

SONY®

SONY

VIDEO CD/CD/LD Player MDP-V9K

# VIDEO CD/CD/LD Player

Operating Instructions \_\_\_\_\_ EN

取扱説明書 \_\_\_\_\_ CjC

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MDP-V9K

## WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

This VIDEO CD/CD/LD Player is classified as a CLASS 1 LASER product.

### CAUTION

The use of optical instruments with this product will increase eye hazard.

As the laser beam used in this player is harmful to the eyes, do not attempt to disassemble the cabinet. Refer servicing to qualified personnel only.

## Precautions

### Safety

- If any liquid or solid object falls into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- The unit is not disconnected from the house current as long as it is connected to the AC outlet, even if the unit itself has been turned off.
- Unplug the unit from the wall outlet if you do not intend to use it for an extended period of time. To disconnect the cord, pull it out by the plug, never by the cord itself.
- Take care that your fingers or other objects do not get pinched by the front cover of the unit when you place a disc on the disc tray. The front cover automatically slides up and down when the disc tray opens and closes.

### Installing

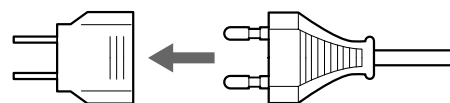
- Allow adequate air circulation to prevent internal heat buildup.
- Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the space under the unit.
- Do not install the unit near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- Do not install the unit in an inclined position. It is designed to be operated in a horizontal position only.
- Do not place heavy objects on the unit.
- Do not place the unit on soft surfaces (such as rugs, blankets, or mattresses) or any projections that may block the movement of the front cover.

- If the unit is brought directly from a cold to a warm location, moisture may condense inside the unit. If this happens, playback may not start. When you first install the unit, or when you move it from a cold to a warm location, wait for about one hour before operating the unit.

### Operating voltage and AC plug

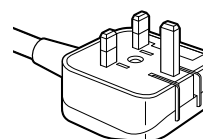
This unit does not have a voltage selector. You can operate the unit between 110 and 240 V AC, 50/60Hz.

If the AC plug of your unit does not fit into the wall outlet, attach the AC plug adaptor (supplied with models other than Hong Kong model).



### Model for Hong Kong

The model for Hong Kong has an AC plug as shown below. The AC plug adaptor is not supplied with these units.



If you have any questions or problems concerning your unit, please contact your nearest Sony dealer.

## Table of contents

- 4 Welcome!
- 4 About this manual

### Getting Started

- 5 Step 1: Unpacking
- 5 Step 2: Inserting batteries into the remote commander
- 6 Step 3: Connecting the player

### Basic Operations

- 10 Playing a disc
- 13 Playing karaoke
- 15 Playing a VIDEO CD using PBC functions (PBC Playback)

### Additional Operations

- 16 Understanding on-screen indications
- 18 Selecting a chapter or track directly (Chapter/Track Search)
- 19 Searching by frame, time, or scene number (Frame/Time/Scene Search)
- 20 Searching for a particular point on a disc
- 22 Viewing frame-by-frame action
- 23 Resuming LD/VIDEO CD playback (Auto Resume)
- 24 Resuming VIDEO CD Playback from a point you like (Book Mark)
- 25 Playing a section repeatedly (Repeat Play)
- 27 Playing songs in random order (Shuffle Play)
- 29 Playing songs in any order you like (Program Play)
- 30 Playing a disc within a specified period of time (Auto Program Play)
- 32 Using the sound control functions
- 33 Selecting karaoke song order (Reserve)
- 36 Using karaoke functions

### Additional Information

- 42 Troubleshooting
- 43 Specifications
- 44 Optical discs
  
- 46 Index to parts and controls
- 48 Glossary
- 48 Index

EN

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## Welcome!

Thank you for purchasing the Sony Laser Disc Player. Before operating the unit, please read this manual thoroughly and retain it for future reference.

The MDP-V9K, an easy-to-operate laser disc player, allows you to:

- Play many types of optical discs, LDs, CDs and VIDEO CDs
  - Play a double sided LD without turning it over
  - Play VIDEO CDs which conform to Ver. 2.0 of VIDEO CD standards, using its Play Back Control (PBC) functions which allow you to:
    - Perform interactive playback using menu screens
    - View high-resolution still pictures
  - Mark a point on a VIDEO CD where you want to resume playback—Book Mark
  - The COLOR SYSTEM selector allows you to play PAL VIDEO CDs regardless of the TV system (PAL, NTSC or Multi Monitor system)
  - Continue an LD/VIDEO CD from the exact point at which you stopped—Auto Resume
  - Use enjoyable functions such as Program, Shuffle, Auto Program or Repeat play
  - Play karaoke (sing along with a disc)  
The player enters karaoke mode when a microphone is connected. Features include:
    - 9 song reservation from two discs for non-stop karaoke entertainment—Reserve
    - Digital key controller to adjust backup key to your voice\*
    - Up to four microphones can be used by connecting to two microphone jacks on each front and rear panel
    - Digital echo to create the ideal mood
    - Singing along with the original vocals—Vocal Select\*
    - Automatic applause—Auto Effect\*
    - Getting help when you forget words or melody—Vocal Support
    - Adding richness to your voice—Karaoke Star
    - Playing karaoke with non-karaoke discs—Karaoke Pon\*
    - Playing karaoke with video tapes—LINE IN input \*
    - Pausing after a song is played—Auto Pause \*
- \* These functions are also available in non-karaoke mode.

### Conforming to Ver. 2.0 of VIDEO CD standards

This player conforms to Ver. 1.0, Ver. 1.1, and Ver. 2.0 of the VIDEO CD standards. If you use a Ver. 2.0 VIDEO CD, Play Back Control (PBC) functions (the new part of Ver. 2.0 of the VIDEO CD standards) enable you to play the disc interactively following menus on the screen. You can also enjoy high-resolution still pictures, as well as normal playback of moving pictures and sound.


### Compatible color systems

This player plays LDs recorded in the NTSC color system, and VIDEO CDs in both the NTSC and PAL color systems.

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## About this manual

### Conventions

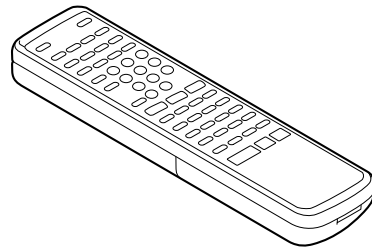
- Instructions in this manual describe the controls on the remote. You can also use the controls on the player if they have the same or similar names as those on the remote.
- The following icon is used in this manual:  
 Indicates hints and tips for making the task easier.

## Step 1

### Unpacking

Check that you have the following items:

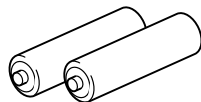
- Remote commander RMT-M45A



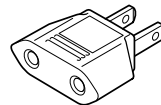
- Audio/Video cable



- Two R6 (size AA) batteries

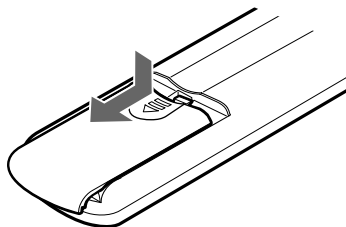


- AC plug adaptor (supplied with models other than Hong Kong model)

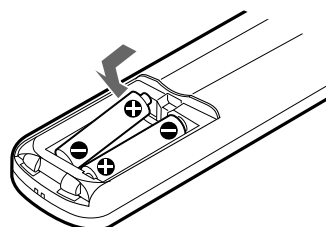


## Step 2

### Inserting batteries into the remote commander



- 1 Turn the commander over, and remove the cover.



- 2 Check the polarities and position two R6 (size AA) batteries correctly.

- 3 Close the cover.

#### Notes

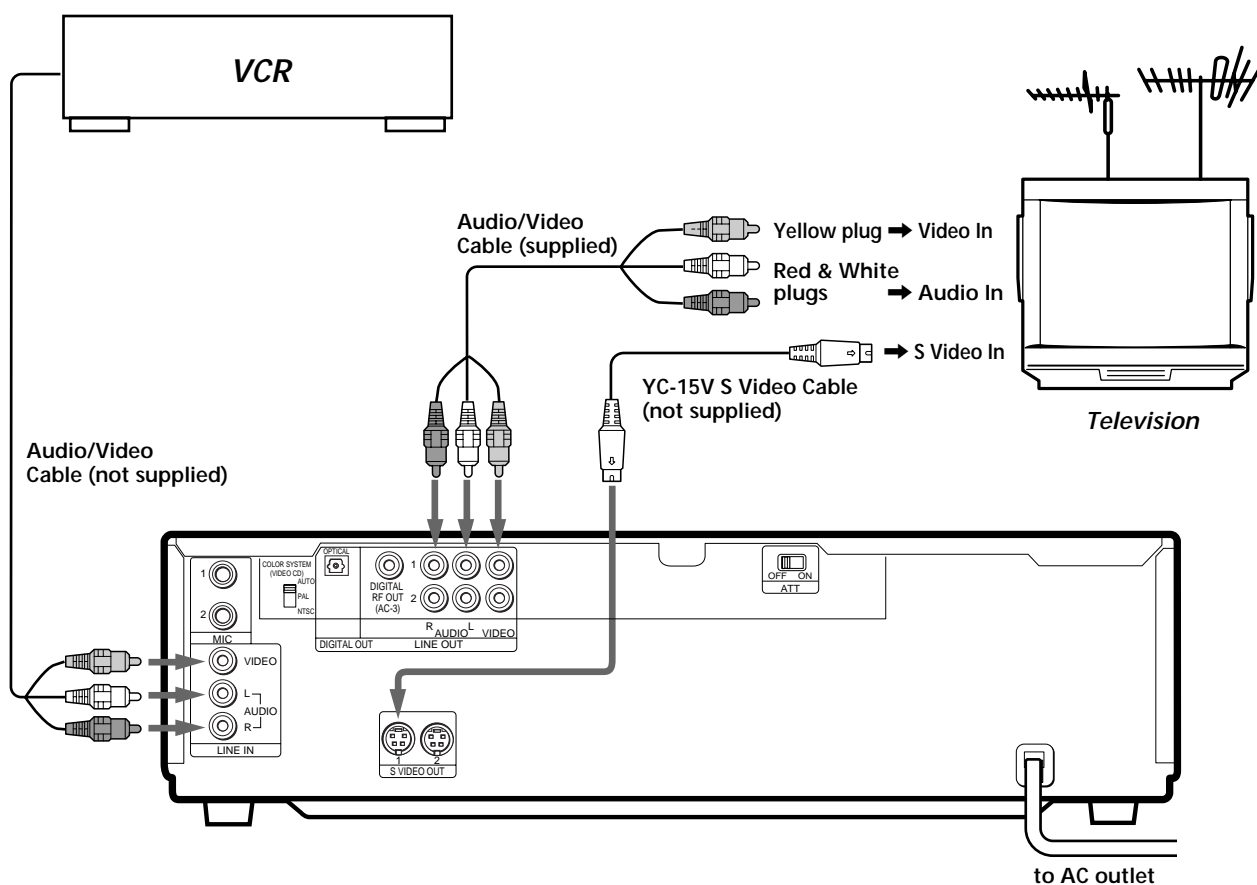
- With normal use, the batteries should last for approximately six months.
- Use two R6 (size AA) batteries.
- If you use the batteries incorrectly, they may leak or explode. See notes below for correct usage.
  - Insert the batteries with correct polarity as shown above.
  - Do not use a new battery together with an old one.
  - Do not use different types of batteries together.
  - Do not recharge the batteries.
  - If you are not going to use the remote commander for an extended period of time, remove the batteries to avoid possible damage from battery leakage.
  - If battery leakage should occur, wipe off the leakage from the battery compartment, then insert new batteries.
- Do not let direct sunlight or powerful artificial light fall directly on the remote sensor on the front panel of the player. Such light interferes with the signals from the remote commander, causing the remote commander to fail to operate correctly.

## Step 3 Connecting the player

### Television hook-up

To play LDs or VIDEO CDs, hook up a television to the player. Take out the supplied audio/video connecting cable (yellow, red, and white plugs). Use this to connect the player to the television. Once you have hooked up the television, set the input selector on the TV to "Video." Before connecting or disconnecting any cables, turn off all equipment.

If your TV has an S video input jack, use a YC-15V S Video Connecting Cable instead of the supplied video cable to connect the player to get a better picture.



### Note

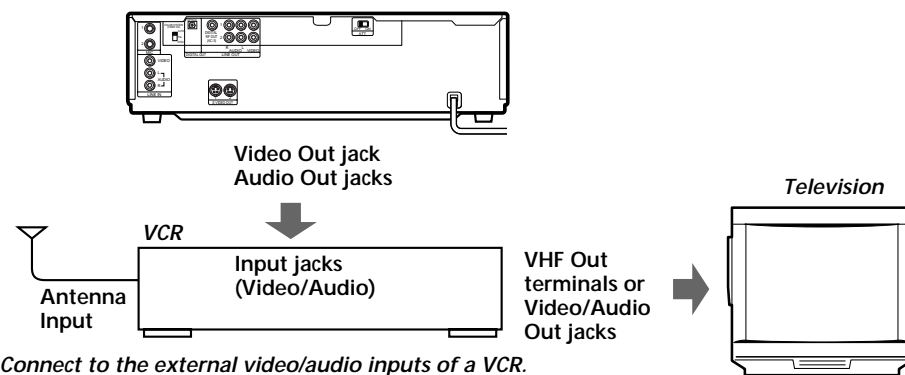
To view a PAL VIDEO CD, the COLOR SYSTEM selector on the rear of the player should be set to the appropriate position, according to your TV system. See "COLOR SYSTEM selector setting" on page 7.

## Television/VCR hook-up

Connect the player to the VCR's inputs when:

- the video inputs of the TV are already used for the VCR or a similar machine.
- the TV has only an antenna input.

When you connect this player using the VCR's inputs, do not use the LINE IN jacks of the player to connect the VCR because doing so will cause interference with the sound or picture.



### Notes

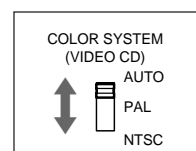
- Make sure all equipment is turned off before connecting or disconnecting any cables.
- Connection methods may differ; when in doubt about a connection, consult the TV or VCR manufacturer's manual.
- If the sound or picture is disturbed by noise, try moving the equipment farther apart.
- Firmly insert plugs into the jacks. A loose connection may cause noise.
- To prevent interference with TV broadcast reception, turn off all equipment connected but not currently in use.
- If the TV only has a monaural phono jack for audio input, use a VMC-910/915 Connecting Cable (not supplied).

## COLOR SYSTEM selector setting (only for VIDEO CDs)

This player conforms to the NTSC and PAL color systems. Set the COLOR SYSTEM selector on the rear of the player to the appropriate position, according to your TV.

- 1 Turn off the power of the player.
- 2 Set the COLOR SYSTEM selector to AUTO, PAL or NTSC, according to the TV system.

TV system	Set to
Multi monitor system	AUTO
PAL system	PAL
NTSC system	NTSC



### Step 3 Connecting the player (continued)

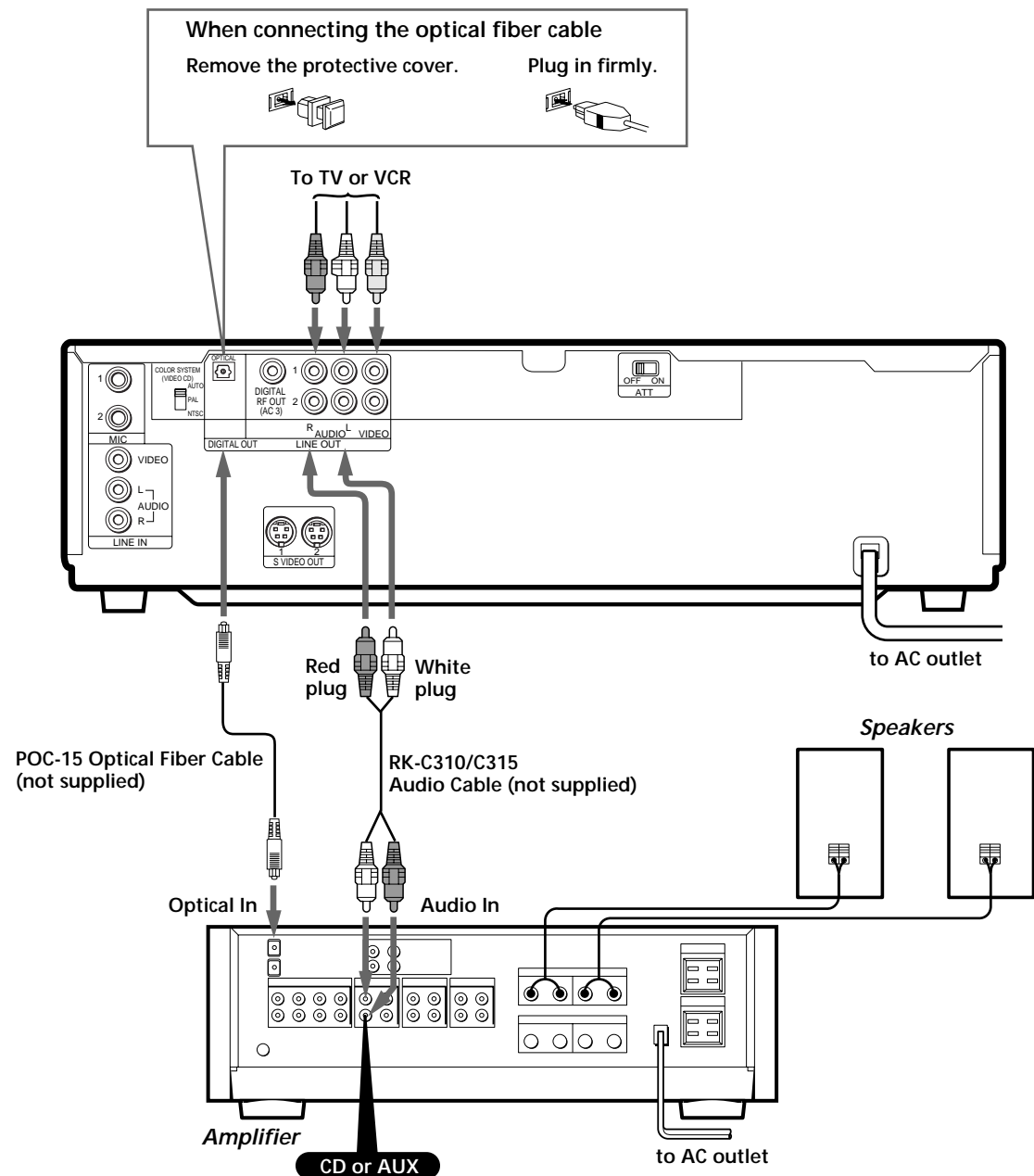
#### Audio equipment hook-up

To achieve full stereo sound from the player, hook up a stereo system following the diagram below. Use an RK-C310 (or RK-C315) Audio Connecting Cable (not supplied) to connect the player to your amplifier or receiver. Before connecting or disconnecting any cables, turn off all equipment.

#### To achieve digital sound

Optical fiber digital audio output enables high quality sound reproduction. If your amplifier has an optical input connector, or if you have a D/A converter unit with optical input, connect the player to the amplifier or D/A converter using an Optical Fiber Audio cable POC-15 (not supplied).

- You can get digital audio output from CDs and most LDs. When you play an LD which does not have digital sound tracks, you cannot get any sound from the DIGITAL OUT (OPTICAL) connector.
- Sound from a microphone is not output from the DIGITAL OUT (OPTICAL) connector. When you play karaoke with a microphone, connect the player using an Audio Cable (red & white plugs).




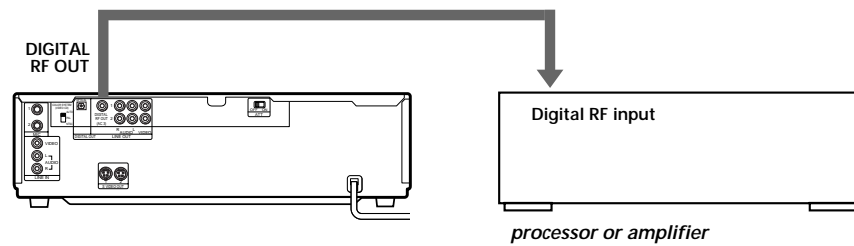


**Notes**


- You cannot make digital recordings of VIDEO CDs, since this player does not output signals through the DIGITAL OUT (OPTICAL) connector while playing a VIDEO CD.
- Make sure all equipment is turned off before making any connections.
- Firmly insert plugs into the jacks. A loose connection may cause noise.
- When listening to a radio broadcast, turn off the player to get better reception.

**If you have a processor or amplifier that conforms to the Dolby Surround AC-3 system\***

To enjoy discs that conform to the Dolby Surround AC-3 system (discs with the  logo), connect the DIGITAL RF OUT to the processor or amplifier's digital RF input. You can obtain a theater-like atmosphere more effectively than with Dolby Pro Logic Surround. For details, refer to the instructions supplied with the processor or decoder amplifier.

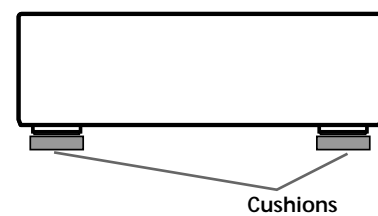


This laser disc player provides an AC-3 RF Output for laser discs recorded with Dolby AC-3 digital audio soundtracks. Dolby Surround AC-3 decoders with an AC-3 RF Input can accept this signal directly. Dolby Surround AC-3 decoders with an AC-3 Digital Input require a separate AC-3 RF demodulator.

\* "DOLBY", "AC-3", and the double-D  symbol are trademarks of Dolby Laboratories Licensing Corporation.

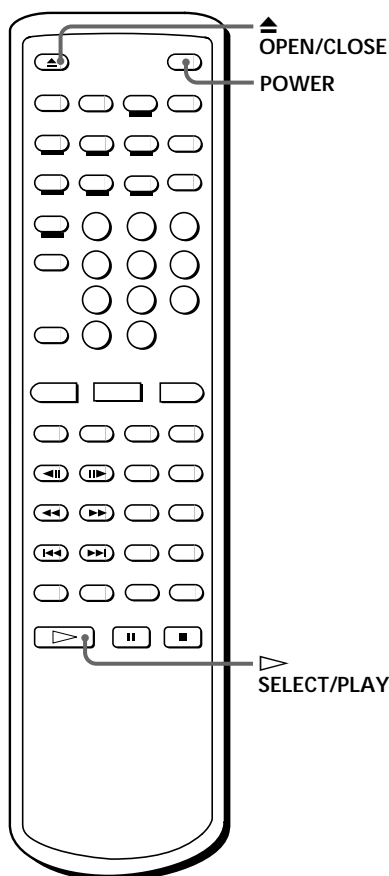
**Using Cushions**

We recommend that you put a cushion under each foot of the laser disc player to reduce vibration caused by loud sound. This will create a more pure and stable bass sound. The four cushions are supplied in this plastic bag.



## Basic Operations

### Playing a disc



- You can also turn on the player by pressing OPEN/CLOSE on the player.

#### Notes

- If you place more than one disc on the tray, or if the disc is not seated properly, the disc may not start playing, and may cause damage the disc or player.
- Do not transport the player while playing a disc as doing so may damage your disc or player.
- Do not use a CD stabilizer when playing a CD or VIDEO CD as doing so may damage your disc or player.

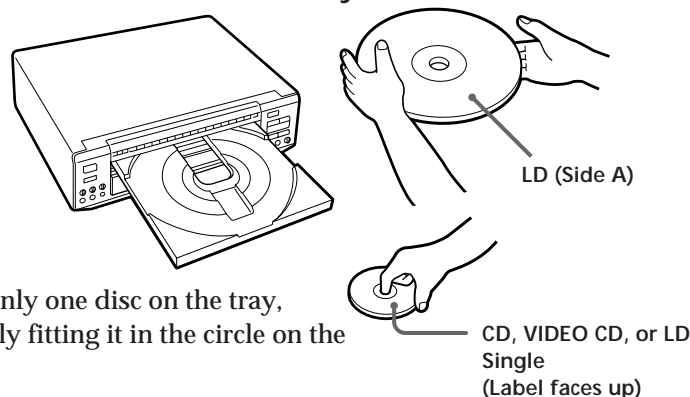
This section shows you how to play an LD, CD or VIDEO CD.

#### Before you start...

Connect the player to your TV and set the input selector on the TV to "Video" (see "Connecting the player" on page 6).

### Loading and playing a disc

- 1 Press POWER to turn on the player.**  
You can also directly turn on the player by pressing SELECT/PLAY on the remote commander or player.
- 2 Press OPEN/CLOSE to open the disc tray.**  
The front cover of the player automatically slides down and the disc tray comes out.
- 3 Place a disc on the disc tray.**



Place only one disc on the tray, carefully fitting it in the circle on the tray.

- 4 Press SELECT/PLAY.**  
The disc tray closes and the disc starts playing. You can also start playing by pressing the disc tray to close it.

#### When you play a double-sided LD

The upper side of the LD (side A) starts playing. When the upper side ends, the other side (side B) starts playing automatically.

#### To play a VIDEO CD with Play Back Control (PBC) functions (Ver. 2.0 VIDEO CD)

Ver. 2.0 VIDEO CDs have Play Back Control (PBC) functions, which allow you to play them interactively. When press SELECT/PLAY or push in the disc tray in step 4, a menu appears on the screen and the player waits for you to play the disc using the PBC functions. To play a VIDEO CD using PBC functions, see "Playing a VIDEO CD using PBC functions" on page 15 for details.



- When playing a double-sided LD, the player determines that the upper side of the disc is side “A” and the other side is “B,” regardless of the label “A” or “B” printed on the disc.
- When playing side A of an LD, “SIDE A” appears on the front panel display. When playing side B of an LD, “SIDE B” appears on the front panel display.
- When playback of LD side B ends, the player stops.
- When playing a CD or VIDEO CD, the DISC SIDE B button does not function.

**Note**

- When you press **|| PAUSE**, the picture goes blank when playing a CLV LD, and the picture freezes when playing a CAV LD or VIDEO CD (see “Viewing frame-by-frame action” on page 22).

**To view a PAL VIDEO CD**

Set the COLOR SYSTEM selector on the rear panel to the appropriate position, according to your TV. See “COLOR SYSTEM selector setting (only for VIDEO CDs)” on page 7 for details.

**Autotuning** when a PAL VIDEO CD is played, the VIDEO CD PAL OUT indicator on the player lights up.

**PAUSE** when a VIDEO CD is played, the VIDEO CD PAL OUT indicator on the player lights up.

The indicator also lights up even when an NTSC disc is played.

However, the picture is not played properly.

To	Press
Stop play	<b>■ STOP</b>
Pause play	<b>   PAUSE</b>
Resume play after pause	<b>   PAUSE</b> or <b>▷ SELECT/PLAY</b>
Scan forward or backward	<b>◀◀/▶▶ SCAN</b>
Skip chapters or tracks	<b>◀◀/▶▶ PREV/NEXT (ACS/AMS)</b>
Play step by step	<b>◀  /  ▶ STILL/STEP (CAV LDs only)</b>
Go to a chapter/track	Number button During PBC VIDEO CD playback, press number buttons to select items in the on-screen menu (see page 15 for details).
Remove the disc	<b>▲ OPEN/CLOSE</b>

**To start playing from the beginning of either LD side**

Press DISC SIDE A to play the upper side of the LD from the beginning.

Press DISC SIDE B to play the other side of the LD from the beginning.

**To pause playing just before starting**

Press **|| PAUSE** instead of pressing **▷ SELECT/PLAY** after you place the disc on the tray.

The disc tray closes and the player waits at the start of the disc until you press **▷ SELECT/PLAY** or **|| PAUSE**. If you want to start from side B of an LD, press **|| PAUSE**, then DISC SIDE B.

**To stop playing and turn off the player**

Press POWER.

You can resume playback of an LD from the point you stopped at by simply pressing **▷ SELECT/PLAY** (see “Resuming LD/VIDEO CD playback” on page 23 ).

**To stop playing and remove the disc**

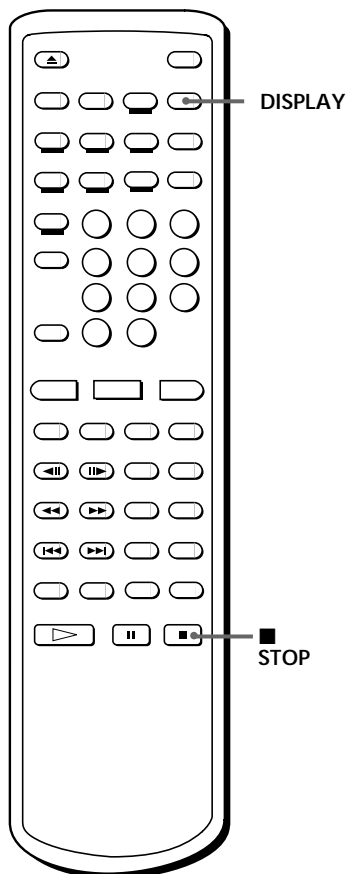
Press **▲ OPEN/CLOSE**.

Remove the disc and press **▲ OPEN/CLOSE** again to close the empty tray.

**To listen with headphones**

Plug headphones into the PHONES jack on the front panel and adjust the volume with the level control beside the jack.

## Playing a disc (continued)



- The AV calendar shows the chapters/tracks remaining on the disc. As chapters/tracks are played, the corresponding numbers on the calendar disappear.
- While playing a Ver. 2.0 VIDEO CD using PBC functions, the AV calendar shows the numbers you can use to select items from the menu.
- When there is no disc in the player, "NO DISC" appears on the front panel display.

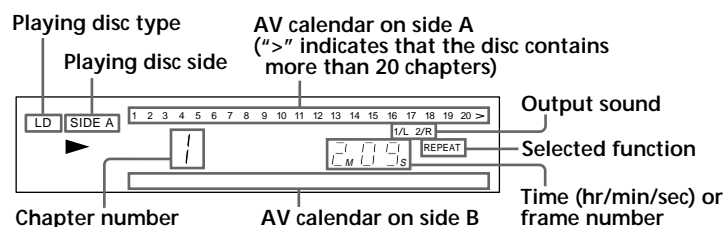
### Notes

- The AV calendar is available for LDs containing TOC (Table of Contents) data, CDs, or VIDEO CDs.
- When you play a VCR or a similar equipment using LINE IN, the current key level always appears on the front panel instead of a chapter/track number (see "Playing karaoke using auxiliary equipment" on page 41).

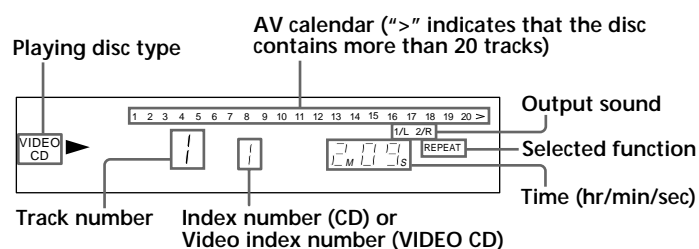
## Reading the front panel display

The illustration below is an example of what is displayed on the front panel of the player.

### When playing an LD

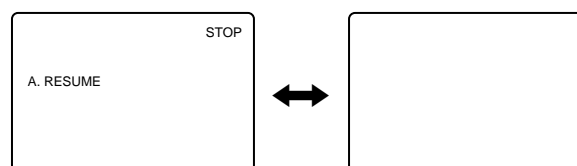


### When playing a VIDEO CD or CD

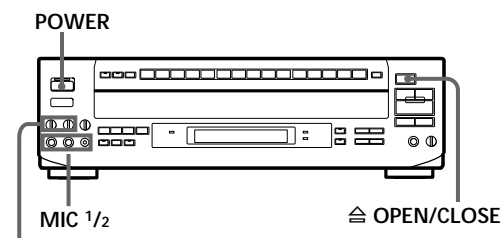


## Viewing the on-screen display

Press DISPLAY. The on-screen display appears (see "Understanding on-screen indications" on page 16). You can select the language of the on-screen display, English or Chinese, by pressing the ■STOP button on the player less than 10 seconds after you turn on the player. To return to the original display, press the ■STOP button again less than 10 seconds after you first pressed it. Each time you press the ■STOP button (within 10 seconds) the displays alternate.



## Playing Karaoke



MIC LEVEL 1/2



- The player has two MIC jacks on each front and rear panel. In addition, you can use infrared cordless microphones by connecting the infrared receiver to the MIC jacks (see "Using the infrared cordless microphone system (not supplied)" on page 40).
- To control the player from the karaoke microphone, plug the control plug into the CONTROL jack (see "Using the optional karaoke microphone" on page 40).
- You can enjoy karaoke using auxiliary equipment such as a VCR (see "Playing karaoke using auxiliary equipment" on page 41).

### Notes

- If you insert more than one disc, or if the disc is not seated properly, the disc may not start playing, and may damage the disc or player.
- When playing a double-sided LD, the player determines that the upper side of the disc is side "A" and the other side is "B," regardless of the label "A" or "B" printed on the disc.

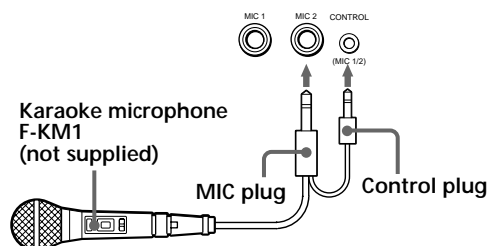
This section gives you short instructions for playing "karaoke" (singing along with a disc).

- 1 Set the MIC LEVEL 1 and 2 controls on the player to MIN.



- 2 Plug a microphone into the MIC 1 or 2 jack on the player.

When using the karaoke microphone F-KM1 (not supplied), plug the CONTROL plug into the CONTROL (MIC 1/2) jack.



- 3 Press POWER to turn on the player.

- 4 Turn on the TV and stereo system.

TV:

Set to "Video."

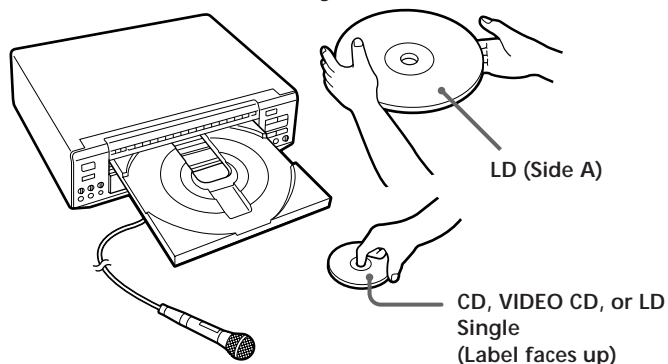
Stereo system:

Turn on the amplifier or receiver and select CD or AUX (the jacks to which you connected the player) for audio output.

- 5 Press  $\triangle$  OPEN/CLOSE.

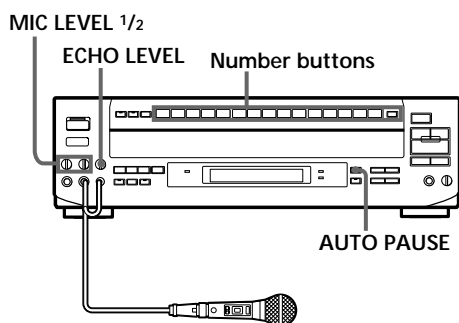
The disc tray comes out.

- 6 Place a disc on the disc tray.



Place only one disc on the tray, carefully fitting it in the circle on the tray.

## Playing Karaoke (continued)



- If you press **STOP**, **OPEN/CLOSE** or **POWER** while playing a song in karaoke mode (with microphones connected), the sound automatically fades out before playback stops (Auto Fade Out).
- If howling occurs
  - Move the microphone away from the speakers.
  - Lower the microphone volume or echo level.
  - Lower the overall volume.
- If the sound is distorted or the picture flickers when listening through your TV speakers, set the ATT switch at the rear of the player to ON to lower the output level.

### Notes

- If you want to use the menu of a Ver. 2.0 karaoke VIDEO CD, make sure that the PBC ON/OFF button indicator on the player is lit and press **SELECT/PLAY** to display the menu before entering the song number. If the PBC ON/OFF button indicator is not lit, press **STOP** to stop playing the disc, then press the PBC (ON/OFF) button to turn it on (see "Playing a VIDEO CD using PBC functions" on page 15 for details).
- To stop playing a song on a Ver. 2.0 karaoke VIDEO CD and return to the menu, press the RETURN button instead of **STOP**.
- If you reserve several songs (see "Selecting karaoke song order" on page 33), the player plays them continuously, then pauses.
- You can also use the Auto Pause function in non-karaoke mode (without microphones connected). Each time you press the AUTO PAUSE button, the Auto Pause function is turned on/off.
- Auto Pause does not function during PBC playback on a Ver. 2.0 VIDEO CD (if the PBC ON/OFF button indicator on the player is lit). However, if the disc is a karaoke VIDEO CD with a menu for song selection, playback automatically pauses and returns to the menu each time a song is played.

## 7 Press one of the number buttons to enter the song number.

The song starts playing. To select a song on side B of an LD, press DISC SIDE B, then press the number button. To enter a song number greater than 15, see page 18.

## 8 Set the ON/OFF switch on the microphone to ON and turn the MIC LEVEL 1 or 2 control to adjust microphone volume.



## 9 Turn the ECHO LEVEL control to adjust the echo strength.

The same echo level is applied to both MIC 1 and MIC 2.

Now you can enjoy playing karaoke.

When the song finishes, the player pauses until you enter the next song number.



## Pausing automatically in karaoke mode

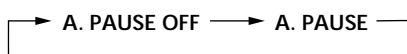
When you connect a microphone, the player automatically switches to karaoke mode. In karaoke mode, the player pauses every time a song is played (Auto Pause).

### To play songs on the disc continuously in karaoke mode

Press AUTO PAUSE.

"A. PAUSE OFF" appears on the screen briefly and the AUTO PAUSE button indicator on the player goes off.

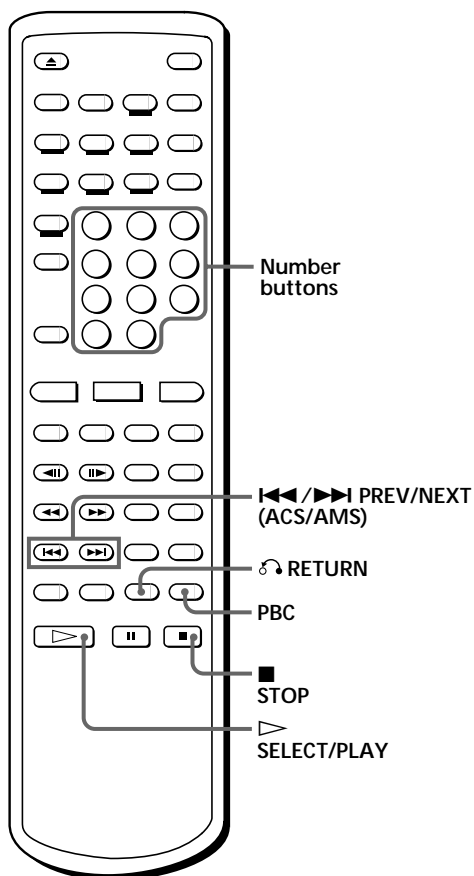
Each time you press AUTO PAUSE, the on-screen indication changes as follows and the AUTO PAUSE button indicator on the player turns off or on.



AUTO PAUSE button indicator	Songs are played
On	Pausing at end of each song
Off	Continuously



## Playing a VIDEO CD using PBC functions (PBC Playback)



- To select a song over 10, Press >10, then press two number buttons, first the tens digit, then the ones digit (see page 18). To use the number buttons on the player, see page 18.
- You can view high-resolution still pictures on some Ver. 2.0 VIDEO CDs.

### Note

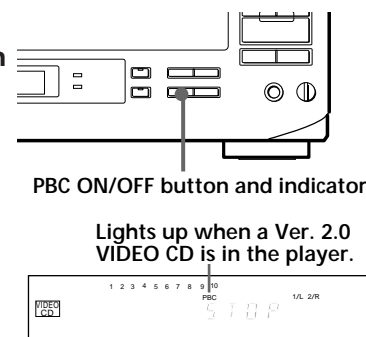
- If no menus appear on the screen:
  - check that the disc is a Ver. 2.0 VIDEO CD ("PBC" is lit on the front panel display when a Ver. 2.0 VIDEO CD is in the player.)
  - turn on the PBC ON/OFF button indicator
  - press ▷ SELECT/PLAY to display a menu

VIDEO CDs conforming to Ver. 2.0 of the VIDEO CD standards have Play Back Control (PBC) functions, which enable you to play the VIDEO CD interactively, following menus on the screen. Operation methods may differ depending on the disc. For details, refer to the instructions supplied with the disc. Use the number buttons, ▷ SELECT/PLAY, ◀◀ PREV/NEXT (ACS/AMS), and ↻ RETURN during PBC playback.

**1 Place a Ver. 2.0 VIDEO CD (with PBC functions) on the disc tray, then press SELECT/PLAY to close the disc tray.**

**2 Check to see that the PBC ON/OFF button indicator on the player lights up.**

A menu appears on the screen and the player waits for you to select a number on the menu. On some discs, moving pictures may play for a while before the menu appears.



**3 Enter a number to select the item in the menu.**

**4 Play the VIDEO CD interactively, following the menus.**

## Playing a Ver. 2.0 VIDEO CD interactively

To	Press
Select an item in the menu	Number button
Jump to another scene	▷ SELECT/PLAY or a number button when "SELECT" flashes on a moving picture
Go back to the menu	↻ RETURN Operation methods may differ depending on the disc. For details, refer to the instructions supplied with the disc.
Scroll the menu	◀◀ / ▶▶ PREV/NEXT (ACS/AMS)

### If "✋ NOT VALID NOW" appears on the screen

You have pressed an unoperable button. Use the operable buttons, following the menu.

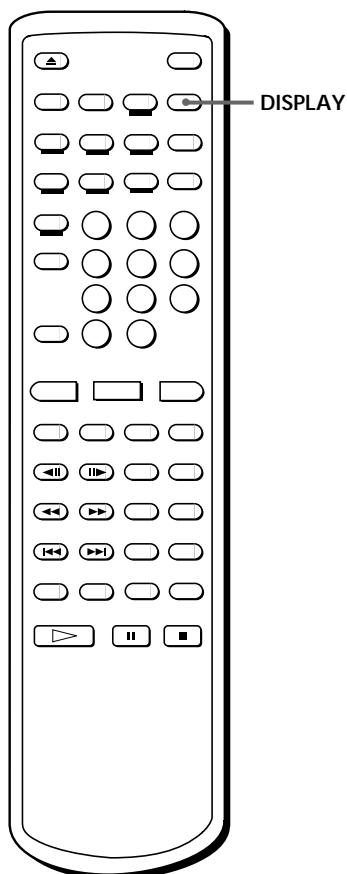
### Canceling PBC playback

Press ■ STOP to stop playing the VIDEO CD, then press PBC on the remote commander, or PBC ON/OFF on the player to turn off the PBC ON/OFF button indicator. Now you can play the VIDEO CD continuously but menus for interactive playback are not displayed.

### To turn on PBC playback again

The PBC ON/OFF button indicator must be lit to use PBC functions. If it is not lit, press ■ STOP to stop playing the disc, then press the PBC (ON/OFF) button to turn it on. Press ▷ SELECT/PLAY to display a menu.

## Additional Operations Understanding on- screen indications



### Notes

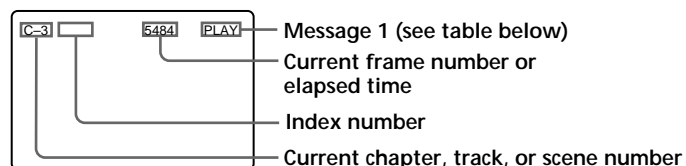
- The AV calendar for LDs (display of remaining chapter numbers) is only available for LDs with TOC data.
- When playing an LD without TOC data, total playing time of the disc does not appear.
- When playing an LD without chapters, the chapter number does not appear.
- When playing a CLV LD without time data to the second, a two-digit number such as "22:", meaning 22 minutes, appears.
- Messages concerning sound control functions such as "1/L, 2/R" or "♪ DIGITAL, ♪ ANALOG" appear only briefly when you press the AUDIO MONITOR or ANALOG/□ button.

You can view the operating status of the player or disc information on the TV screen.

### Displaying on-screen indications

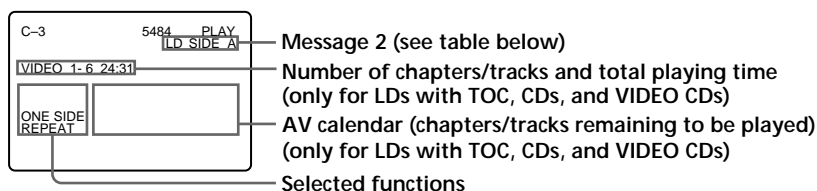
Press DISPLAY.

The operating status of the player is displayed on the screen.



Press DISPLAY again.

Operating status and disc information are displayed on the screen.



Press DISPLAY once again to turn off the indications.

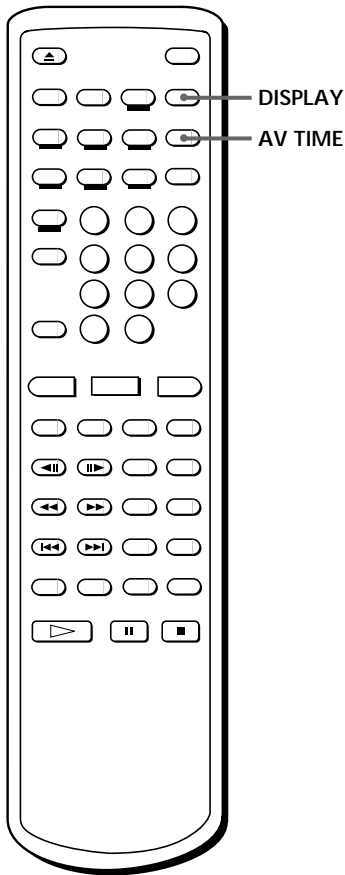
### Message 1

Display	Current status of the player
OPEN	Disc tray open
CLOSE	Disc tray closed
PLAY	Playing a disc
STOP	Operation stopped
PAUSE	Operation momentarily stopped
◀▶/▶▶	Speed scanning
SEARCH	Searching

### Message 2

Display	Currently playing
LD SIDE A	Side A of LD
LD SIDE B	Side B of LD
CD	CD
VIDEO CD	VIDEO CD
1/L	First soundtrack/left channel
2/R	Second soundtrack/right channel
♪ DIGITAL	Digital sound
♪ ANALOG	Analog sound





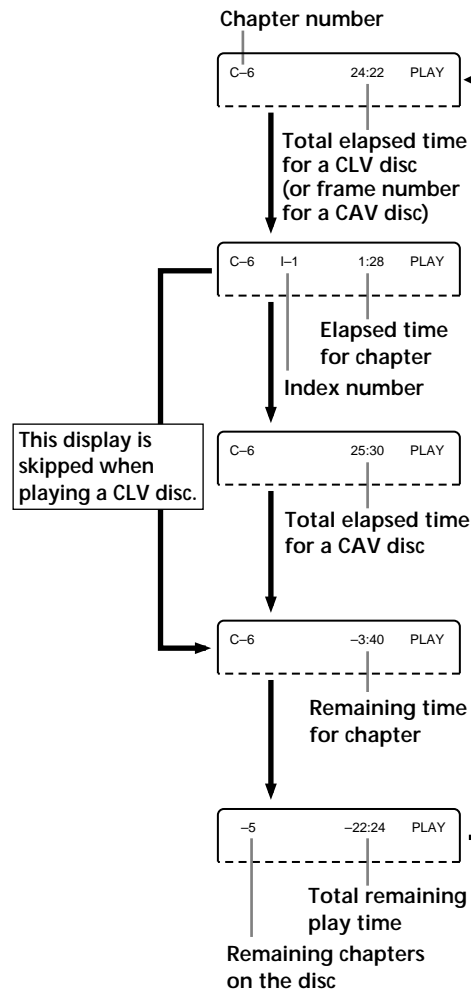
## Checking the elapsed or remaining time of the disc

You can check the elapsed or remaining time on the TV screen.

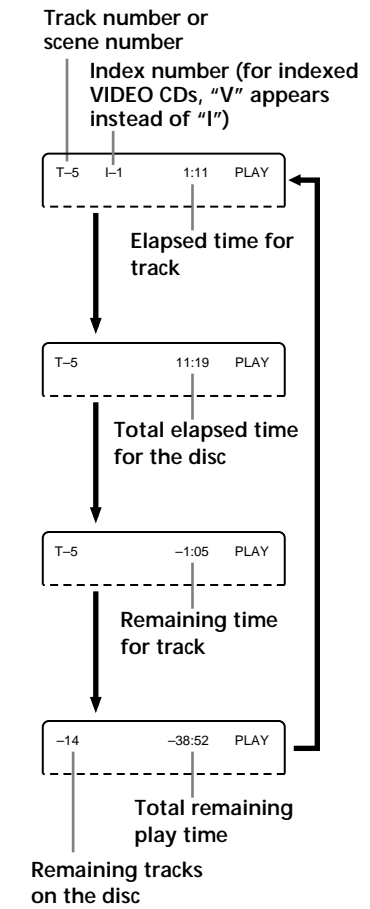
Press DISPLAY, then press AV TIME repeatedly.

Each time you press AV TIME, the on-screen display changes as follows:

### LDs with TOC



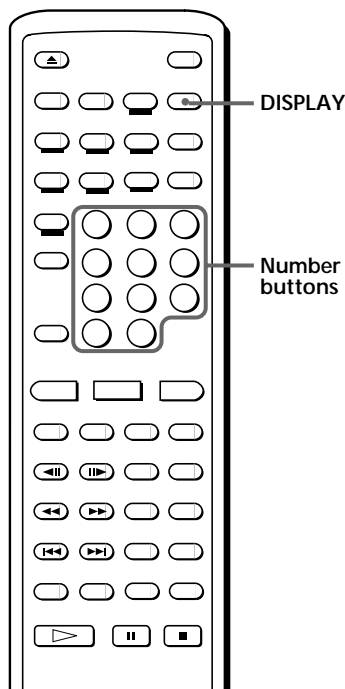
### CDs/VIDEO CDs



### Notes

- When playing an LD without TOC data, you can only view the total elapsed time (for a CLV disc) or current frame number (for a CAV disc).
- When playing a Ver. 2.0 VIDEO CD using PBC functions:
  - the scene number (such as "S-5") is displayed instead of the track number
  - you can only view the elapsed time for the current scene
- The display does not show remaining time for chapters or tracks that are 51 or more chapters or tracks away from the beginning of the disc.

## Selecting a chapter or track directly (Chapter/Track Search)



- In addition to normal play mode, you can do Chapter/Track Search while in Freeze Frame (CAV LDs or VIDEO CDs), Repeat, or Pause mode. When the selected chapter or track is located after the search, playback continues in the same mode.
- When you do Chapter/Track search while a song is automatically paused in karaoke mode, the selected chapter or track starts playing immediately, without entering pause mode.
- You can enter 0 to select chapter 0 on LDs.  
To enter 0, press >10 (or >15 on the player), then press 10/0 (or 10 on the player).

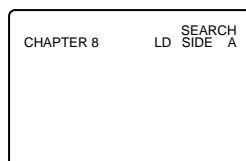
### Notes

- Chapter Search does not function properly if the LD does not contain chapter numbers, or if the chapter number entered does not exist.
- You cannot use Track Search when you play a Ver. 2.0 VIDEO CD using PBC functions. Entering a number selects an item in the menu.
- If you do Track Search on a Ver. 2.0 VIDEO CD using the PBC functions before the AV calendar appears on the front panel display, the PBC function is turned off.

LDs are divided into sections called “chapters.” CDs and VIDEO CDs are divided into sections called “tracks.” Simply enter the desired chapter/track number to start playing it immediately.

## Locating a particular chapter/track

Press one of the number buttons to enter the chapter/track number.



To play a chapter on the opposite side of the LD, press DISC SIDE B (or A), then enter the chapter number.

### To enter a number greater than 10

Press >10 on the remote, then press two number buttons in sequence, first the tens digit, then the ones digit. If you press >10 by mistake, press >10 again, then enter the correct one digit number.

To	Press
Enter 10	>10
Enter 14	>10, then 1, then 4
Enter 20	>10, then 2, then >10
Enter 25	>10, then 2, then 5

### To enter a number greater than 15 using the number buttons on the player

Press >15 first, then the corresponding number buttons. To enter “0”, use 10.

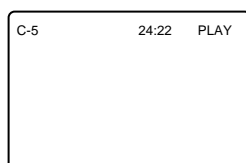
Example: To enter 30

Press >15 first, then 3 and 10.

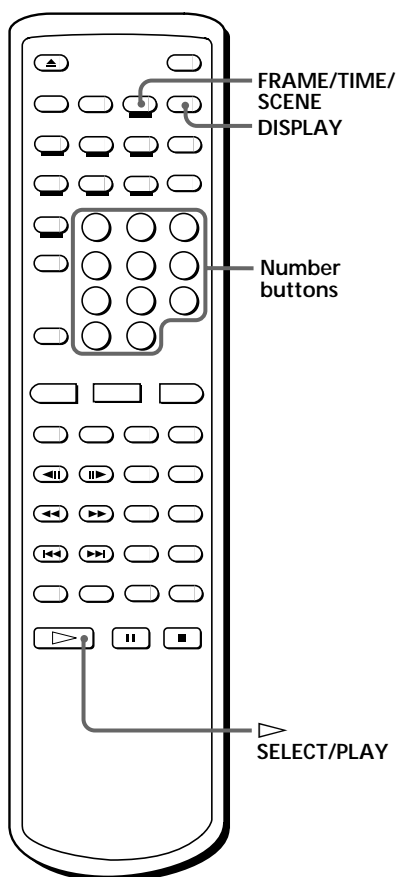
### To check the current chapter/track number on the screen

Press DISPLAY to display the chapter/track number.

The number appears in the upper left-hand corner of the screen. If the LD does not contain chapter numbers, no number is displayed.



## Searching by frame, time, or scene number (Frame/Time/Scene Search)



- In addition to normal play mode, you can do Frame/Time/Scene Search while in Freeze Frame, Repeat, or Pause mode. When the specified frame, time, or scene is located after the search, playback continues in the same mode.

Video scenes are counted as a series of still pictures or “frames.” When playing a CAV (standard-play) LD, the player keeps track of the number of frames, allowing you to locate a scene on the CAV disc by specifying the frame number.

When playing a CLV (extended-play) LD, the player keeps track of the elapsed playing time, allowing you to locate a particular point on the CLV LD by specifying the total elapsed time.

On Ver. 2.0 VIDEO CDs (with PBC functions), “scene numbers” are assigned to some points on moving pictures and to each still picture, allowing you to locate a scene you want to view on the VIDEO CD by specifying the scene number. This is only available during PBC playback (when the PBC ON/OFF button indicator on the player is lit). You can check the scene number by pressing the DISPLAY button during PBC playback (see “Checking the elapsed or remaining time of the disc” on page 17).

### Entering the frame number, elapsed time, or scene number

- 1 Press **FRAME/TIME/SCENE** while playing the disc.

When playing	Indication
CAV LD	FRAME 00000
CLV LD	TIME 0:00:00
Ver. 2.0 VIDEO CD (with PBC functions)	SCENE 00000

FRAME 00000	LD SIDE A	TIME 0:00:00	LD SIDE A	SCENE 00000	VIDEO CD
-------------	-----------	--------------	-----------	-------------	----------

- 2 Enter the multi-digit number corresponding to the frame, time or scene you want to locate.

To locate frame number 12340 on the CAV LD, press ①, ②, ③, ④ and ⑤.

To locate the 12 minutes, 5 second point on the CLV LD, press ①, ②, ③ and ⑤.

To locate scene 123 on the VIDEO CD, press ①, ② and ③.

If you enter the wrong number, press **FRAME/TIME/SCENE** to clear the number, then enter the correct number.

- 3 Press **▷ SELECT/PLAY**.

Playback starts from the frame, time, or scene you entered.

#### To check the frame number or time

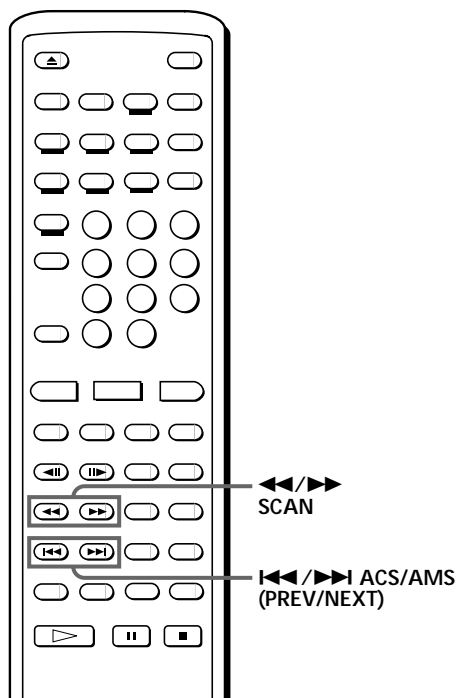
Press **DISPLAY**.

The current frame number, time, or scene number is displayed.

#### To cancel Frame/Time Search

Press **CLEAR** before pressing **▷ SELECT/PLAY**.

## Searching for a particular point on a disc



- ACS/AMS is the abbreviation for Automatic Chapter Sensor/Automatic Music Sensor.
- In addition to normal play mode, you can also do Speed Scan and Skip Search while in Freeze Frame (CAV LDs or VIDEO CDs), Repeat, or Pause mode. After the scan or search, playback continues in the same mode.
- If you hold down  $\lll/\ggg$  SCAN after pressing  $\lll$  PAUSE while playing a VIDEO CD, the scanning speed increases. (When playing a Ver. 2.0 VIDEO CD using PBC functions, you can do this operation only while the picture is moving and the playing time is displayed.) The picture where you pressed  $\lll$  PAUSE freezes and remains on the screen. Navigate by using the time display. Release  $\lll/\ggg$  SCAN to display the picture at the indicated time. The new picture freezes. Press  $\triangleright$  SELECT/PLAY to resume playback.

### Notes

- When scanning a CLV LD or VIDEO CD, frames are skipped.
- A certain amount of visual noise and instability is inevitable when scanning an LD.

You can locate a particular point on a disc by scanning scenes or skipping chapters/tracks.

### Scanning a disc quickly (Speed Scan)

Hold down  $\lll/\ggg$  SCAN while playing the disc.

To	Hold down
Scan forward	$\ggg$ SCAN
Scan backward	$\lll$ SCAN

To resume normal playback, release  $\lll/\ggg$  SCAN.

### Skipping chapters or tracks (Skip Search)

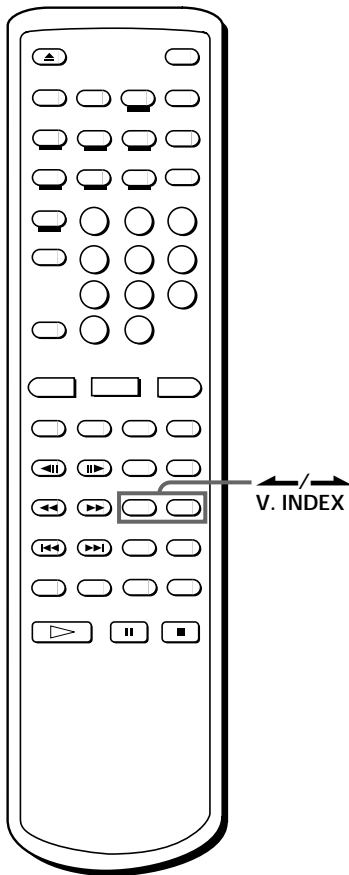
Press or hold down  $\lll/\ggg$  ACS/AMS (PREV/NEXT).

To go to the beginning of	Press
Next chapter/track	$\ggg$ ACS/AMS (NEXT) once
Current chapter/track	$\lll$ ACS/AMS (PREV) once
Previous chapter/track	$\lll$ ACS/AMS (PREV) twice before the picture or sound resumes

Hold down  $\ggg$  or  $\lll$  to skip chapters/tracks continuously.

### Skip Search on Ver.2.0 VIDEO CDs

If the PBC function is turned on, Skip Search may not be operated properly on some VIDEO CDs. The PBC function should be set to off (the PBC ON/OFF button indicator on the player is turned off) when operating Skip Search.



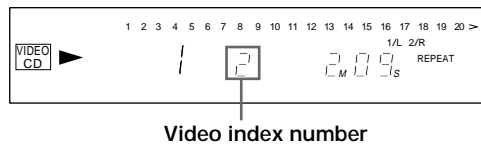
## Locating a point using the index (Index Search)

There are two kinds of indexes: one is for audio CDs and the other is for VIDEO CDs. You can locate any point on the disc using the index. Note that this function is available only for indexed discs.

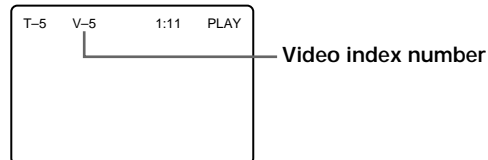
While playing a track, press ◀ V.INDEX or ▶ V.INDEX repeatedly.

- To locate the current or preceding index numbers, press ◀ V.INDEX.
- To locate the next or subsequent index numbers, press ▶ V.INDEX.

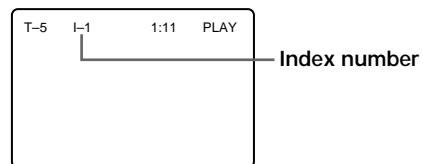
### Front panel display



### TV screen (while playing a VIDEO CD)



### TV screen (while playing an audio CD)



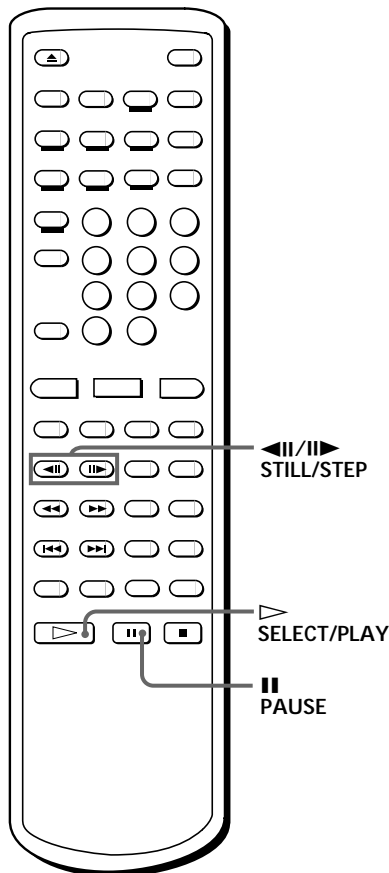
### What is an index?

It is the division of a track or disc into numbered sections. It allows you to easily locate a desired point on the disc. To determine whether or not a disc has an index, look at the disc's packaging.

### Index Search on Ver. 2.0 VIDEO CDs

To operate Index Search on a VIDEO CD, the PBC ON/OFF button indicator on the player should not be lit. Press ■ STOP to stop playback, then press PBC on the remote, or PBC ON/OFF on the player to turn off the PBC ON/OFF button indicator.

## Viewing frame-by-frame action



- When you play a CLV LD, Freeze Frame and Step Play are not available. When you press **||** PAUSE, the screen goes blank. If you press **◀||/||▶** STILL/STEP, "CLV SIDE A" or "CLV SIDE B" appears briefly.

During any scene, you can freeze play into a still picture, and then advance or reverse the action frame-by-frame.

### Freezing the action (Freeze Frame)

You can use this function for CAV LDs and VIDEO CDs. Press **||** PAUSE while playing a CAV LD or VIDEO CD. The sound mutes and the picture freezes.

#### To resume normal playback

Press **▷** SELECT/PLAY.

### Playing frame-by-frame (Step Play)

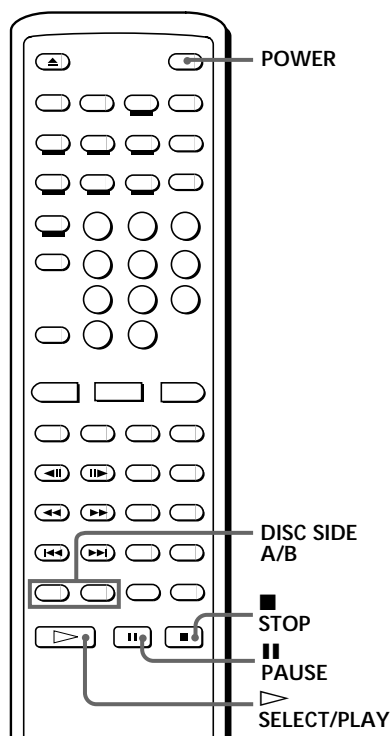
You can use this function only for CAV LDs.

- 1** Press **◀||/||▶** STILL/STEP while playing a CAV LD. The sound mutes and the picture freezes.
- 2** Press **◀||/||▶** repeatedly to advance or reverse the action frame-by-frame. Hold down **◀||/||▶** to view continuous frame-by-frame action.

#### To resume normal playback

Press **▷** SELECT/PLAY.

## Resuming LD/VIDEO CD playback (Auto Resume)



- Each time you stop playing, the point at which you stopped last is memorized.
  - The point at which you stopped playing is cleared when:
    - you press ▲ OPEN/CLOSE, DISC SIDE A/B or ◀◀/▶▶ PREV/NEXT (ACS/AMS)
    - you do a Chapter Search
    - you do a Frame/Time Search
    - you unplug the AC power cord of the player
- If an LD is in the player and you press ▲ OPEN/CLOSE to close the disc tray while it is opening, the point at which you stopped is retained.

### Notes

- The point at which you stopped is not memorized if you stop playback during a Chapter Search or Frame/Time Search.
- If you press ▷ SELECT/PLAY when the power is off, the player turns on automatically. If a disc is loaded, playback resumes where you last stopped.
- For VIDEO CDs, the player memorizes the point at which you stopped regardless of the PBC ON/OFF setting.
- If you connect a microphone (switching the player to karaoke mode), Auto Resume is canceled. Although Auto Resume is not canceled if you switch the player's input mode to LINE IN, it is canceled if you connect a microphone.

This function operates automatically only for LDs or VIDEO CDs in non-karaoke mode (without microphones connected). Once you press STOP or POWER to stop playing an LD or VIDEO CD, the player memorizes the point you stopped at so that you can continue viewing from the same point.

- 1 Press ■ STOP (or POWER) to stop playing an LD or VIDEO CD.  
The AUTO RESUME indicator on the player lights up and the point you stopped at is stored (if you press POWER, the indicator lights up briefly, then goes off with the power).
- 2 Press ▷ SELECT/PLAY.  
The player searches for the scene at which you stopped playing, then playback starts.

### To pause playing just before starting

If the player is turned on, press ■ PAUSE instead of ▷ SELECT/PLAY.

If the player is turned off, press POWER or ▷ SELECT/PLAY to turn on the player, then press ■ PAUSE.

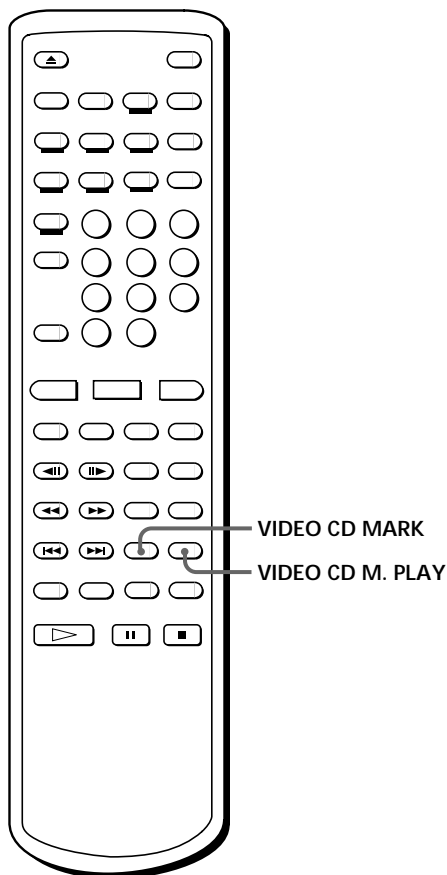
### To view from the beginning of the disc

For LDs, press DISC SIDE A to start playing from the beginning of side A. Press DISC SIDE B to start playing from the beginning of side B.

For VIDEO CDs, press DISC SIDE A to start playing from the beginning of the disc.

The point at which you stopped is cleared.

## Resuming VIDEO CD playback from a point you like (Book Mark)



This is available for VIDEO CDs. You can mark any point you like on the disc with a “Book Mark” so that you can resume playback from that point. The player memorizes the point even after you remove the disc or turn off the player. You can make one Book Mark. Each time you make a new Book Mark, the old Book Mark is erased.

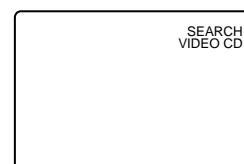
### Making a Book Mark

Play the VIDEO CD on which you want to make a Book Mark, then press VIDEO CD MARK on the remote commander at a point you like.



### Resuming playback using the Book Mark

Press VIDEO CD M.PLAY.  
The player searches for the point you marked, then starts playing.



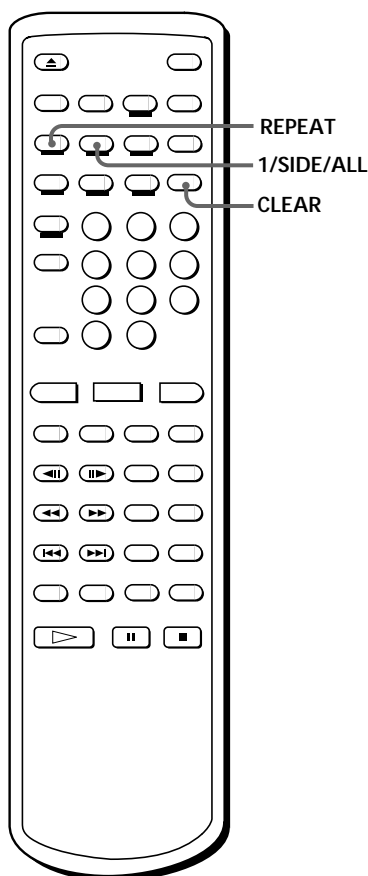
- Each time you press the VIDEO CD MARK button while playing a disc, the Book Mark moves (the old Book Mark is erased and a new Book Mark is made).
- You can use Book Marks on Ver. 1.0, Ver. 1.1, and Ver. 2.0 VIDEO CDs.
- The Book Mark remains even after you unplug the AC power cord of the player.

#### Note

- The PBC ON/OFF button indicator must be lit to use a Book Mark on a Ver. 2.0 VIDEO CD. If it is not lit, press ■ STOP to stop playing the disc, then press the PBC (ON/OFF) button to turn it on.



## Playing a section repeatedly (Repeat Play)



### Notes

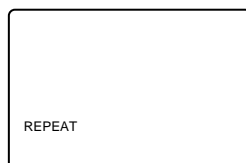
- You cannot use Repeat and Reserve at the same time.
- You cannot use Repeat while using PBC functions on a Ver. 2.0 VIDEO CD. To use Repeat on a Ver. 2.0 VIDEO CD, press ■ STOP to stop playing, then press the PBC (ON/OFF) button to turn off the PBC ON/OFF button indicator on the player.

Repeat play allows you to play the disc over and over. You can replay both sides, a single side, or one chapter of an LD; a whole disc or a single track on a CD or VIDEO CD; or a selected portion of the disc.

### Repeating the whole disc (All Disc Repeat)

Press REPEAT.

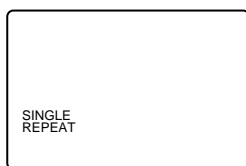
“REPEAT” appears on the screen briefly. “REPEAT” lights up on the front panel display. When playing an LD, the player plays through both sides of the LD repeatedly. When playing a CD or VIDEO CD, the player plays all the tracks on the disc repeatedly.



### Repeating the selected chapter/track (Single Repeat)

Press 1/SIDE/ALL once, then press REPEAT.

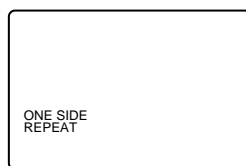
“SINGLE” and “REPEAT” appear on the screen briefly. “REPEAT 1” lights up on the front panel display. The player plays the selected chapter/track repeatedly.



### Repeating the current side of the LD (One Side Repeat)

Press 1/SIDE/ALL twice, then press REPEAT.

“ONE SIDE” and “REPEAT” appear on the screen briefly. “REPEAT 1 SIDE” lights up on the front panel display. The player plays the selected disc side repeatedly.



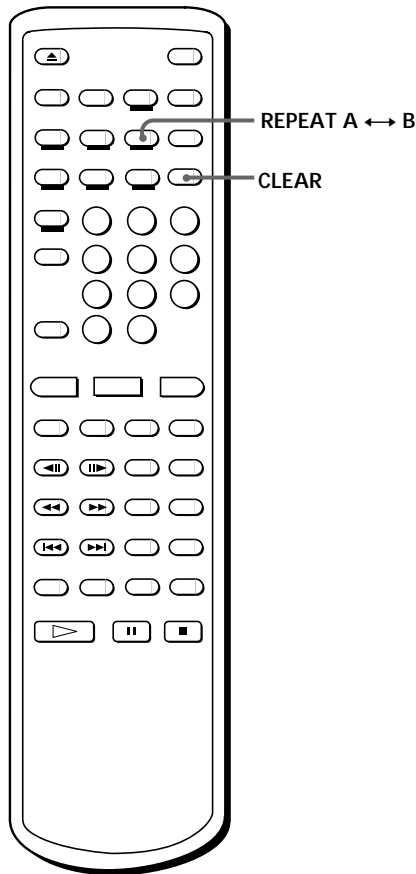
### To check the repeat status

Press DISPLAY twice.

### Canceling Repeat Play

Press CLEAR.

## Playing a section repeatedly (continued)



## Replaying a selected portion on the disc (Repeat A↔B)

- 1 Press REPEAT A↔B at the beginning of the scene or phrase you want to repeat.**  
This tells the player where to start. "REPEAT" and "A-" appear, and "B" flashes on the front panel display.
- 2 Let the player run to the end of the scene or phrase.**
- 3 Press REPEAT A↔B again.**  
This tells the player where to end. "REPEAT" and "A-B" appear on the front panel display. The player repeatedly plays the scenes or phrases between the two points you specified.

### To repeat a different portion

Repeat steps 1 to 3 to reenter new start and end points.

### To cancel Repeat A ↔ B

Press CLEAR.

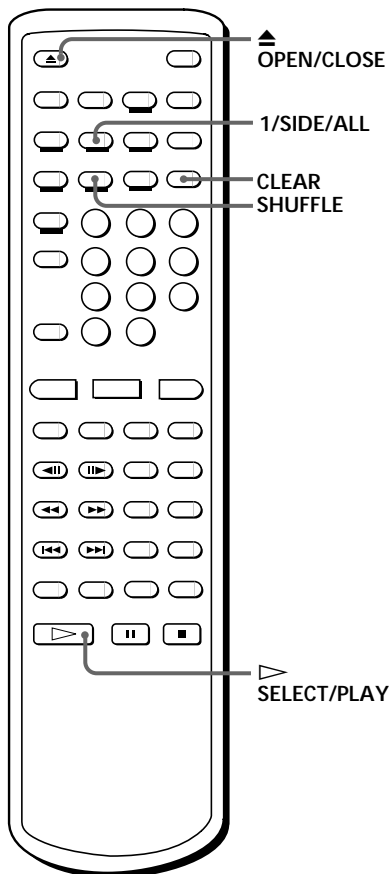


- You can scan the disc between points A and B by holding down ◀◀/▶▶ SCAN.

### Note

- You can do Repeat A↔B only on the current side of an LD. You cannot do it on both sides of the LD.
- You cannot do Repeat A↔B while using PBC functions on a Ver. 2.0 VIDEO CD.

## Playing songs in random order (Shuffle Play)



- You can skip the current song to the next song which will be randomly selected by pressing the **▶▶ NEXT (ACS/AMS)** button. The **◀◀ PREV (ACS/AMS)** button does not function during Shuffle or Delete Shuffle Play.

### Notes

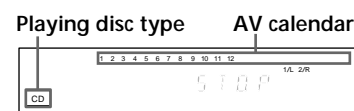
- If the LD does not contain TOC data, or if the player has not read the TOC data of the LD, "NO TOC" appears on the screen when you press SHUFFLE, and you cannot do Shuffle or Delete Shuffle Play.
- You cannot do Shuffle or Delete Shuffle Play while using PBC functions on a Ver. 2.0 VIDEO CD. To do Shuffle or Delete Shuffle, play on a Ver. 2.0 VIDEO CD, press **■ STOP** to stop playing, then press the PBC (ON/OFF) button to turn off the PBC ON/OFF button indicator on the player.

You can play the songs on a disc in random order, each song once (Shuffle Play). If you select the songs you want to play in advance, the player plays only selected songs in random order (Delete Shuffle). The player needs the TOC data of the disc to do Shuffle Play and Delete Shuffle Play, so these functions are available only on LDs containing TOC data, CDs, and VIDEO CDs.

## Shuffle playing on one side of a disc (One Side Shuffle)

- Place a disc on the disc tray, then press **▲ OPEN/CLOSE** to close the tray.

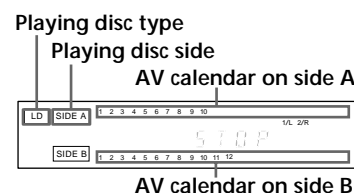
When you use a CD or VIDEO CD, the AV calendar appears on the front panel display, showing that TOC data was read.



- (This step is for an LD. Skip this step when playing a CD or VIDEO CD.)

Press **▷ SELECT/PLAY** and wait for the AV calendar to appear on the front panel display, then press **■ STOP** to stop playing.

The player reads the TOC data of the LD.



- Press **SHUFFLE**. "SHUFFLE" flashes on the front panel display.



- Press **▷ SELECT/PLAY**.

Songs start playing. All songs on the disc are played once in random order. To play side A of a double-sided LD, press **DISC SIDE A**, then press **▷ SELECT/PLAY**. To do Shuffle Play on side B, perform steps 3 and 4 in playback mode or pause mode while on side B.

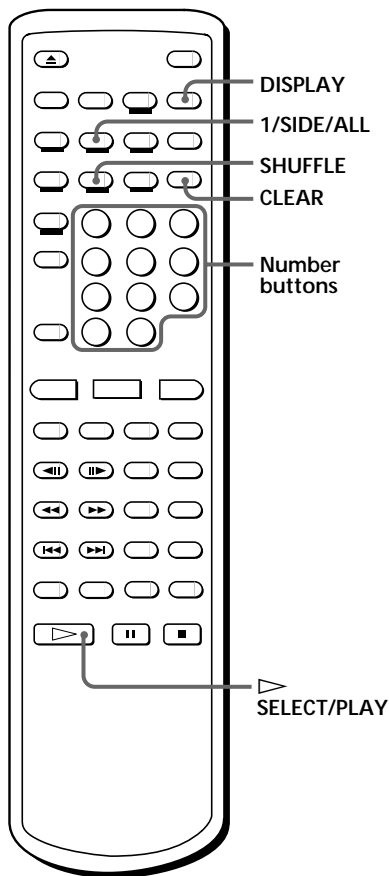
## Shuffle playing on both sides of a double-sided LD (Both Sides Shuffle)

- Follow steps 1 to 3 above to enter SHUFFLE mode. Make sure that both AV calendars for side A and side B appear, and "SHUFFLE" flashes on the front panel display.

- Press **CLEAR** to turn off "SIDE" on the front panel display.

- Press **▷ SELECT/PLAY**. The songs on side A are played in random order, then the songs on side B are played in random order.

## Playing songs in random order (continued)



- You can delete songs numbered up to 99. To delete a song over 10, press >10, then press two number buttons in sequence, first tens digit, then the ones digit (see page 18). To use the number buttons on the player, see page 18.
- You can repeat Shuffle and Delete Shuffle Play. Press REPEAT on the remote commander. Each time repeat finishes, the order of the songs is reshuffled.

## Playing only your favorite songs in random order (One Side Delete Shuffle)

To select your favorite songs in random order, delete the songs you do not want to play from the disc. If you use an LD, make sure the AV calendars appear on the front panel display.

- Press **SHUFFLE** to enter **SHUFFLE** mode.  
"SHUFFLE" flashes on the front panel display.

- Press **DISPLAY** twice to use the on-screen display.

- Press the number buttons to delete songs you do not want to play.

The deleted song numbers are displayed on the screen.

VIDEO	1-12	52:07	SIDE A
DELETE SHUFFLE	2	7	...
	...	...	...
	...	...	...

If you enter a wrong number, press **CLEAR**. With each press, the last song you entered is restored (the number on the screen disappears).

- Press **▷ SELECT/PLAY**.  
The remaining songs on the disc are played once in random order. To play the remaining songs on side A of a double-sided LD, press **DISC SIDE A**, then press **▷ SELECT/PLAY**. To play with the Delete Shuffle function on side B, perform steps from 1 to 4 in playback mode or pause mode while on side B.

## Delete shuffle playing on both sides of an LD (Both Sides Delete Shuffle)

Play side B and wait for the AV calendar to appear on the front panel display, then perform the following steps.

- Follow steps 1 to 3 above to delete songs.  
To delete songs on side B of a double-sided LD, press **DISC SIDE B**, then press the number buttons. The songs deleted from side B appear in squares.

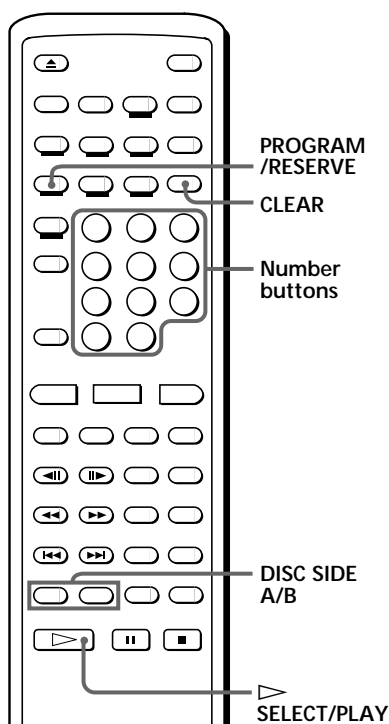
- Press **CLEAR** on the remote commander to turn off "SIDE" on the front panel display.

- Press **▷ SELECT/PLAY**.  
The remaining songs on side A are played in random order, then the remaining songs on side B are played in random order.

## Canceling Shuffle Play or Delete Shuffle Play

Press **CLEAR**.  
"SHUFFLE" on the front panel goes off. The player exits Shuffle mode. All the deleted songs are restored.

## Playing songs in any order you like (Program Play)



- You can select songs numbered up to 99. To select a song over 10, Press >10, then press two number buttons, first the tens digit, then the ones digit (see page 18). To use the number buttons on the player, see page 18.
- You can skip to the previous or next song in the program by pressing the ◀◀/▶▶ PREV/NEXT (ACS/AMS) button.
- Even when the playback of the whole program is complete, the program is not cleared. The program is cleared when:
  - you press CLEAR (except while “PGM” on the front panel display is flashing) to exit Program mode.
  - you open the disc tray or turn off the player
- To repeat playing the program automatically, press REPEAT on the remote commander.

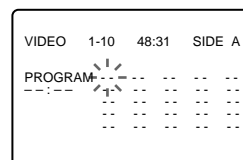
### Notes

- You cannot use Program while using PBC functions on a Ver. 2.0 VIDEO CD. To use Program on a Ver. 2.0 VIDEO CD, press ■ STOP playing, then press the PBC (ON/OFF) button to turn off the PBC ON/OFF button indicator on the player.
- To check the total playing time of the program on an LD:
  - Use an LD with TOC data
  - Press ▷ SELECT/PLAY (and press SIDE B) make the player read the LD's TOC data, before you press PROGRAM/RESERVE.
- If you select songs numbered over 50, or if the total playing time exceeds 100 minutes, the time display changes to “--:--.”

You can select up to 25 songs to be played in any order you like, regardless of disc side, even while a song is being played. The songs are played continuously in the order you specify. This is available in non-karaoke mode (without microphones connected). In karaoke mode, use Reserve instead of this function (see “Selecting karaoke song order” on page 33).

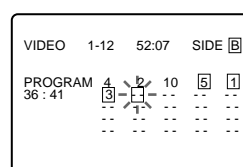
### Selecting songs to make a program

- 1 Press PROGRAM/RESERVE. “PROGRAM” appears. “PGM” flashes on the front panel display.



- 2 Press the number buttons to select songs in the order you want them to play.

When you play a double-sided LD, select the disc side by pressing DISC SIDE A (or B), then press the number buttons to select songs in the order you want them to play. The songs selected from side B appear in squares.



If you enter a wrong number, press CLEAR. With each press, the last song you entered is deleted.

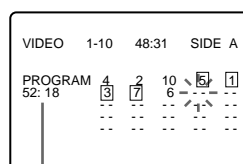
- 3 Repeat step 2 until you finish selecting songs.

- 4 Press ▷ SELECT/PLAY.

The selected songs are programmed and the on-screen display disappears. “PGM” lights up on the front panel display. The selected songs are played in order you selected them.

### To make a program while checking the total playing time

You can check the total playing time of the program while selecting songs. The time is displayed both on the screen and front panel displays. Each time you select a song, its playing time is added.



Total playing time of the program

### If you enter ■ PAUSE in the program

You can enter ■ PAUSES among songs you select, to make the player automatically pause during the program. If you enter a ■ PAUSE, the total playing time is re-counted from --:-- (zero).

### To check the contents of the program

Press DISPLAY twice.

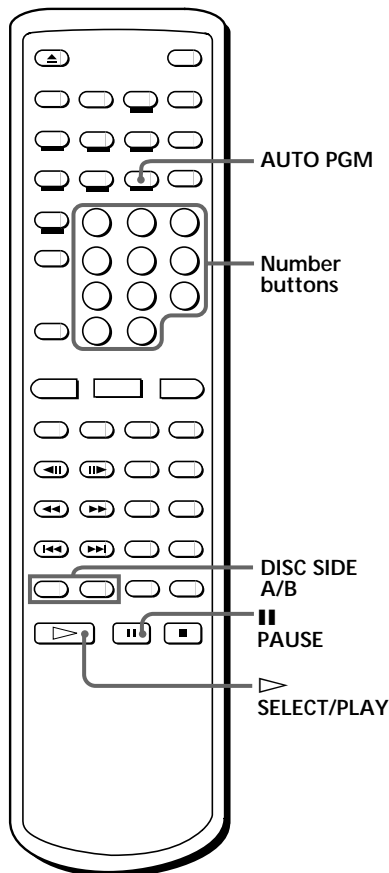
The numbers of the selected songs appear. If playing a song, its number flashes.

### Canceling Program Play

Press CLEAR.

“CLEAR” appears briefly and “PGM” on the front panel display goes off. The player exits Program mode and all the programmed songs are cleared.

## Playing a disc within a specified period of time (Auto Program Play)



- To use the number buttons on the player, see page 18.
- You can skip to the previous or next song in the program by pressing the **PREV/NEXT** (ACS/AMS) button.
- If an LD contains 51 or more chapters on the playing side, Auto Program may not operate correctly.

### Note

- You cannot use Program while using PBC functions on a Ver. 2.0 VIDEO CD. To use Program on a Ver. 2.0 VIDEO CD, press **STOP** to stop playing and then press the PBC (ON/OFF) button to turn off the PBC ON/OFF button indicator on the player.

With Auto Program Play, the player divides the tracks on the disc into what it calls "Program A" and "Program B", playing both A and B for the amount of time entered. Since the player pauses between the two programs, this feature is useful for making tapes.

Decide how long you want the disc to play and then enter half that amount of time.

This function is available only on CDs, VIDEO CDs and LDs with TOC.

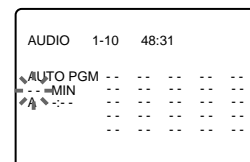
### To ensure correct operation for LDs

When you play an LD with TOC, press **PAUSE**, and then press **DISC SIDE A** or **DISC SIDE B** to display the AV calendar before you press **AUTO PGM**. Make sure that you cannot make programs consisting of chapters from both sides of LD using Auto Program.

## Programming the songs automatically

### 1 Press **AUTO PGM**.

"AUTO PGM" appears. "AUTO PGM" flashes on the front panel display.



### 2 Enter the desired playing time with the number buttons.

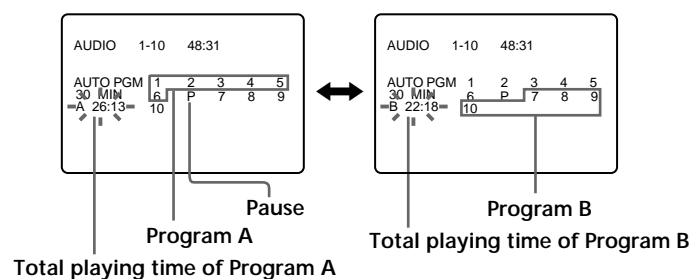
To enter 11 minutes or more

Press **>10** and then press two number buttons in sequence, first the tens digit, then the ones digit.

For example, to enter 30 minutes, press **>10**, **3** and then **0**.

Even if you enter the wrong time, you can enter the correct time by pressing the number buttons.

The player selects the songs for both Program A and B, and the total playing time of two programs appear alternately.



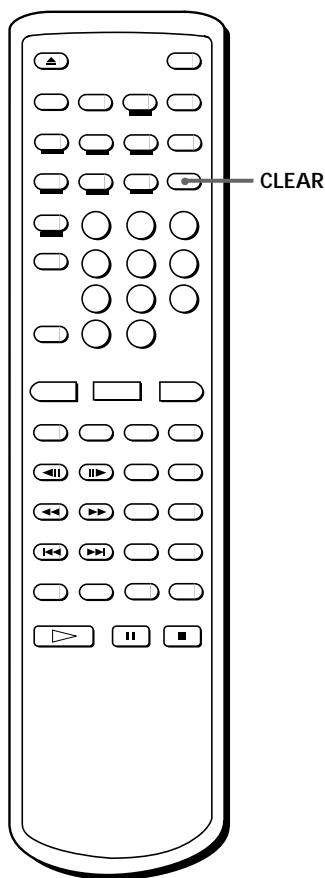
### 3 Press **>** **SELECT/PLAY**.

The contents of Program A start playing and the player pauses at the end of Program A. To play Program B, press **>** **SELECT/PLAY** again.

### To check the contents of the program

Press **DISPLAY** twice.

The selected song numbers in program A and program B appear.



### Assignment of the time to Program A and B

If you enter a playing time shorter than half the disc playing time, some songs on the disc may not fit into the specified time and may not be programmed. On the other hand, if you enter a playing time longer than the disc playing time, all songs will be stored only in Program A. This is because Program A always has priority over B. The table below shows how the player assigns the time in such cases.

Example for a 40-minute disc:

You enter	Program A plays	Program B plays	Total playing time
15 min	15 min (or less)	15 min (or less)	30 min (or less)
30 min	30 min (or less)	10 min (about)	40 min
45 min	40 min (all songs)	0 min	40 min

### Canceling Auto Program Play

Press CLEAR.

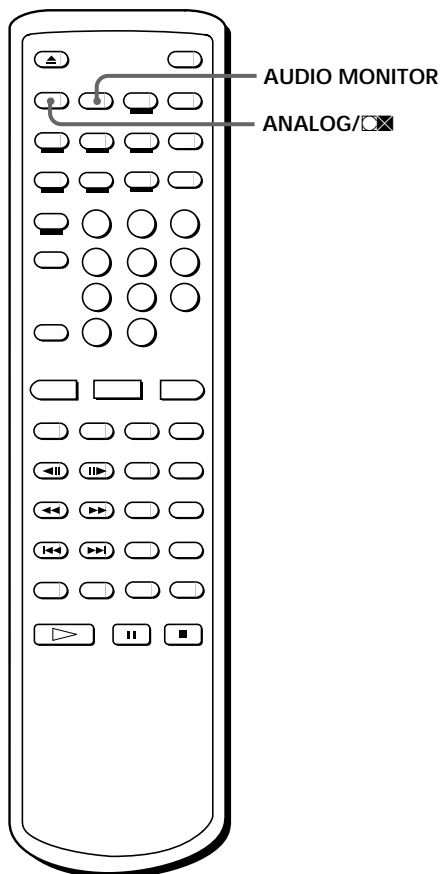
“CLEAR” appears briefly and “AUTO PGM” on the front panel display goes off. The player exits Program mode and the program contents are cleared.



- Even when the playback of the whole program is completed, the program is not cleared. The program is cleared when:
  - you press CLEAR (except while “AUTO PGM” on the front panel display is flashing) to exit Program mode.
  - you open the disc tray or turn off the player.



## Using the sound control functions



### Notes

- If you select the analog sound during playback of the disc which conforms to the Dolby Surround AC-3 system, only the sound of the left channel is output from both speakers. With this type of disc, you cannot use AUDIO MONITOR to alternate the left and right channels of analog sound.
- The output level may differ between digital and analog sound.

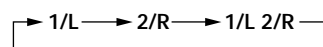
## Playing a stereo disc or Second Audio Program (SAP) disc

When playing SAP discs such as bilingual discs, you can alternate the sound output using AUDIO MONITOR.

### To alternate the sound output

Press AUDIO MONITOR while playing the disc.

Each time you press AUDIO MONITOR, the on-screen indication changes as follows:



Indication	From stereo disc	From SAP disc
1/L	Left channel	Sound track 1 (Left channel)
2/R	Right channel	Sound track 2 (Right channel)
1/L 2/R	Stereo (Both channels)	Sound track 1 (Left channel) Sound track 2 (Right channel)

When you select 1/L (or 2/R), the sound of the left (or right) channel is output from both speakers.

## Listening to analog sound on an LD

If your LD contains digital soundtracks, the player automatically outputs digital sound. To listen to sound recorded on analog soundtracks, use ANALOG/□X.

Press ANALOG/□X while playing the disc.

“♪ ANALOG” appears briefly on the screen and the analog sound is output.

### To return to digital sound

Press ANALOG/□X repeatedly until “♪ DIGITAL” appears on the screen.

## Playing discs with the □X (CX) logo

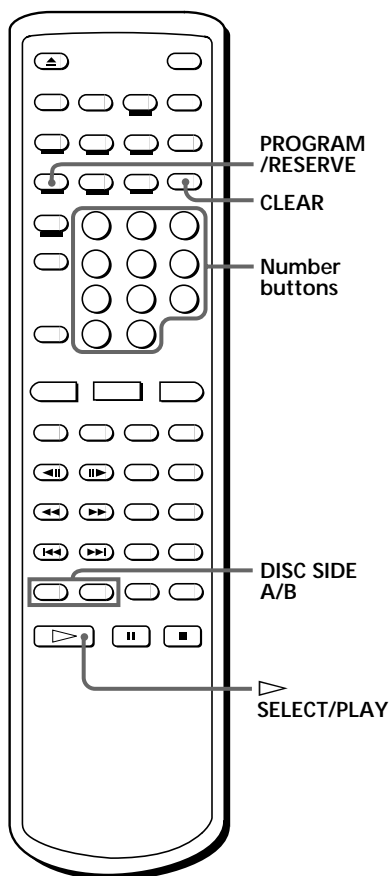
LDs bearing the □X logo are recorded with the CX noise reduction system, which gives lower noise level and higher dynamic range on analog sound. The player detects most □X discs and activates the CX noise reduction system automatically when outputting analog sound. If your □X LD does not contain a code to activate the CX noise reduction system, you can activate the CX noise reduction system manually while playing only analog sound.

### To activate the CX noise reduction system manually

Press ANALOG/□X repeatedly until “CX ON” appears. The CX noise reduction system is activated.



## Selecting karaoke song order (Reserve)



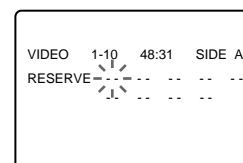
### Note

- You cannot use Reserve while using PBC functions on a Ver. 2.0 VIDEO CD. To use Reserve on a Ver. 2.0 VIDEO CD, press ■ STOP playing, then press the PBC (ON/OFF) button to turn off the PBC ON/OFF button indicator on the player.

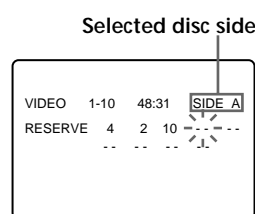
This is available in karaoke mode. You can select up to 9 songs to be played in any order you like, regardless of disc side, even while a song is being played. The songs are played continuously in the order you selected so that you can enjoy non-stop karaoke playing. You can also select songs on another disc (Next Disc Reserve).

### Selecting songs on the current disc

- 1 Press PROGRAM/RESERVE.**  
"RESERVE" appears. The RESERVE button indicator on the player flashes.

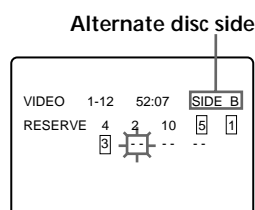


- 2 Press the number buttons to select songs in the order you want them to play.**  
When you play a double-sided LD, select the disc side by pressing DISC SIDE A (or B), then press the number buttons to select songs.



If you enter a wrong number, press CLEAR. With each press, the last song you entered is deleted.

- 3 To enter songs from the other side of the double-sided LD, press DISC SIDE B (or A), then press the number buttons to select the songs in the order you want them to play.**



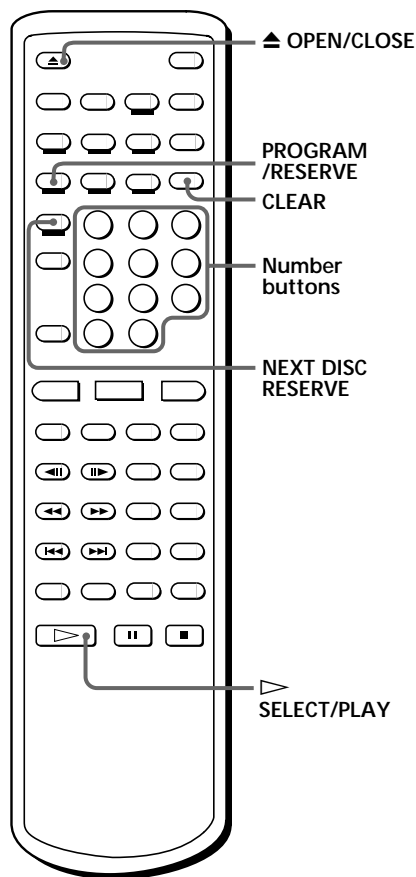
- 4 Repeat steps 2 and 3 until you finish selecting songs.**

- 5 Press PROGRAM/RESERVE.**  
On-screen indications disappear. The RESERVE button indicator on the player lights up.

If you reserve songs while playing a song, the reserved songs start playing, without pausing, after the current song.

If you reserve songs while the player is stopped, press ▷ SELECT/PLAY. The reserved songs start playing.

## Selecting karaoke song order (continued)



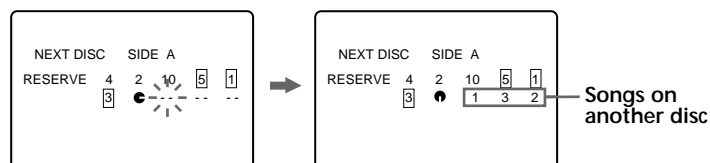
- You cannot use Next Disc Reserve in non-karaoke mode (without microphones connected). Instead, you can select up to 25 songs in non-karaoke mode (see “Playing songs in any order you like” on page 29).

### Notes

- When you play songs using Reserve (and Next Disc Reserve), the songs are played continuously, and you cannot use Auto Pause. The player enters pause mode after playing all the reserved songs.
- You cannot use Reserve and Repeat at the same time.
- You cannot select tracks over 80 on a CD or VIDEO CD using Next Disc Reserve.

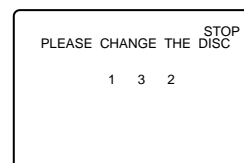
## Selecting songs on another disc (Next Disc Reserve)

- Press **NEXT DISC RESERVE** after steps 1 to 4 on the previous page.  
“●” appears on the screen, rotating. Now you can select songs on another disc. Follow steps 2 (and 3) on the previous page to select the songs.



- Press **PROGRAM/RESERVE** (then press **▶ SELECT/PLAY**).

The songs on the current disc are played, then the player stops automatically and prompts you to change the disc.



- Press **▲ OPEN/CLOSE** to open the disc tray, then change the disc.

- Press **▶ SELECT/PLAY** or push in the disc tray.  
The selected songs on the new disc start playing automatically.

## Canceling Reserve and Next Disc Reserve

Press **CLEAR**.

“CLEAR” appears briefly and the player exits Reserve mode. The **RESERVE** button indicator on the player goes off. All the reserved songs are cleared.



- You can enter 0 to select chapter 0 on LDs.  
To enter 0, press >10 (or >15 on the player), then press 10/0 (or 10 on the player).

#### To enter a number greater than 10

Press >10 on the remote, then press two number buttons in sequence, first the tens digit, then the ones digit.

If you press >10 by mistake, press >10 again to flash "--" on the screen, then enter the correct one digit number.

To	Press
Enter 10	10
Enter 14	>10, then 1, then 4
Enter 20	>10, then 2, then 10
Enter 25	>10, then 2, then 5

#### To enter a number greater than 15 using the number buttons on the player

Press >15 first, then the corresponding number buttons. To enter "0", use 10.

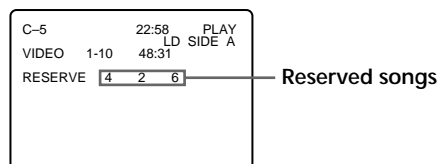
Example: To enter 30

Press >15 first, then 3 and 10.

#### To check the songs to be played

Press DISPLAY twice.

The numbers of the reserved songs appear. When a song has been played, its number disappears.

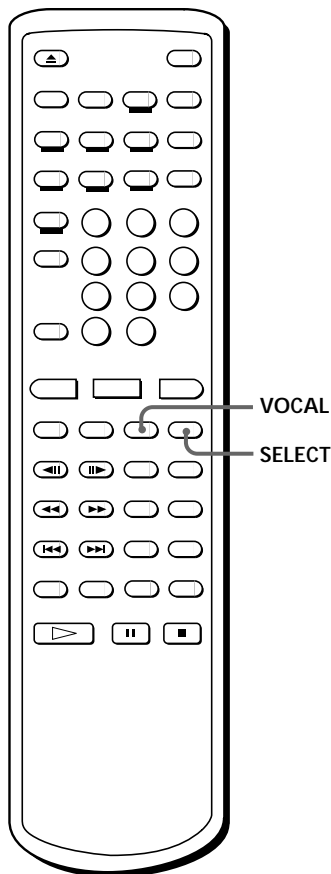


#### To skip the current song

Press ►►.

The next reserved song starts playing.

## Using karaoke functions



- When you connect your VCR to the LINE IN input on the player and set the player to line in mode (see "Playing karaoke using auxiliary equipment" on page 41), you can also use Vocal Select for karaoke video tapes.

### Note

- On some VIDEO CDs, original vocals are recorded on the left channel. If you play such a disc, the player outputs the vocals and backup sound. To listen to backup sound only, use the AUDIO MONITOR button to select "2/R" (see "Using the sound control functions" on page 32).

You can enjoy karaoke using various functions.

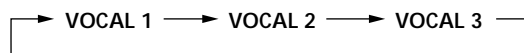
### Singing along with the original vocals (Vocal Select)

You can listen to words or melody you forget by listening to the original vocals. This is available in karaoke mode for karaoke discs or tapes.

#### To listen to the original vocals on MULTI AUDIO LDs

On MULTI AUDIO karaoke LDs, vocals are recorded on an analog track. When playing MULTI AUDIO karaoke LDs, the player automatically outputs the backup sound recorded on digital tracks in stereo. To listen to the vocals, use Vocal Select. You can easily select the analog track on which the vocals are recorded.

- 1 Press VOCAL to turn on the SELECT button indicator.
- 2 Press SELECT repeatedly until the vocals are heard. With each press, the on-screen indication changes as follows:

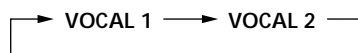


Indication	Output sound recorded on
VOCAL 1	Right analog track
VOCAL 2	Left analog track
VOCAL 3	Right analog track (with stereo sound on digital tracks)

#### To listen to the original vocals on karaoke CDs, VIDEO CDs, or tapes

When playing karaoke CDs, VIDEO CDs in karaoke mode (with microphones connected), or when playing karaoke tapes using LINE IN, the player automatically outputs backup sound recorded on the left channel. To listen to the vocals, use Vocal Select to also output the original vocals recorded on another track.

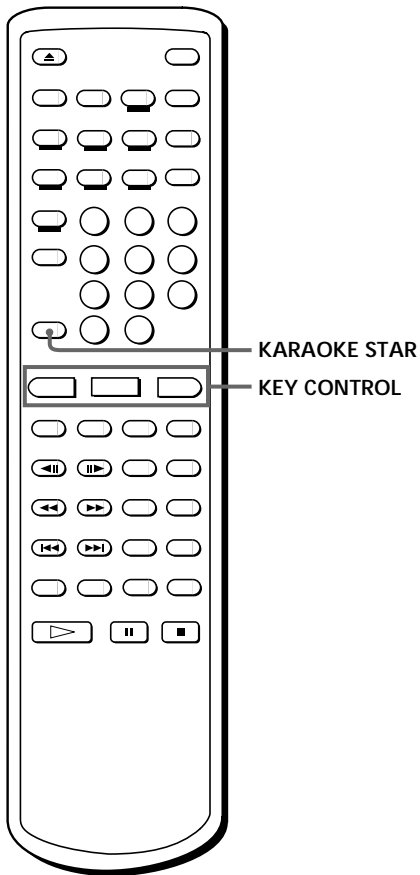
- 1 Press VOCAL to turn on the SELECT button indicator.
- 2 Press SELECT repeatedly to select the sound. With each press, the on-screen indication changes as follows:



Indication	Output
VOCAL 1	Vocals with backup sound from both speakers
VOCAL 2	Stereo (Backup sound from left speaker and vocals from right speaker)

#### To cancel Vocal Select

Press VOCAL to turn off the SELECT button indicator. "VOCALSEL OFF" appears on the screen briefly.



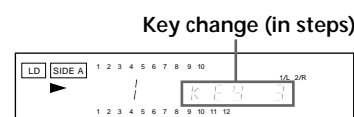
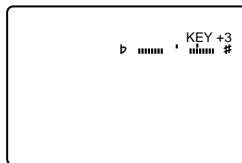
## Changing the backup key (Key Control)

You can adjust the backup key to your voice.

Press # UP or b DOWN repeatedly to find the backup key that suits your voice.

To	Press
Raise the key	# UP
Lower the key	b DOWN
Return to the original key	h NATURAL

The key is adjustable to one of 17 steps (8 steps higher, 8 steps lower than the original key, and the original key). Your setting appears on the screen briefly. In karaoke mode (with microphones connected), or when you use LINE IN, the key change (in steps) is always displayed on the front panel display.



- In karaoke mode, the key returns to the original key when playback pauses automatically at the end of a song. If Auto Pause is canceled, the key does not change at the end of a song.
- You can also adjust the key from the karaoke microphone (see “Using the optional karaoke microphone” on page 40).
- You can also use Key Control in non-karaoke mode (without microphones connected).

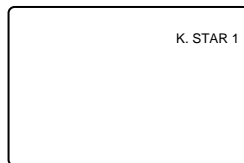
### Note

- When you use KARAOKE STAR, the ECHO LEVEL control should be set to the appropriate level. If the control is set to MIN, the karaoke star function has no effect.

## Adding richness to your voice (Karaoke Star)

If you feel that your voice lacks depth, use the karaoke star function.

Press KARAOKE STAR. The KARAOKE STAR indicator-button on the player lights green and “K. STAR 1” appears on the screen. Initially, the effect level is low.



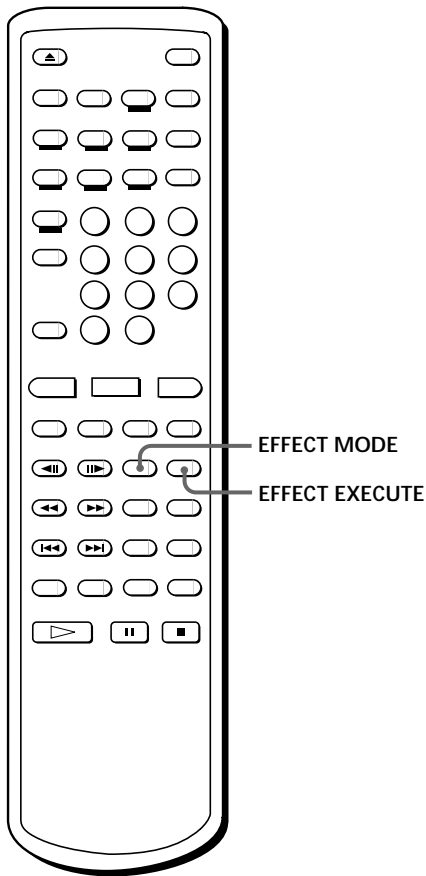
To increase the effect level, press KARAOKE STAR again. The KARAOKE STAR indicator-button on the player lights orange and “K. STAR 2” appears on the screen, and the effect level becomes high. With each press, the on-screen indication changes as follows:



### To cancel Karaoke Star

Press KARAOKE STAR so that the KARAOKE STAR indicator-button goes off.

## Using karaoke functions (continued)



- Even in non-karaoke mode, you can use the applause function.

### Note

- The EFFECT EXECUTE button does not function during applause. To use the EFFECT EXECUTE button, press it after applause finishes.
- When playing karaoke using LINE IN, you can only use the applause function manually.
- You cannot use Applause while using PBC functions on a Ver. 2.0 VIDEO CD. To use the applause function, press ■ STOP to stop playback, then press the PBC (ON/OFF) button to turn off the PBC ON/OFF button indicator on the player.

## Applauding the singer

The player can liven up karaoke entertainment by applauding the singer.

### To select automatic applause

The player applauds at the beginning and end of each song automatically (except during PBC playback on a Ver. 2.0 VIDEO CD). You can select two types of applause.

Press EFFECT MODE on the remote commander or AUTO EFFECT on the player to turn on the AUTO EFFECT button indicator. With each press, the on-screen indication changes as follows:



Indication	Select
EFFECT 1	Applause only
EFFECT 2	Applause and cheers
EFFECT OFF	Cancel (the indicator turns off)

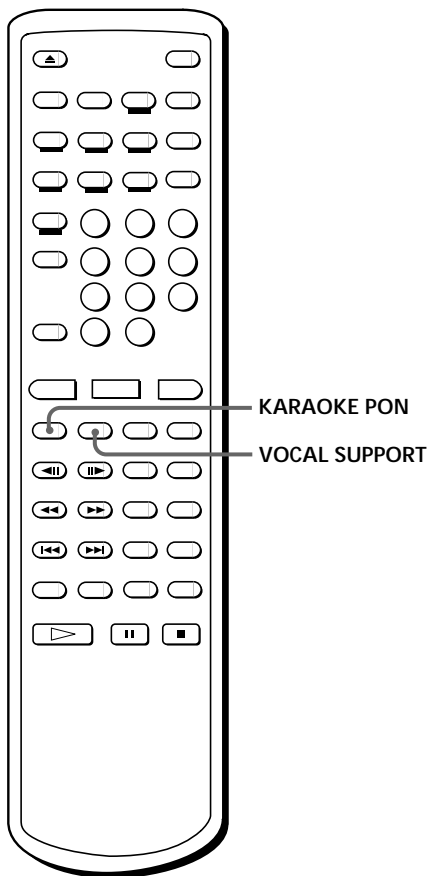
### To applaud manually

You can applaud the singer any time you like.

Press EFFECT EXECUTE on the remote commander.

Each time you press EFFECT EXECUTE, the player applauds.

When you applaud manually, the player applauds according to the Auto Effect Applause setting. When the Auto Effect Applause is set to EFFECT 1, the player does "Applause" only. When the Auto Effect Applause is set to EFFECT 2 or EFFECT OFF, the player does "Applause and cheers".



- Using the Vocal Support function, you can sing a duet by yourself. You can sing the male part (or female part) and the other part comes in when you stop singing.
- You can also use Karaoke Pon in non-karaoke mode (without microphones connected).

#### Notes

- You cannot use Vocal Support in non-karaoke mode (without microphones connected).
- Karaoke Pon is only available for discs recorded in stereo. With monaural discs, the backup level is also lowered.
- You cannot completely shut off the vocals by using Karaoke Pon. Even with stereo discs, if the voice deviates from the center, its level may not be lowered well.
- When using Karaoke Pon, stereo effect is reduced.

## Letting the vocals help you (Vocal Support)

You can let the original vocals come in when you forget the words or melody. This is available for MULTI AUDIO discs, or multiplex discs or tapes.

Press VOCAL SUPPORT to turn on the VOCAL SUPPORT indicator on the player.

“SUPPORT” appears on the screen briefly.

While you are singing into the microphone, the player outputs the backup sound, but when you are not, it also outputs the singer’s voice to help you.

### To turn off Vocal Support

Press VOCAL SUPPORT again to turn off the VOCAL SUPPORT indicator on the player.

“SUPPORT OFF” appears on the screen briefly.

## Enjoying karaoke with non-karaoke discs (Karaoke Pon)

With a disc recorded in stereo, you can enjoy karaoke even if it is a non-karaoke disc.

Press KARAOKE PON to turn on the KARAOKE PON function.

“KARAOKE PON” appears on the screen.

The volume of the singer’s voice is lowered.

### To turn off Karaoke Pon

Press KARAOKE PON again to turn off the KARAOKE PON function.

“K. PON OFF” appears on the screen briefly.

## Using karaoke functions (continued)



- When using two microphones, Repeat Singing and Key Control are only operable on the microphone connected to the CONTROL (MIC 1/2) jack.

## Using the optional karaoke microphone

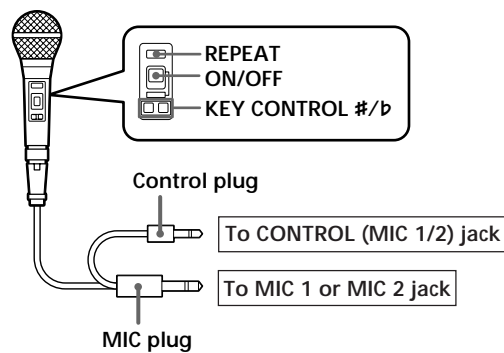
You can control the player from the karaoke microphone (F-KM1, not supplied) by connecting the control plug to the CONTROL jack on the player.

### To sing repeatedly

You can go back to any point of a song using the REPEAT button on the microphone. Hold down REPEAT and release it at the desired point. Playback continues again from the point at which the button is released.

### To use Key Control

You can change the backup key by pressing KEY CONTROL #/b on the microphone. This is the same operation as KEY CONTROL on the player or remote commander (see “Changing the backup key” on page 37).



## Using the infrared cordless microphone system (not supplied)

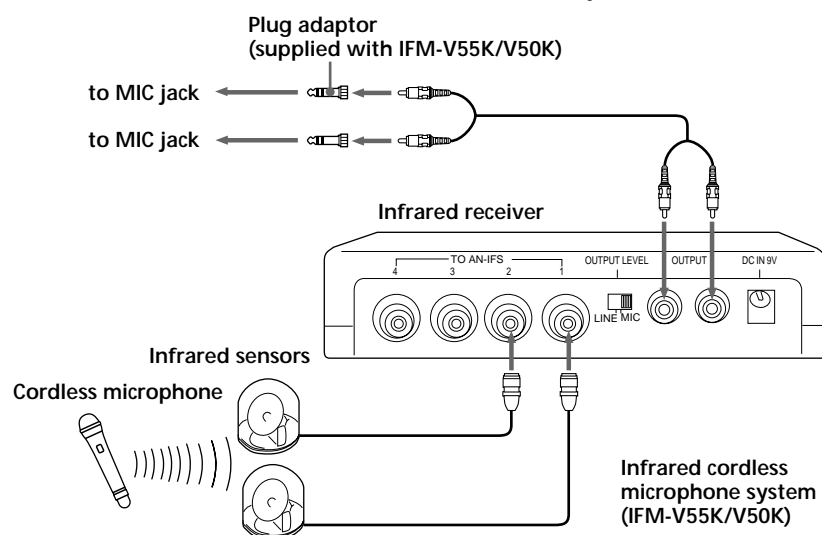
You can use infrared cordless microphones by connecting the infrared receiver to the MIC jacks on the player.

### Note

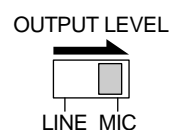
- The MIC 1 LEVEL (or MIC 2 LEVEL) control adjusts the volume level of the MIC 1 (or MIC 2) jack on the front panel and that on the rear panel simultaneously.

### IFM-V55K/V50K

- 1 Connect the infrared receiver to the MIC 1/2 jacks.



- 2 Set the OUTPUT LEVEL selector on the infrared receiver to MIC.







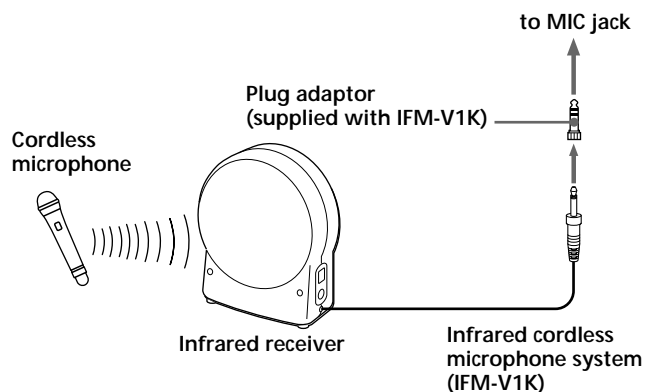
- When you use LINE IN, the left channel is output automatically, even if microphones are not connected. To listen to the right channel, or to listen to both channels in stereo, use Vocal Select. Vocal Select operates as it would do for CDs (VOCAL 1 and VOCAL 2). See “Singing along with the original vocals” on page 36 for details.
- When you use LINE IN, you can only use the applause function manually.

**Note**

- When you play karaoke using auxiliary equipment such as a VCR using LINE IN:
  - Always turn on the LD player.
  - Stop playing the disc by pressing ■ STOP. When playing a disc, you cannot use LINE IN.

**IFM-V1K**

Connect the infrared receiver to the MIC 1/2 jacks.

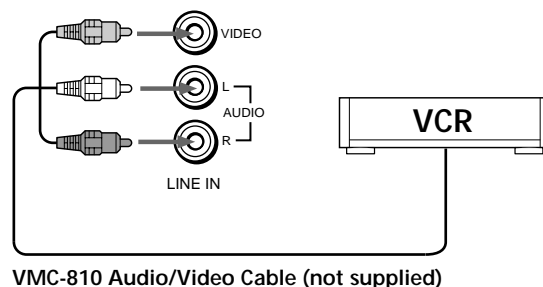


**Playing karaoke using auxiliary equipment**

You can also enjoy karaoke by connecting auxiliary equipment such as a VCR to the LINE IN AUDIO/VIDEO inputs on the player. The karaoke functions such as Vocal Select, Key Control, Applause, Karaoke Star, Vocal Support, and Karaoke Pon are available as they would be for discs.

- 1 Connect the VCR to the LINE IN AUDIO/VIDEO inputs on the rear.
- 2 Press LINE IN on the player.  
The LINE IN button indicator on the player lights up.

If a disc is being played, press ■ STOP to stop playing it. Now you can enjoy playing karaoke with your video tape. To return to playing a disc, press ▷ SELECT/PLAY.



## Additional Information

# Troubleshooting

	Symptom	Remedy
<b>Power</b>	No power	<ul style="list-style-type: none"> <li>• Connect the AC power cord securely.</li> </ul>
<b>Karaoke</b>	No sound from microphone	<ul style="list-style-type: none"> <li>• Switch the microphone on.</li> <li>• Turn up the MIC LEVEL 1 or 2 control on the player.</li> </ul>
	Distorted sound	<ul style="list-style-type: none"> <li>• Set the ATT switch at the rear of the player to ON.</li> </ul>
	Howling occurs	<ul style="list-style-type: none"> <li>• Move the microphone away from the speakers.</li> <li>• Lower the volume.</li> <li>• Lower the microphone volume or echo level.</li> </ul>
	KARAOKE STAR does not operate	<ul style="list-style-type: none"> <li>• Set ECHO LEVEL to the appropriate position. KARAOKE STAR does not operate if ECHO LEVEL is set to MIN.</li> </ul>
<b>Playback</b>	Playback does not start	<ul style="list-style-type: none"> <li>• Insert the disc correctly. When playing a CD, VIDEO CD or LD Single, place it with the label facing up.</li> <li>• Select the disc side on which signals are recorded.</li> <li>• If there may be moisture condensation within the player, wait for about one hour before operating the player.</li> <li>• Clean the disc.</li> </ul>
	Playback stops every time a chapter/track ends	<ul style="list-style-type: none"> <li>• Press AUTO PAUSE to turn off the AUTO PAUSE button indicator on the player.</li> </ul>
	Menu does not appear on a VIDEO CD	<ul style="list-style-type: none"> <li>• Use a VIDEO CD which has PBC functions (Ver. 2.0 VIDEO CD).</li> <li>• Press ■ STOP to stop playing the disc, then press the PBC (ON/OFF) button to turn on the PBC ON/OFF button indicator on the player. Press ▷ SELECT/PLAY to display the menu.</li> </ul>
<b>Picture</b>	No picture, but "▶" lights up on the front panel display	<ul style="list-style-type: none"> <li>• Connect the TV correctly.</li> <li>• Turn on the TV and set the input selector on the TV to "Video."</li> </ul>
	Poor picture	<ul style="list-style-type: none"> <li>• Connect the TV correctly.</li> <li>• Clean the disc.</li> </ul>
	Visual noise while scanning a disc	<ul style="list-style-type: none"> <li>• A certain amount of visual noise and instability is inevitable while scanning a disc.</li> </ul>
	Freeze Frame does not operate	<ul style="list-style-type: none"> <li>• Use a CAV LD or VIDEO CD. Freeze Frame does not operate on CLV LDs.</li> </ul>
<b>Sound</b>	No sound	<ul style="list-style-type: none"> <li>• Connect the TV or amplifier correctly.</li> <li>• Turn up the volume on the TV or amplifier.</li> <li>• Switch on the amplifier and set the input selector to "CD" or "AUX."</li> <li>• Press ▷ SELECT/PLAY. No sound is output while in pause mode.</li> </ul>
<b>Others</b>	Remote Commander does not operate	<ul style="list-style-type: none"> <li>• Turn on the player.</li> <li>• Point the remote commander at the remote sensor on the player.</li> <li>• Remove any obstacles between the remote commander and the sensor.</li> <li>• Insert the batteries correctly.</li> <li>• Replace both the batteries with new ones if they are weak.</li> </ul>

# Specifications

## System

**Type**  
VIDEO CD/CD/LD player

**Signal readout**  
Optical (Laser beam reflection)

**Signal format system**  
EIA standard, NTSC color system  
CCIR standard, PAL color system (for VIDEO CDs only)

**Playing time**  
See "Optical discs" on page 44.

## Digital audio specifications

**Signal-to-noise ratio**  
More than 115 dB (EIAJ)\*

**Dynamic range**  
More than 99 dB (EIAJ)

**Wow and flutter**  
Below measurement limit  
( $\pm 0.001$  % W.PEAK) (EIAJ)

## Video specification

**Horizontal video resolution**  
425 lines (LD)

**Signal-to-noise ratio**  
More than 50 dB

\* Measured according to EIAJ (Electric Industries Association of Japan) standards.

## Input and Output

**LINE OUT 1, 2**  
VIDEO output, Phono jack (1)  
Output signal: 1 Vp-p, 75 ohms, unbalanced  
AUDIO output, Phono jacks (2)  
Stereo L, R  
Analog: 200 mVrms  
(1 kHz, 40 % modulation)  
Digital: 200 mVrms  
(1 kHz, -20 dB)

**S VIDEO OUT 1, 2**  
Luminance: 1 Vp-p, 75 ohms, unbalanced, sync negative  
Chrominance: 0.286 Vp-p, 75 ohms, unbalanced

**OPTICAL DIGITAL OUT**  
-18 dBm, wavelength 660 nm

**Dolby AC-3 RF OUT**  
Phono jack (1)  
Output level: 400 m Vp-p  
Output impedance: 75 ohms

**HeadPHONES output**  
12 mW (8 ohms)

**LINE IN**  
VIDEO input, Phono jack (1)  
Input signal: 1 Vp-p, 75 ohms, unbalanced, sync negative  
AUDIO input, Phono jacks (2)  
Stereo L, R  
Max. input level: 200 mVrms (-20 dB)  
Input impedance:  
more than 47 kilohms

**MIC 1/2 jacks**  
Standard jacks  
1 mV  
(Impedance below 1 kilohm)

## General

**Power requirements**  
110-240 V AC, 50/60 Hz

**Power consumption**  
45 W

**Operating temperature**  
5°C to 35°C

**Ambient humidity**  
5% to 90 %

**Dimensions**  
Approx. 430 × 127.5 × 413.5 mm  
(w/h/d)  
including projecting parts and controls

**Mass**  
Approx. 6.8 kg





## Supplied accessories

Remote Commander RMT-M45A (1)  
R6 (size AA) batteries (2)  
Audio/Video Cable  
(phono plug 3 ↔ phono plug 3) (1)  
AC plug adaptor (supplied with models other than Hong Kong model) (1)  
Cushions (4)

Design and specifications are subject to change without notice.

## Optical discs

The MDP-V9K can play optical discs currently available for home entertainment, laser discs (LD) and compact discs (CD and VIDEO CD). The table below shows the discs available for this player.\*

Disc class	Disc logo	Disc type	Size	Sides	Play time		
Laser Discs For movies, animation, operas, concerts, and karaoke		LD Single (NTSC)	8 in. (20 cm)	Single	CAV	14 min	
					CLV	20 min	
		8-inch LD (NTSC)	8 in. (20 cm)	Double	CAV	28 min	
					CLV	40 min	
			12-inch LD (NTSC)	12 in. (30 cm)	Double	CAV	1 hr
						CLV	2 hr
Compact Discs For music, movies, animation, karaoke, and photographs		CD Single	3 in. (8 cm)	Single	20 min (audio only)		
		CD	5 in. (12 cm)	Single	74 min (audio only)		
		VIDEO CD (NTSC and PAL)	3 in. (8 cm)	Single	20 min		
					5 in. (12 cm)	Single	74 min

\* The MDP-V9K cannot play discs other than those shown above.

### Multi audio discs



Discs with these logos contain separate analog and digital tracks which may differ in content.

### VIDEO CD standards to which the player conforms

This player conforms to Ver. 1.0, Ver. 1.1, and Ver. 2.0 of the VIDEO CD specifications. If you use a Ver. 2.0 CD, Play Back Control (PBC) functions and high-resolution still pictures (the new part of Ver. 2.0 of the VIDEO CD specifications) are available as well as normal playback of moving pictures and sound.

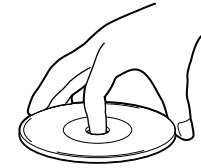
### Discs conforming to the Dolby Surround AC-3 system

With this type of disc, the player outputs only the left channel signals as monaural sound, muting the sound of the right channel when analog audio is selected. Thus, you cannot alternate the right and left channels of analog audio with the Audio Monitor function.

## Optical disc maintenance

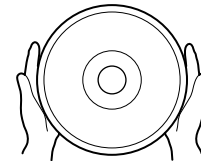
### Holding CDs

Hold CDs (including VIDEO CDs) by putting your index finger through the center hole and grasping the edge of the disc with the thumb and other fingers as pictured in the illustration.



### Holding LDs

Hold LDs by grasping the outside edge with both hands as illustrated.



### Light exposure

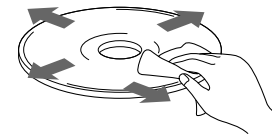
Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave the disc in a car parked in direct sunlight where there can be a considerable rise in temperature.

### Cracked or damaged discs

Do not play cracked or damaged discs, or try to play discs that have been repaired with adhesive glues.

### Keeping the disc surface clean

Clean the surface of the disc before playing, using a soft, dry, cleaning cloth. Wipe the disc from the center out. Do not use solvents such as benzene, paint thinner, commercially available cleaners, or anti-static spray intended for LP record discs.



To prevent marring, after playing, remove the disc and put it back into its jacket.

Putting your fingers on, or adhering anything to the surface of the disc such as sticky note pad paper or adhesive tape, will deteriorate the quality of the playing surface, and thus the output quality.

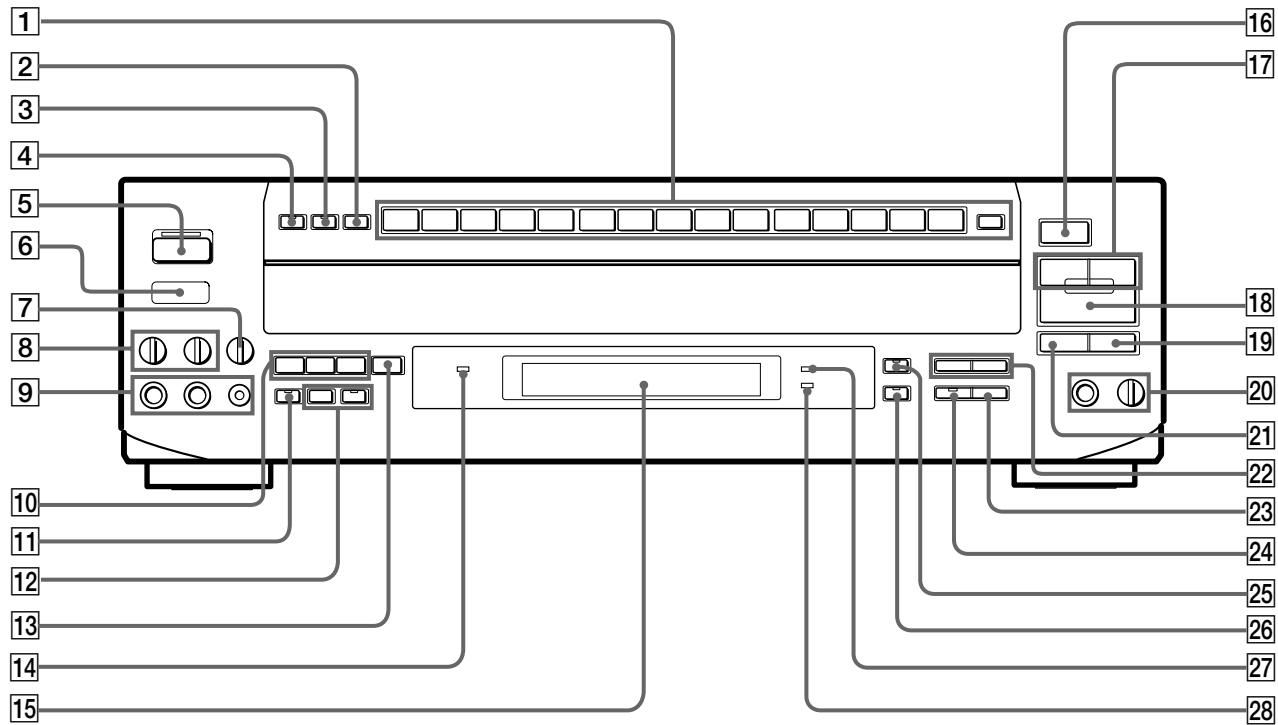


If there is glue (or a similar substance) on the disc, remove the glue completely before using the disc.

See the pages indicated in ( ) for details.

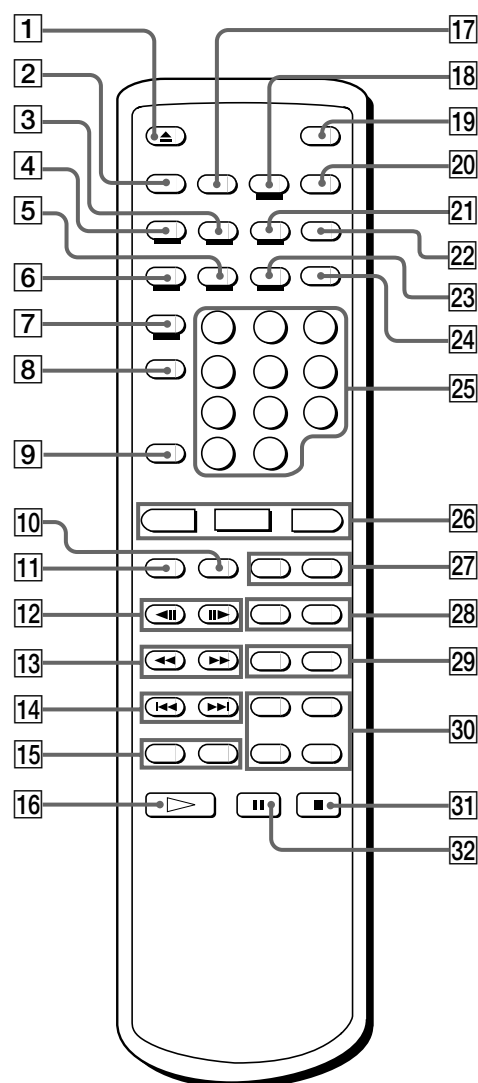
## Index to parts and controls

### Front




- |  |   |
|--|---|
| <b>1</b> Number buttons (15) (18) (35)   | <b>16</b> ≡ OPEN/CLOSE button (10) (11) (13)                  |
| <b>2</b> CLEAR button (19) (26) (28) (29) (34) (36)  | <b>17</b> SIDE A/B buttons (11) (29) (33)                     |
| <b>3</b> NEXT DISC RESERVE button and indicator (34)   | <b>18</b> ▷ SELECT (Play) button (10) (11)                    |
| <b>4</b> RESERVE button and indicator (33) (35)  | <b>19</b> ■ (Stop) button (11) (12)                           |
| <b>5</b> POWER switch and indicator (10) (13)<br>During STANDBY : Lights up red<br>While ON : Goes off | <b>20</b> PHONES jack and control (11)                        |
| <b>6</b> Remote sensor (42)  | <b>21</b>    (Pause) button (11)                              |
| <b>7</b> ECHO LEVEL control (14)   | <b>22</b> ◀◀/▶▶ PREV/NEXT (ACS/AMS) buttons<br>(11) (15) (20) |
| <b>8</b> MIC LEVEL 1 and 2 controls (13) (14)  | <b>23</b> RETURN button (15) (24)                             |
| <b>9</b> MIC 1, 2 and CONTROL (MIC 1/2) jacks (13)   | <b>24</b> PBC ON/OFF button and indicator (15) (24)           |
| <b>10</b> KEY CONTROL ⏏ DOWN/NATURAL/# UP<br>indicator-buttons (37)                                    | <b>25</b> AUTO PAUSE button and indicator (14)                |
| <b>11</b> AUTO EFFECT button and indicator (38)  | <b>26</b> LINE IN button and indicator (41)                   |
| <b>12</b> VOCAL/SELECT buttons and indicator (36)  | <b>27</b> VIDEO CD PAL OUT indicator (11)                     |
| <b>13</b> KARAOKE STAR indicator-button (37)   | <b>28</b> AUTO RESUME indicator (23)                          |
| <b>14</b> VOCAL SUPPORT indicator (39)   |   |
| <b>15</b> Display (12)   |   |

## Remote commander



- 1 ▲ OPEN/CLOSE button (10) (11) (13)
- 2 ANALOG/☒ button (32)
- 3 1/SIDE/ALL button (25) (27) (28)
- 4 REPEAT button (25)
- 5 SHUFFLE button (27) (28)
- 6 PROGRAM/RESERVE button (29) (33) (34)
- 7 NEXT DISC RESERVE button (34)
- 8 AUTO PAUSE button (14)
- 9 KARAOKE STAR button (37)
- 10 VOCAL SUPPORT button (39)
- 11 KARAOKE PON button (39)
- 12 ◀◀/▶▶ STILL/STEP buttons (11) (22)
- 13 ◀◀/▶▶ SCAN buttons (11) (20)
- 14 ◀◀/▶▶ PREV/NEXT (ACS/AMS) buttons (11) (15) (20)
- 15 DISC SIDE A/B buttons (11) (29) (33)
- 16 ▷ SELECT/PLAY button (10) (11)
- 17 AUDIO MONITOR button (32)
- 18 FRAME/TIME/SCENE button (19)
- 19 POWER switch (10) (13)
- 20 DISPLAY button (16) (17) (28)
- 21 REPEAT A↔B button (26)
- 22 AV TIME button (17)
- 23 AUTO PGM button (30)
- 24 CLEAR button (19) (26) (28) (29) (34) (36)
- 25 Number buttons (15) (18) (35)
- 26 KEY CONTROL buttons (37)
  - ▾ DOWN button
  - ⌵ NATURAL button
  - # UP button
- 27 VOCAL/SELECT buttons (36)
- 28 EFFECT MODE/EXECUTE buttons (38)
- 29 ◀/▶ V. INDEX buttons (21)
- 30 VIDEO CD buttons (15) (24)
  - MARK button
  - M.PLAY button
  - ↻ RETURN button
  - PBC button
- 31 ■ STOP button (11) (12)
- 32 ■ PAUSE button (11)

 A function activated by pressing a button with an orange mark can be canceled by pressing the CLEAR button.



## Glossary

### VIDEO CD

A compact disc which contains moving pictures. VIDEO CDs contain picture information using the MPEG 1 format, one of the world wide standards of digital compression technology. Picture information is compressed about 120 times. Consequently, a 12 cm VIDEO CD can contain up to 74 minutes of moving pictures. VIDEO CDs also contain compressed audio information. Sounds outside the range of human hearing are compressed while the sounds we can hear are not compressed. VIDEO CDs can hold 6 times amount of the audio information of conventional audio CDs. There are two versions of the standards for VIDEO CDs.

Version 1.0 and 1.1: Only play moving pictures and sound.

Version 2.0: Adds interactive playback using PBC functions and high-resolution still pictures.

This player conforms to both versions.

### PBC (Play Back Control) functions

Available on Version 2.0 VIDEO CDs, which enable you to play the disc interactively. When PBC functions are turned on, the PBC ON/OFF button indicator lights up.

### KARAOKE STAR function

This function allows you to obtain depth of your voice adding a lower frequency sound to your voice.

## Index

### A, B

- Accessories, supplied 5
- ACS/AMS 20
- Adjusting
  - backup key 37
  - echo 14
  - microphone volume 14
- ATT switch 14
- Auto pause 14
- Auto program 30
- Book mark 24

### C

- CAV disc 11, 19, 22
- CD disc 18, 36, 44
- CLV disc 11, 19
- Chapter search 18
- Color system selector 7
- Connecting
  - amplifier 8
  - headphones 11
  - infrared cordless microphones 40
  - microphones 13
  - processor or amplifier conforming to Dolby Surround AC-3 system 9
  - TV or VCR 6
  - VCR to LINE IN jacks 41

### D, E

- Delete shuffle 28
- Disc
  - classification 44
  - maintenance 45
- Display
  - front panel 12
  - on-screen 16
  - time 17

### F, G, H, I, J

- Frame/time/scene search 19
- Freeze frame 22

### K

- Karaoke, playing 13
  - changing the backup key 37
  - letting the original vocals help you 39
  - listening to the original vocals 36
  - pausing automatically 14
  - selecting the next songs 33
  - using auxiliary equipment 41
  - using the karaoke microphone 40
  - with non-karaoke discs 39
- Karaoke star 37
- Karaoke pon 39
- Key control 37

### L

- Line in 41
- Loading a disc 10

### M, N

- MULTI AUDIO disc 36, 39, 44
- Next disc reserve 32

### O

- One side repeat 25
- Opening the disc tray 10
- Optical disc types 44

### P, Q

- PAL VIDEO CD 11
- PBC (Play Back Control) 10, 15
- Picture
  - flickering 14
- Playback 10
  - frame-by-frame 28
  - interactive 15
  - random 27
  - resume 23
- Power
  - AC plug adaptor 2
  - turning on/off 10
- PREV/NEXT 15, 20
- Program play 29

### R

- Repeat A↔B 26
- Repeat play 25
  - current chapter/track 25
  - one side of an LD 25
  - particular portion 26
  - whole disc 25
- Remote commander 5, 42
  - inserting batteries 5
- Reserve 33

### S

- Searching
  - by chapter/track number 18
  - by frame/time/scene number 19
  - by index number 21
  - skipping chapters/tracks 20
  - speed scanning 20
- Single repeat 25
- Skip search 20
- Sound
  - analog 32
  - digital 32
  - distorted 14
  - on SAP discs 32
  - with CX noise reduction system 32
- Step play 22

### T, U

- Track search 18
- Trouble shooting 42

### V, W, X, Y, Z

- VIDEO CD disc 10, 15, 44
- Vocal select 36
- Vocal support 39

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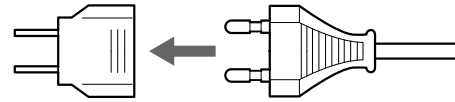
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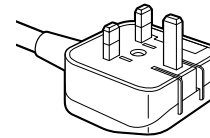
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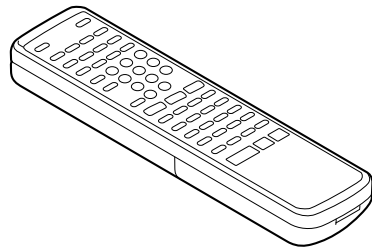
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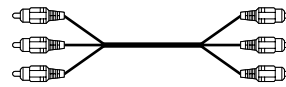
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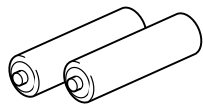
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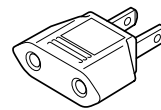
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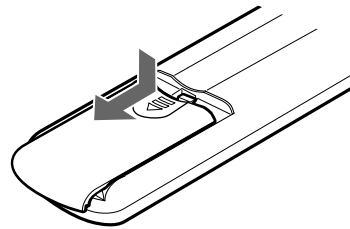
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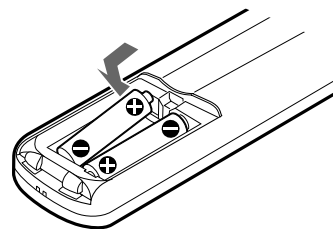
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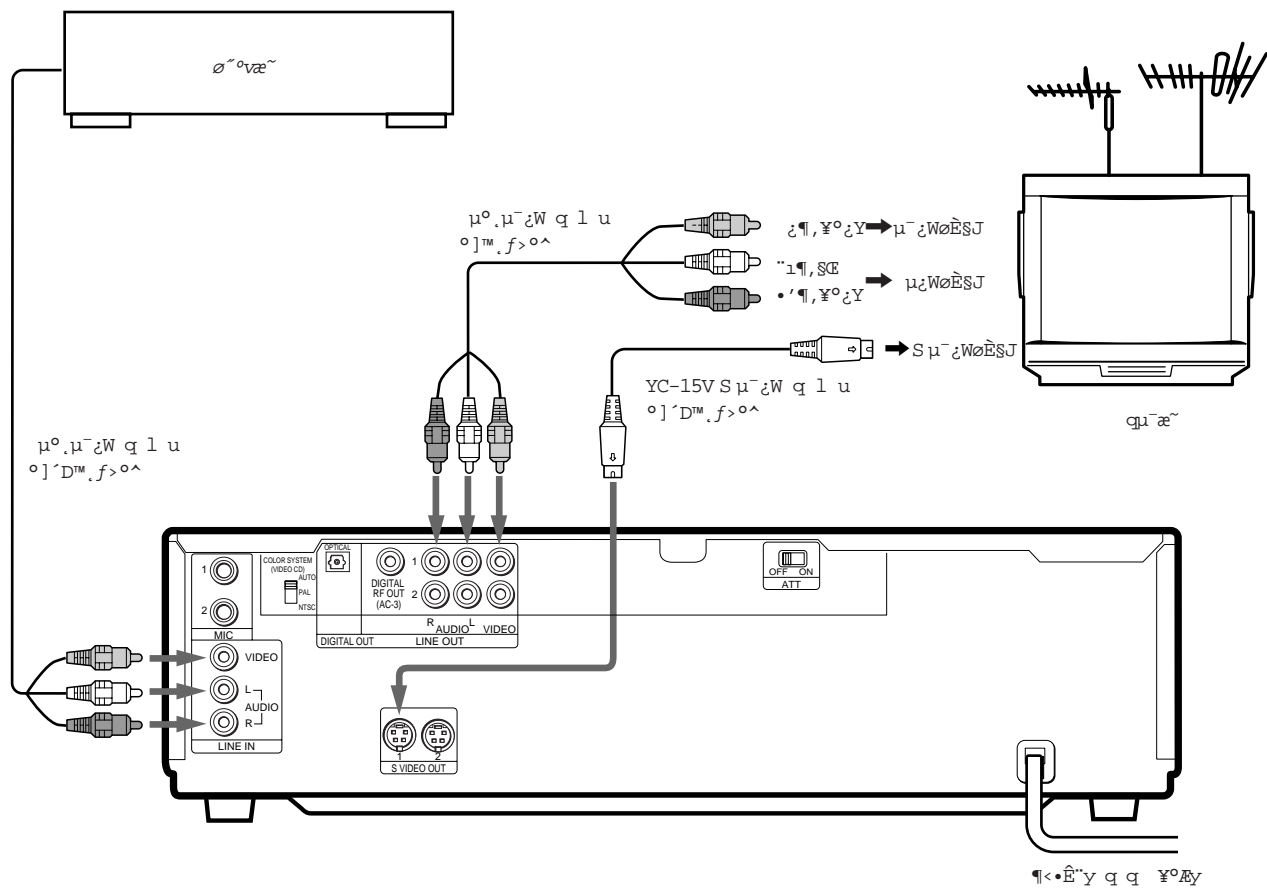
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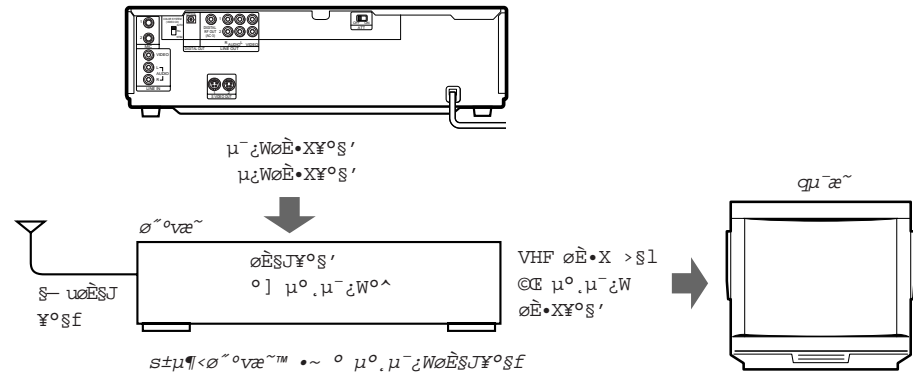
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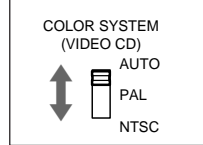
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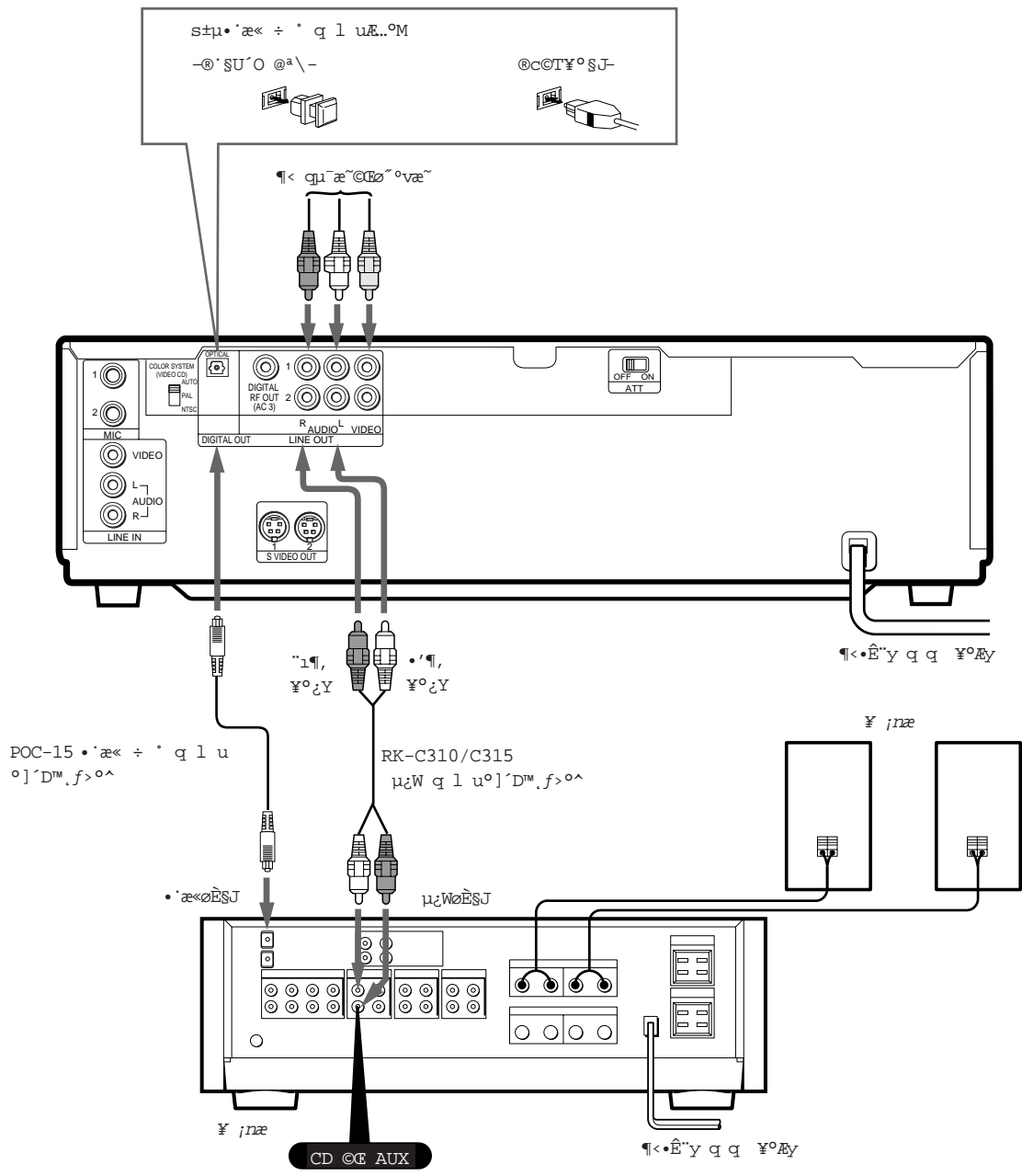


მუხრის დასაყრდენი

ყველაზე უფრო ადვილად შეიძლება გამოიყენოს მუხრის დასაყრდენი - HRK-C310  
HRK-C310-ის მიწოდებაში მოხსნილია დამატებითი კაბლები, რომლებიც საჭიროა  
დასაყრდენის დასაყრდენად გამოიყენოთ.

ინსტრუქცია

- დასაყრდენის დასაყრდენად გამოიყენეთ HRK-C310-ის მიწოდებაში მოხსნილი  
• დასაყრდენის დასაყრდენად გამოიყენეთ HRK-C310-ის მიწოდებაში მოხსნილი  
• დასაყრდენის დასაყრდენად გამოიყენეთ HRK-C310-ის მიწოდებაში მოხსნილი

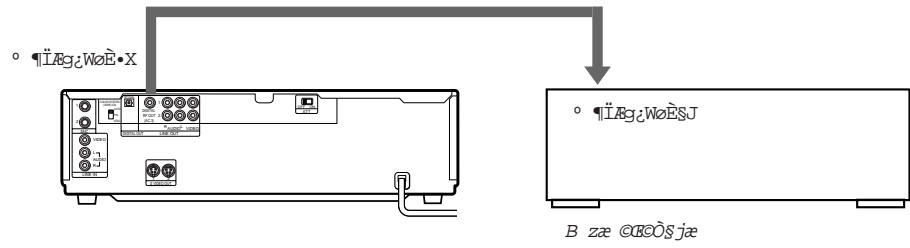


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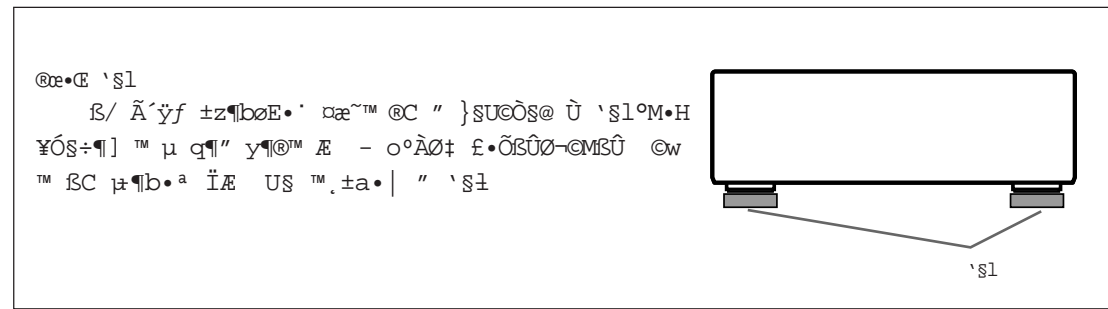
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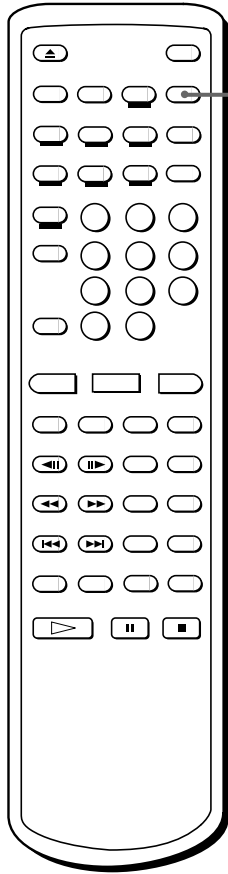
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이 설명서에는 본 제품의 사용 방법과 주의 사항에 대한 정보가 포함되어 있습니다. 본 설명서를 잘 읽고 이해하여 올바르게 사용하십시오.

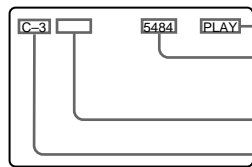


DISPLAY

- LD: LD는 LD (Laser Disc) 또는 CD (Compact Disc)를 재생할 때 사용됩니다. LD 버튼을 누르면 LD 재생이 시작됩니다.
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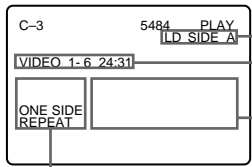
이 설명서에는 본 제품의 사용 방법과 주의 사항에 대한 정보가 포함되어 있습니다. 본 설명서를 잘 읽고 이해하여 올바르게 사용하십시오.

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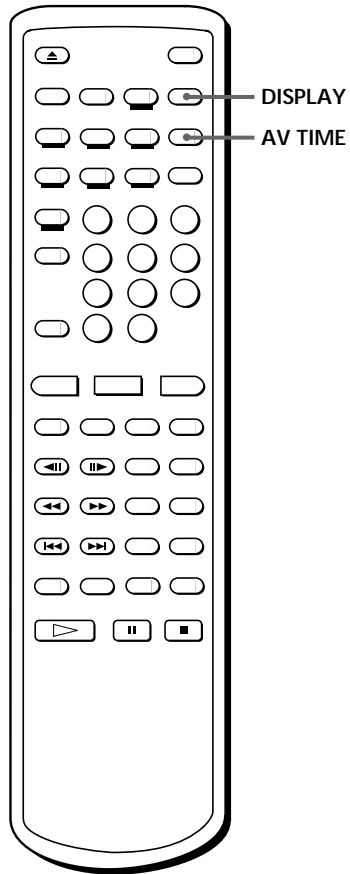


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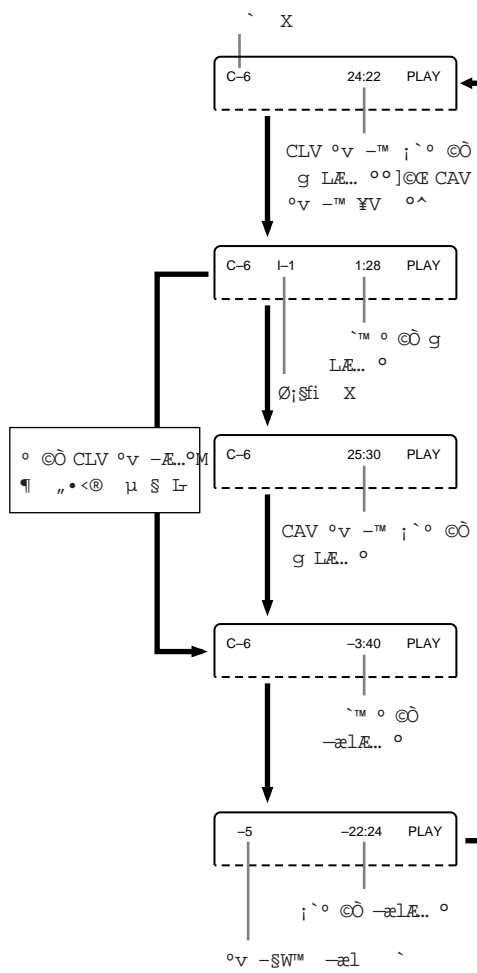
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LD	LD (Laser Disc) 또는 CD (Compact Disc)를 재생할 때 사용됩니다.
OPEN	LD 재생을 시작합니다.
CLOSE	LD 재생을 중지합니다.
PLAY	LD 재생을 시작합니다.
STOP	LD 재생을 중지합니다.
PAUSE	LD 재생을 일시 중지합니다.
SEARCH	LD 재생을 검색합니다.

본 설명서에는 본 제품의 사용 방법과 주의 사항에 대한 정보가 포함되어 있습니다. 본 설명서를 잘 읽고 이해하여 올바르게 사용하십시오.	본 설명서에는 본 제품의 사용 방법과 주의 사항에 대한 정보가 포함되어 있습니다. 본 설명서를 잘 읽고 이해하여 올바르게 사용하십시오.
LD SIDE A	LD (Laser Disc) A를 재생합니다.
LD SIDE B	LD (Laser Disc) B를 재생합니다.
CD	CD (Compact Disc)를 재생합니다.
VIDEO CD	VIDEO CD를 재생합니다.
1/L	1/L (Laser Disc)를 재생합니다.
2/R	2/R (Laser Disc)를 재생합니다.
DIGITAL	DIGITAL (디지털) 재생을 선택합니다.
ANALOG	ANALOG (아날로그) 재생을 선택합니다.

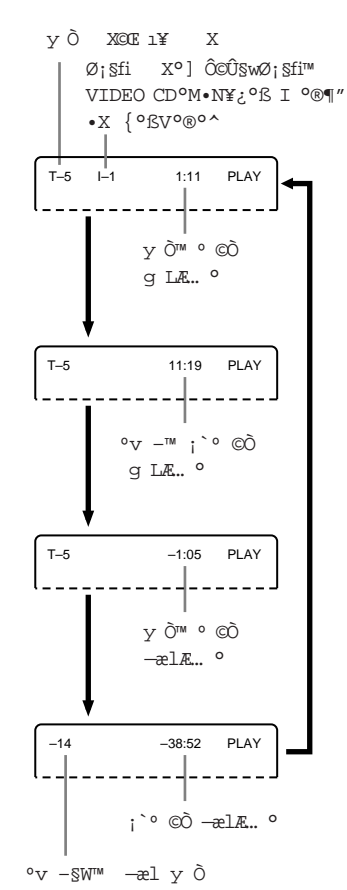


"d">°v -™ ° @Ø g LÆ.. °@E -æLÆ.. °  
 ±z•i•H¶b qu-ø 1\$W"d">° @Ø g LÆ.. °@E -æLÆ.. °  
 •"^^^;f DISPLAY ;%°MµM'·^^AV TIME ;%-  
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±a TOC™ LD

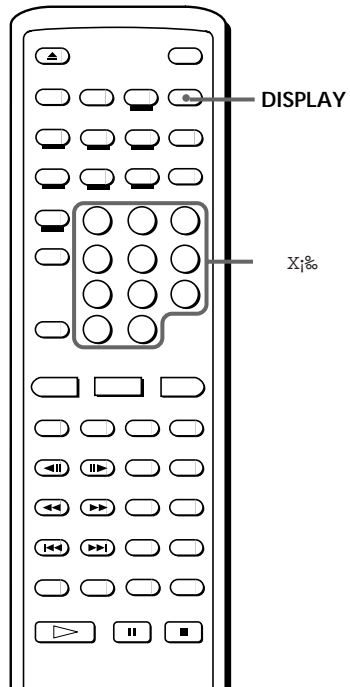


CD/VIDEO CD

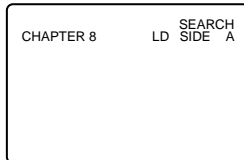


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¶b° @Ø™ ¶V °] @ØCAV °v  
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- °E PBC ° @Ø 2.0™@ VIDEO  
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YMS&ZSEW™ `°, y 0  
 ^^¿f Xiß°EßJ `°, y 0™ X -



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 ¶A°EßJ ` X -

n°EßJj@0 10™ XÆ..  
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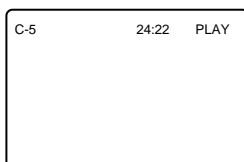
n..	^^¿f
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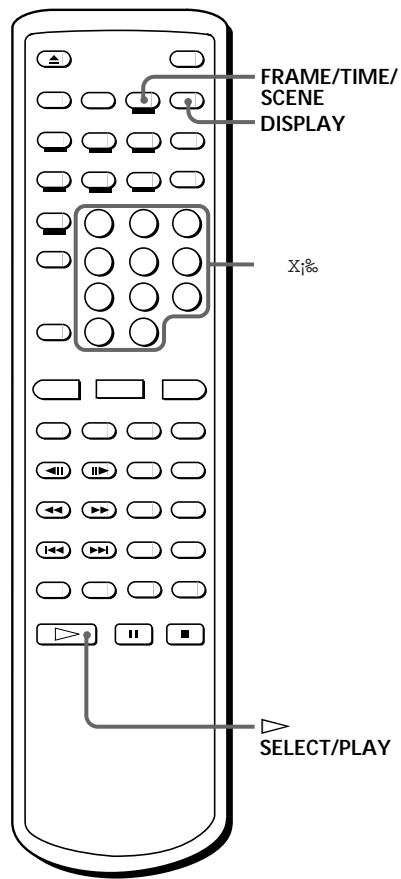
- µ  
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 ^^¿fDISPLAY i%° °•<•X `°, y 0™ X-  
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°vµ 1¥ §¿B§@æ¶C¿RSÓ æ @æ Ý" °B¥V°@Ø CAV°]°- «° @Ø°^  
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 ¶b2.0™@VIDEO CD°]±aPBC•\Ø±^§W°M¶ °B 1¥ X°@°-•< µe™  
 "Y@« °¶I§@æ¶¿¿RSÓ æ °Mæ±zØ± q L',@w 1¥ X§æ@VIDEOCD §W n  
 Q [""™ 1¥-o »æA•@ØPBC ° @Ø§§°]°v -æ~§W™PBC ON/OFF i%´,  
 •<Øµo´GÆ..°^¶bPBC ° @Ø§§•i•H´^ DISPLAY i%´d"° 1¥ X°] -æ\  
 f17 °B"d"°v -° @Ø g LÆ.. °CE -æ1Æ.. °°@°^

ØÈ§J¥V °N° @Ø g LÆ.. °CE 1¥ X

**1** ¶b°v -° @Ø§§´^¿f FRAME/TIME/SCENE i%-

¶b° @Ø	„•<¶f
CAVLD Æ..	FRAME 00000
CLVLD Æ..	TIME 0:00:00
2.0™@VIDEO CD °]±aPBC•\Ø±^Æ..	SCENE 00000

FRAME 00000	LD SIDE A	TIME 0:00:00	LD SIDE A	SCENE 00000	VIDEO CD
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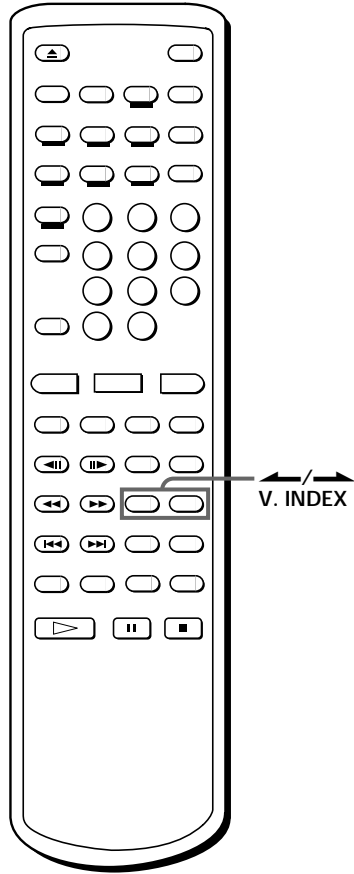
**2** °¿ @Ú n§æ™ ¥V°NÆ.. °CE 1¥ ØÈ§J¶h¶I° -X  
 n¶bCAVLD §W§æ¥V 12340Æ..°M´^¿f ① i%°N② i%°N③ i%°N  
 ④ i%§@ ⑤ i%-  
 n¶bCLVLD §W§æ12 §¿5´´I´.™ ¶I mÆ..°M´^¿f ① i%°N② i%°N  
 ③ i%§@ ④ i%-  
 n¶bVIDEO CD §W§æ 1¥ 123°M´^¿f ① i%°N② i%§@ ③ i%-  
 Y±zØÈØ~ X°M´h´^¿fFRAME/TIME/SCENE i% M f X´°M  
 ¶AØÈ§J•Ø T™ X-

**3** ´^¿f ▷ SELECT/PLAY i%-  
 ° @Ø±q±zØÈ§J',@w™ ¥V°NÆ.. °CE 1¥ }@l i¶È

n"d"°¥V @æ.. °æ..  
 ´^¿f DISPLAY i%-  
 {¶b° @Ø™ ¥V °NÆ.. °CE 1¥ X | „•<•X@#  
 n@´Æ´¥V°,Æ.. °™ ¥M§æÆ..  
 ¶b´^¿f ▷ SELECT/PLAY i%§B´e´^¿f CLEAR i%-







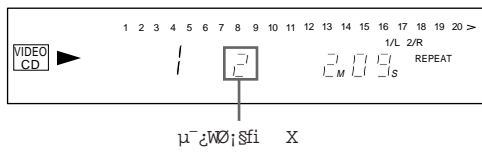
1. Press the **V. INDEX** button.  
 2. Press the **STOP** button.  
 3. Press the **REPEAT** button.  
 4. Press the **V. INDEX** button.  
 5. Press the **STOP** button.  
 6. Press the **REPEAT** button.  
 7. Press the **V. INDEX** button.

1. Press the **V. INDEX** button.

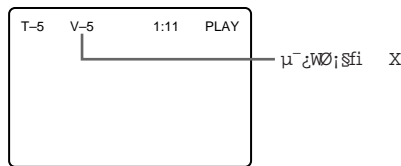
2. Press the **STOP** button.

- 3. Press the **REPEAT** button.
- 4. Press the **V. INDEX** button.
- 5. Press the **STOP** button.
- 6. Press the **REPEAT** button.
- 7. Press the **V. INDEX** button.

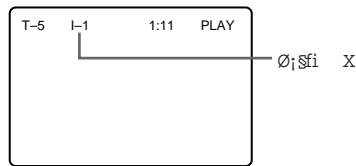
8. Press the **V. INDEX** button.



9. Press the **STOP** button.



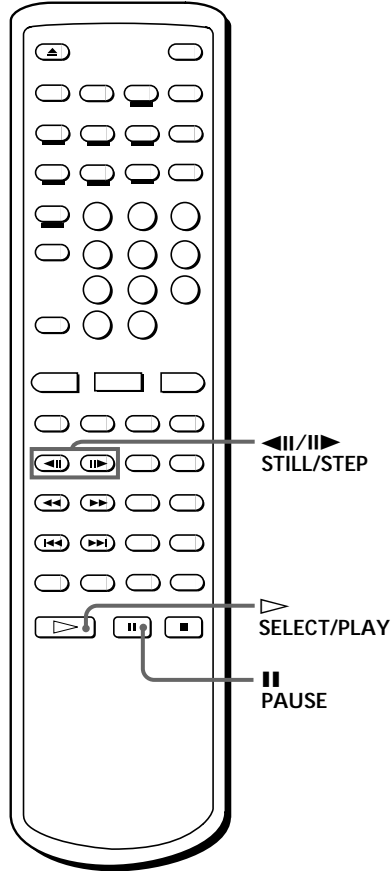
10. Press the **STOP** button.



11. Press the **STOP** button.

12. Press the **REPEAT** button.

[ ] > v V C 0 " M B @



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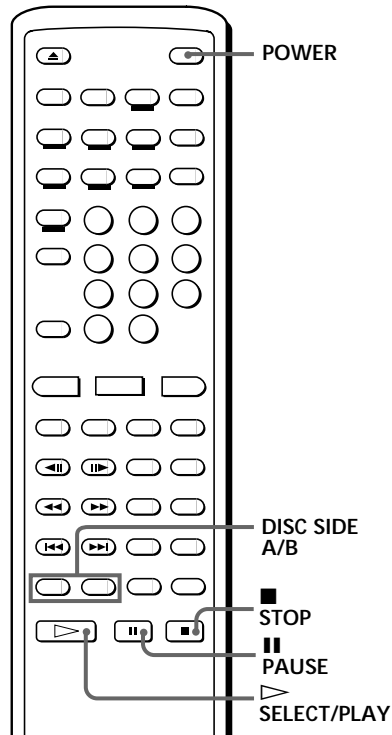
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**1** ¶ b C A V L D ° C 0 S S ' ^ z f < || / || > S T I L L /  
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 j n u A E - • C ° M a C w ¶ i E

**2** S a E \_ ^ z f < || / || > j % 0 a B @ v V ¶ V ' e C C ¶ V  
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n ' i Y \_ Y q ° C 0 S E ¶ ° A E . .  
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^ İY\_ LD/VIDEO CD ° @  
 ° ]¶\_ İY\_ \Ø†^



- C^ ±S° @.M.°æ~ É Öæ¶İ Ä´.¶@¶ ± §Ü¶ ¶İ m-
- ¶bSUC±°pSUCM° @ @ ±S¶İ m Öæ- | Q M É°G
- ^ ^Éf OPEN/CLOSE DISC SIDE A/B ;%@E ¶¶¶¶ PREV/NEXT° ]ACS/AMS°^;%.  
 - i¶É¶  
 - i¶É¶V° ,.°¶M¶  
 - @fSUV -æ~ q u.  
 Yæ~S Sw¶ §@¶LD °v -•B¶b°v -¶ L.¶  
 } L¶{SS´^Éf OPEN/CLOSE ;% ^ ¶¶ L°M  
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- Y¶b ¶M¶CVV° ,.°¶M¶SS ±S° @°M " ±S¶İ mSÉ |±@İ Öæ- -
- Y¶b q -\_ }Æ... ^ ^Éf > SELECT/PLAY ;%M°v -æ~ |¶q ±µ q q - Y¶Æ.æ~S Ä ¶ °v -°M´h° @±qS¶¶ ±S°S B }@1 i¶É
- @@ VIDEO CD °M§f PBC ON/OFF ]@w ¶p¶Ü°M.°æ~S° | Öæ-@° @ ±S¶İ m -
- Y s±µ¶ ¶J °]°v -æ~¶Y-¶¶ •dOK §É ¶°°M¶¶ İY\_ \Ø†SY Q@´Æ-; ^µ¶b±N°v -æ~° ¶ÉSJSÉ¶-¶¶ "LINEIN SÉ¶°Æ...SÉ | @´Æ-¶¶ İY\_ \Ø†°M¶ Y s±µSW ¶J °M¶ •\Ø†SY Q@´Æ-

¶ \Ø† ¶¶ §uS@Ü´D•d@\ OK §É¶SUTM LD@E VIDEO CD ° @°S¶ °].° s±µ ¶J °¶S@. ´^Éf ■ STOP ;%@E POWER ;% ±S° @ LD @E VIDEOCD °M°v -æ~ Öæ-¶İ ±S¶¶İ m°M@æ±zØ†±q "¶İ m }@Lf~fÜ [">-

**1** ^ ^Éf ■ STOP ;%@E POWER ;%°^ •H ± S° LD @E VIDEO CD °v -S¶° @°- ´h°v -æ~° AUTO RESUME ´ , <ø0 µo´G°M¶¶ < ±S°S BSw Q O¶İSF-°]¶Æ.. Y´^ ^Éf POWER ;%M´ , • <ø0±Nµu° µo´G°M @SWS S °M q •Á QS ;^-°^

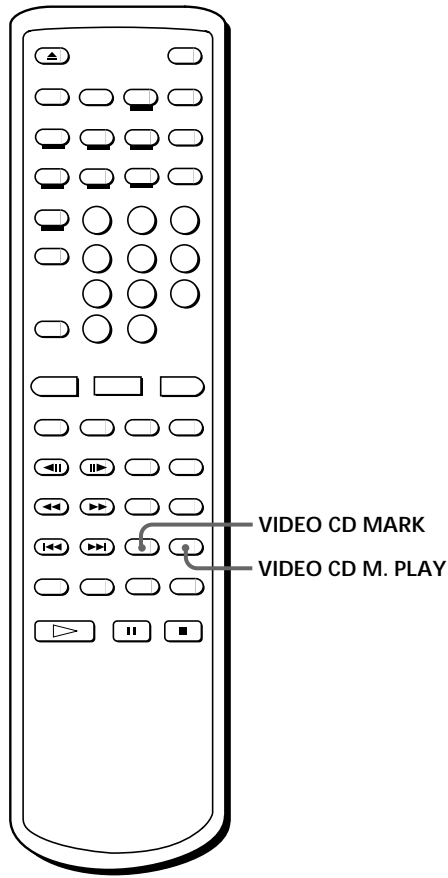
**2** ^ ^Éf ▷ SELECT/PLAY ;%- °v -æ~±N¶M¶ ÉS~ ±S°¶ ¶¶SÉ°MµM´ . ±q@ Ä }@1° @°-

Y n¶b }@1° @°H´e•O°v -æ~° ±SU@´  
 Y¶Æ..°v -æ~ q ±µ qµ°M -´ ^ ^Éf ¶¶ PAUSE ;%¶"§f n´ ^ ^Éf > SELECT/PLAY ;%-  
 Y¶Æ..°v -æ~ q Q ^°M.´ ^ ^Éf POWER ;%@E > SELECT/PLAY ;%±µ q°v -æ~ q °µM´ .S~´ ^ ^Éf ¶¶ PAUSE ;%-

n±q°v -¶ }ÉY° @° \_Æ..  
 @æ•@ LDÆ..°M Y n±qA ±¶ -I }@1@°v°M´ ^ ^Éf DISC SIDE A ;%-  
 Y n±qB ±¶ -I }@1@°v°M´ ^ ^Éf DISC SIDE B ;%-  
 @æ•@ VIDEO CDÆ..°M Y n±q°v -¶ -I }@1@°v°M´ ^ DISC SIDE A ;%-  
 ±S°S B°M Öæ-@ | QÆ f-

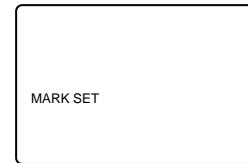
±q@ n¶İ m'İŸ\_VIDEO  
CD ° @°]Æ- ±\Ø†^

¶ \Ø†æA•@ŸVIDEOCD±z•i•H¶b°v -šW•@°ŸÆ- ±°@°-•<•Ÿš@ Q n  
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'•šŸµM Oæ-µµ "¶İ m ±z•i•[šWš@ "Æ- ±@C¶ •[šW š™ Æ- ±Æ..°M°-™ Æ-  
±šY Q@ŸÆ-



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° @° n•[Æ- ±™ VIDEOCD°MµM'•¶b@° n¶İ  
m'^¿f°a±±æ šW™ VIDEO CD MARK ;š-



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^¿f VIDEO CD M. PLAY ;š-  
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@° -

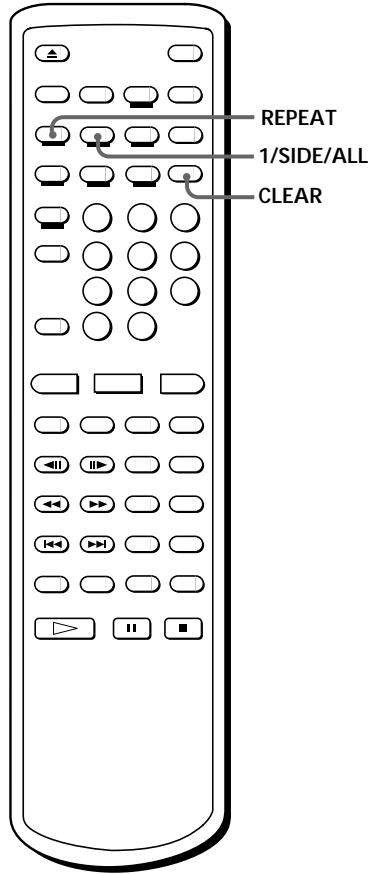


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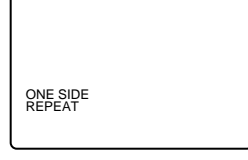
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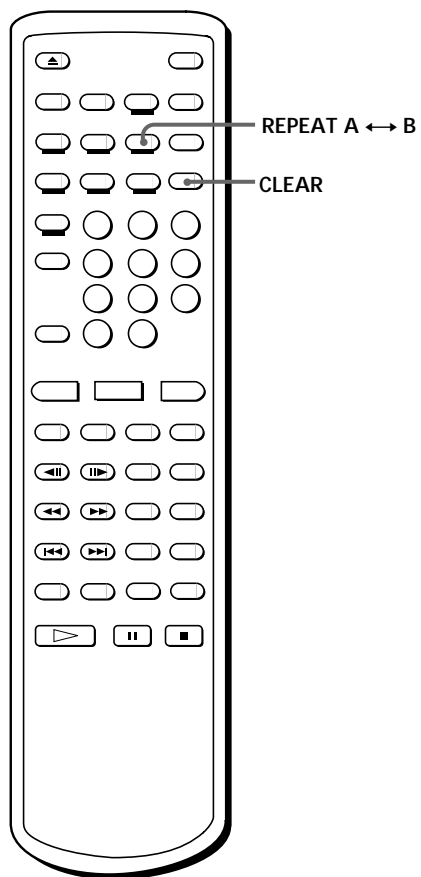
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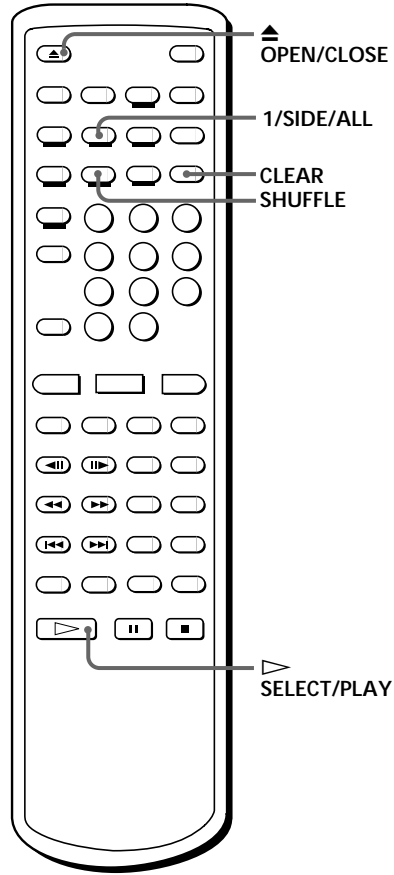
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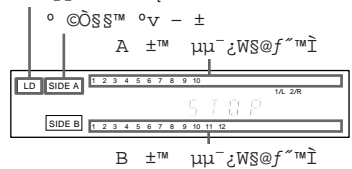
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**4** ^¿¿¿ > SELECT/PLAY ¶ S@-  
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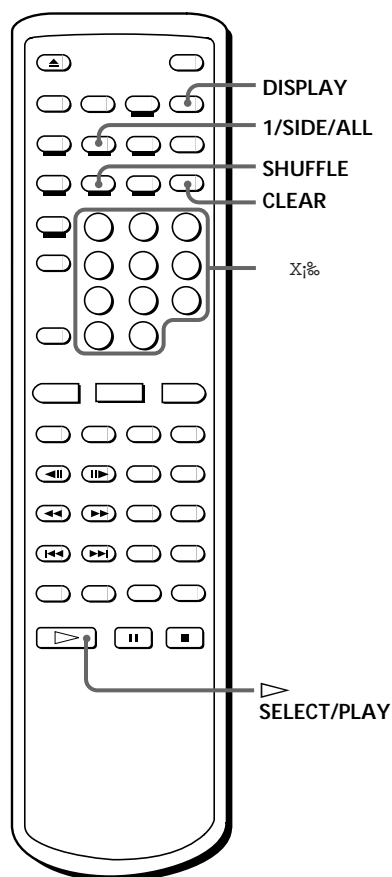
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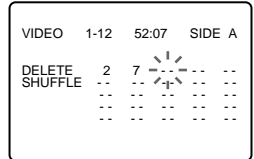
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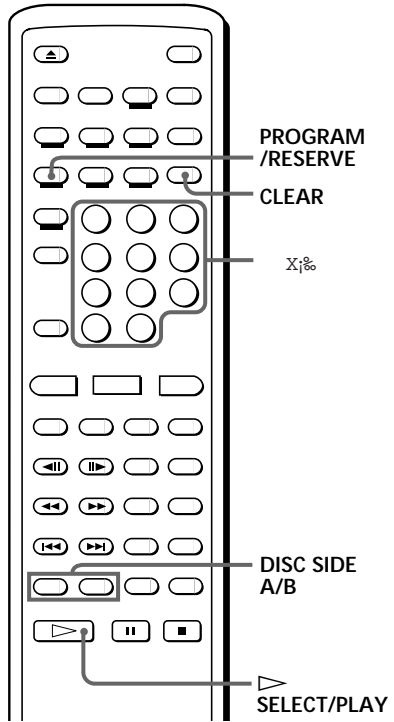


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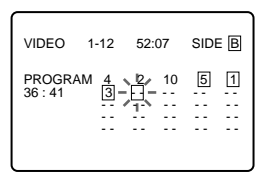
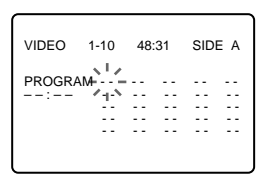


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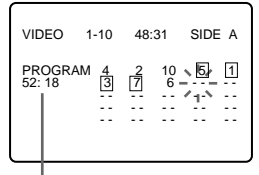
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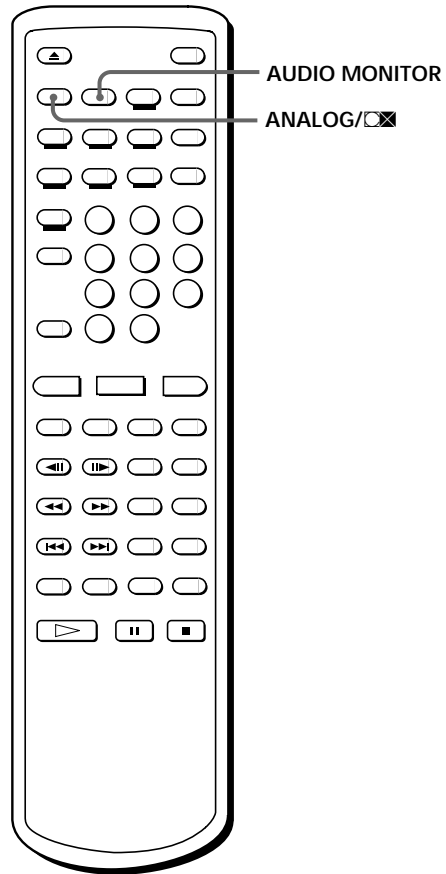


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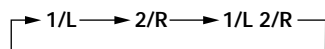


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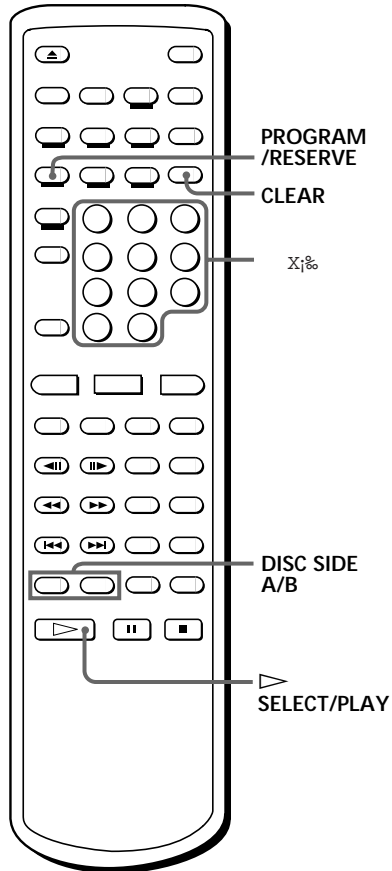
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Note

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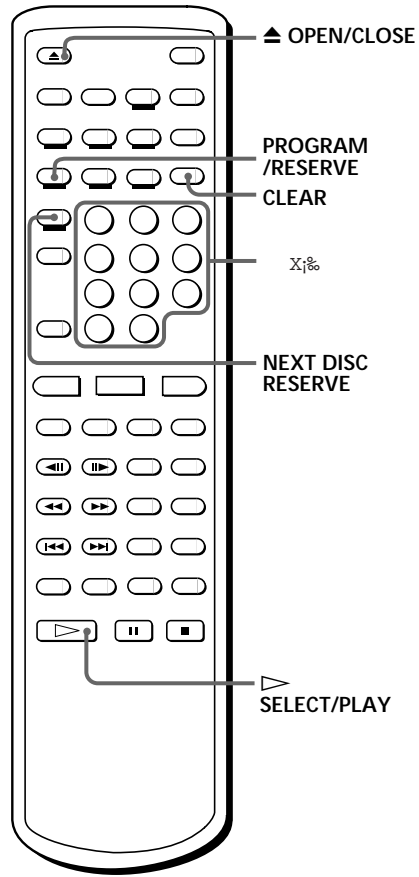
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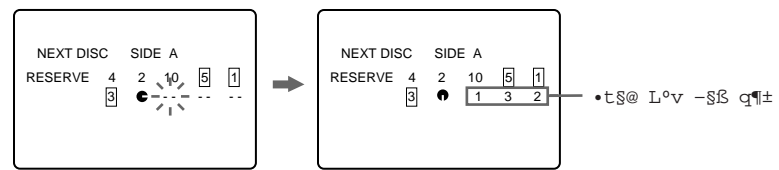


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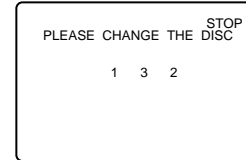
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2 '^¿f PROGRAM/RESERVE i§°]µM'•'^  
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3 '^¿f ▲ OPEN/CLOSE i§°•H•¶ }°v -¶'  
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4 '^¿f ▷ SELECT/PLAY i§°@§,¶' L±¿§J  
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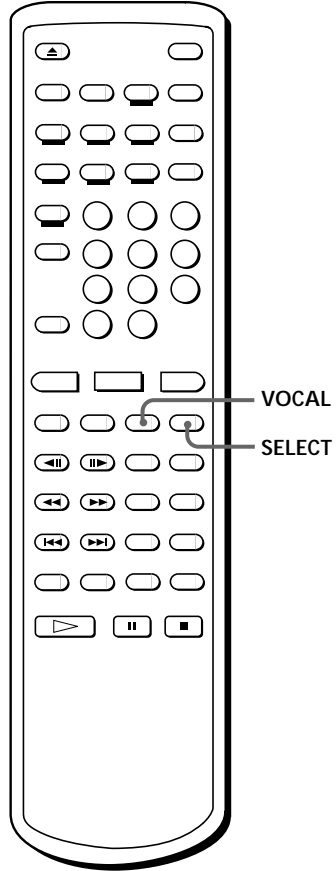
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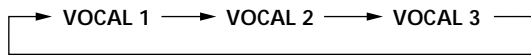
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- 2 Şæŷ\_¿¿f a±±æ ™SELECT ;%™ @İ •@İ q;n" ŞÓ-  
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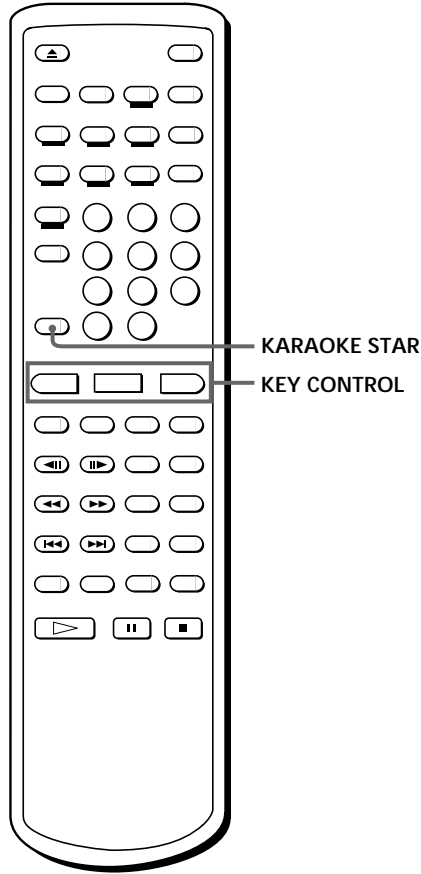
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- 2 Şæŷ\_¿¿f SELECT ;%•HøØæ< n@æ•@™ ;n µ  
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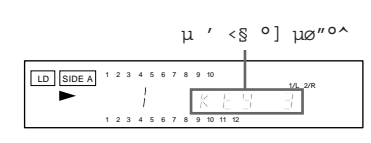
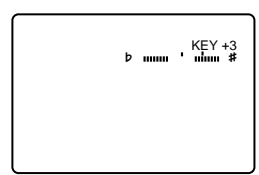
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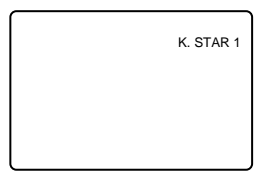


- ŋb•d@'OK ʒEŋ°ʒU°M Ī° @ōŋb qŋ±μ ʒŪŋq °» ±æ..°M μ ' | ŋq™ ŋ^ Ī μ ' - Yŋq °» ± •\∅† Q@'æ°M μ 'ŋb qŋ±μ ʒŪ æ..ʒE |ʒō <-ŋ'ŋb Īŋ±ʒæŷ\_ʒE ŋ°ʒU iŋĪ° @ōæ..°MʒY@æ@'æ°ʒF ŋq °» ±•\∅†°Mŋb qŋ±μ ʒŪæ.. μ 'ʒ] |™ ŋ^ Ī μ ' -
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- μ˘
- Ī±z@æ•E KARAOKE STAR æ..°MECHO LEVEL ±±@æ ; ]™ æA@y™ q•-ŋp "±±@æ ]™ MIN°M'h•d@'OK q°P •\∅†ʒf \_ʒ@•E-

@æ±z™ q;ŋʒŪ•[-ŷIŋh±m°]•d@' OK q°P•\∅†^  
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^^;f KARAOKE STAR ;%°M°v -æ~ʒW™KARAOKE STAR ;%μo'G°] ō  
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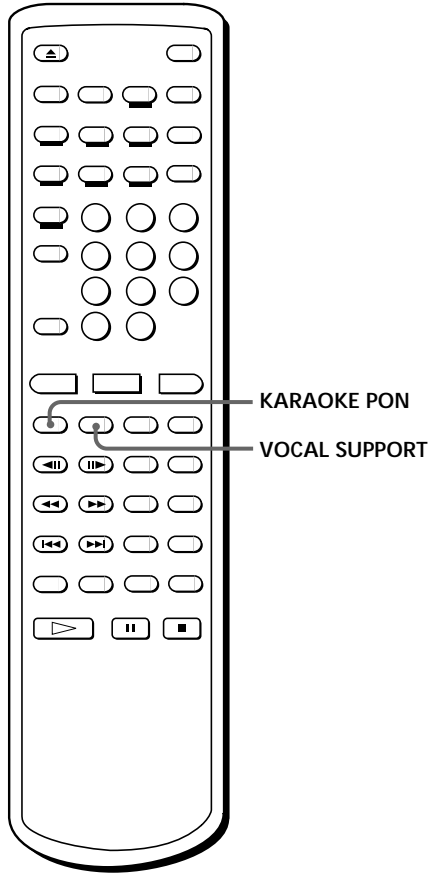


ŋp n°Wʒj μ Tæf™G q•°M -ŋA' ^KARAOKE STAR ;%°v -æ~ʒW™  
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n@'æ°•d@' OK q°P•\∅†  
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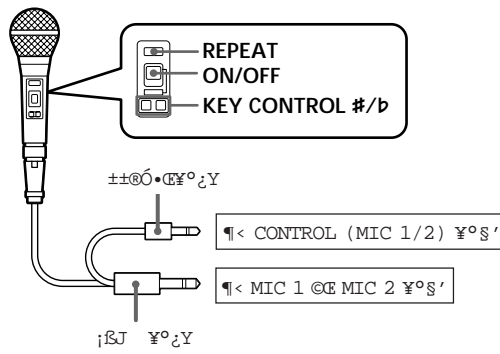
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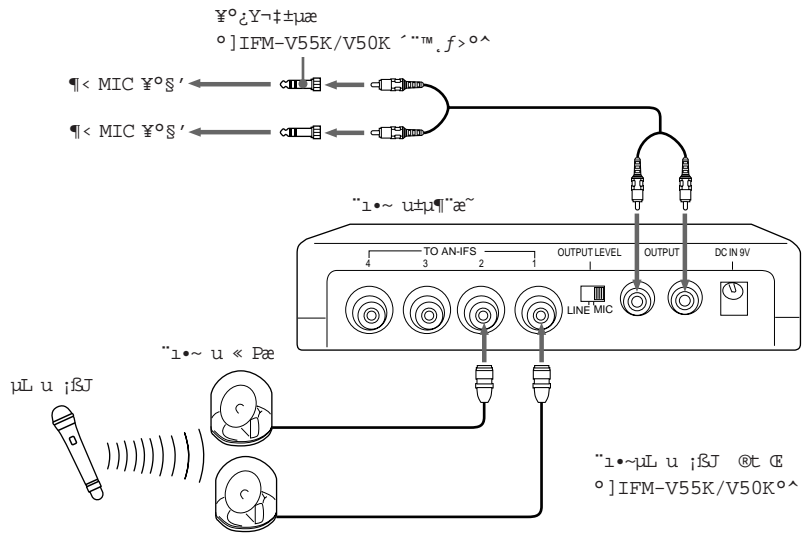
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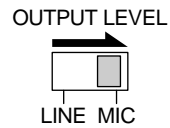
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IFM-V55K/V50K

1 ±N'1°~ u±µ¶"æ~ s±µ@İMIC 1/2 ¥°\$'-



2 ±N'1°~ u±µ¶"æ~™ OUTPUT LEVEL ØØæ<æ ]@ÛMIC-





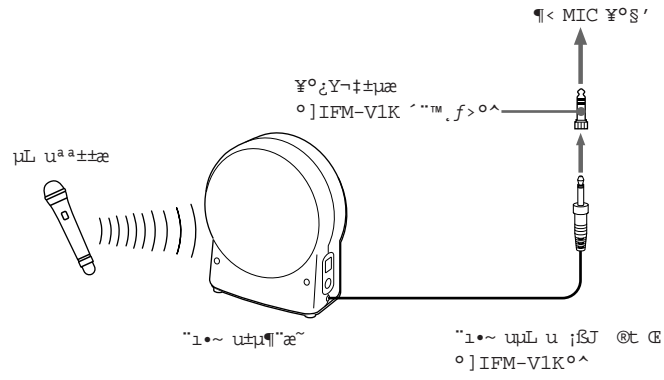
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Note

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IFM-V1K

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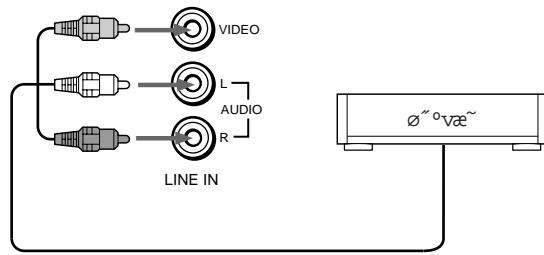


@œ•Eª ßU Æ m° @œ•d@'OK

±z§ j•i•Hß,ø°væ~µ•ª ßU Æ m s±µ@Ì°v -æ~§W™ LINE IN AUDIO/  
 VIDEO øÈ§J Ƴ°§' @'œ...@, •d@'OK- oÆ...¶P°À•i•H æfiß@°v -§@œÍ@œ•E q;n  
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- 1 ß,ø°væ~ s±µ@Ì°v • ±™O™ LINE IN AUDIO/VIDEO øÈ§J Ƴ°§'-
- 2 ^çf°v -æ~§W™ LINE IN j;±§-  
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Y°v -•ø¶b° @œ§§°M'^çf ■STOP j;±§ó° @œ -  
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 n¶^@œÍ°v -° @œ...°M'^çf ► SELECT/PLAY j;±§-



VMC-810 µ°µ~çW q l u°]°D™.f>°^

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 "G<sup>a</sup>Y<sup>±</sup> £

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KARAOKESTAR •\ø±\$f\$u\$@	<ul style="list-style-type: none"> <li>• ±NECHO LEVEL ]@ÙæA ì¶í m - YECHO LEVEL Q ]@ÙMIN°M KARAOKESTAR •\ø±`h\$F\$u\$@-</li> </ul>
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æ	<ul style="list-style-type: none"> <li>• ø T s±µ qµ-æ~-</li> <li>• ±µ q qµ-æ~ q @ ±N qµ-æ~\$W™ øÈ\$JøÙæ&lt;æ ]@w@Ù°fµ-¿W@ø</li> </ul>
æ È qæT	<ul style="list-style-type: none"> <li>• ø T s±µ qµ-æ~-</li> <li>• M°%°v -</li> </ul>
± ¥y°v -æ..¶ •i@fæ µ	<ul style="list-style-type: none"> <li>• ± ¥y°v -æ..j fK\$F\$F"Y Ÿµ{´ °M •i@fæ µ@M\$&gt;æÄ</li> </ul>
¿R\$Ó¥V•\ø±\$f\$u\$@	<ul style="list-style-type: none"> <li>• -@æ•E CAV LD @E VIDEO CD-</li> <li>• ¿R\$Ó¥V\$F\$u\$@@Ù CLV LD-</li> </ul>
jn µ	<ul style="list-style-type: none"> <li>• ø T s±µ qµ-æ~@E@ò\$jae -</li> <li>• 'sj qµ-æ~@E@ò\$jae \$W™ µ q</li> <li>• ±µ q@ò\$jae q @ ±NøÈ\$JøÙæ&lt;æ ]@w@Ù°fCD°@E°fAUX°@-</li> <li>• ^¿f ▷ SELECT/PLAY j%-°» ±™" ASU@S¶ jn µøÈ•X</li> </ul>
®•L	<ul style="list-style-type: none"> <li>• ±µ q°v -æ~ q -</li> <li>• f, a±±æ Ô¶V°v -æ~\$W™ a±±æ P¿ æ</li> <li>• æ } a±±æ \$@E% P¿ æ fB °M aÿ °M™´</li> <li>• ø T À\$J q¶¿ -</li> <li>• Y q¶¿æZ\$F°M -•E s q¶¿fÙ¥´@, ` q¶¿-</li> </ul>



මෙහි දී

VIDEO CD/CD/LD වෙතින් පිටවන  
 ආකාරයට පිටවන වස්තූන් සඳහා  
 ආවේණිකව EIA ඊ - «NTSC සම්මතයට, ඊට අමතරව  
 CCIR ඊ - «PAL සම්මතයට, ඊට අමතරව  
 «VIDEO CD වෙතින්  
 ඊට අමතරව f 44 ඊ ආකාරයට පිටවන

X මැදිම වස්තූන්  
 සඳහා 115 dB ඊ EIAJ ඊ  
 A ඊ ඊ  
 සඳහා 99 dB ඊ EIAJ ඊ  
 වස්තූන් වලට ඊ 0.001% ඊ  
 ඊ EIAJ ඊ

මැදිම වස්තූන්  
 සඳහා 425 ඊ ඊ LD ඊ  
 සඳහා 50 dB  
 \* EIAJ ඊ සඳහා ඊ සඳහා ඊ ඊ ඊ ඊ ඊ ඊ ඊ ඊ ඊ  
 ඊ

විද්‍යුත් සම්ප්‍රේෂණය

LINE OUT 1, 2  
 VIDEO වෙතින් මැදිම වස්තූන් වලට  
 වෙතින් වෙතින් වෙතින් වෙතින්  
 AUDIO වෙතින් මැදිම වස්තූන් වලට  
 • ඊ ඊ nL, R  
 • ඊ ඊ 200 mVrms  
 • ඊ 1 kHz ඊ 40% ඊ ඊ  
 • ඊ 200 mVrms  
 • ඊ 1 kHz ඊ 20 dB ඊ

S VIDEO OUT 1, 2  
 ඊ ඊ Vp-p ඊ 5 ඊ  
 ඊ ඊ ඊ ඊ  
 ඊ, ඊ ඊ 0.286 Vp-p ඊ 5 ඊ  
 ඊ ඊ

OPTICAL DIGITAL OUT  
 -18 dBm ඊ 660 nm

Dolby AC-3 RF OUT  
 මැදිම වස්තූන් වලට  
 වෙතින් වෙතින් ඊ 400 mVp-p  
 වෙතින් වෙතින් ඊ 75 ඊ

විද්‍යුත් වෙතින් X  
 12 mW ඊ 8 ඊ ඊ  
 LINE IN  
 VIDEO වෙතින් මැදිම වස්තූන් වලට  
 වෙතින් වෙතින් වෙතින් වෙතින්  
 AUDIO වෙතින් මැදිම වස්තූන් වලට  
 • ඊ ඊ nL, R  
 • ඊ ඊ 200 mVrms  
 • ඊ -20 dB ඊ  
 වෙතින් වෙතින් ඊ 47 k ඊ  
 MIC 1/2 වස්තූන්  
 ඊ ඊ  
 1 mV ඊ ඊ 1 k ඊ ඊ

විද්‍යුත් ඊ

ඊ  
 110-240 V AC, 50/60 Hz  
 ඊ ඊ ඊ  
 45 W  
 ඊ  
 5°C-35°C  
 ඊ  
 5%-90 %  
 ඊ  
 430-413.5 mm  
 ඊ  
 • ඊ A • X ඊ ඊ  
 ඊ  
 6.8 kg





විද්‍යුත් ඊ

ඊ RMT-M45A ඊ ඊ  
 R6 ඊ AA ඊ ඊ ඊ  
 ඊ, ඊ ඊ ඊ  
 ඊ මැදිම වස්තූන් වලට  
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MDP-V9Kø±° ©ð {¶b•´ ,™ •´´H °v -@-ÆaÆxÆT°÷§§•Æ°G pÆg°v -  
 ° LD°^§Æ S´´´°v µ -CD §Æ VIDEO CD°^§U™I¶C•X•aæ~•Æ™ •´ - ,  
 ´´\* -

•´ - Ÿ´	•´ -°-ax	•´ -´´¶°	§ÿso	° ©ð ±	° ©ðÆ.. °	
pÆg°v - •ÆÛ q°v µe §´°N q°@°N µ°+  §Æ•d° OK	 	LD (NTSC)	8 in. (20 cm)	Ê ±	CAV 14 §zf i CLV 20 §zf i	
		8-inch LD (NTSC)	8 in. (20 cm)	¬´ ±	CAV 28 §zf i CLV 40 §zf i	
		12-inch LD (NTSC)	12 in. (30 cm)	¬´ ±	CAV 1 §pÆ.. CLV 2 §pÆ..	
	S´´´°v µ - •ÆÛ µ°÷°N q °v°N µe§´°N•d ©`OK §Æ ´§´		Ê¶±CD	3 in. (8 cm)	Ê ±	20 §zf i°] »±a µ¿W´H °^
			CD	5 in. (12 cm)	Ê ±	74 §zf i°] »±a µ¿W´H °^
			VIDEO CD (NTSC §Æ PAL)	3 in. (8 cm)	Ê ±	20 §zf i
			5 in. (12 cm)	Ê ±	74 §zf i	

\* MDP-V9K §Æø±° ©ð§W™I°•••´ -•H•~™ •´ -

µ;¶¶h Û «øÈ°v -



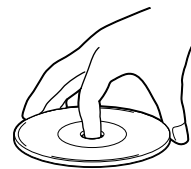
±a o@«°-ax™ °v -§§°"¿¿ Y ÒCM° X Y Ò§¿¬~°M¶¶"•B |¶]§ Æe§Æ¶P¶¶"  
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- a°v -æ~æA¶X™ VIDEO CD °- «
- a°v -æ~æA¿ VIDEO CD™ 1.0°N.1™©CM 2.0™©™ WÆÊ Y©e•Æ 2.0™© VIDEO CD°M £ µe§Æ;n µ™ •ø±`° ©ð•~°M;Ÿ•i©e•Æ° ©ð±±©ð°PBC°^
- \ø±§Æ °-A©´´ ¿R •\ø±° 2.0™© VIDEO CD WÆÊ™ s•[ °§¿°^

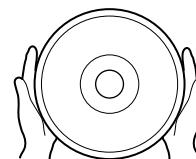
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 øÛæ<°"¿¿ µ¿WÆ..°M©e•Æ o Ÿ°v -°M°v -æ~ »øÈ•X•™ °; n D™ ´H °] Ê  
 ; n D°^°M¶¶"•k °; n DµL;n µøÈ•X¶¶]¶¶ °M±z§Æø±•Æ µ¿W ±±•\ø±§ÛŸ´°"¿¿ µ  
 ¿W™ •™ °©M•k °; n D-

• -™ 'Oæi

CD • -™ Æ™k  
-¶pÿ° æ@¨•<°Mß, ',"ô ICD°]•]“A  
VIDEOCD°^§§•°™ §p§'°M•H@Ê',@M@%•L§,'Æ  
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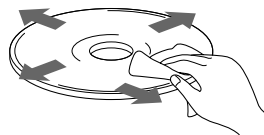
LD °v -™ Æ™k  
Æ LD °v -Æ..°M -'^ "ÿ° æ@¨•<°M•@@,§,Æ  
¶i°v - % t-



-™` Ntj@P•` u  
§f•i§,•` -µ•@b@, §•™ ±µ "Æg§§ B°M@Æ  
¶p xÆ fµ•°^ °™.°M§]§f•i§,•` -@b §•°  
§U™ @T@Æ Æ°M¶]“ @Æ§ '•i@† •' §...™

Ø l@Æ <§Æ•` -  
§f@†° @b Ø l@Æ <§Æ™ •` -°M§]§f•i° @  
•@ U@† ¶µ• ...™ •` -

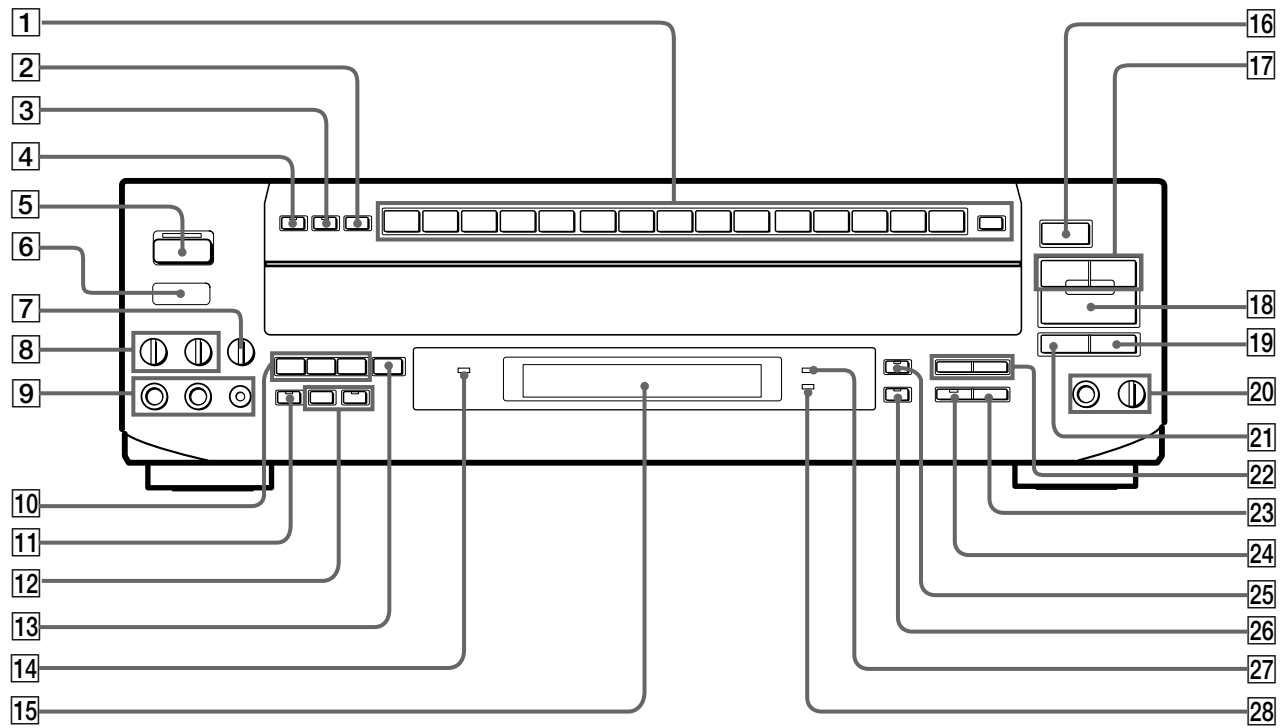
¶p¶i°'°°v -µ•™i ±™ M°%  
@æ•@§§'e°M -•H§@ Æ•"¿ø'•` -™™i ±¿ø  
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" @æ§°™g§W¶ °°M° @b ¶¶H'•°M•-°v -æ~  
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"§,'¶b•` -µ•™i ±@dsU',@æ§,'@°M@¶b•`  
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¶U °•Û§E±±RÓæ §@f”

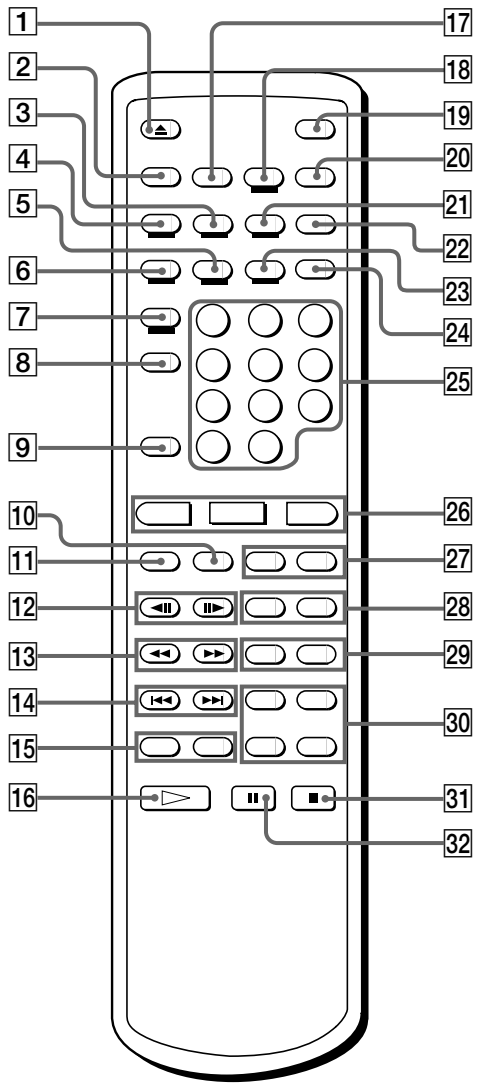
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|---|--|
| <p>1 X;§ (15) (18) (35)<br/>                 2 CLEAR°]Æ- £°^;§(19) (26) (28) (29) (34) (36)<br/>                 3 NEXT DISC RESERVE°]§U L°v - w©w°^;§§E´, •&lt;ø(34)<br/>                 4 RESERVE°] s§«°, w©w°^;§§E´, •&lt;ø(33) (35)<br/>                 5 POWER°] q °^ } ^§E´, •&lt;ø(10) (13)<br/>                 STANDBY°]´&gt;æ~°^G´i¶,<br/>                 ON°] }°^G z<br/>                 6 n±± Pz æ (42)<br/>                 7 ECHO LEVEL°]¶^;n q• °^±±ø±ø±ø(14)<br/>                 8 MIC LEVEL°] ;§J q• °f©M2±±ø±ø±ø (13) (14)<br/>                 9 MIC°] ;§J °1,2 §E CONTROL°]±±ø°f(MIC 1/2)<br/>                 ¥°§´(13)<br/>                 10 KEY CONTROL b DOWN/NATURAL/# UP°] µ´<br/>                 ±±ø±ø°, •a¶i µ°.§.¶°^´, •&lt;ø;§(37)<br/>                 11 AUTOEFFECT°]¶¶ æf™G µ°^;§§E´, •&lt;ø(38)<br/>                 12 VOCAL/SELECT°] q;nøøæ&lt;°^;§§E´, •&lt;ø(36)<br/>                 13 KARAOKE STAR´, •&lt;ø§E;§(37)<br/>                 14 VOCAL SUPPORT°]§U ¶°^´, •&lt;ø(39)<br/>                 15 „•&lt;´Ã(12)</p> | <p>16 ≡ OPEN/CLOSE°] }¶´ L°, ^¶´ L°^;§(10) (11) (13)<br/>                 17 SIDE A/B°]A/B ±°^;§(11) (29) (33)<br/>                 18 ▷ SELECT°]øøæ&lt;°, ° ©ð°^;§(10) (11)<br/>                 19 ■°] ±§ó°^;§ (11) (12)<br/>                 20 PHONES°]¶´æ~°^¥°§´§E±±ø±ø±ø(11)<br/>                 21 ¶¶°]» ±°^;§(11)<br/>                 22 ◀◀/▶▶PREV/NEXT(ACS/AMS)°e´. h°,´e i°]¶¶<br/>                 ` Pz °,¶¶ µ°÷ Pz °^°f;§(11) (15) (20)<br/>                 23 RETURN°]™ ¶´°^;§(15) (24)<br/>                 24 PBC ON/OFF°]° ©ð±±ø }°, ^°^;§§E´, •&lt;ø(15)<br/>                 (24)<br/>                 25 AUTOPAUSE°]¶¶ °» ±°^;§§E´, •&lt;ø(14)<br/>                 26 LINE IN°] u ùøø§J°^;§§E´, •&lt;ø(41)<br/>                 27 VIDEO CD PAL OUT°]CD °v -PAL´H øÈ•X°^´,<br/>                 •&lt;ø(11)<br/>                 28 AUTORESUME°]¶¶ ´i¥_°^´, •&lt;ø(23)</p> |
|---|--|

aa±±æ



- 1 ▲ OPEN/CLOSE ] }¶´ L° . ^¶´ L°^;%(10) (11) (13)
- 2 ANALOG ] °"¿¿°^° [X] ;%(32)
- 3 1/SIDE/ALL ] Ê§@° . Ê ±° . . °°^ (25) (27) (28)
- 4 REPEAT ] §æ±\_°^;%(25)
- 5 SHUFFLE ] •Ûøø°^;%(27) (28)
- 6 PROGRAM/RESERVE ] s§«° . w@w°^;%(29)(33)(34)
- 7 NEXT DISC RESERVE ] §U L □ - w@w°^;%(34)
- 8 AUTO PAUSE ] ¶¶ °» ±°^;%(14)
- 9 KARAOKE STAR ] •d@'OK q"°P°^;%(37)
- 10 VOCAL SUPPORT ] §U □°^;%(39)
- 11 KARAOKE PON ] İ □;n q '±±°^;%(39)
- 12 ◀||/||▶ STILL/STEP ] ¿R§Ó° . v±V°^;%(11) (22)
- 13 ◀◀/▶▶ SCAN ] ± ±Y°^;%(11) (20)
- 14 ◀◀/▶▶ PREV/NEXT (ACS/AMS) °e´ . h° . ´e i°] ¶¶  
` P¿ ° . ¶¶ µ°± P¿ °°°f;%(11) (15) (20)
- 15 DISC SIDE A/B ] - A/B°^;%(11) (29) (33)
- 16 ▷ SELECT/PLAY ] øøæ<° . ° @ø°^;%(10) (11)
- 17 AUDIO MONITOR ] µ¿W ±±°^;%(32)
- 18 FRAME/TIME/SCENE ] ±V° . Æ... °° . 1± °^ (18)
- 19 POWER ] q °^ } ^ (10) (13)
- 20 DISPLAY ] „ <°^;%(16) (17) (28)
- 21 REPEAT A↔B ] A↔B §æ±\_°^;%(26)
- 22 AV TIME ] µµ¿WÆ... °°^;%(17)
- 23 AUTO PGM ] ¶¶ s§«°^;%(30)
- 24 CLEAR ] Æ´ £°^;%(19) (26) (28) (29) (34) (36)
- 25 X;%(15)(18)(35)
- 26 KEY CONTROL ] µ ´±±øø°^;%(37)  
b DOWN ] °^;%(37)  
h NATURAL ] • a¶İ µ°^;%(37)  
# UP ] §...°^;%(37)
- 27 VOCAL/SELECT ] q;nøøæ<°^;%(36)
- 28 EFFECT MODE/EXECUTE ] Æf™G µ§È¶°° . ° •X°^;%(38)
- 29 ◀/▶ V. INDEX ] µ¿Wø;§fi°^;%(21)
- 30 VIDEO CD ] CD °v -°^;%(15) (24)  
MARK ] Æ- ±°^;%(24)  
M.PLAY ] Æ- ±° @ø°^;%(24)  
s RETURN ] ¶¶ °^;%(24)  
PBC ] ° @ø±±øø°^;%(24)
- 31 ■ STOP ] ±§Ó°^;%(11) (12)
- 32 ■ PAUSE ] °» ±°^;%(11)

◻ •´¿¿±±æ¿ ¿¶¶, °- O™ ;%±" ™ •\ø±•i•H•´¿¿¿¿¿¿®´Æ

N<sup>a</sup>y

VIDEO CD  
 VIDEO CD™ ta me'H™ S™  
 '™°v -°MS st•-•@™... q•E™ ° XzfiY  
 fsi N°- «— MPEG1 BCF°zfiY120 ø  
 ™ œ Í T-¶¶°MS@ LVIDEO CD  
 Ø±zX¶s 74 S:fi™™™ µe-VIDEO CD  
 S iY•]stzfiYSF™™ µin Í T W•XSH  
 ™ •f± d Ú™ in µ QzfiY¶¶"SH •±o  
 @I™ in µ'hst QzfiYVIDEO CD Ø±  
 'O¶ ¥ qCD □ -6 øss µin Í T-  
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 2.0™°G°W•[SF•PBC•\Ø± i¶EØæ<  
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 •d@`OK q`P•\Ø±  
 •a•\Ø± q Lµ ±z™ qin K•[S@ "  
 BCzW;in•H°W±j±z™ qin™ `~

Ø; sfi

A

A↔B SœY\_ 26  
 ACS/AMS 20  
 ATT } ^ 14

B

sf«° @Ø 29  
 ° @Ø 10  
 øØæ< 15  
 ´IY\_ 23  
 •ÜØØ 27  
 vYV 28

C

CAV - 11, 19, 22  
 CD - 18, 36, 44  
 CLV - 11, 19

D, E

•¥ }°v -¶´ L 10  
 Ê ±SœY\_ 25  
 ÊS@SœY\_ 25  
 qµ~Ø¶°Øæ<æ 7  
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 ±µ q°•S i~\_ 10

F

SœY\_ ° @Ø 25  
 LD™ S@ ± 25  
 ØS@w °S: 26  
 {¶b° @Ø™ `°, y Ø 25  
 æ„ L°v - 25  
 ™•f>´~°MzHæ~@-z 5

G, H, I

qinØæ< 36  
 • -  
 S: . 44  
 • @ 45  
 • - ´™ 44  
 y ØYMS% 18  
 °G°Y± £ 42

J

zRSÓV 22

K

•d@`OK°M° @Ø 13  
 BØ <¶Ø´µ µ´ 37  
 ´ Í qinBÚ±z q □ 39  
 @æ•Eª BÚ Å m 41  
 @æ•E•d@`OK•E jBj 40  
 ¶¶ • Í qin 36  
 øØæ<SUS@S% q¶± 32  
 •E`D•d@`OK°v - 39  
 ¶¶ °» ± 14  
 •d@`OK q`P 37

L

s±µ  
 ¶¶`æ~ 11  
 qµ~æ~@Ø°°væ~ 6  
 @ØSjæ 8  
 ´i•~µL u jBj 40  
 ø°°væ~¶¶<LINEIN¥°S´ 41  
 jBj 13  
 æA•E@ÚB´SØzÜ~ jn@t E™ B zæ @E  
 @ØSjæ 9

M, N, O

MULTI AUDIO - 36, 39, 44

P, Q, R

PAL VIDEO CD 11  
 PBC°]° @Ø±±@ó°^ 10, 15  
 PREV/NEXT 15, 20

S

in µ  
 ±aCX¥Óæ @t E™ 32  
 °°z: 32  
 SAP -™ 32  
 •çØu 14  
 ° X 32  
 E- ± 24

T, U

i VYMS% 20  
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 ¶¶Ø´µ µ´ 37  
 ¶¶^jn 14  
 jBj µ q 14  
 æ  
 B>EÄ 14

V, W

VIDEO CD - 10, 15, 44

X

u ÜØBj 41  
 "•<  
 ´e ±™O 12  
 E... ° 17  
 qµ~ø 1SW 16  
 SÚ L°v - w@w 34  
 E-¶¶±•ÜØØ 28  
 YMS%  
 B± ±± ¥y 20  
 S L `°, y Ø 20  
 q L `°, y Ø X 18  
 q L¥V°, E... °°, 1¥ X19  
 q LØ; sfi X 21

Y

a a ±±æ 5, 42  
 ÅSj q¶z 5  
 µ´ ±±@Ø 37  
 Í qin q´ ±± 39  
 w@w 23

Z

`YMS% 18  
 ¥V°, E... °°, 1¥ ¥MS%19  
 ¶¶ sB« 30  
 ¶¶ °» ± 14  
 Å - 10  
 @B i° @Ø 22  
 BÚ □ 39