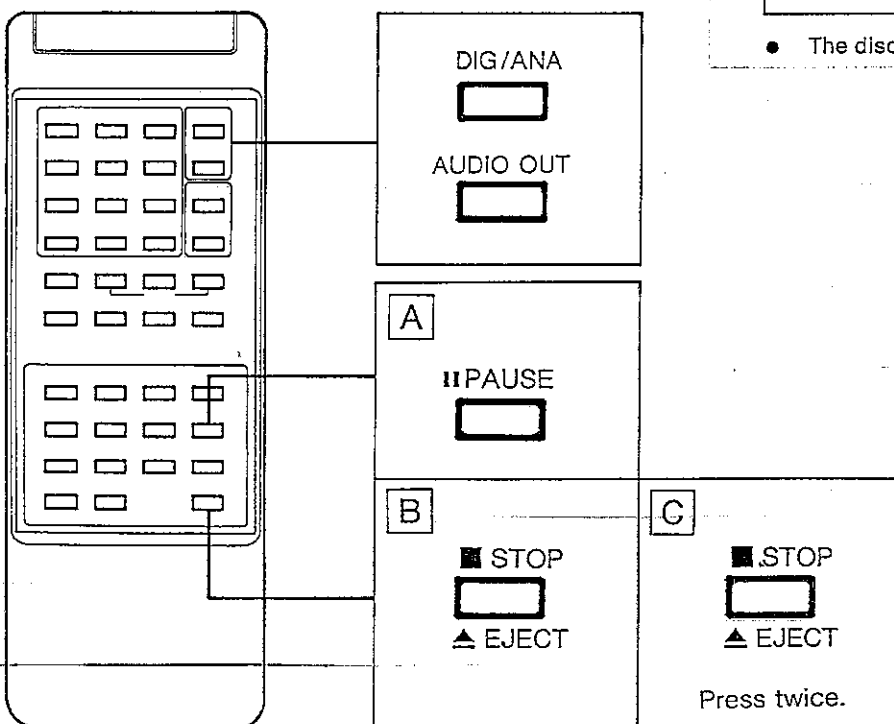
Press the AUDIO OUT button during playback to switch the audio output mode as follows:



- The "STEREO" indicator appears on the screen when stereo mode is reselected.
- When playing in stereo, the STEREO indicator on the LV-P500E lights.

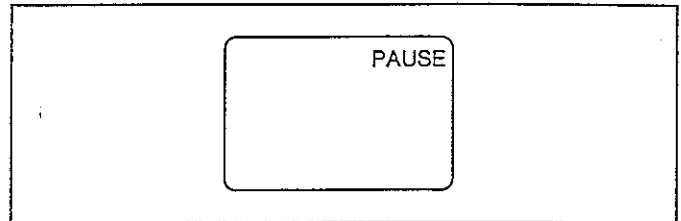


- Set the "STEREO" mode to use the BALANCE control to adjust the volume of the recorded vocals.



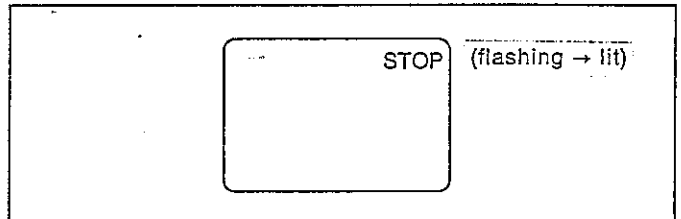
## Pausing, Stopping and Unloading Discs

- A. Press the PLAY/PAUSE button to temporarily stop playback.



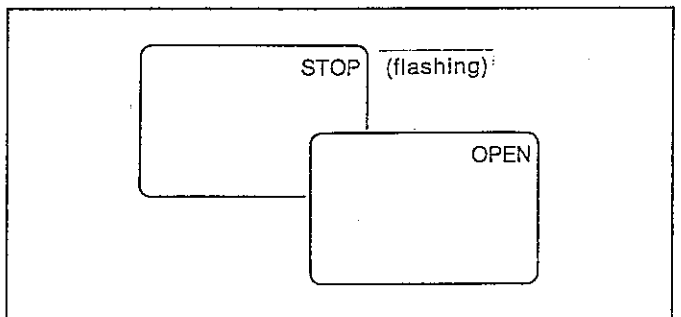
- Press the same button again to resume playback from the pause mode.

- B. Press the STOP button to stop playback.



- After stopping playback, press the PLAY/PAUSE button on the main unit (or on the remote control unit) to start playback from the beginning of the disc.

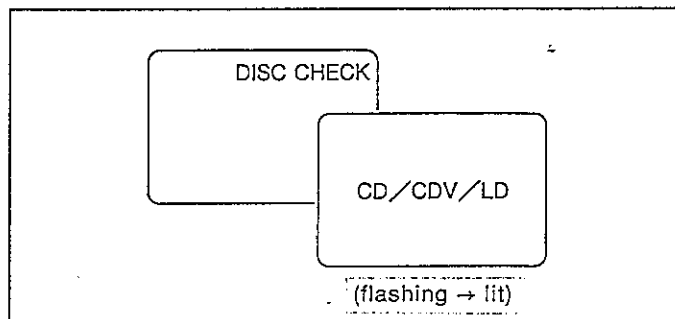
- C. Press the OPEN/CLOSE button to stop playback and unload the disc.



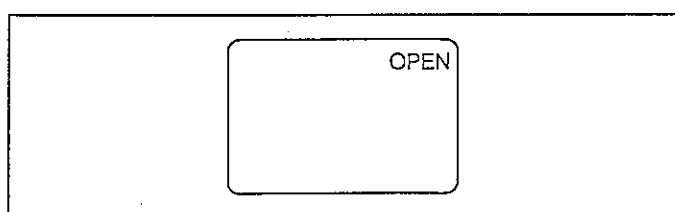
- The disc tray opens forward.

## Using the Continuous Playback of Karaoke Accompaniment

- 1 Press the POWER switch.

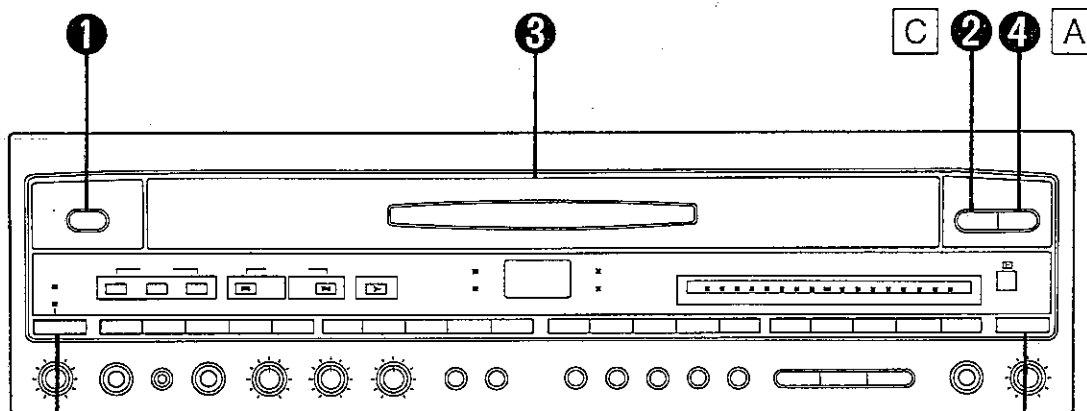
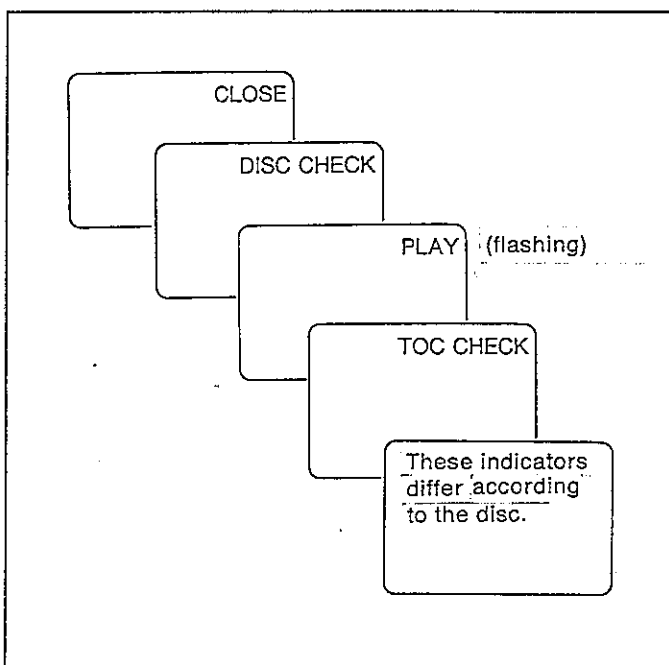


- 2 Press the OPEN/CLOSE button and open the disc tray.

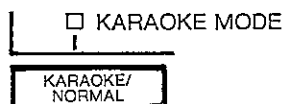


- 3 Load the disc. (Refer to page 17.)

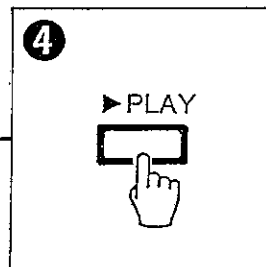
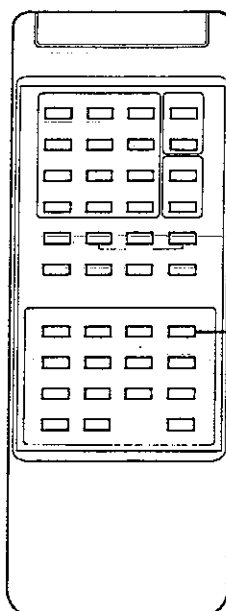
- 4 Press the PLAY/PAUSE (or OPEN/CLOSE) button.
  - The disc tray automatically closes and the play mode is set.
  - "PLAY" (flashing) does not appear when playing CDs or CDVs.



The continuous playback mode (with the KARAOKE MODE indicator off) is set automatically when the LV-P500E's power is turned on. Press the KARAOKE/NORMAL button before playback to turn it off.



- When playback starts on multiple audio discs with digital/analog audio signals, only the karaoke accompaniment is played. (Refer to page 18.)
- When playback starts on analog multiple audio discs, both the karaoke accompaniment and the vocals are played.



## Using the Vocal Changer Karaoke Accompaniment

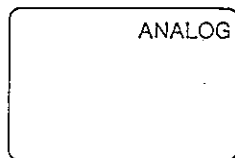
### (Replacing your voice with the recorded vocals)

- For multiple audio discs with digital/analog audio signals, select the method of playback mode.

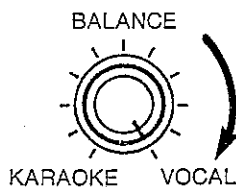
- To play with digital multiple audio signals, turn the DIGITAL MULTIPLE AUDIO button on (the button's indicator lights).



- To play with the analog audio signals, turn the DIGITAL MULTIPLE AUDIO button off (the button's indicator turns off), then press the DIGITAL/ANALOG button.



- Set the BALANCE control to the "VOCAL" side.



- Turn the VOCAL CHANGER button on (the button's indicator lights).



- Start playback, and sing over the microphone.

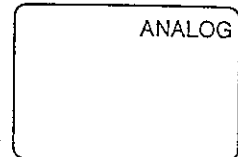
When you sing over the microphone, the recorded vocals automatically turns off, and is replaced with your voice. If you do not sing or stop singing, the voice recorded in the disc comes back on.

## Karaoke Accompaniment Using the Headphones

### (Listening to the recorded vocal while you sing)

- For multiple audio discs with digital/analog audio signals, set to the "ANALOG" mode.

Turn the DIGITAL MULTIPLE AUDIO button off (the button's indicator turns off), then press the DIGITAL/ANALOG button.



- Press the AUDIO OUT button to set to the "STEREO" mode.

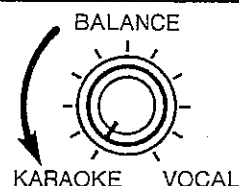


DIGITAL ■

STEREO ■

The DIGITAL indicator on the LV-P500E turns off, and the STEREO indicator lights.

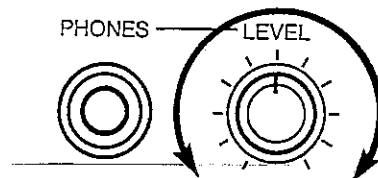
- Set the BALANCE control to the "KARAOKE" side.



- Connect the headphones.

- Start playback, and sing over the microphone.

- When headphones are connected, the analog audio signals (accompaniment + singer) can be heard. Use the PHONES LEVEL control to adjust the sound to the desired volume.



You can sing along with the singer's voice, while others only hear the karaoke accompaniment and your voice.

- For karaoke accompaniment using the headphones, the recorded voice can be heard from the headphones regardless of the positions of the VOCAL CHANGER and VOCAL FADER buttons. (The volume of the recorded vocals cannot be adjusted.)

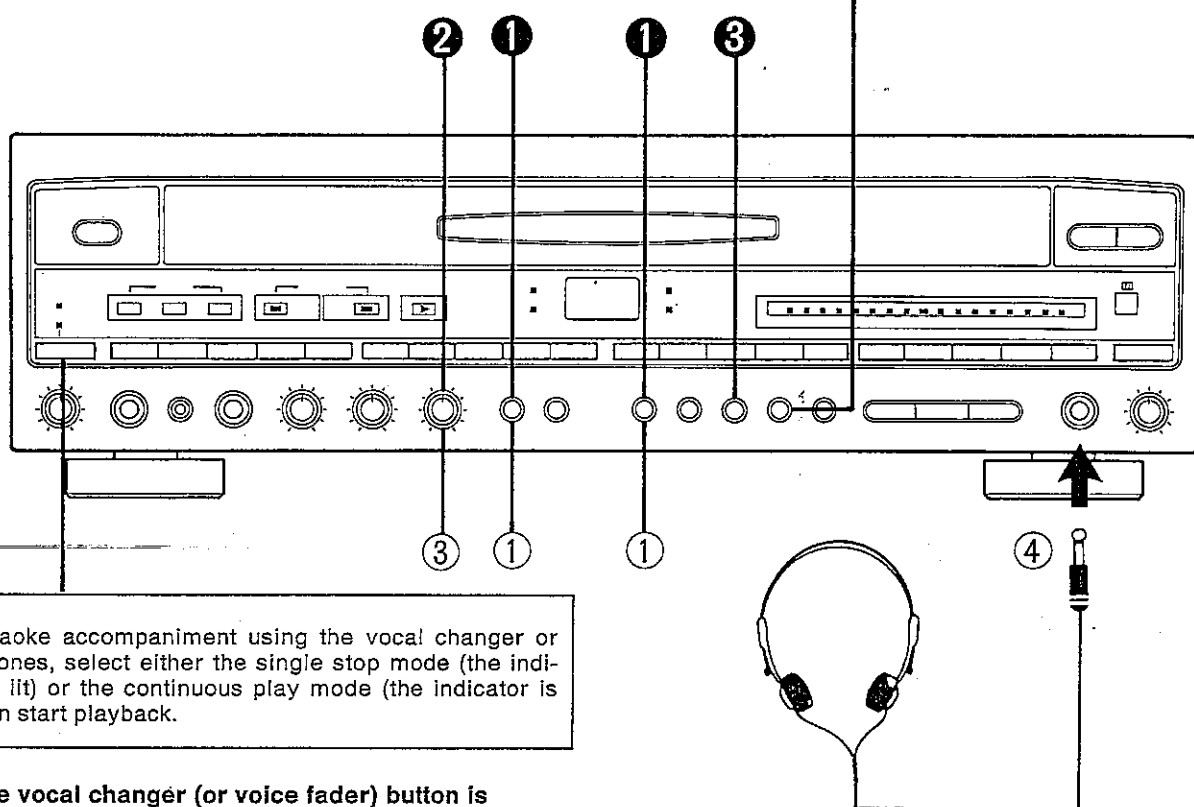


## Karaoke Accompaniment Using CD, CDV or LD Music Discs (Voice Fader Function)

When the VOCAL FADER button is turned on (when the button's indicator lights), the singer's voice on CD, CDV or LD music discs is turned down, so you can use the disc for karaoke.

- For some CDs, CDVs or LDs, the singer's voice may not be lowered.
- For multiple audio karaoke discs, the recorded vocals practically disappears.

VOCAL FADER



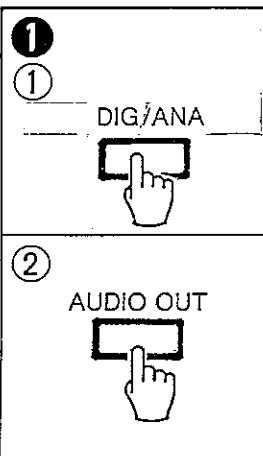
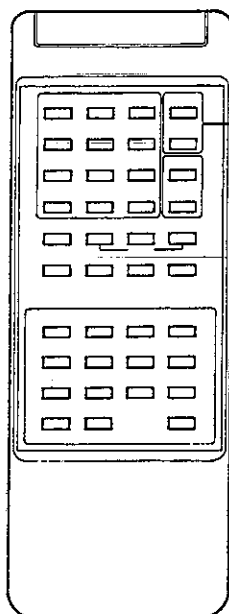
For karaoke accompaniment using the vocal changer or headphones, select either the single stop mode (the indicator is lit) or the continuous play mode (the indicator is off), then start playback.

### When the vocal changer (or voice fader) button is turned on (the button's indicator lights) ...

- The vocal changer function and voice fader function cannot be used simultaneously. When one of them is turned on (the button's indicator lights), the other turns off (the button's indicator turns off).
- The AUDIO OUT button is automatically set to "STEREO". When the VOCAL CHANGER button (or VOCAL FADER button) is on (when the button's indicator is lit), the mode will remain the "STEREO" mode even if the AUDIO OUT button is pressed.

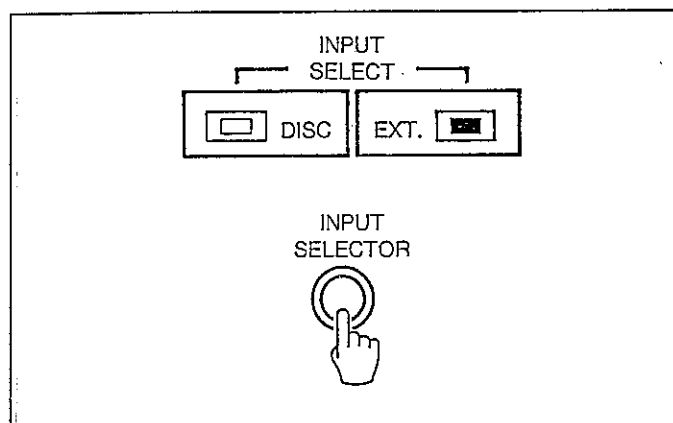
### About the Vocal Changer

- When the volume is turned up, the recorded vocals may turn off even if you are not singing. This is due to the surrounding sound entering the microphone.
- The singer's voice may not turn off if the sound entering the microphone is extremely low or if the microphone is held too far from your mouth.
- Turn the BALANCE control from the "VOCAL" side to the "KARAOKE" side to lower the volume of the recorded singer's voice.
- The vocal changer function does not operate for multi audio CDs.
- Karaoke accompaniment using headphones is not possible with multi audio CDs.



## Karaoke Accompaniment Using Multiple Audio Tapes (Karaoke tapes) (Using a tape deck connected to the AUDIO INPUT.)

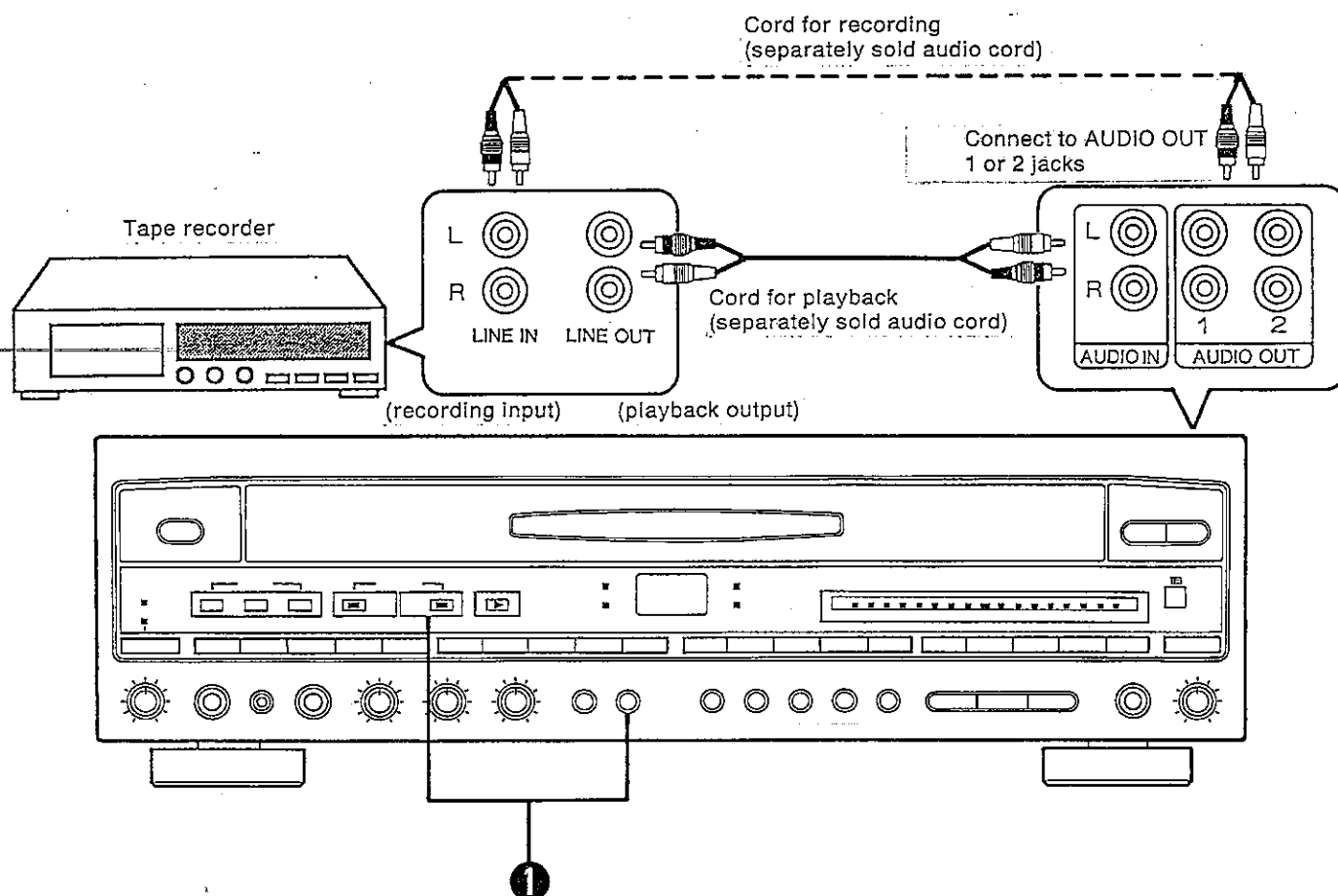
- 1 Press the INPUT SELECTOR button to turn the "EXT." indicator on.



- 2 Play the multiple audio tape on the tape recorder.
- 3 Start karaoke.

- Use the BALANCE control to adjust the singer's voice.
- Use the KEY CONTROL buttons to adjust to the desired key.
- The VOCAL CHANGER (or VOCAL FADER) functions with karaoke tapes.

For monaural tapes and music tapes, the BALANCE control, vocal changer and vocal fader buttons will not function.



### To record the karaoke sound

You can record your karaoke singing with a CD, CDV or LD karaoke disc onto an audio cassette tape.

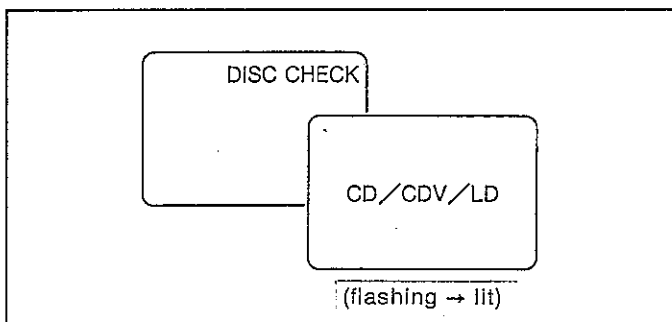
- For instructions on adjusting the recording level, etc., refer to the tape recorder's manual.
- When multiple audio discs are recorded onto cassette tapes, the sound is monaural.

Tapes recorded on your tape recorder are for your own personal enjoyment, and should not be used in ways infringing on copyrights without permission from the copyright holder.

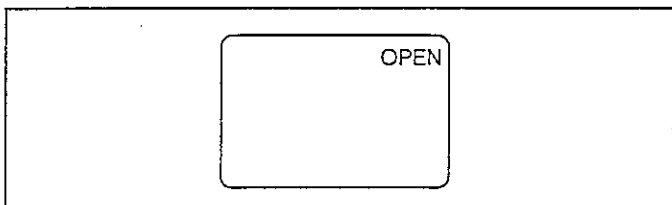
# ENJOYING MOVIES AND MUSIC IN SUCCESSION

- Prepare the TV and stereo before performing the operations described below. (Refer to page 15.)
- The continuous playback mode (with the KARAOKE MODE indicator off) is set automatically when the LV-P500E's power is turned on.

① Press the POWER switch.

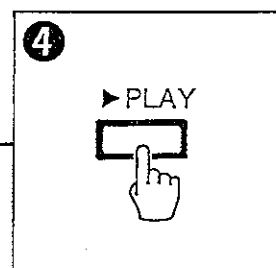
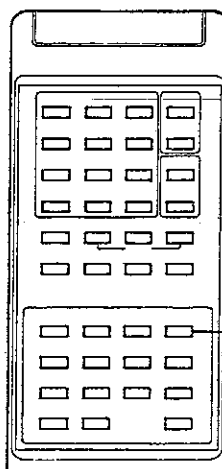
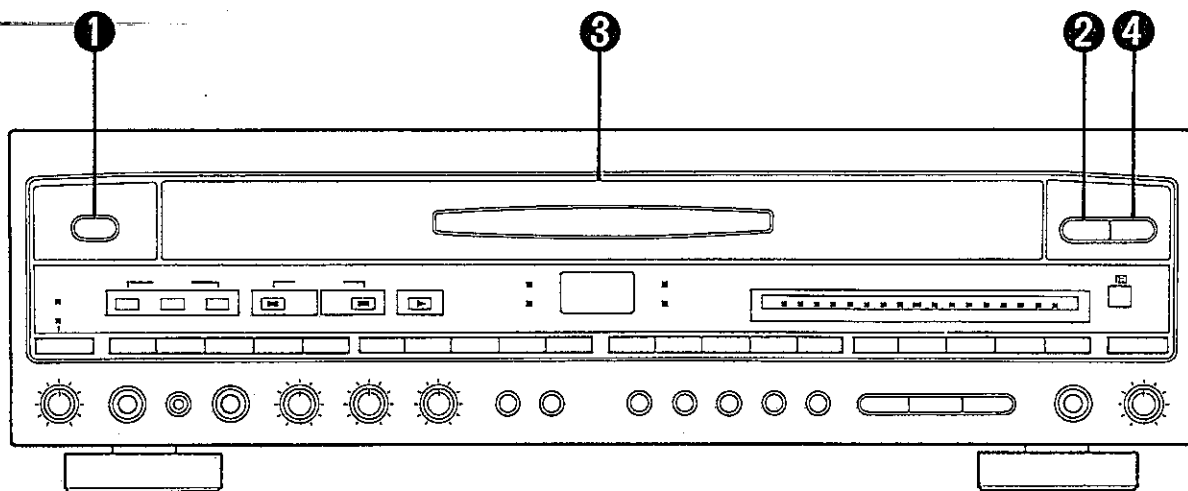
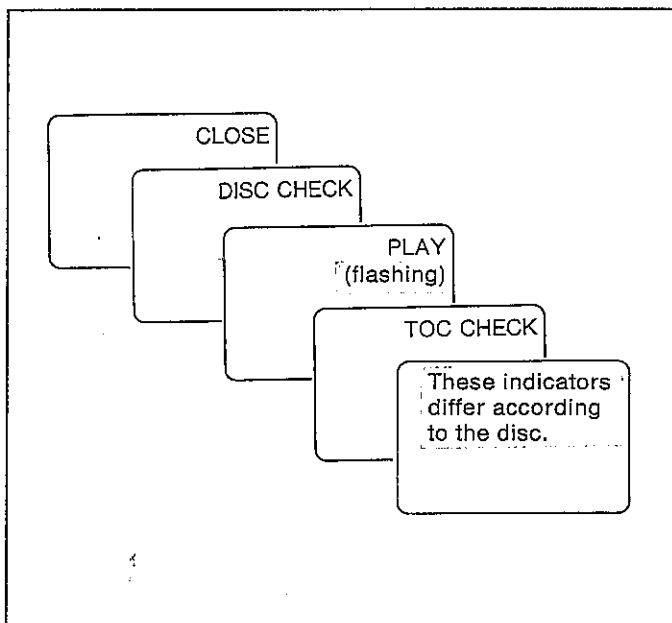


② Press the OPEN/CLOSE button and open the disc tray.



③ Load the disc. (Refer to page 17.)

- ④ Press the PLAY/PAUSE (or OPEN/CLOSE) button.
- The disc tray automatically closes and the play mode is set.
  - "PLAY" (flashing) does not appear when playing CDs or CDVs.



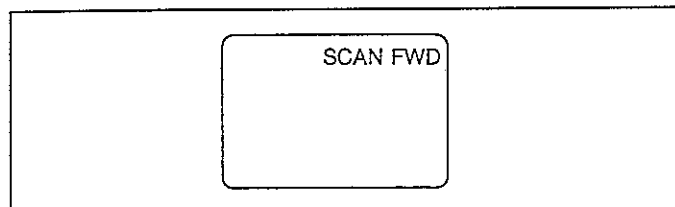
# VARIOUS PLAYBACK FUNCTIONS

## Scanning

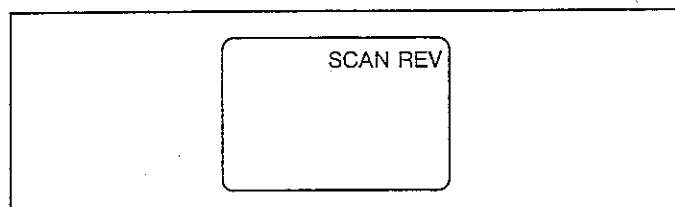
Press and hold one of the SCAN buttons during playback, then release it at the desired position.

Normal playback resumes when the button is released.

- Press and hold in the "▶▶" to scan forward.



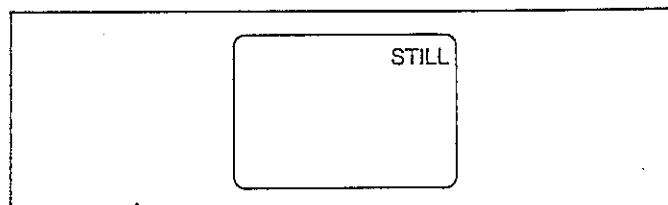
- Press and hold the "◀◀" to scan backward.



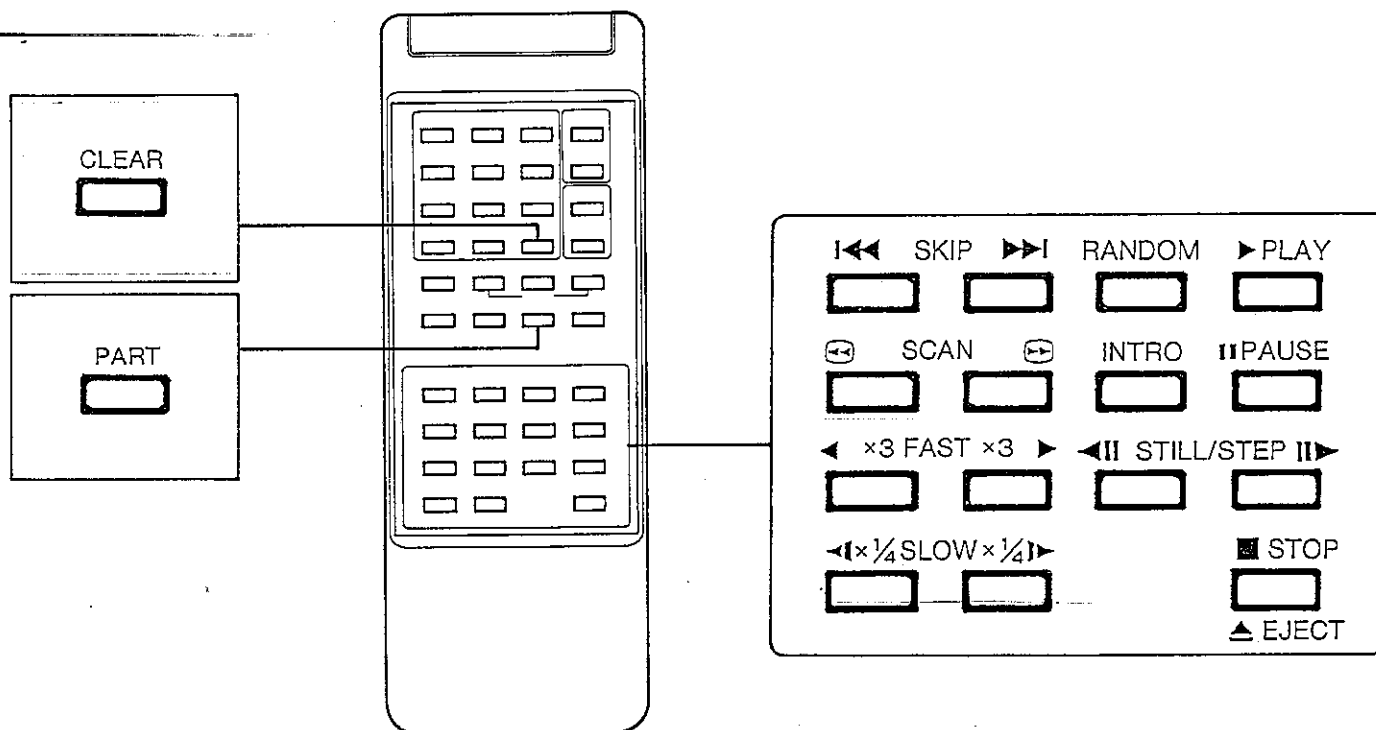
- No sound is produced for LDs and the video part of CDVs. The sound is low for LDs and the audio part of CDVs.
- The picture will be disturbed for long-play (CLV) discs.

## Still Frame and Frame-by-Frame Playback (For CAV LDs only)

- 1 Press the STILL/STEP button while playing an LD (CAV) to set the still frame mode. (No sound is produced during either still frame or frame-by-frame playback.)

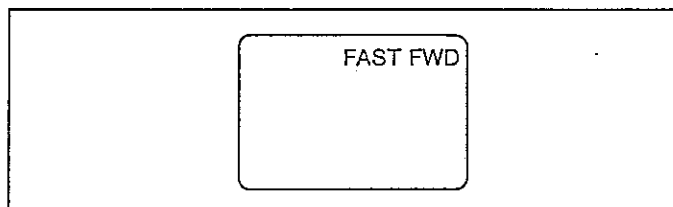


- 2 Press the STILL/STEP button while in the still frame mode to move forward (or backward) frame-by-frame.
  - Press the "▶▶" button to move forward frame-by-frame.
  - Press the "◀◀" button to move backward frame-by-frame.
- 3 Press the PLAY button to cancel still frame or frame-by-frame playback. (Normal playback resumes.)

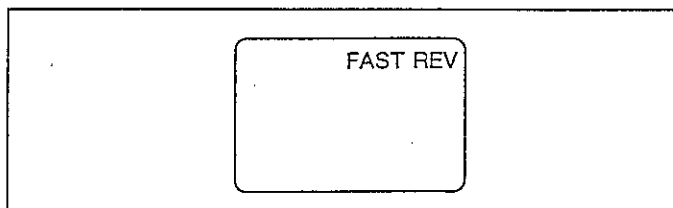


## Fast Playback (For CAV LDs only)

- 1 Press the FAST button while playing an LD (CAV). (No sound is produced.)
- Press and hold the x3 ► button for fast playback in the forward direction.



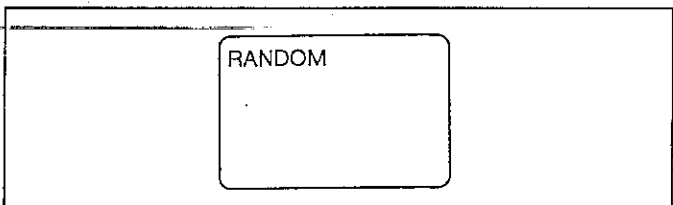
- Press and hold the ◀ x3 button for fast playback in the reverse direction.



- 2 Press the PLAY button to cancel the fast playback mode. (Normal playback resumes.)

## Random Playback

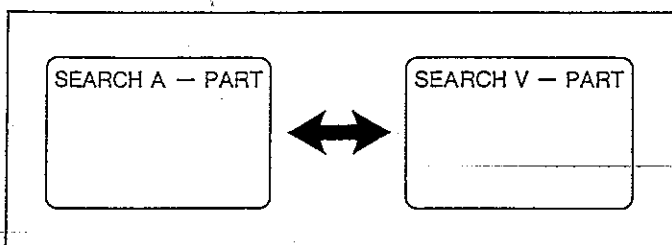
- 1 When the RANDOM button is pressed, each chapter/track on the disc is played in random order. (Up to 20 chapters/tracks, one side only)



- 2 Press the PLAY button to cancel random playback. (Normal playback resumes.)
- Normal playback can also be resumed by pressing the CLEAR button (or a Direct Search button).
- The stop mode is set automatically once all chapters/tracks have been played in random order.

## Switching Between Video and Audio parts on CDVs

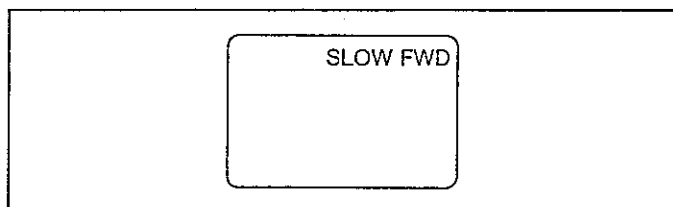
Press the PART button while playing a CDV to switch from the video part to the audio part (or from the audio part to the video part).



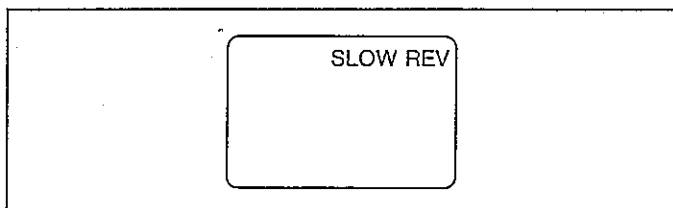
To start playback from the audio part: Press the PART button after setting the disc in the disc tray and before starting playback.

## Slow Motion Playback (For CAV LDs only)

- 1 Press the SLOW button while playing an LD (CAV). (No sound is produced.)
- Press and hold the x1/4 ►► button for slow motion playback in the forward direction.



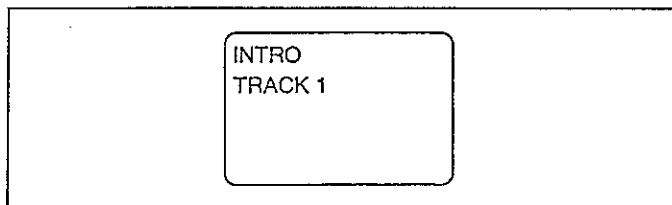
- Press and hold the x1/4 ◀◀ button for slow motion playback in the backward direction.



- 2 Press the PLAY button to cancel slow motion playback. (Normal playback resumes.)

## Intro Playback

- 1 When the INTRO button is pressed, the first 7 seconds of each chapter/track on the disc is played in order. (One side only)



- 2 Press the PLAY button during intro playback to resume normal playback from the chapter/track currently playing.
- Normal playback can also be resumed by pressing the CLEAR button (or a Direct Search button).
- The stop mode is set automatically once the beginnings of all chapters/tracks have been played.

### NOTES:

- Random playback on LDs is only possible on disc with TOCs (CD VIDEO).
- Intro playback on LDs is only possible on discs containing chapter numbers.
- The single stop function will not work during random and intro playback.
- The SKIP and SCAN buttons will not work during intro playback.

# FINDING THE DESIRED SECTION

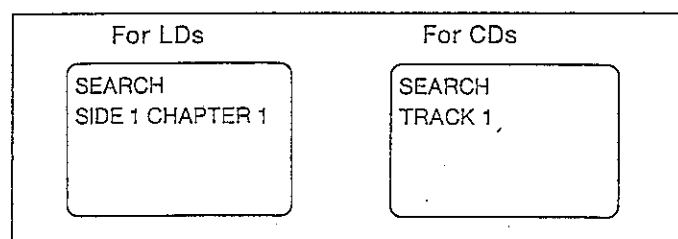
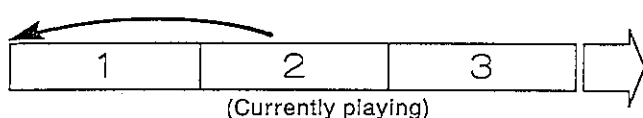
## Chapter/Track Skip Search

Press the SKIP button during playback to skip to the chapter or track before or after the currently playing one.

- Chapter (or track) 2 plays in the following examples.

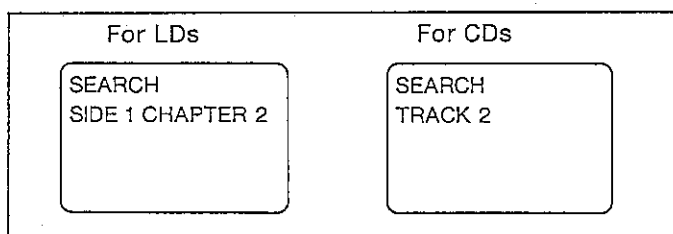
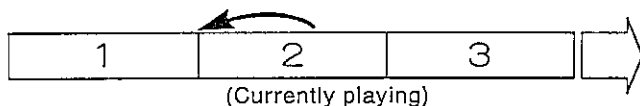
Example 1:

Press the **⏮** button twice to move to for the beginning of the chapter/track 1.



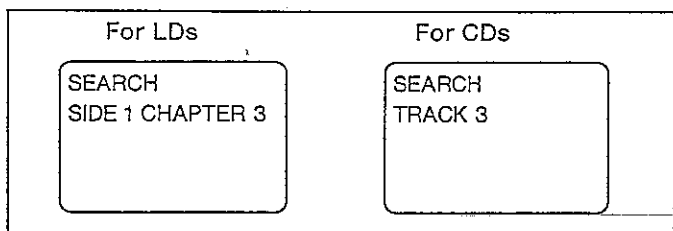
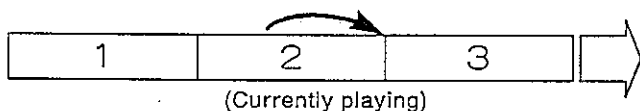
Example 2:

Press the **⏮** button to move to for the beginning of the chapter/track 2.



Example 3:

Press the **⏭** button to move to for the beginning of the chapter/track 3.



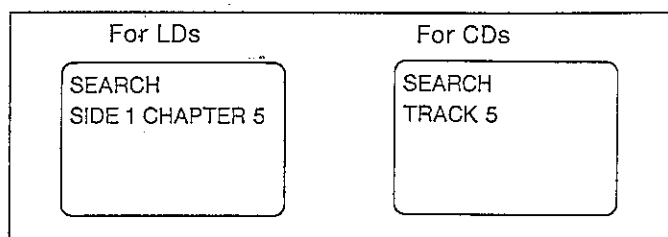
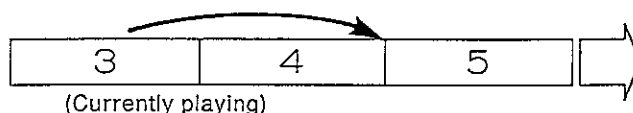
- When the SKIP button is pressed or held while playing a CDV, the video part switches to the audio part (or vice versa).

## Chapter/Track Direct Search


Press the Direct Search buttons during playback to select any chapter or track.

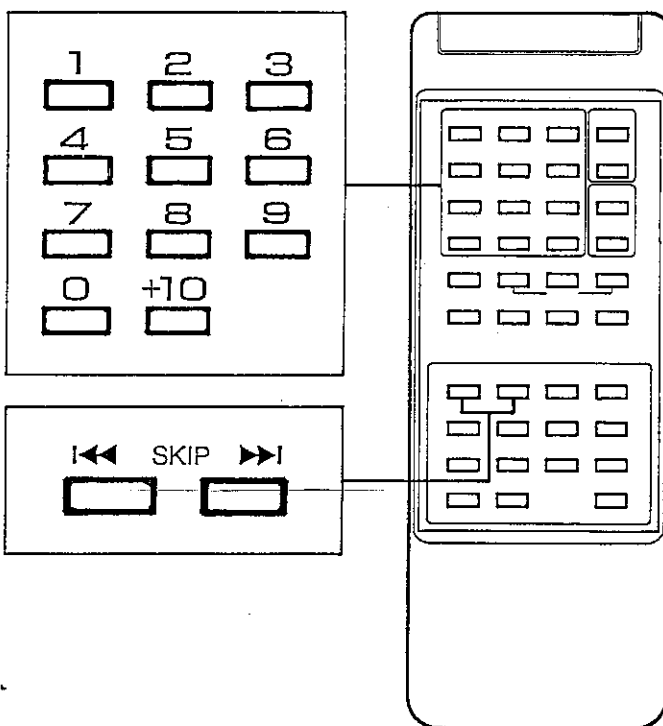
Example:

Press Direct Search button "5" to select chapter or track 5 when chapter or track 3 is currently playing.



### NOTES:

- Operation on LDs with TOCs ( , CDs and CDVs  
"0" flashes if a number not recorded on the disc is input. If this happens, input another number.
- Operation on LDs without TOCs  
If a number not recorded on the disc is input, "NO ADDRESS" appears on the screen after several seconds. Check the number on the disc's jacket and input the correct number.

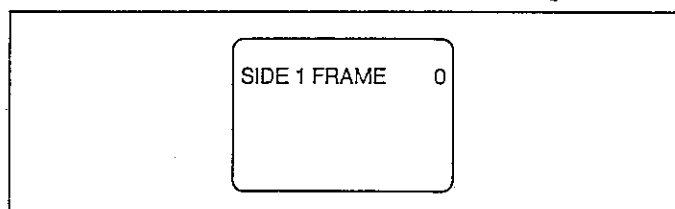


## Frame Search on LDs [for standard (CAV) discs only]

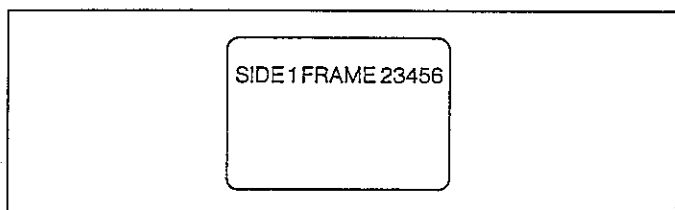
Example:

To find frame "23456".

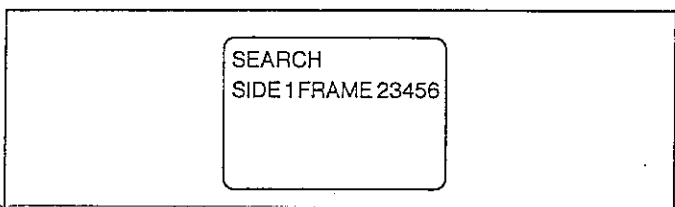
- 1 Press the FRAME/TIME button to call up the input display.



- 2 Use the direct search buttons to input the frame number (23456).



- 3 Press the PLAY button. Playback begins from the specified frame number.

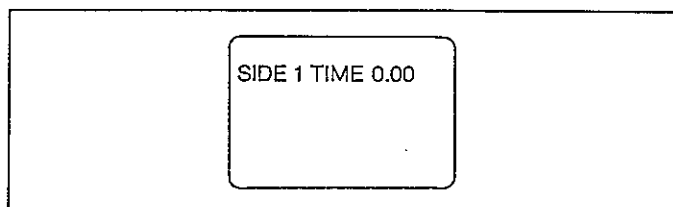


## Time Search on LDs [for long play (CLV) discs only]

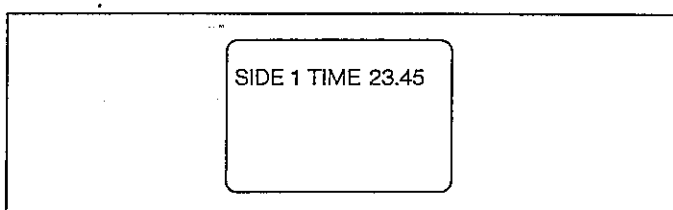
Example:

To find the frame located at "23 minutes, 45 seconds" from the beginning of the disc:

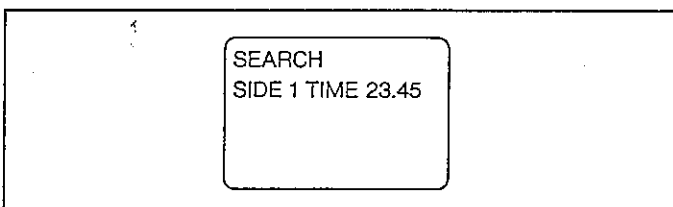
- 1 Press the FRAME/TIME button to call up the input display.




- 2 Enter the time of the desired frame (2345) using the direct search buttons.



- 3 Press the PLAY button. Playback begins at the specified time number.



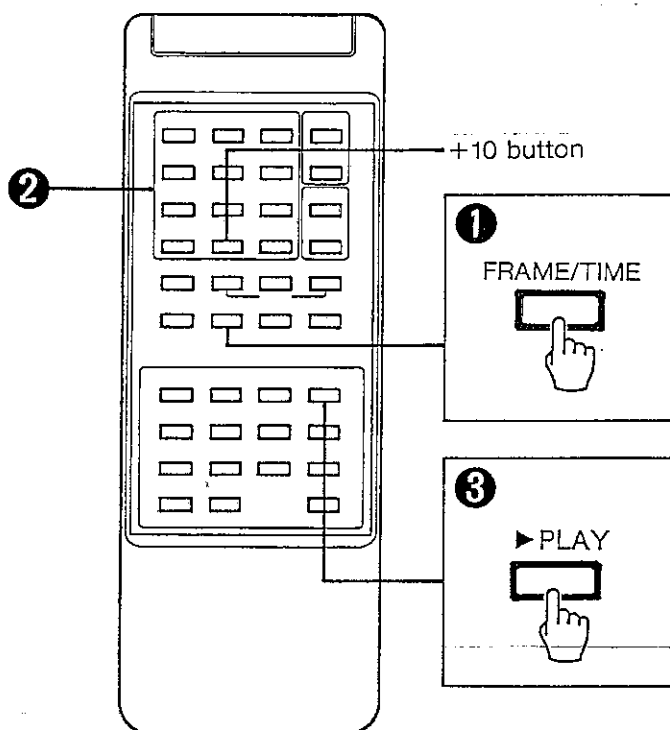
### NOTES:

- Operation on LDs with TOCs ( , CDs and CDVs  
"0" flashes if a number not recorded on the disc is input. If this happens, input another number.
- Operation on LDs without TOCs  
During frame search, if a number not recorded on the disc is input, "NO ADDRESS" appears on the screen after several seconds. Check the number on the disc's jacket and input the correct number.  
During time search, if a number over 60 minutes or 60 seconds is input, "0.00" is displayed. Input the number again.

### + 10 button on remote control unit

The + 10 button is used to input numbers in units of 10.

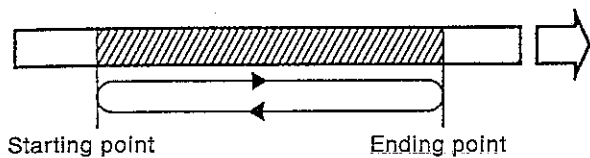
- To play the 20th chapter/track, press the + 10 button twice then press the PLAY button.
- To play the 25th chapter/track, press the + 10 button twice then press Direct Search button 5.



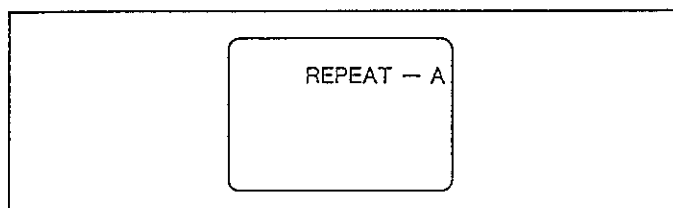
# WATCHING AND LISTENING REPEATEDLY

## A-B Repeat

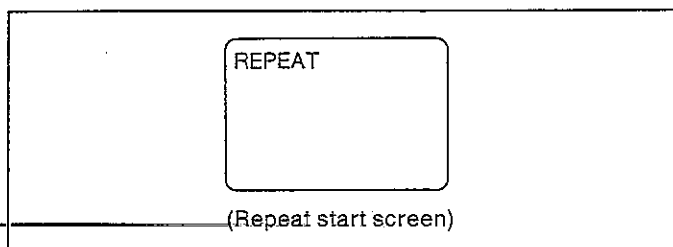
Use this to repeat from point A to point B.



- 1 Press the A-B button at the point from which you want to start repeating.



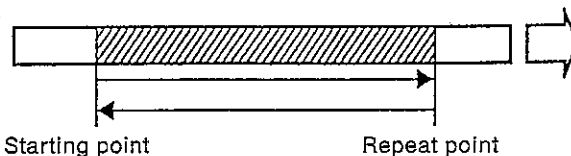
- 2 Continue playing normally or fast-forward and press the A-B button at the point at which you want to end repeating.



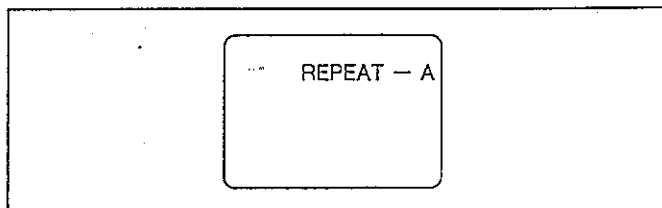
- When the A-B button is pressed, the disc returns to the starting point, and the section between the starting point and end point is played repeatedly.
- When playing in the single stop mode, repeating is only possible between two points within that track/chapter.

## Memory Repeat

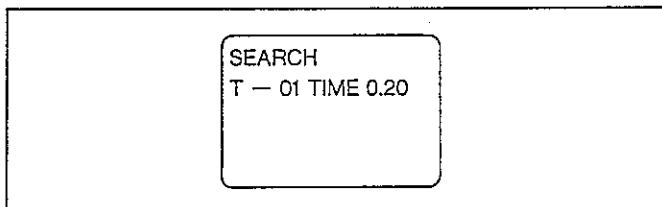
Use this to store a repeat starting point in the memory.



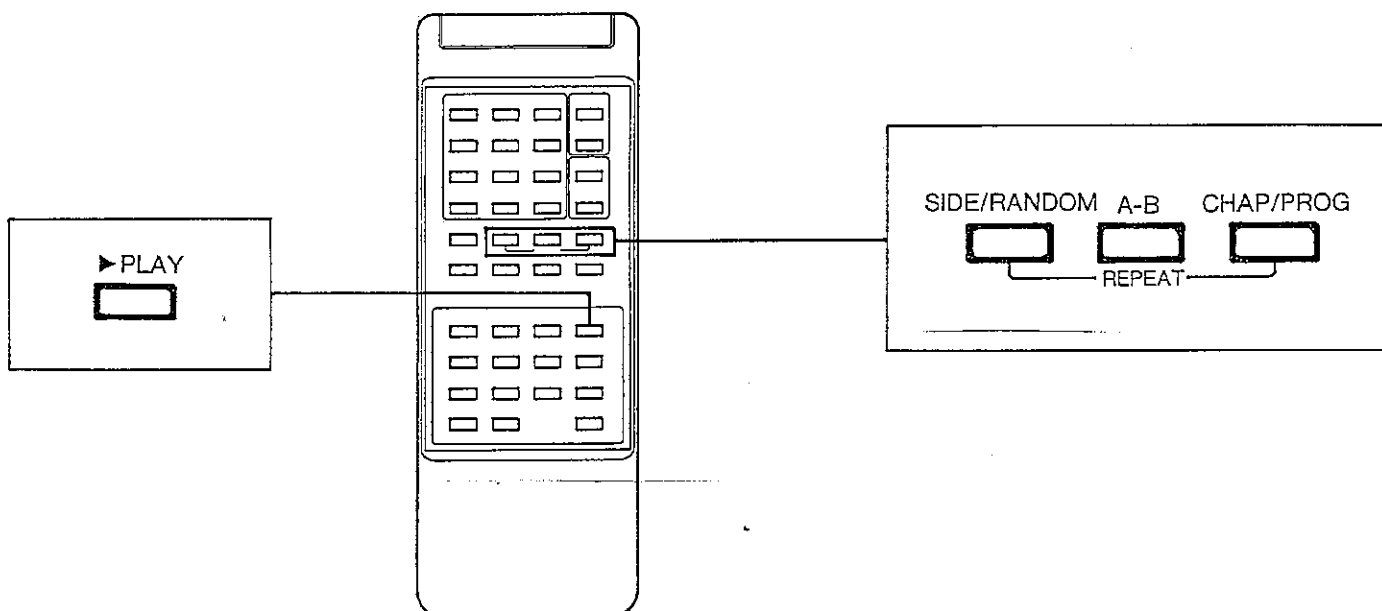
- 1 Press the A-B button at the point from which you want to start repeat playback.



- 2 Continue playing normally, then press the PLAY button whenever you want to return to the starting point.



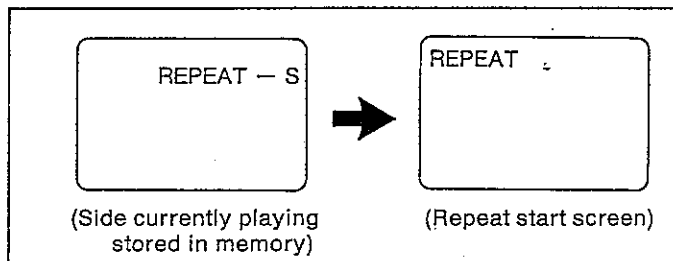
- The disc plays from the memorized starting point each time the PLAY button is pressed.





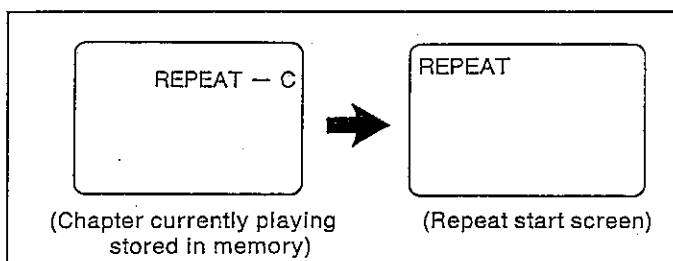
### Single-Side Repeat

Press the SIDE/RANDOM button during playback to repeat all chapters/tracks on that side.



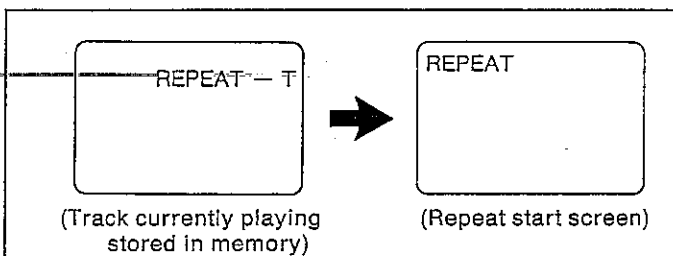
### Chapter Repeat

Press the CHAP/PROG button while playing an LD to repeat only the currently playing chapter.



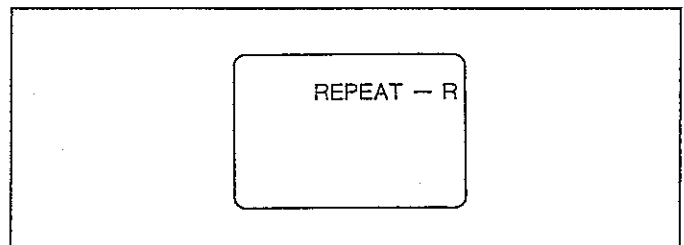
### Track Repeat

Press the CHAP/PROG button while playing a CD or CDV to repeat only the currently playing track.



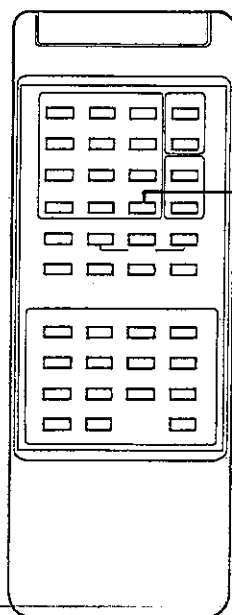
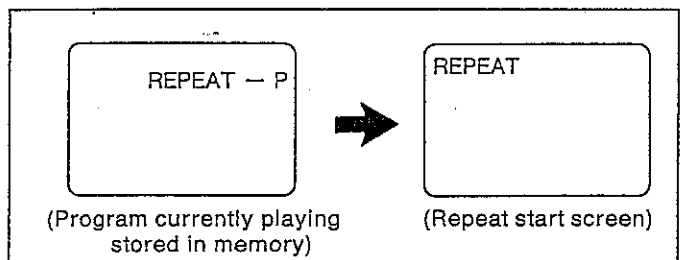
### Random Repeat

Press the SIDE/RANDOM button during random playback for random repeat.



### Program Repeat

Press the CHAP/PROG button during programmed playback. Programmed playback repeats.



Press the CLEAR button to cancel the repeat mode.

CLEAR



#### NOTES:

- Playback is repeated until the repeat mode is cancelled (by pressing the CLEAR button, etc.).
- The "REPEAT" indicator on the main unit flashes during memory repeat playback, and remains lit during other repeat modes.

# PROGRAMMING

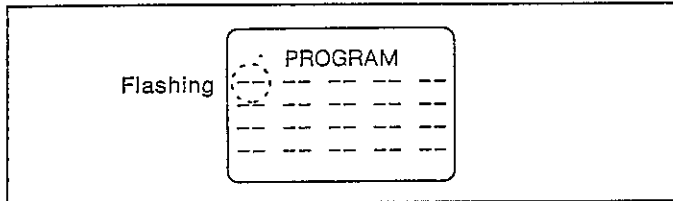
## Programmed Playback

The chapters on LDs or the tracks on CDs and CDVs can be programmed to play in any order. (Up to 20 chapters/tracks, one side only)

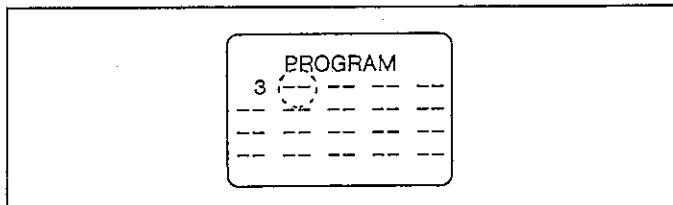
Example:

Programmed playback of chapters 3 and 12 on an LD

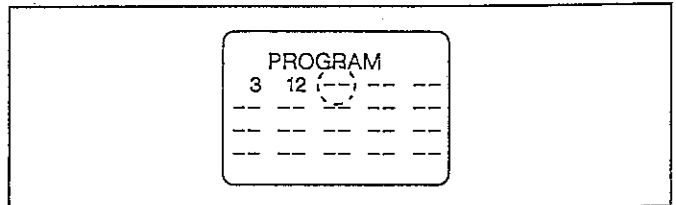
- 1 Press the PROGRAM button to display the programming screen.



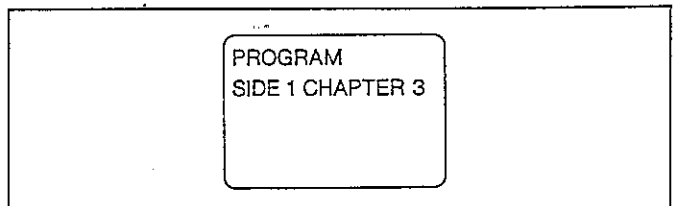
- 2 Press Direct Search button "3".
- 3 Press the MEMORY button. (Chapter 3 is stored in the memory.)



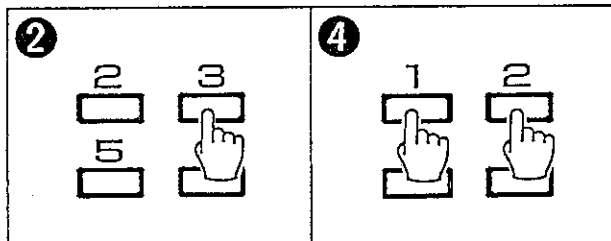
- 4 Press Direct Search button "12".
- 5 Press the MEMORY button. (Chapter 12 is stored in the memory.)




- 6 Press the PLAY button to start programmed playback.

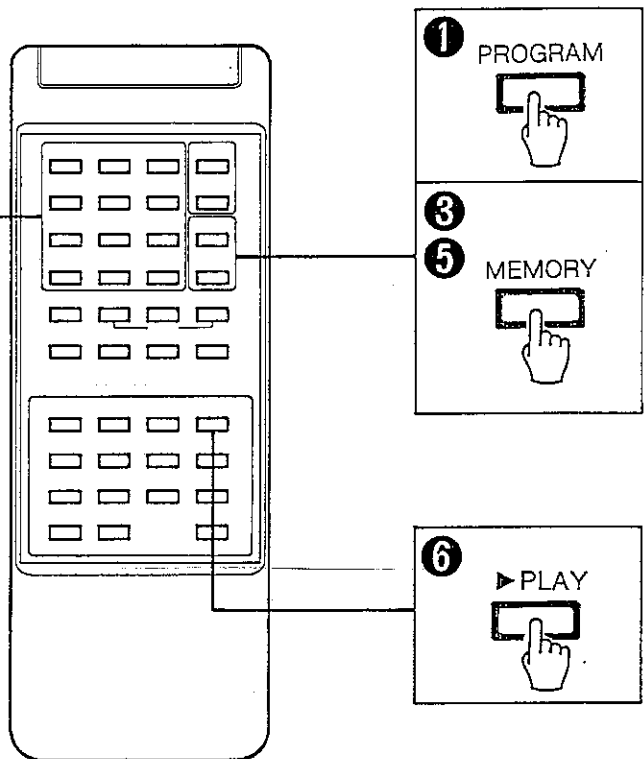


- Once all the programmed chapters/tracks are played, the stop mode is set and the program is cleared.
- Press the CLEAR button during programmed playback to clear the program and resume normal playback.



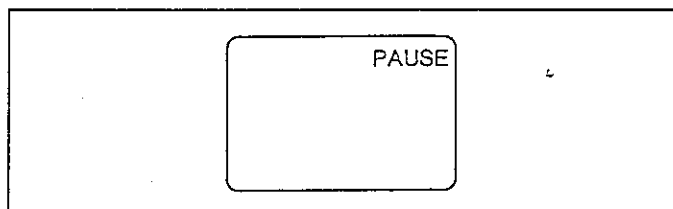
## NOTES:

- Operation on LDs with TOCs (  ), CDs and CDVs  
If a number not recorded on the disc is input, that number and "#" flash. "0" flashes if the MEMORY button is pressed. If this happens, input another number. (The program can be corrected when "#" is displayed.)
- Operation on LDs without TOCs  
"NO ADDRESS" is displayed if a number not recorded on the disc is input and programmed playback is started. The programmed chapters are searched for and played.  
If there is no chapter with the programmed number on the LD: "NO ADDRESS" appears on the screen, then "END" appears when in the single stop mode, and "STOP" appears when in the continuous play mode.



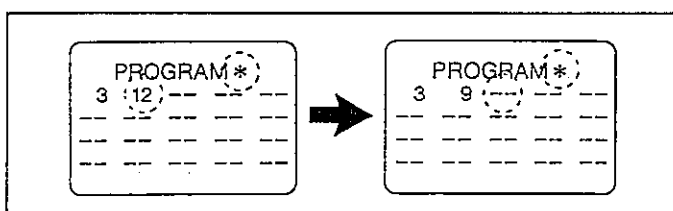
## Changing the Program During Programmed Playback

- ① Press the PAUSE button to interrupt programmed playback.

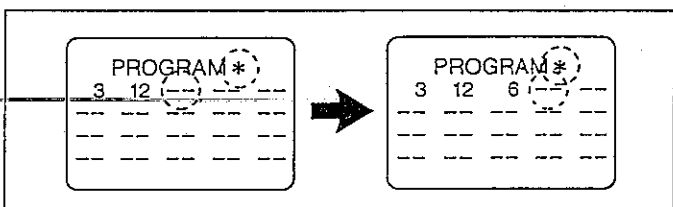


- ② Change the program.

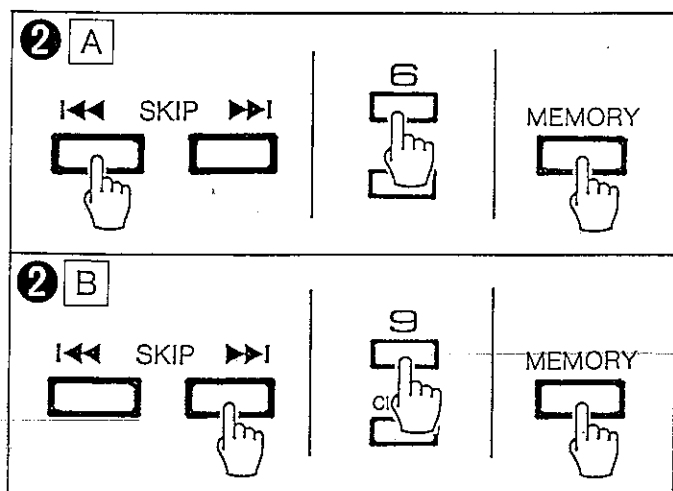
- A. To change chapter 12 to 9:
  1. Press the **SKIP** button. The currently playing chapter number flashes. Press the same button again until "12" starts flashing.
  2. Press Direct Search button "9".
  3. Press the **MEMORY** button.



- B. To add chapter 6:
  1. Press the **SKIP** button. A "--" flashes.
  2. Press Direct Search button "6".
  3. Press the **MEMORY** button.



- ③ After the program has been changed, press the **PLAY** button.
- Programmed playback resumes.
  - Press the **PROGRAM** button to turn off the program screen.



## Checking the Content of the Program

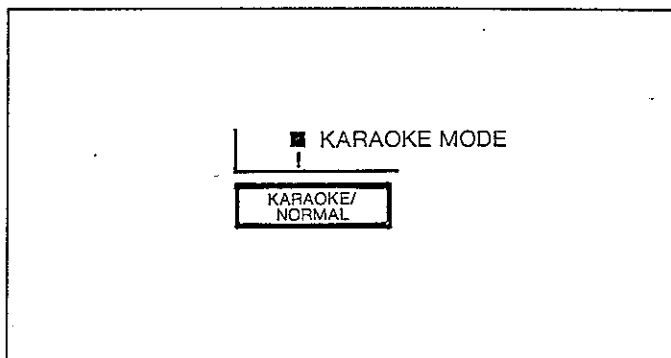
Press the **PROGRAM** button to display the content of the program on the TV screen. (The chapter/track currently playing flashes.)

Press the **PROGRAM** button again to turn the program screen off.

## Programmed playback with the single stop mode

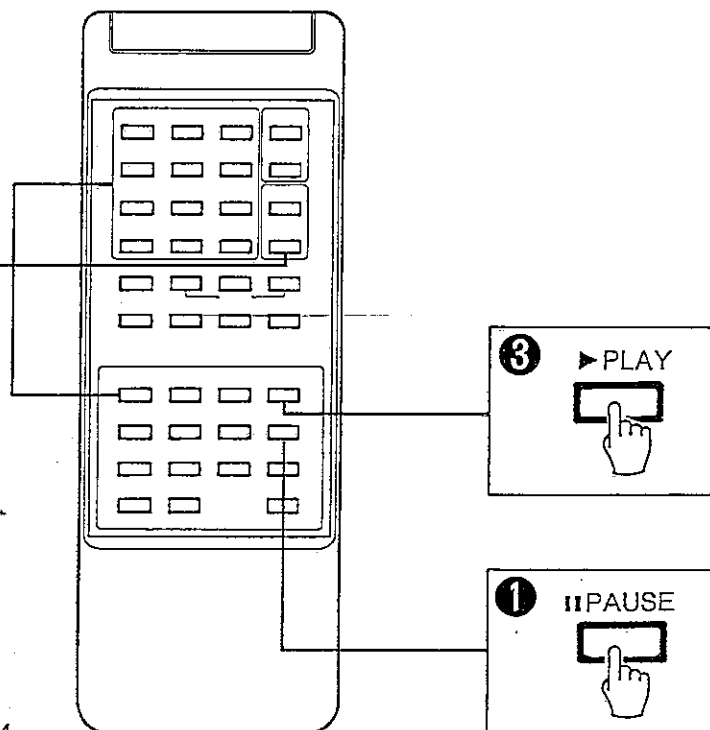
Press the single stop button to turn the **KARAOKE MODE** indicator on.

The pause mode is set ("PAUSE" is displayed) at the end of each track/chapter. Press the **PLAY/PAUSE** button to begin playback.



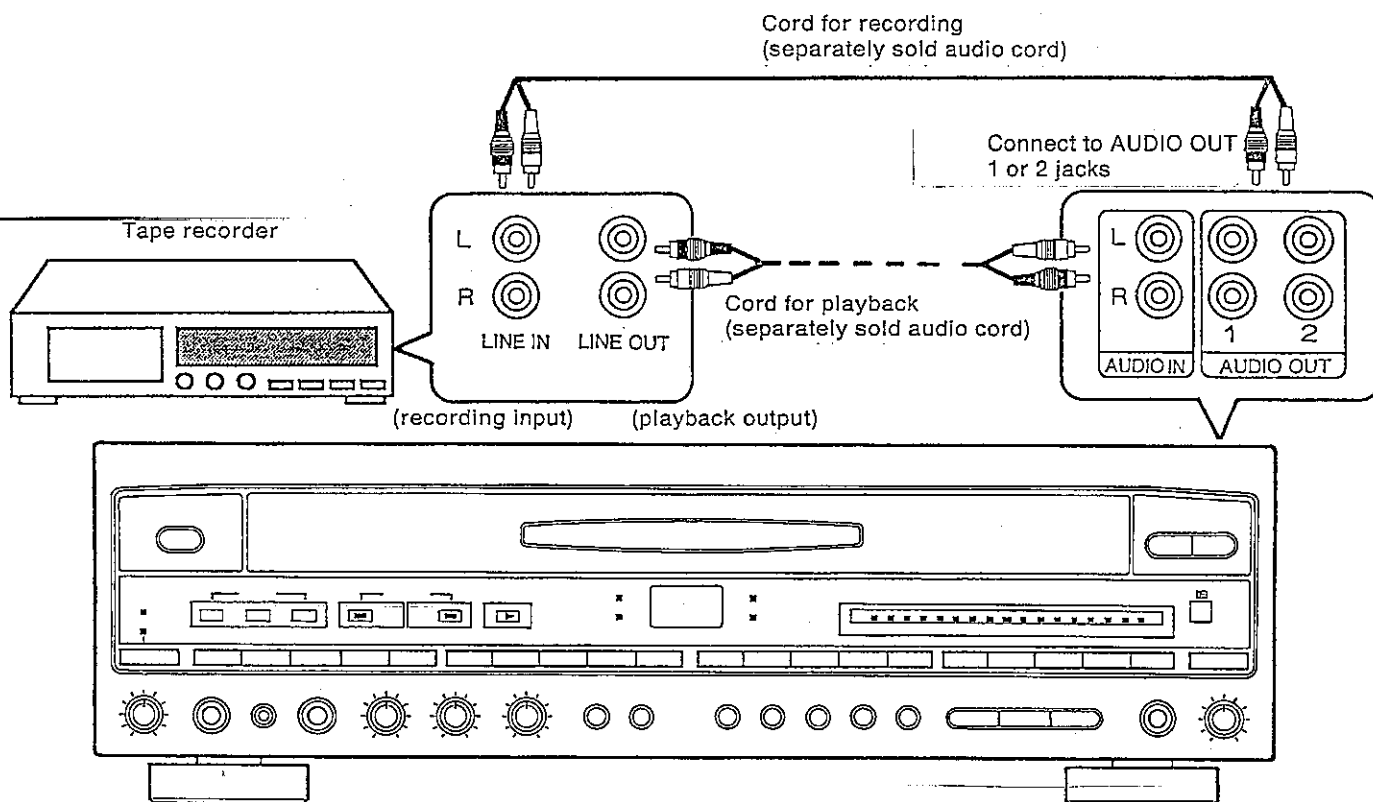
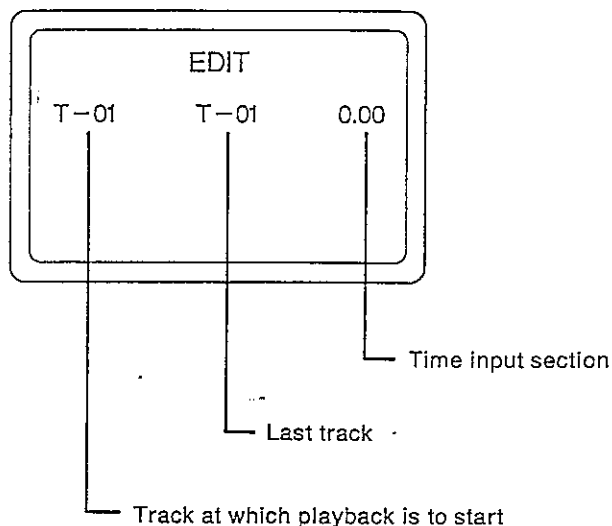
## SKIP buttons when changing the program

- When the **SKIP** button is pressed, a "--" mark and the "\*" mark flash. When pressed again, the number of the chapter/track currently playing flashes.
- When the **SKIP** button is pressed, the number of the currently playing chapter/track and the "\*" mark flash.
- When only a chapter/track number is flashing (when the "\*" is not displayed), this is the number of the chapter/track which is currently playing. A chapter/track whose number is flashing cannot be changed.



## EDITING CASSETTE TAPES (for CDs only)

This is a convenient function for recording the tracks of compact discs onto cassette tapes. The times of the tracks on the CD are automatically calculated to fit on the tape according to the length of one side of the tape. Editing can be specified for both sides of the tape at once.



### When editing tapes ...

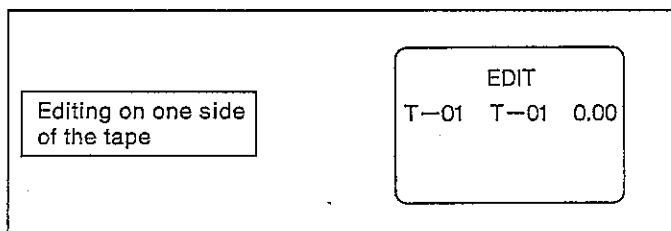
- ① Set your cassette deck to the record pause mode.
  - ② Begin playback on the LV-P500E (step 5 on page 36) and recording on the cassette deck simultaneously.
- Before recording, read the cassette deck's instructions carefully.

## Editing onto Both Sides of a Cassette Tape in Order

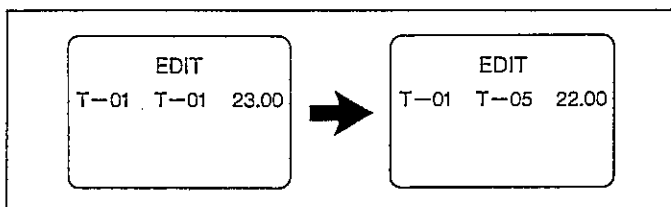
Example:

Recording a CD including 12 tracks with a playing time of 54 minutes, 00 seconds onto a C-46 cassette tape (23 minutes recordable on one side) in order from track 1

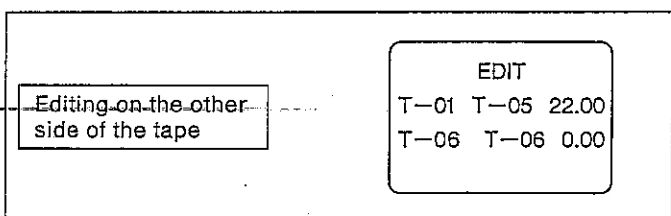
- ① Press the EDIT button to call up the editing input screen.



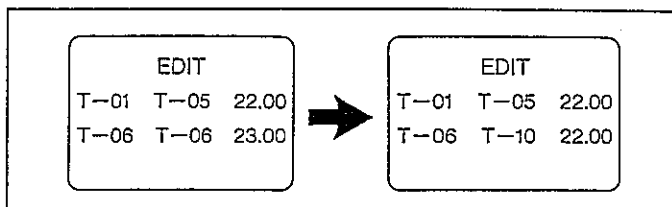
- ② Press Direct Search buttons "2" and "3" to input the recordable time on one side of the tape (23 minutes).
  - The display shows that five tracks (tracks 1 to 5 = 22 minutes) can fit in the 23 minutes.



- ③ Press the EDIT button to call up the editing input screen.



- ④ Press Direct Search buttons "2" and "3" to input the recordable time on one side of the tape (23 minutes).
  - The display shows that five tracks (tracks 6 to 10 = 22 minutes) can fit in the 23 minutes.



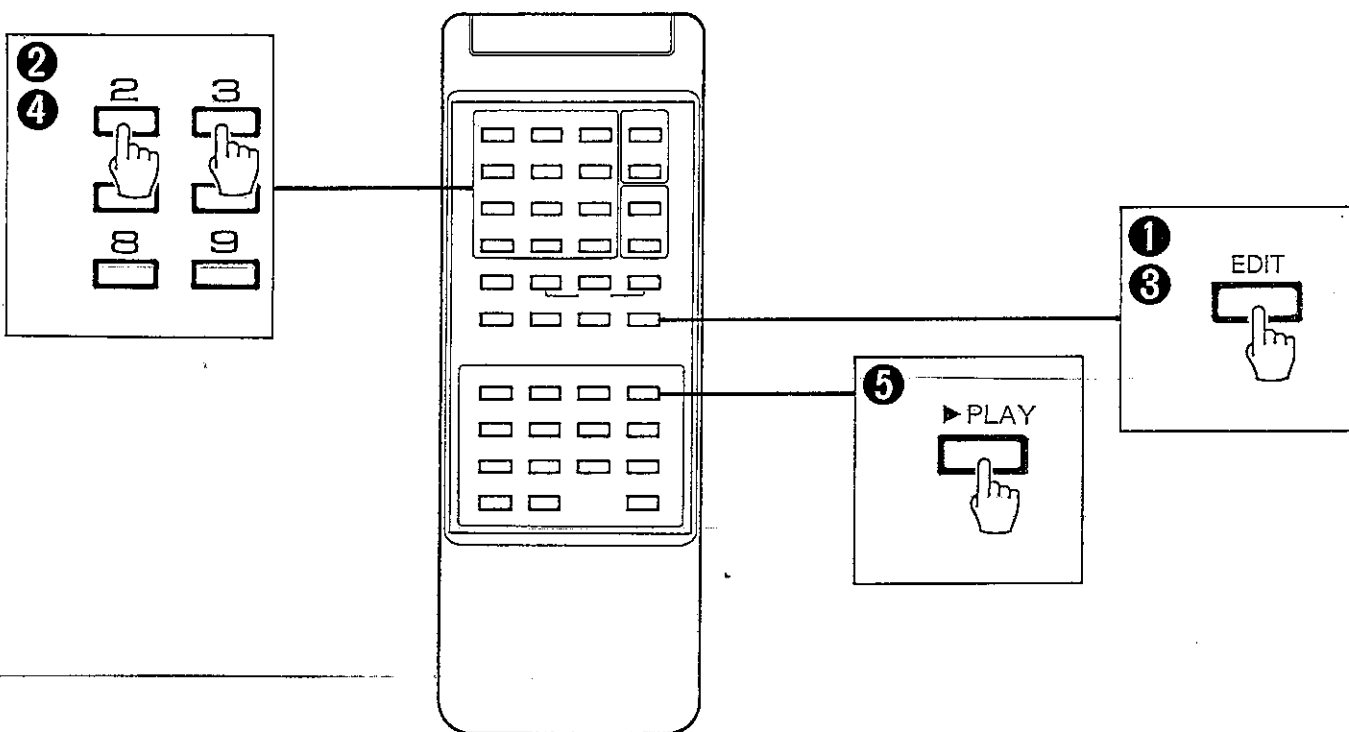
- ⑤ Press the PLAY button. Playback begins.
- ⑥ Set the cassette deck to the recording mode simultaneously.

### When the PLAY button is pressed:

1. Playback starts in order from track 1 on the CD.
2. Once the end of track 5 is reached, the player stops automatically. ("PAUSE" appears on the TV screen.)
3. Press the PLAY button to start playback of the tracks set for the other side of the tape (6 to 10).

### If the CLEAR button is pressed while setting editing:

"PAUSE" appears on the TV screen. Either press the EDIT button, or press the PLAY button.

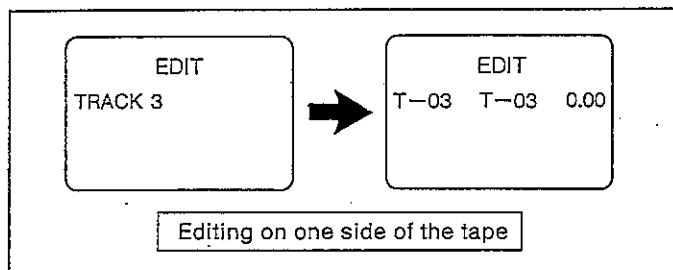


## Editing on Both Sides of a Cassette Tape Starting from a Track (other than the Track 1)

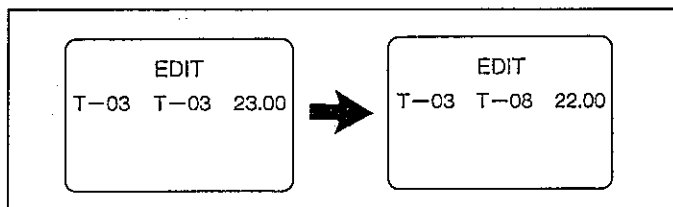
Example:

Recording a CD including 12 tracks with a playing time of 54 minutes, 30 seconds onto a C-46 cassette tape (23 minutes recordable on one side), starting from track 3, and from track 6 on the other side

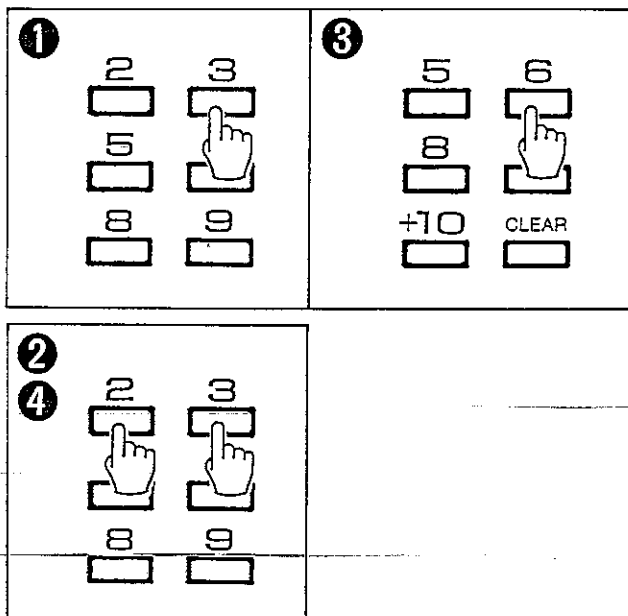
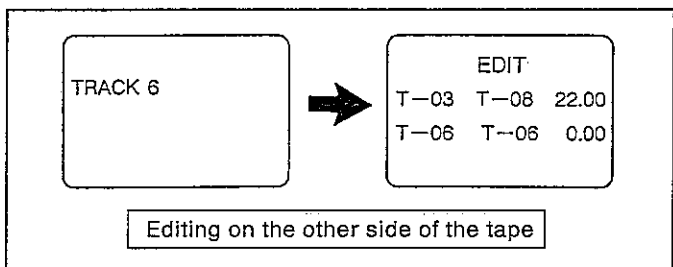
- 1 Press Direct Search button "3", then immediately press the EDIT button.



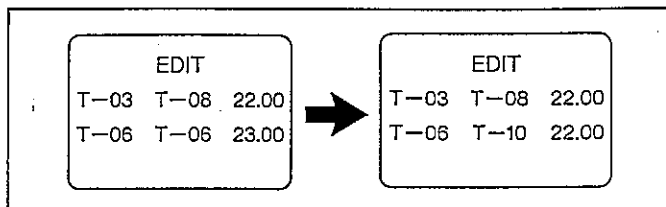
- 2 Press Direct Search buttons "2" and "3" to input the recordable time on one side of the tape (23 minutes).
  - The display shows that six tracks (tracks 3 to 8 = 22 minutes) can fit in the 23 minutes.



- 3 Press Direct Search button "6", then immediately press the EDIT button.



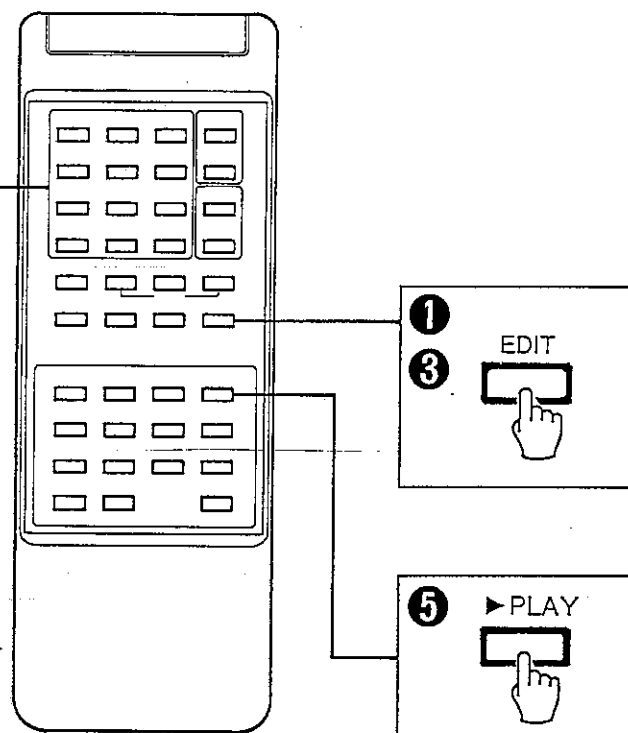
- 4 Press Direct Search buttons "2" and "3" to input the recordable time on one side of the tape (23 minutes).
  - The display shows that five tracks (tracks 6 to 10 = 22 minutes) can fit in the 23 minutes.



- 5 Press the PLAY button. Playback begins.
- 6 Set the cassette deck to the recording mode simultaneously.

### When the PLAY button is pressed:

1. Playback starts in order from track 3 on the CD.
2. Once the end of track 8 is reached, the player stops automatically. ("PAUSE" appears on the TV screen.)
3. Press the PLAY button to start playback of the tracks set for the other side of the tape (6 to 10).

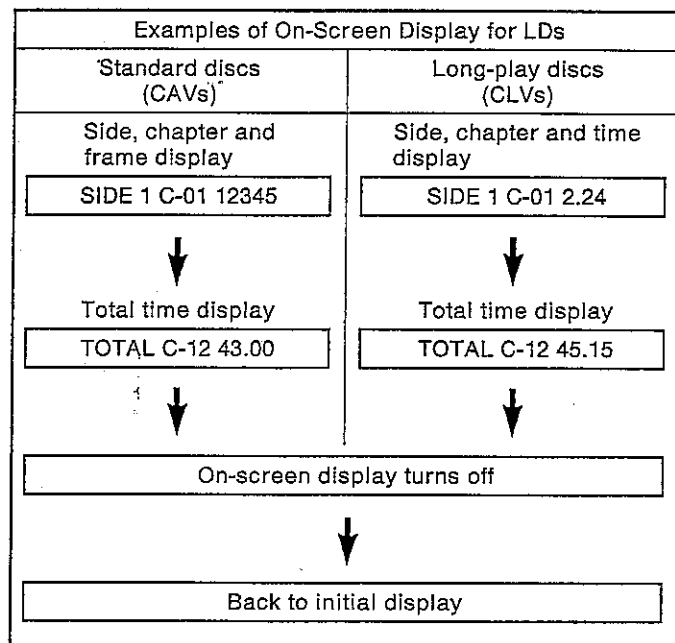
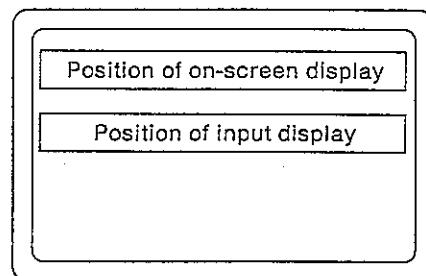
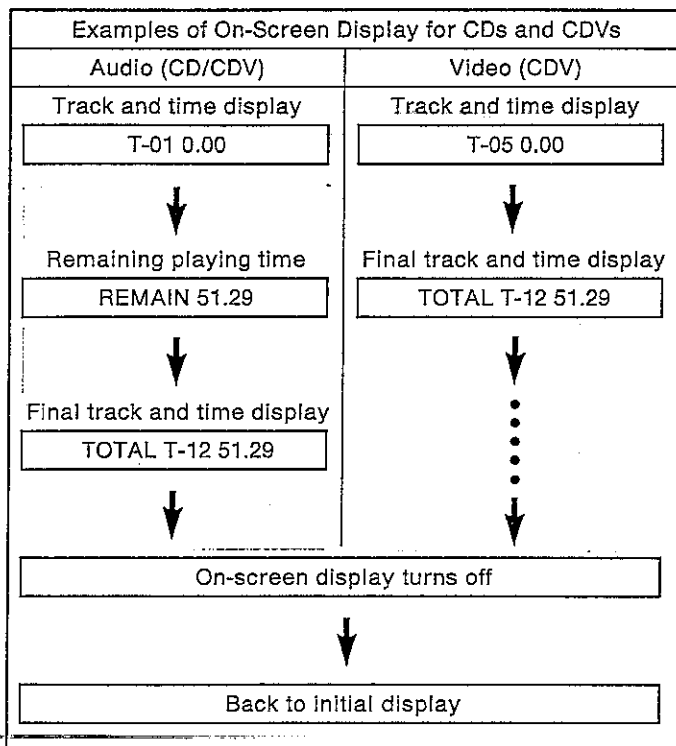



If the CLEAR button is pressed while setting editing: "PAUSE" appears on the TV screen. Either press the EDIT button, or press the PLAY button.

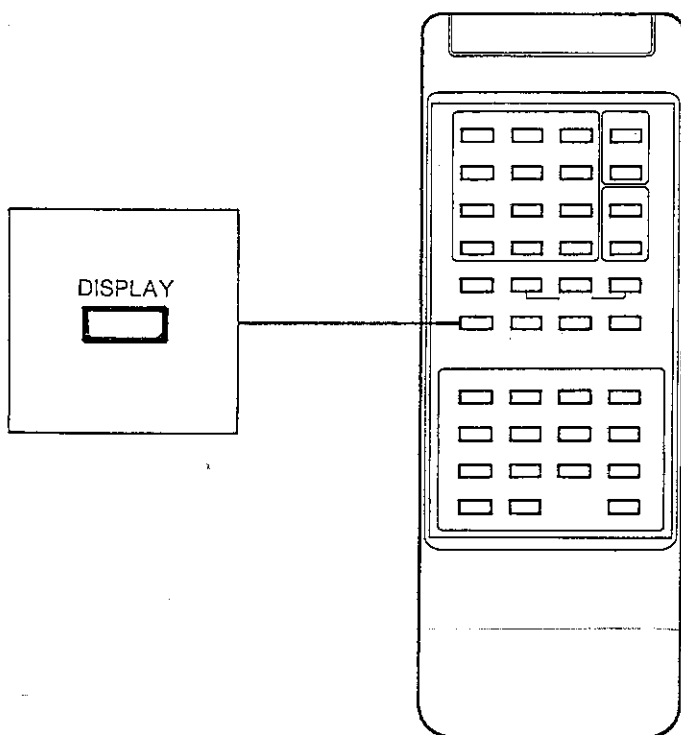
# DISPLAYING THE NUMBERS RECORDED ON THE DISC

## Calling up the On-screen Display

Press the DISPLAY button to display the numbers, etc., on the TV screen during playback.



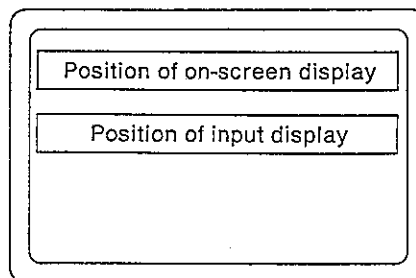
- The SIDE 1 and SIDE 2 indicators for LDs indicate sides 1 and 2 of the disc. Some LDs do not include signals indicating the sides. In these cases, the SIDE 1 and SIDE 2 indicators are not displayed.
- The total time display appears for LDs containing TOCs (  ) only.



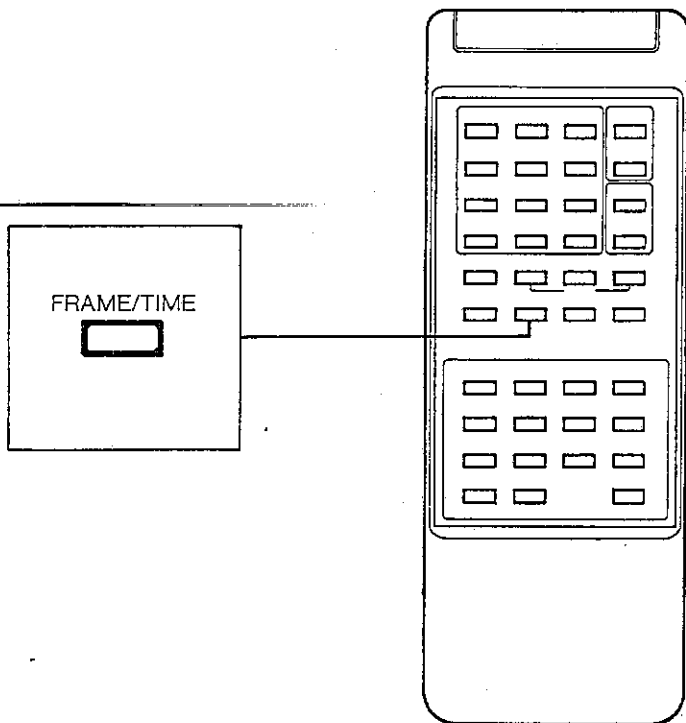
## Calling up the Input Display

Press the FRAME/TIME button to recall the input display.  
Press the CLEAR button to turn the display off.

Examples of Input Displays for CDs and CDVs	
Audio (CD/CDV)	Video (CDV)
Track input display T-01 TIME 0.00	Time input display TIME 0.00
↓	↓
No change	Track input display TRACK 0 (flashing)
	↓
	Back to initial display



Examples of Input Displays for LDs	
Standard discs (CAVs)	Long-play discs (CLVs)
Frame input display SIDE 1 FRAME 0	Time input display SIDE 1 TIME 0.00
↓	↓
Chapter input display SIDE 1 CHAPTER 0 (flashing)	Chapter input display SIDE 1 CHAPTER 0 (flashing)
↓	↓
Back to initial display	





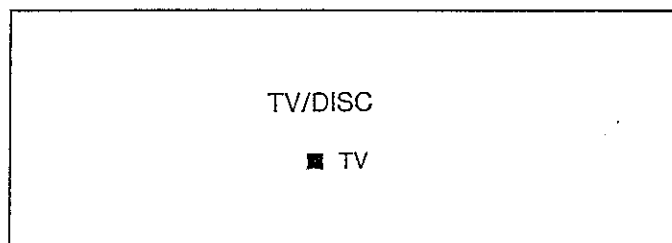
# WATCHING TV WHILE PLAYING A DISC

## For TVs with AV jacks

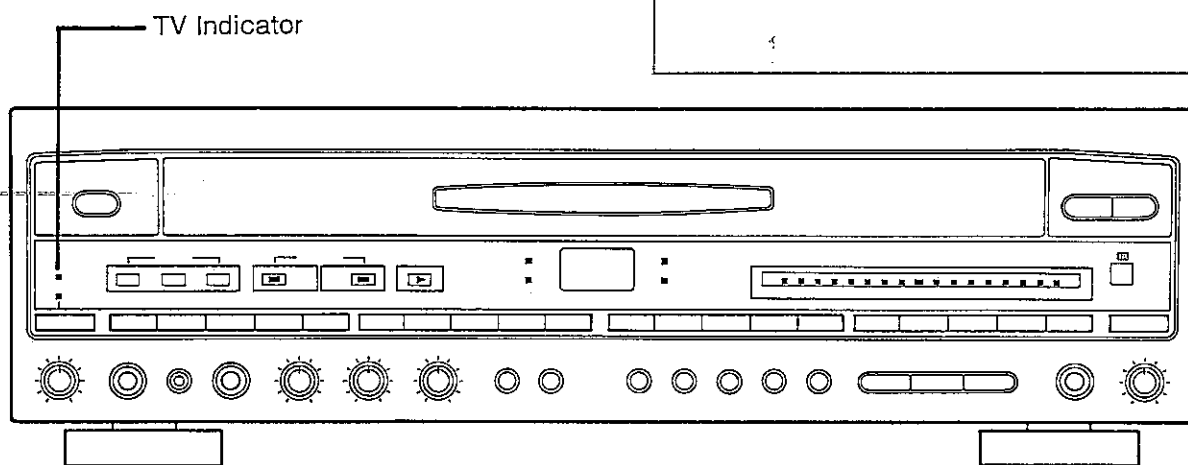
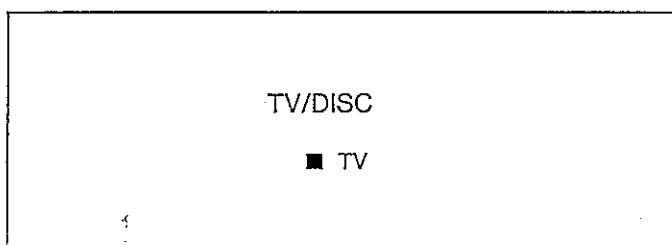
- ① Press the TV's channel buttons to switch to the TV.
- ② To switch back to the disc, set the TV's input switch (TV/video) to "video".

## For TVs without AV jacks

- ① Press the TV/DISC button to turn the TV indicator on.

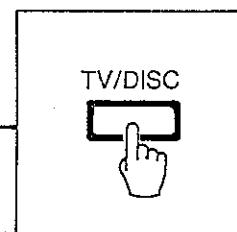
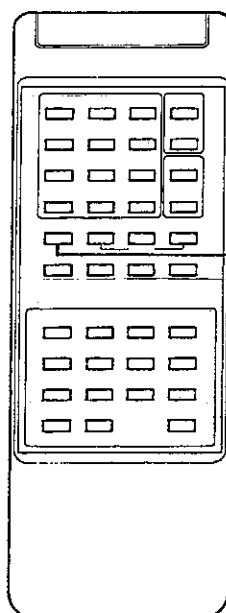


- ② Set the TV to the desired channel.
- ③ To switch back to the disc, set the TV to the video channel, channel 3 or 4, then press the TV/DISC button to turn the TV indicator off.



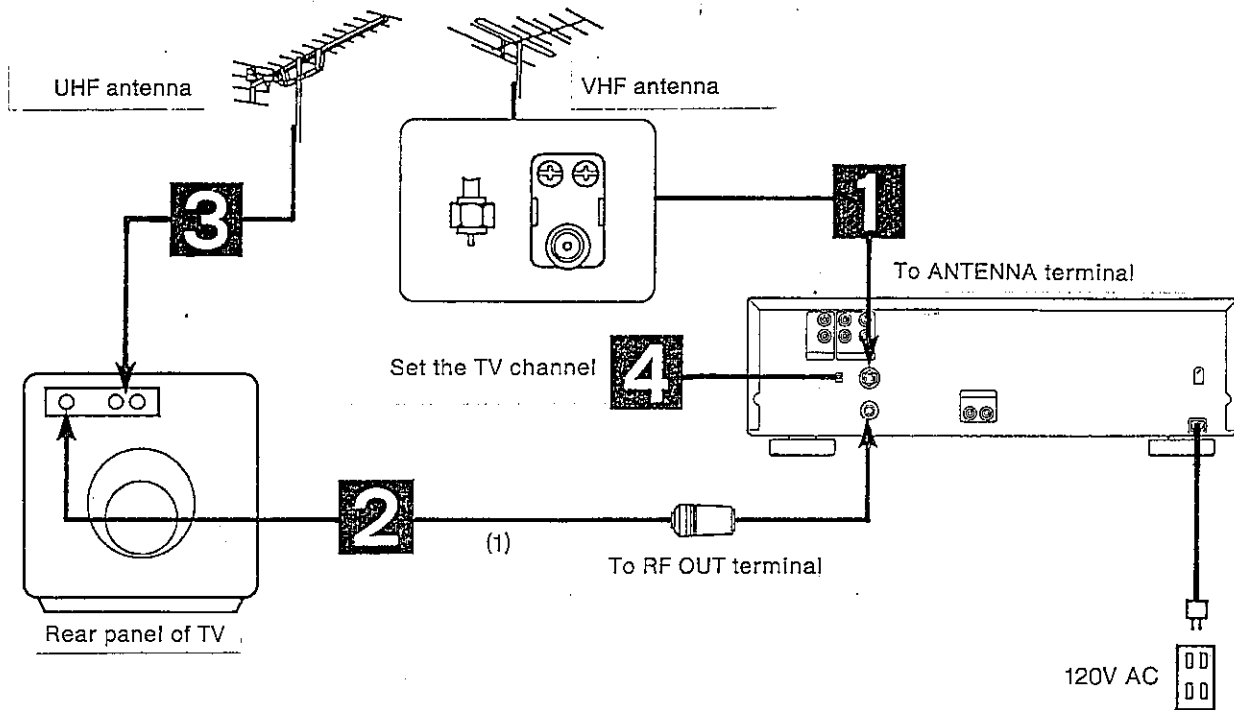
## When Only Watching TV

- ① Unload the disc from the player and turn the power off.
- ② Set the TV to the desired channel.



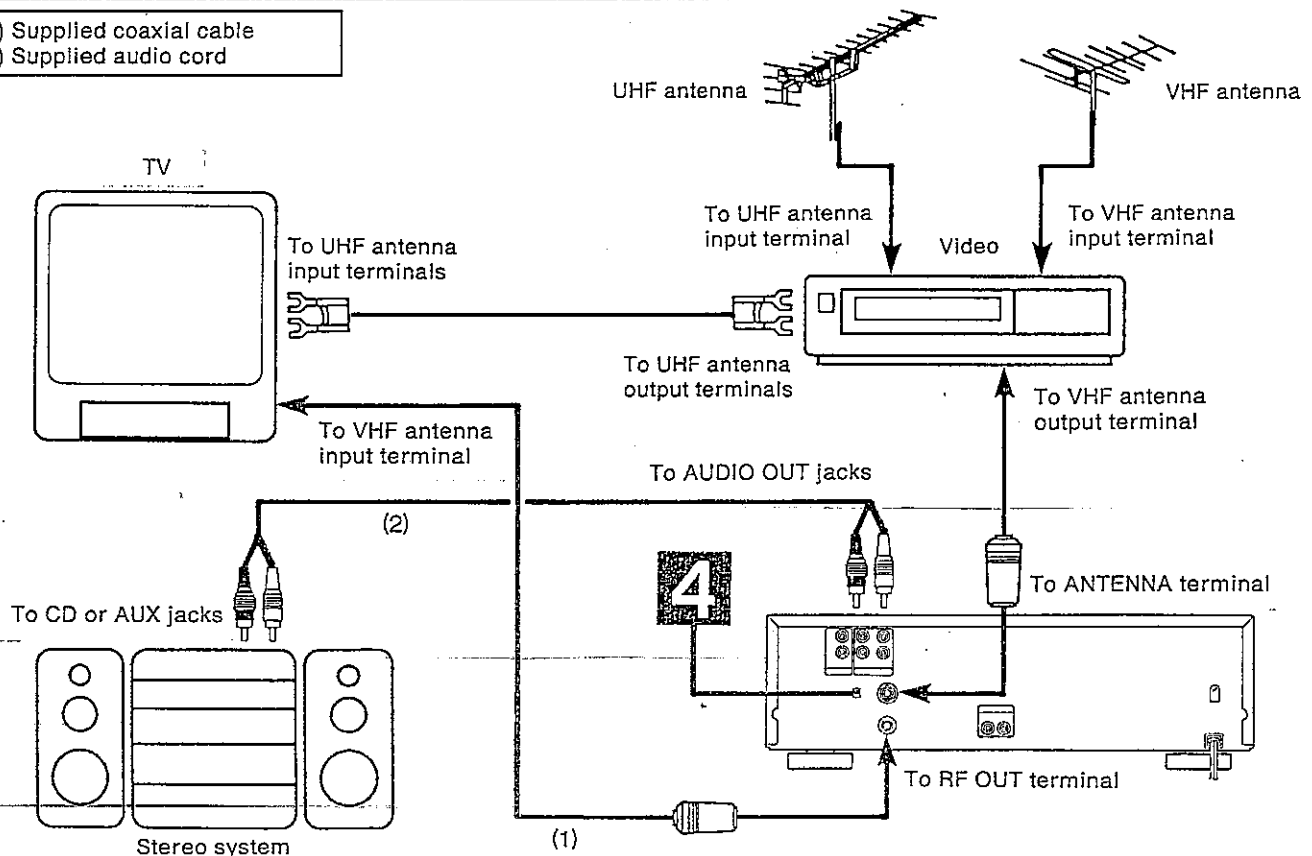
# CONNECTIONS

## Connections to a TV Without Video/Audio Input Jacks (1)



## Connections to a TV Without Video/Audio Input Jacks (2)

- (1) Supplied coaxial cable
- (2) Supplied audio cord



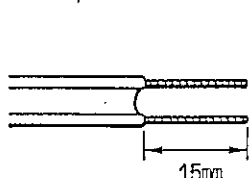
## Connections

Use the following procedure for the numbers (1, 2, 3 and 4) indicated on the connection diagrams on page 41.

- 1** Connect the VHF antenna wire to the ANTENNA terminal on the rear panel of the LV-P500E.  
(The method of connection differs according to the type of antenna wire.)

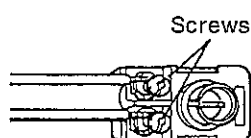
For feeder wires

1. Prepare the end of the feeder wire.

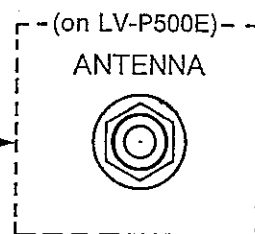


Expose the  
core wires.

2. Connect the core wires and tighten the screws.



(supplied)



For coaxial cables - 1 (with F-shaped connector)

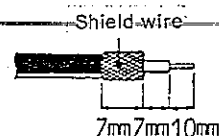
Connect to the input terminal.



For coaxial cables - 2 (without F-shaped connector)

1

Use a cutter to prepare the end of the cable.

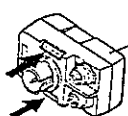


Shield-wire

7mm 7mm 10mm

2

Press on the catches and remove the antenna transformer's cover.

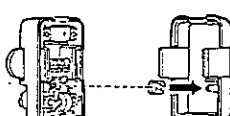


Cover

(included)

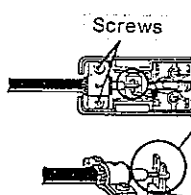
3

Remove the ring, and insert the projecting part into the cover.



4

Loosen the screws, insert the core into the hilt, then tighten the screws.

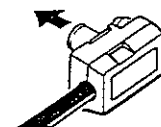


Screws

Insert the  
core and  
wrap  
around.

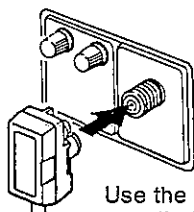
5

Replace the cover and connect.



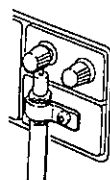
- 2** Connect the TV's VHF terminal to the RF OUT terminal on the rear panel of the LV-P500E.

For F-shaped connectors

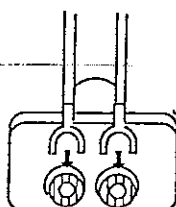


Use the F-shaped connector  
supplied with the TV or  
purchase a new one.

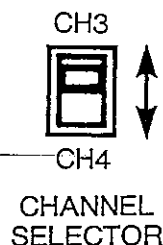
For coaxial cables



- 3** Connect the UHF antenna wire to the TV's UHF terminal.



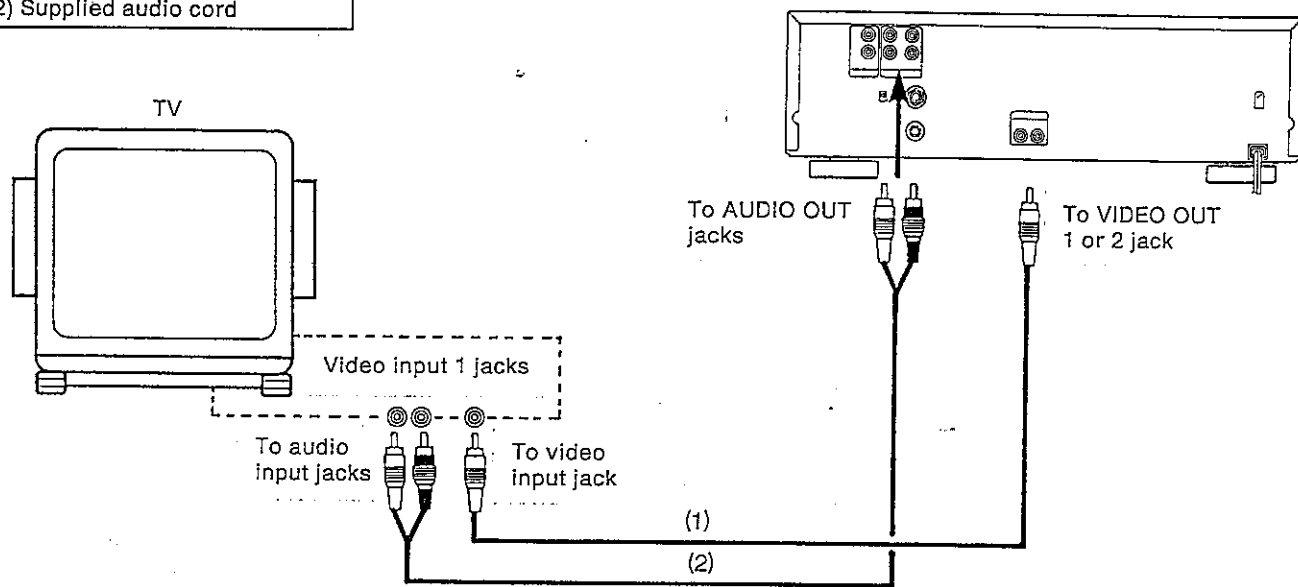
- 4** To watch video discs, set the TV channel to an unused channel, 3 or 4.



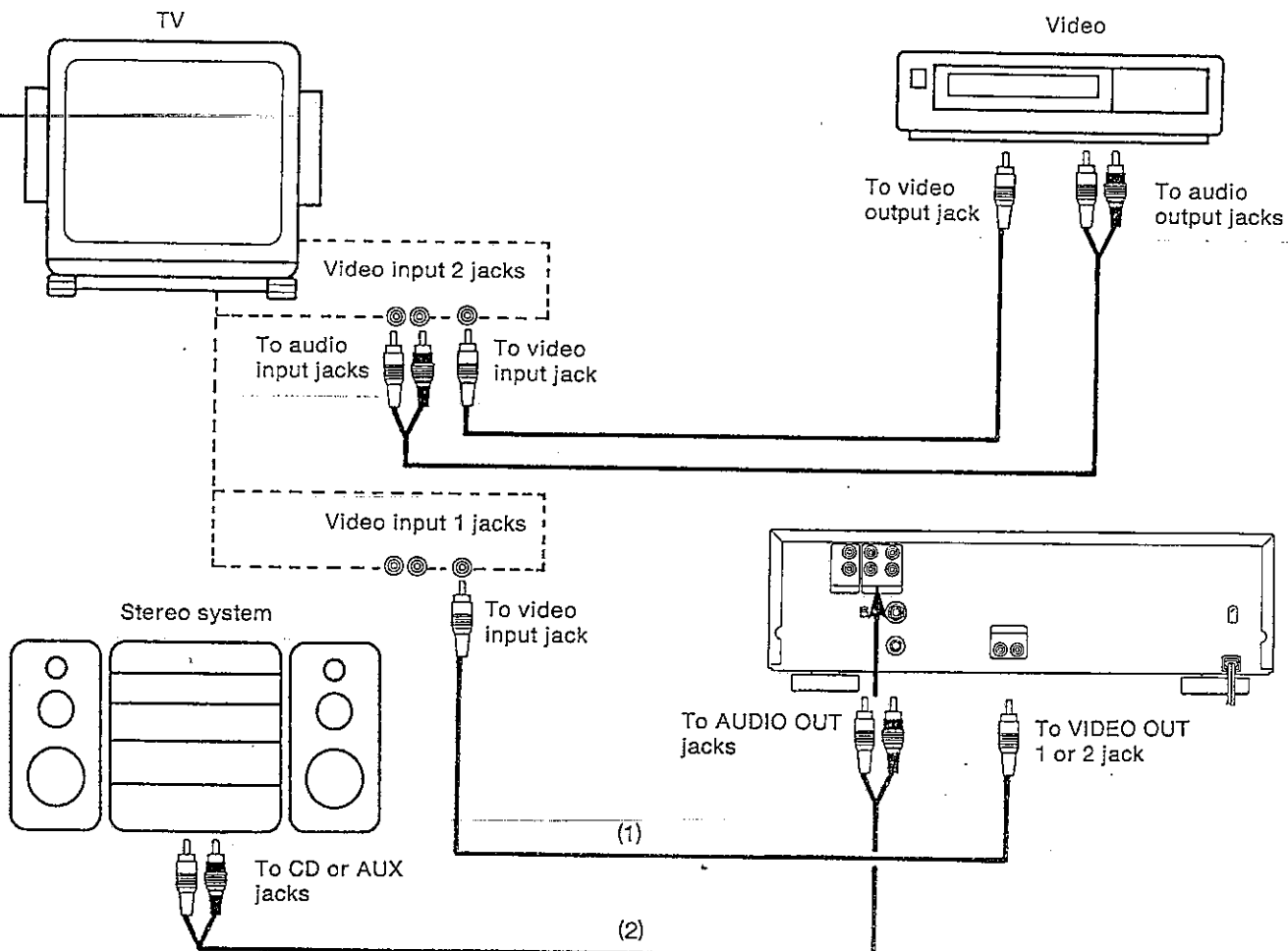
CHANNEL  
SELECTOR

## Connections to a monitor TV (with Video/Audio Input Jacks) (1)

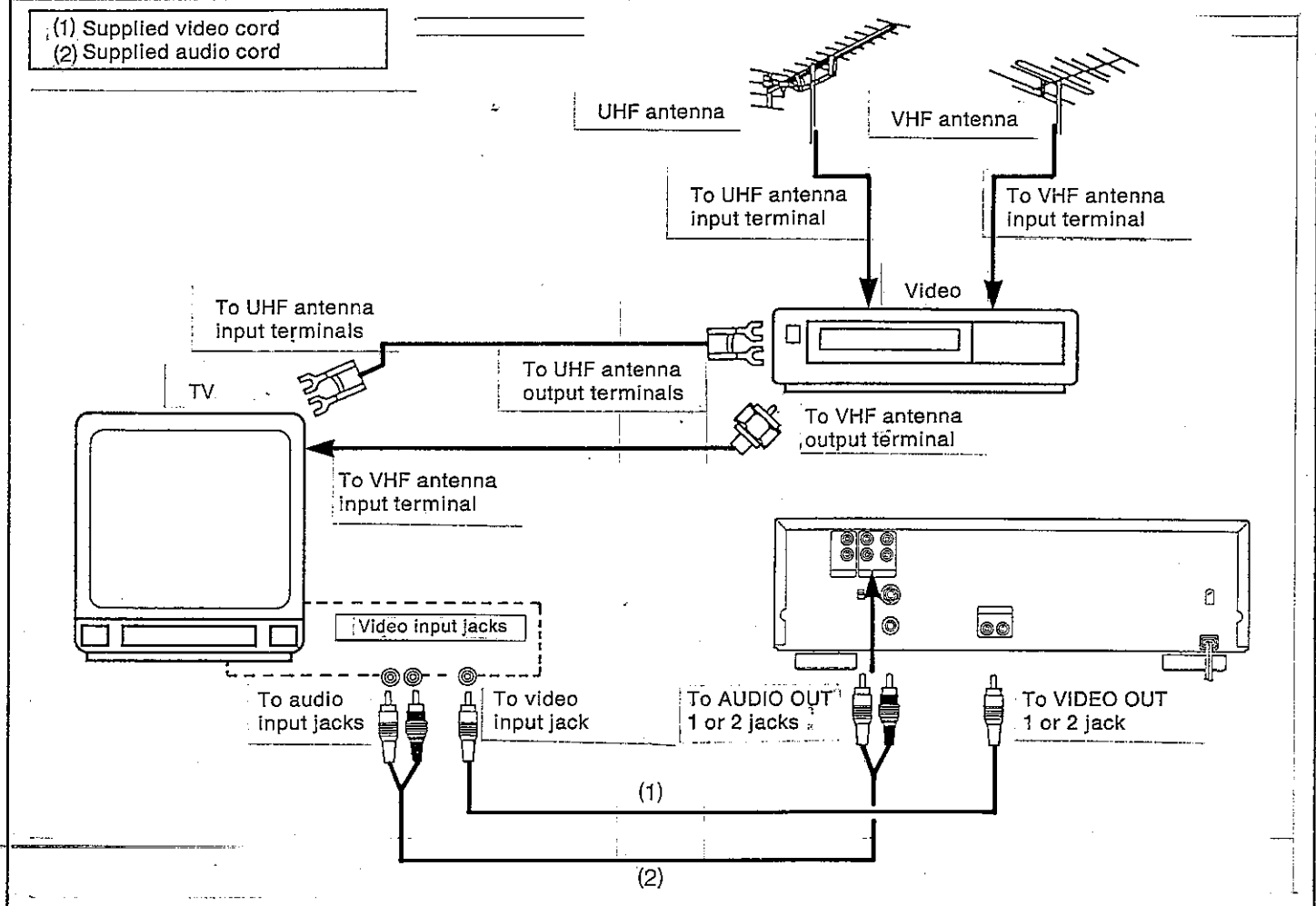
- (1) Supplied video cord  
(2) Supplied audio cord



## Connections to a monitor TV (with Video/Audio Input Jacks) (2)



### Connections to a monitor TV (with One System of Video/Audio Input Jacks) (3)

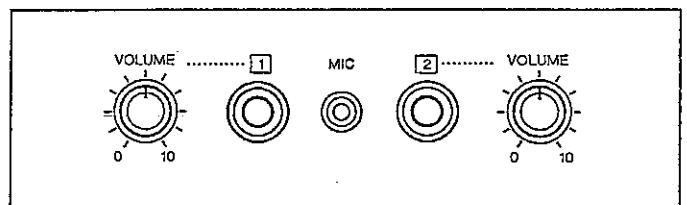


#### NOTES:

- Be sure to turn off the power switches for all components before connecting and disconnecting cords.
- When using audio equipment, set the amplifier's volume to an appropriate level and turn the TV's volume to the minimum. Also note that noise may be produced on a tuner if the tuner is used during playback on the LV-P500E.
- The colors on the TV may be distorted if the speakers are placed near the TV, so keep them away whenever possible. Also, noise (induction humming, etc.) may be produced through mutual interference if audio equipment is placed near the TV. Keep such equipment far enough away so as not to cause noise.

#### Cautions when connecting the audio inputs from a TV, VTR, etc. to the laser disc player's audio outputs

If excessively strong signals are input to the microphone during karaoke, the sound may be distorted depending on the connected components. If this happens, lower the microphone's volume.



# TROUBLESHOOTING GUIDE

Problems	Causes	Measures
Power does not turn on.	● Power cord is not plugged in.	● Plug in power cord securely.
Disc tray does not open.	● Power is not on.	● Turn on power and press OPEN/CLOSE button.
Disc tray opens by itself.	● Disc is deformed (warped).	● Correct warping.
	● Disc is not set properly in disc tray.	● Set disc properly.
Picture or sound quality is poor.	● Disc is dirty or scratched.	● Clean disc.
	● Connections are poor.	● Connect properly.
	● Noise source nearby.	● Move noise source (audio component, etc.) away.
Playback does not start.	● No disc is loaded.	● Load disc in disc tray.
	● Condensation inside.	● Leave power on for 1 to 2 hours, then start playback.
	● KARAOKE MODE indicator lights.	● Press a Direct Search button.
		● Press the KARAOKE/NORMAL button (the indicator turns off), then press the PLAY/PAUSE button.
	● LDs: Side on which no video signals are recorded is being played.	● Place disc with label for desired side facing up.
	● CDs/LDs: Disc turned upside down.	● Place disc with labelled side facing up.
	● Connections are poor.	● Connect properly.
No sound is produced.	● Audio input's "EXT." indicator is lit.	● Press INPUT SELECTOR button to turn "DISC" indicator on.
	● Volume of LV-P500E, TV or audio equipment set to minimum.	● Set volume to appropriate level.
	● Playback speed changed (still or frame-by-frame).	● Press PLAY/PAUSE button to set to normal playback mode.
	● Connections are poor.	● Connect properly.
No picture appears.	For TVs without AV (audio/video) inputs	
	● TV not set to unused channel.	● Set TV to unused channel, 3 or 4.
	● TV channel not adjusted properly.	● Adjust channel properly.
	For TVs with AV (audio/video) inputs	
	● TV's input selector set to "TV".	● Set TV's input selector to "video".
	● Connections are poor.	● Connect properly.
Picture is stopped.	● Disc with picture stop signal is being played.	● Press PLAY/PAUSE button.
Digital sound not heard.	● Analog audio mode is set (DIGITAL indicator off).	● Press DIGITAL/ANALOG button.

## During karaoke

Problems	Causes	Measures
Does not stop after each track/chapter.	<ul style="list-style-type: none"> <li>KARAOKE MODE indicator is off.</li> </ul>	<ul style="list-style-type: none"> <li>Press KARAOKE/NORMAL button (indicator lights).</li> </ul>
Cannot hear recorded vocals on multiple audio disc.	<ul style="list-style-type: none"> <li>Digital audio mode (DIGITAL indicator lit) is set.</li> </ul>	<ul style="list-style-type: none"> <li>Press DIGITAL/ANALOG button.</li> </ul>
	<ul style="list-style-type: none"> <li>BALANCE control set to left (KARAOKE) side.</li> </ul>	<ul style="list-style-type: none"> <li>Set to right (VOCAL) side.</li> </ul>
	<ul style="list-style-type: none"> <li>VOCAL FADER button is on (indicator is lit).</li> </ul>	<ul style="list-style-type: none"> <li>Press VOCAL FADER button.</li> </ul>
No sound from microphone.	<ul style="list-style-type: none"> <li>Microphone's volume control is set to minimum.</li> </ul>	<ul style="list-style-type: none"> <li>Adjust microphone volume control to an appropriate level.</li> </ul>
Your voice does not replace vocals recorded in the disc. (VOCAL CHANGER button)	<ul style="list-style-type: none"> <li>Disc is not a multiple audio disc.</li> </ul>	<ul style="list-style-type: none"> <li>Play a multiple audio disc.</li> </ul>
	<ul style="list-style-type: none"> <li>VOCAL CHANGER button is not on (indicator is not lit).</li> </ul>	<ul style="list-style-type: none"> <li>Press VOCAL CHANGER button.</li> </ul>
Audio part does not switch when AUDIO OUT button pressed.	<ul style="list-style-type: none"> <li>DIGITAL MULTIPLE AUDIO button is on (indicator is lit).</li> </ul>	<ul style="list-style-type: none"> <li>Press DIGITAL MULTIPLE AUDIO button.</li> </ul>
	<ul style="list-style-type: none"> <li>VOCAL CHANGER or VOCAL FADER button is on (indicator is lit).</li> </ul>	<ul style="list-style-type: none"> <li>Press VOCAL CHANGER or VOCAL FADER button.</li> </ul>
Sound does not switch when DIGITAL/ANALOG button pressed.	<ul style="list-style-type: none"> <li>DIGITAL MULTIPLE AUDIO button is on (indicator is lit).</li> </ul>	<ul style="list-style-type: none"> <li>Press DIGITAL MULTIPLE AUDIO button.</li> </ul>

## When Using Remote Control

Problems	Causes	Measures
Remote control does not operate.	<ul style="list-style-type: none"> <li>Batteries are not inserted properly.</li> </ul>	<ul style="list-style-type: none"> <li>Insert batteries properly.</li> </ul>
	<ul style="list-style-type: none"> <li>Batteries are dead.</li> </ul>	<ul style="list-style-type: none"> <li>Replace both batteries.</li> </ul>
	<ul style="list-style-type: none"> <li>Obstacle between remote control unit and sensor.</li> </ul>	<ul style="list-style-type: none"> <li>Change position or remove obstacle.</li> </ul>

The following symptoms are not problems with the LV-P500E or the disc.

Still picture is shaky.	<ul style="list-style-type: none"> <li>Still pictures may be shaky at scenes where actions are very quick.</li> </ul>
Starting time or searching time is long, or much time is required to return to beginning of repeat section.	<ul style="list-style-type: none"> <li>For some discs, extra time is required to read the codes. If the required time is extremely long, press the CLEAR button. Note that in this case playback may not start from exactly the right position.</li> </ul>
Stripes appear on the TV screen.	<ul style="list-style-type: none"> <li>Depending on the strength of the TV broadcast signals, stripes may appear on the screen when watching the TV with the system's power turned on. This is not a malfunction of the TV or the system. Turn the system's power off when watching TV.</li> <li>If the TV broadcast does not appear, check the connections.</li> </ul>

# SPECIFICATIONS

Type ..... Laser Disc Player (CD,CDV,LD)  
Signal System ..... Conforms to NTSC color system

## Usable discs

Laser disc .....	(30cm disc): Standard (CAV) disc: both sides, max. playing time 1 hour Long play (CLV) disc: both sides, max. playing time 2 hours (20cm disc): Standard (CAV) disc: both sides, max. playing time 28 minutes Long play (CLV) disc: both sides, max. playing time 40 minutes
Compact disc .....	8cm disc: max. playing time 20 minutes 12cm disc: max. playing time 74 minutes
Compact disc with video .....	12cm disc: max. playing time Video part: 5 minutes (CLV) Audio part: 20 minutes (Digital)

## Spindle motor revolutions

Laser disc .....	Standard (CAV) disc: 1800 rpm
	Long play (CLV) disc: 1800~600 rpm (with 30cm disc)
Compact disc .....	600~200 rpm (with 12cm disc)
Compact disc with video .....	Video part: 2700~1800 rpm
	Audio part: 600~340 rpm

Video output .....	1Vp-p, 75 Ohms unbalanced, sync. negative, pinjacks (2)
Audio output .....	Digital audio output level 200 m Vrms (1kHz, -20dB) pinjacks
	Analog audio output level 200 m Vrms (1kHz, 40%) pinjacks

Audio inputs ..... 200 mVrms (47k $\Omega$ ), pin jacks

RF output ..... VHF,F type jack, 75 Ohms unbalanced, monaural US channel  
3 or channel 4 switched type.

Antenna input ..... VHF, F type jack, 75 Ohms unbalanced.

Headphone output ..... Stereo jack (impedance more than 8 Ohms) M6 terminal.

Power requirements ..... AC 110V/220V/240V, 50/60Hz

Power consumption ..... 36W

Weight ..... 9.5Kg

Dimensions ..... 420(W) x 420(D) x 135(H) mm

Temperature range ..... +5°C ~ +35°C

Humidity range ..... 5%~90%

Design and specifications are subject to modification without notice.

# SANYO

**SANYO Electric Co., Ltd.**



This file was downloaded from the site  
[mans.io](http://mans.io)

## **Instruction manuals and user guides**

[Samsung](#)

[Pioneer](#)

[Alpine](#)

[LG](#)

[Dell](#)

[Sharp](#)

[Sony](#)

[Philips](#)

[Epson](#)

[Netgear](#)