



3-800-709-31(1)

VIDEO CD/CD/LD Player

Operating Instructions _____ EN

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AVP-800

© 1995 by Sony Corporation

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 / Laser Disc 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

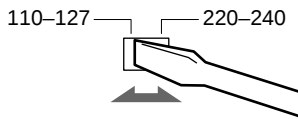
Before operating the player, make sure that the operating voltage of your unit is identical with that of your local power supply.

Models other than Hong Kong and China models

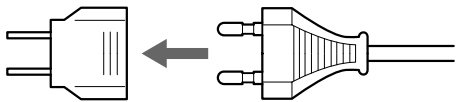
- Models other than the Hong Kong and China models have a voltage selector at the rear. If necessary, reset the voltage selector to the voltage corresponding to your local power supply. The voltage selector of this unit is set to 220–240 V AC originally.

For	Set to
110–127 volts AC	110–127 V
200–240 volts AC	220–240 V

To set the voltage selector, disconnect the AC power cord and set the selector to the appropriate position with a blade screwdriver.



- If the AC plug of your unit does not fit into the wall outlet, attach the supplied AC plug adaptor.

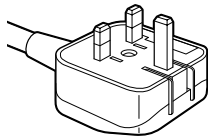


Models for Hong Kong and China

The models for Hong Kong and China do not have a voltage selector. Operate the unit between 220 and 240 V AC, 50 / 60 Hz.

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 BODYSONIC dealer.

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EN

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Welcome!

Thank you for purchasing the BODYSONIC Video CD / Laser Disc Player.

The AVP-800, an easy-to-operate laser disc player, allows you to:

- Play many types of optical discs, LDs, CDs, CD-Gs, 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
- Play PAL VIDEO CDs on both PAL and NTSC TVs
- Continue an LD from the exact point at which you stopped—Auto Resume
- Use enjoyable functions such as Program, Shuffle, or Repeat play
- Play karaoke (sing along with a disc)

Features include:

- 9 song reservation from two discs for non-stop karaoke entertainment—Reserve
- Digital key controller to adjust backup key to your voice
- Two microphone jacks for duets
- 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
- Playing karaoke with non-karaoke discs—Karaoke Pon
- Playing karaoke with video tapes—LINE IN input

Conforming to Ver. 2.0 of VIDEO CD standards

This player conforms to both 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

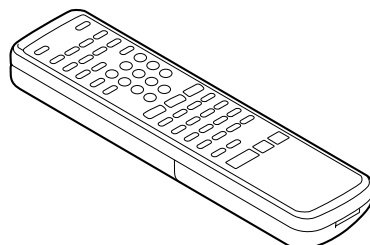
This player plays video discs recorded in the NTSC color system, and VIDEO CDs in both the NTSC and PAL color systems.

Step 1

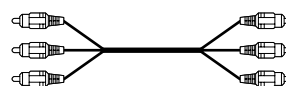
Unpacking

Check that you have the following items:

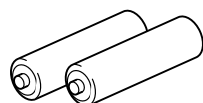
- Remote commander
WL-AVP800



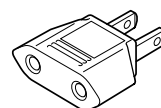
- Audio/Video cable



- Two R6 (size AA) batteries

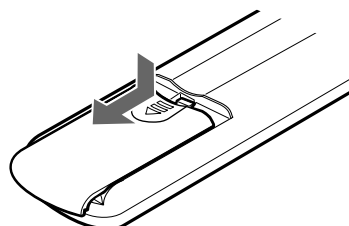


- AC plug adaptor (supplied with models other than Hong Kong and China models)

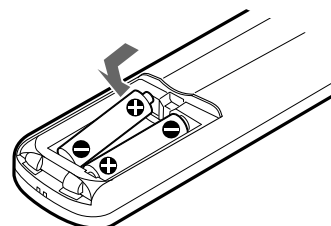


Step 2

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.

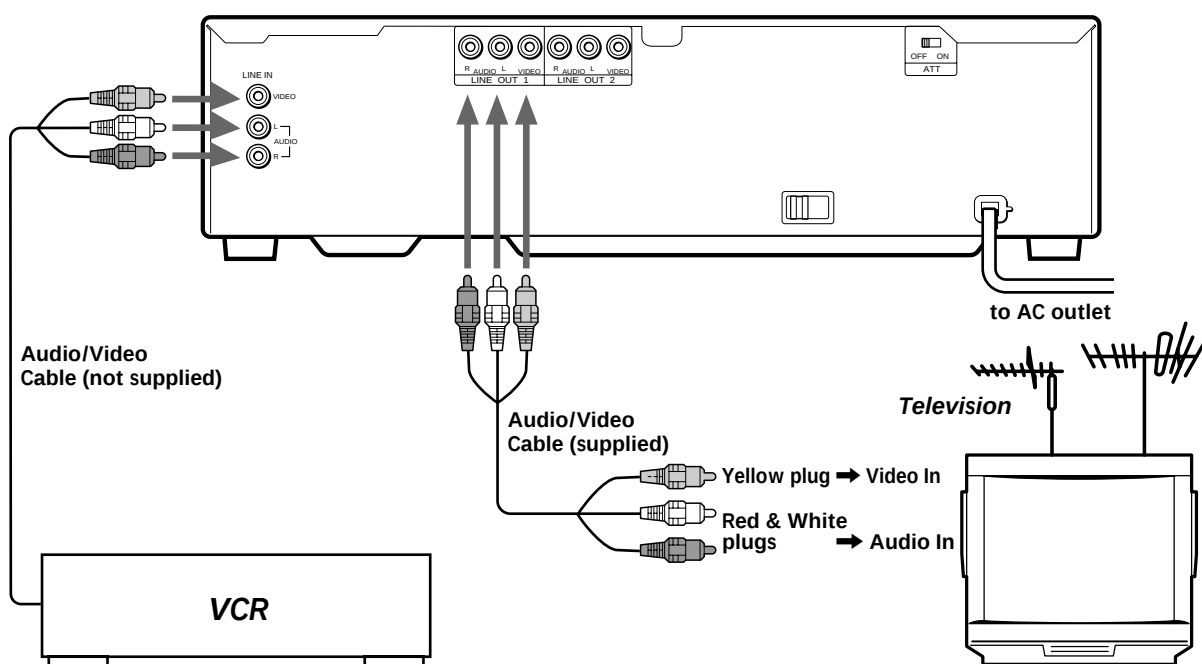
Notes

- With normal use, the batteries should last for approximately six months.
- Use two size R6 (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, CD-Gs, 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.

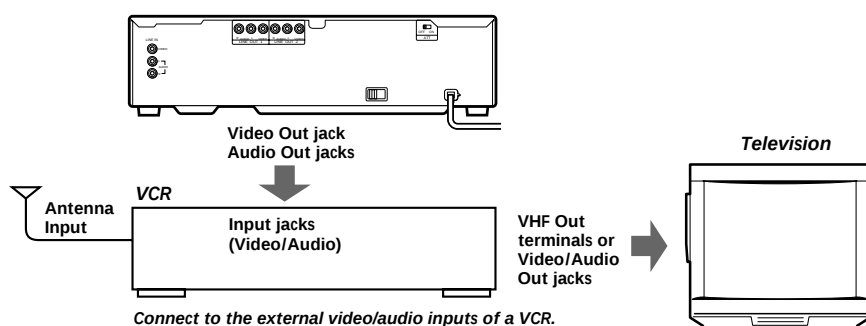


Television/VCR hook-up

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.

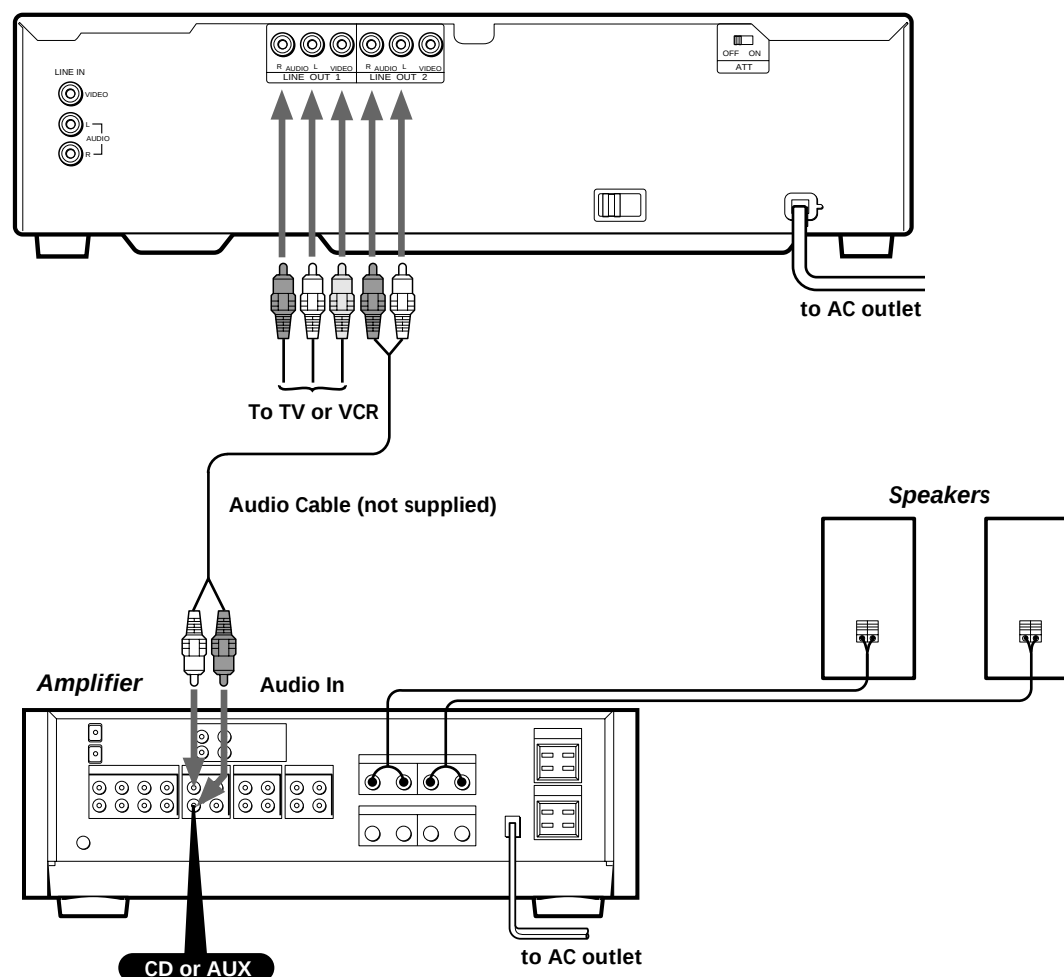


Notes

- 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 Connecting Cable (not supplied).

Audio equipment hook-up

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

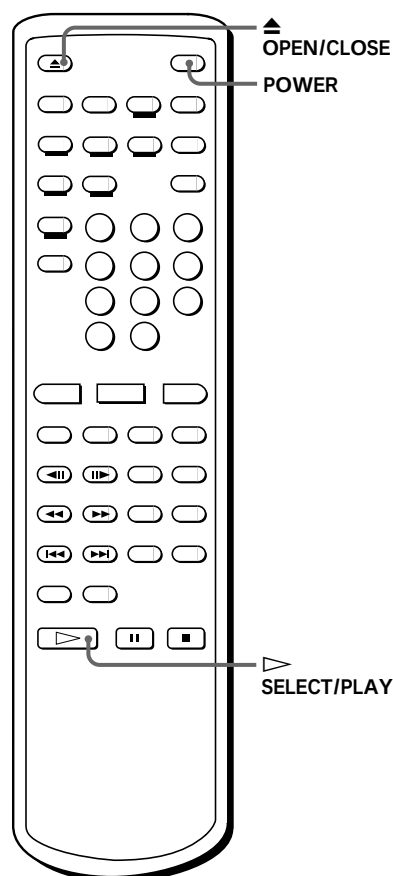


Notes

- 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.

Basic Operations

Playing a disc



Tip

- You can also turn on the player by pressing $\triangle$ 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, CD-G, or VIDEO CD as doing so may damage your disc or player.
- You see no image unless the VIDEO CD PAL OUT button indicator is lit when you play a PAL VIDEO CD.

This section shows you how to play an LD, CD, CD-G, 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

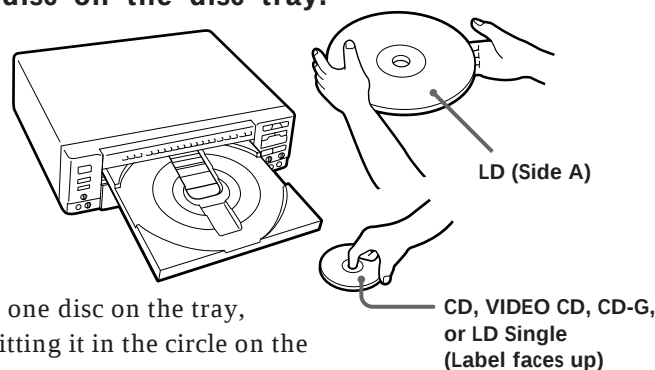
1 Press POWER to turn on the player.

You can also directly turn on the player by pressing $\triangleright$ SELECT / PLAY on the remote commander or player.

2 Press $\triangle$ 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 $\triangleright$ 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 $\triangleright$ 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 12 for details.

To view a PAL VIDEO CD

Press VIDEO CD PAL OUT on the player to turn on the VIDEO CD PAL OUT button indicator. If you use an NTSC TV, the image is a little enlarged vertically, and the top and bottom part of the image is cut. To see a normal image, use a PAL TV.

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 18).

Tips

- 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, CD, CD-G, or VIDEO CD, or when the player is stopped, the SIDE A button indicator on the player lights up. When playing side B of an LD, the SIDE B button indicator lights up.
- When playback of LD side B ends, the player stops.
- When playing a CD, CD-G, LD single, or VIDEO CD, the DISC SIDE B button does not function.

Tips

- 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, CD-Gs, or VIDEO CDs.
- When you play a VCR or a similar machine 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 33).

To	Press
Stop play	■ STOP
Pause play	 PAUSE
Resume play after pause	 PAUSE or ▷ SELECT / PLAY
Scan forward or backward	◀◀ / ▶▶ SCAN
Skip chapters or tracks	◀◀ / ▶▶ PREV / NEXT (ACS / AMS)
Play step by step	◀ / ▶ STILL / STEP (CAV LDs only)
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 12 for details).
Remove the disc	▲ OPEN / CLOSE

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 playback” on page 19).

To stop playing and remove the disc

Press **▲ OPEN / CLOSE**.

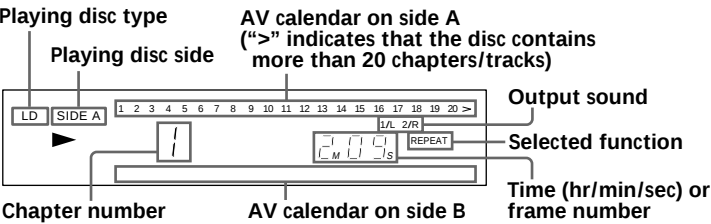
Remove the disc and press **▲ OPEN / CLOSE** again to close the empty tray.

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.

Reading the front panel display

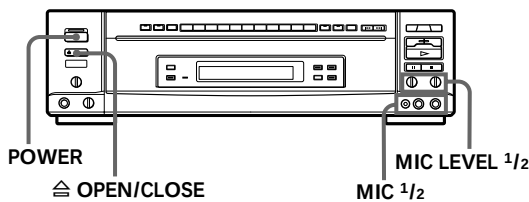
The illustration below is an example of what is displayed on the front panel of the player.



Viewing the on-screen display

Press DISPLAY twice. The on-screen display appears (see “Understanding on-screen indications” on page 13).

Playing Karaoke



Tips

- You can plug in two microphones.
- To control the player from the karaoke microphone, plug the control plug into the CONTROL jack (see “Using the optional karaoke microphone” on page 33).
- You can enjoy karaoke using auxiliary equipment such as a VCR (see “Playing karaoke using auxiliary equipment” on page 33).

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.

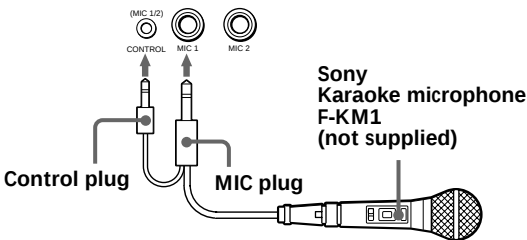
This section gives you short instructions for playing “karaoke” (singing along with a disc).

- 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 Sony 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:

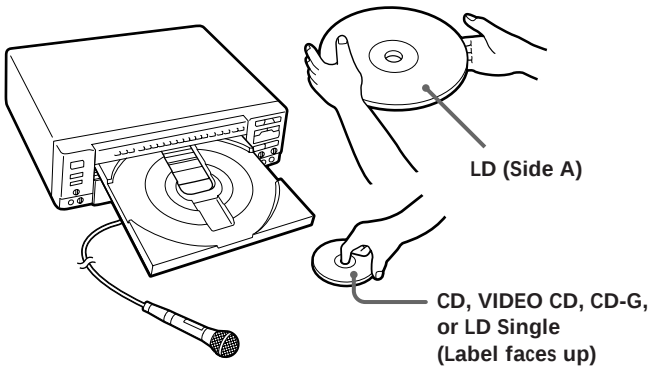
Set to “Video.”

Stereo system:

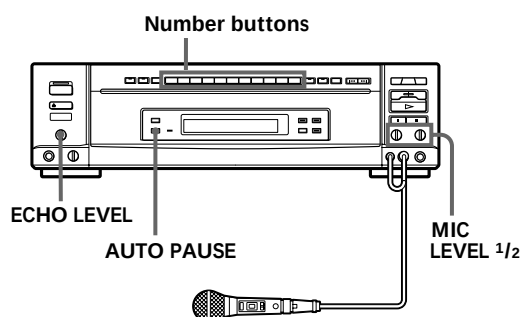
Turn on the amplifier or receiver and select CD or AUX for audio output.

- 5 Press 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.



Tips

- 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 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 12 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 27), 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 10, see page 15.

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

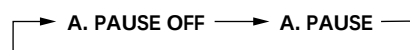
When you connect a microphone, the AVP-800 automatically switches to karaoke mode. In karaoke mode, the player pauses every time a song is played (Auto Pause).

To play songs on the disc continuously in karaoke mode

Press AUTO PAUSE.

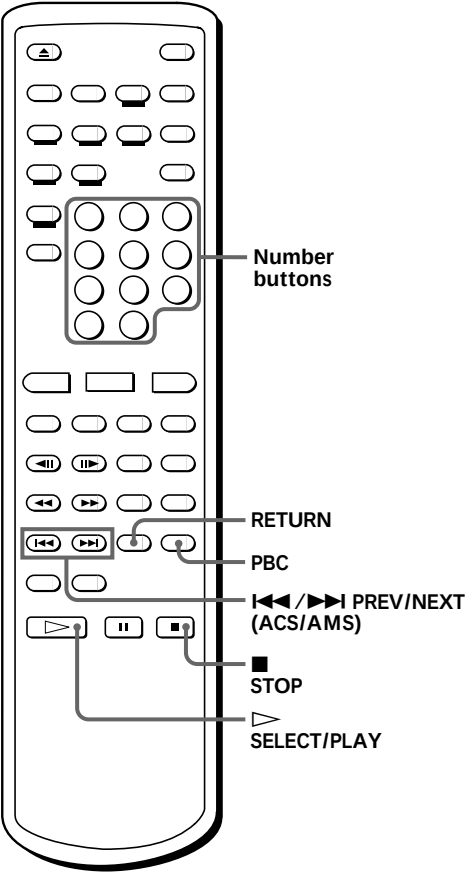
“A. PAUSE OFF” appears on the screen briefly and the AUTO PAUSE button indicator on the player goes off.

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)



Tips

- To select a song over 10, Press >10, then press two number buttons, first the tens digit, then the ones digit (see page 15).
- You can view high-resolution still pictures on some Ver. 2.0 VIDEO CDs.

Note

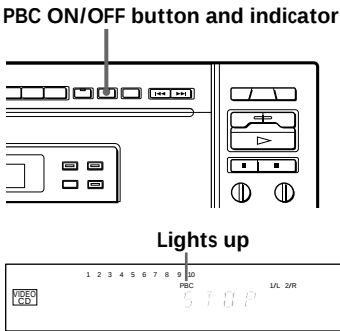
- If no menus appear on the screen:
 - check that the disc is a Ver. 2.0 VIDEO CD
 - turn on the PBC ON / OFF button indicator
 - press > SELECT / PLAY to display a menu

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 when "SELECT" flashes on a moving picture	> SELECT / PLAY or a number button
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 "??" appears on the screen

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

Canceling PBC playback

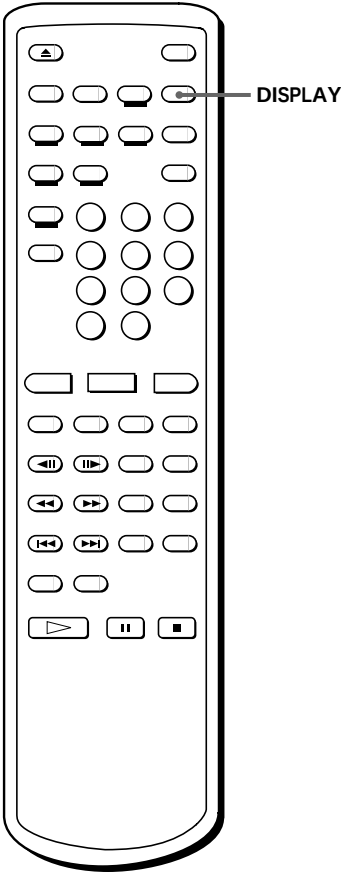
Press ■ STOP to stop playing the VIDEO CD, then press PBC on the remote commander, or PBC ON / OFF on the player to turn off the PBC ON / OFF button indicator. Now you can play the VIDEO CD continuously but menus for interactive playback are not displayed.

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

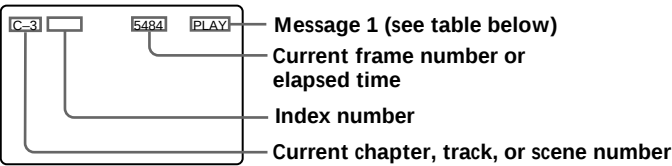


- Notes**
- The AV calendar for LDs (display of remaining chapter numbers) is only available for LDs with TOC data.
 - When playing an LD without TOC data, total playing time of the disc does not appear.
 - When playing an LD without chapters, the chapter number does not appear.
 - When playing a CLV 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.

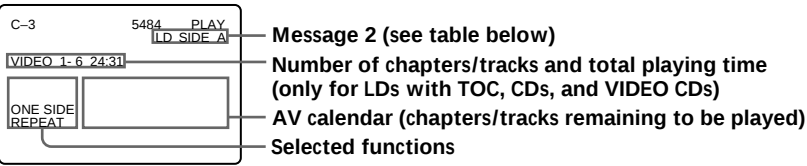
You can view the operating status of the player or disc information on the TV screen.

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.

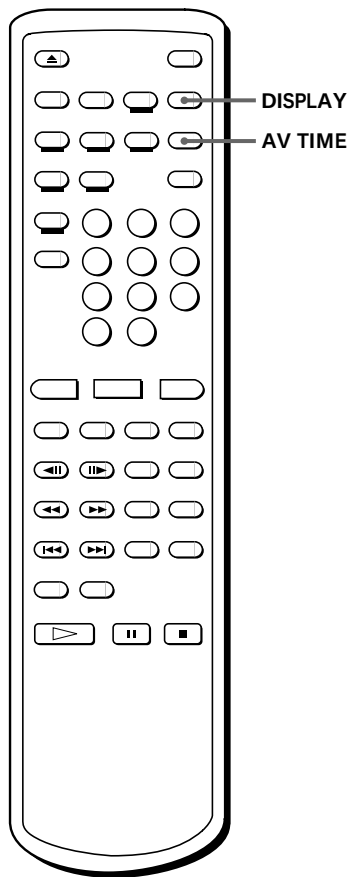
Message 1

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

Understanding on-screen indications (continued)



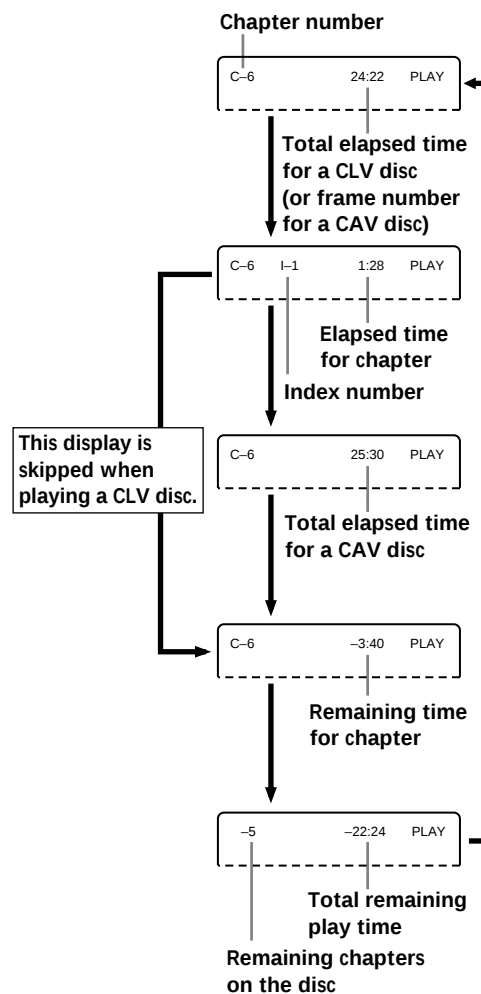
Checking the elapsed or remaining time of the disc

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

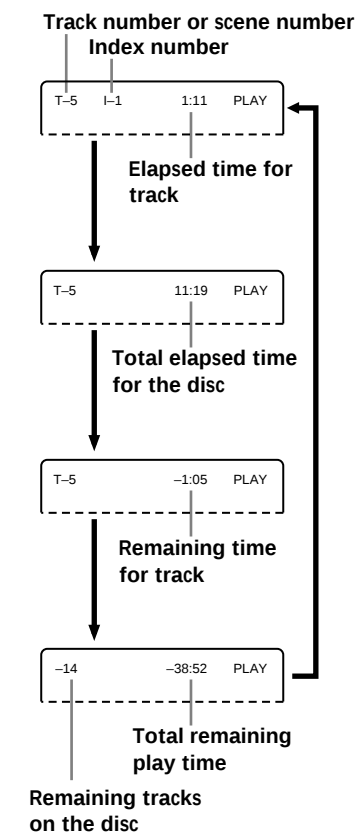
Press DISPLAY, then press AV TIME repeatedly.

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

LDs with TOC



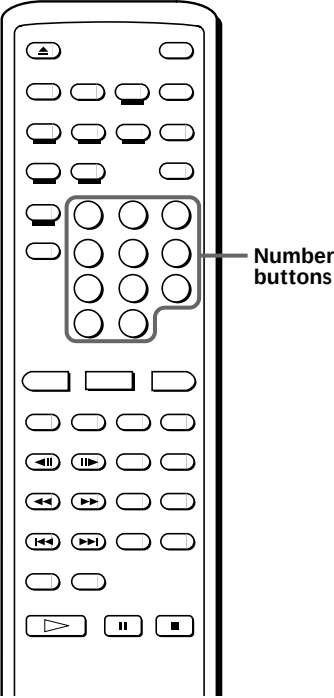
CDs/VIDEO CDs



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)



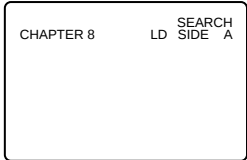
- Tips**
- In addition to normal play mode, you can do Chapter /Track Search while in Freeze Frame (CAV LDs or VIDEO CDs), Repeat, or Pause mode. When the selected chapter or track is located after the search, playback continues in the same mode.
 - When you do Chapter /Track search while a song is automatically 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, then press 10/0.

- 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.

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.

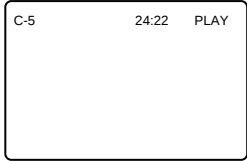


To play a chapter on the opposite side of the LD, press DISC SIDE B (or A), then enter the chapter number.

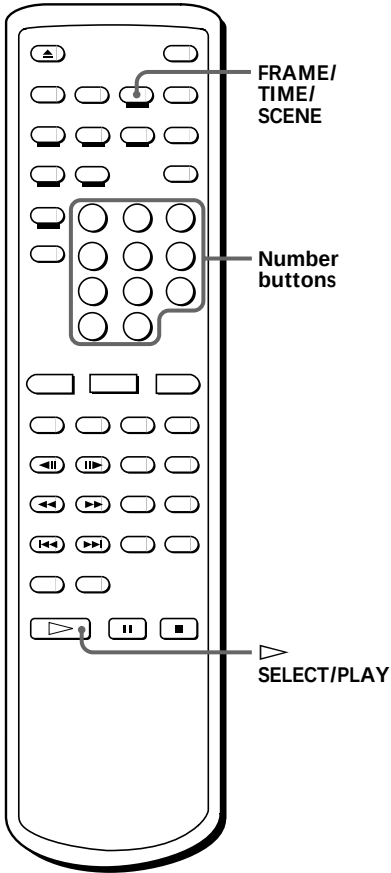
To enter a number greater than 10
Press >10, then press two number buttons in sequence, first the tens digit, then the ones digit. If you press >10 by mistake, press >10 again, then enter the correct one digit number.

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 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)



- Tips**
- 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.
 - In karaoke mode, you can also do Frame/Time/Scene Search if the player is stopped.

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 14).

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 ⑩.

To locate the 12 minutes, 5 second point on the CLV LD, press ①, ②, ⑩ 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

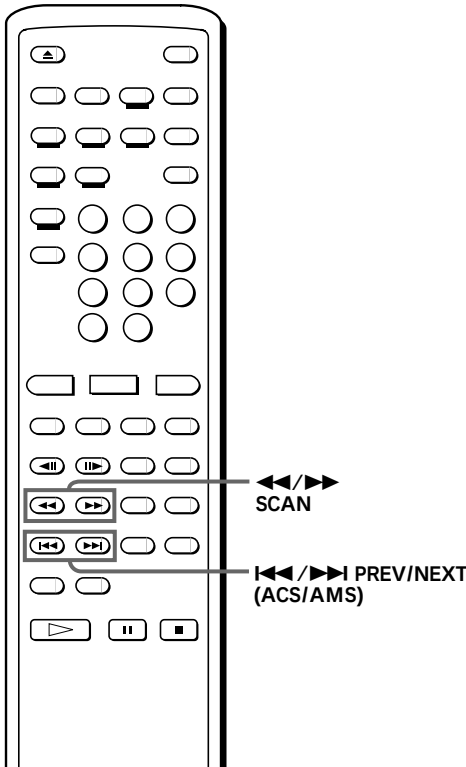
Press DISPLAY.

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



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

Scanning a disc quickly (Speed Scan)

Hold down ◀◀/▶▶ SCAN while playing the disc.

To	Hold down
Scan forward	▶▶ SCAN
Scan backward	◀◀ SCAN
To resume normal playback, release ◀◀/▶▶ SCAN.	

Skipping chapters or tracks (Skip Search)

Press or hold down ◀◀/▶▶ PREVIOUS / NEXT (ACS/AMS).

To go to the beginning of	Press
Next chapter / track	▶▶ NEXT (ACS / AMS) once
Current chapter / track	◀◀ PREVIOUS (ACS / AMS) once
Previous chapter / track	◀◀ PREVIOUS (ACS / AMS) twice before the picture or sound resumes

Hold down ▶▶ or ◀◀ to skip chapters / tracks continuously.

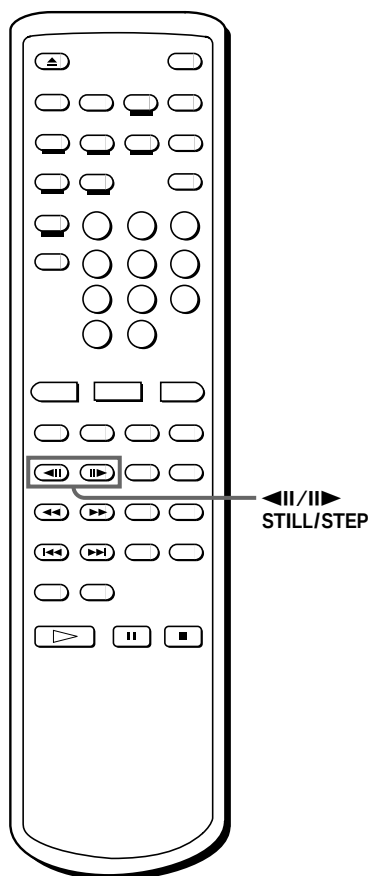
Notes

- 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.

Tips

- 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 ◀◀/▶▶ SCAN after pressing || PAUSE while playing a VIDEO CD, the scanning speed increases. The picture where you pressed || PAUSE freezes and remains on the screen. Navigate by using the time display. Release ◀◀/▶▶ SCAN to display the picture at the indicated time. The new picture freezes. Press ▷ SELECT / PLAY to resume playback.

Viewing frame-by-frame action



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 **II 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 ◀II/III> STILL/STEP while playing a CAV LD.
The sound mutes and the picture freezes.

2 Press ◀II/III> repeatedly to advance or reverse the action frame-by-frame.
Hold down ◀II/III> to view continuous frame-by-frame action.

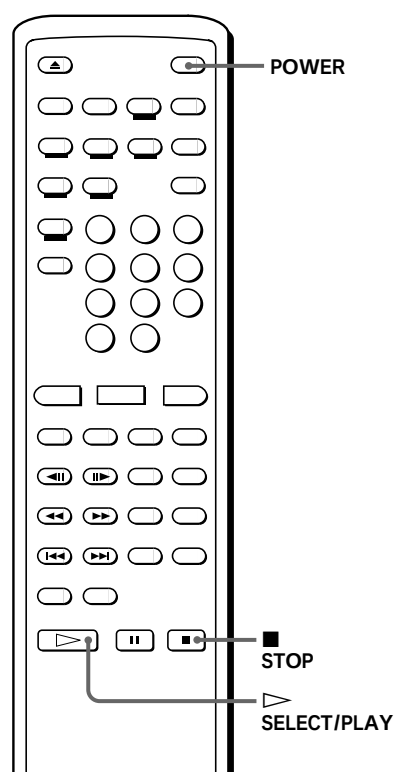
To resume normal playback

Press **▷ SELECT/PLAY**.

Tip

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

Resuming LD playback (Auto Resume)



Tips

- 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 completely open the disc tray, press 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 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.
- 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 in non-karaoke mode (without microphones connected). Once you press ■ STOP or POWER to stop playing an LD, 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.

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

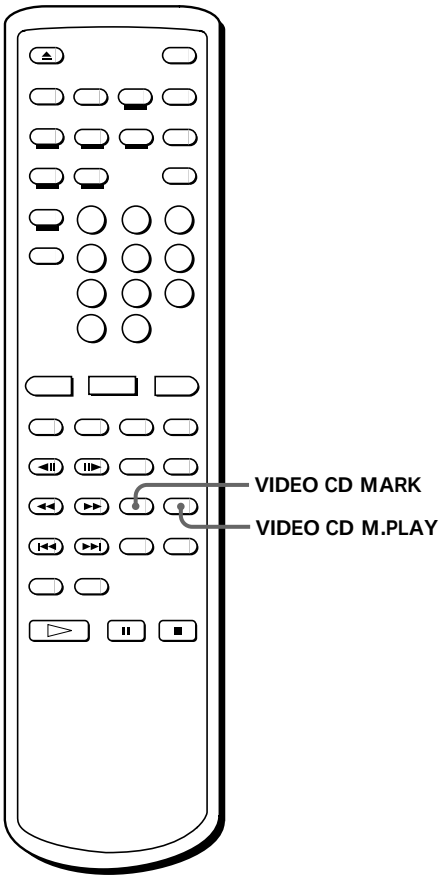
If the player is turned on, press ■ PAUSE instead of ▷ SELECT / PLAY.

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 LD

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. The point at which you stopped is cleared.

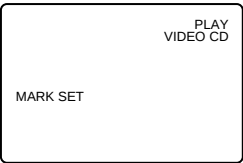
Resuming VIDEO CD playback from a point you like (Book Mark)



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 for one disc. 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.



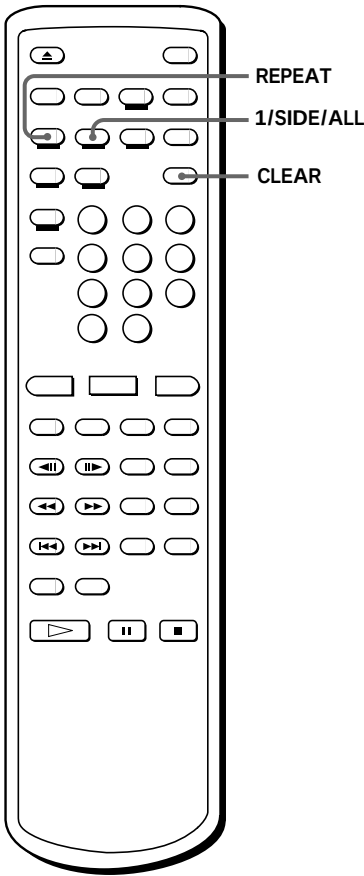
Tips

- 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 both 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.

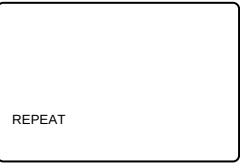
Playing a section repeatedly (Repeat Play)



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 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.



Repeating the selected chapter/track (Single Repeat)

Press 1/SIDE/ALL once, then press REPEAT.
“SINGLE” and “REPEAT” appear briefly. “REPEAT 1” lights up on the front panel display. The player plays the selected chapter / track repeatedly.

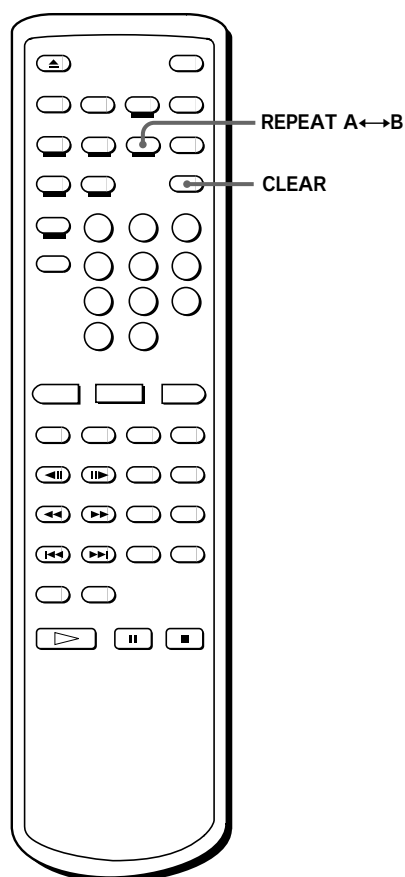


- Notes**
- You cannot use Repeat and Reserve at the same time.
 - You cannot use Repeat while using PBC functions on a Ver. 2.0 VIDEO CD. To use Repeat on a Ver. 2.0 VIDEO CD, press ■ STOP to stop playing, then press the PBC (ON / OFF) button to turn off the PBC ON / OFF button indicator on the player.

To check the repeat status
Press DISPLAY twice.

Canceling Repeat Play
Press CLEAR.

Playing a section repeatedly



Replaying a selected portion on the disc

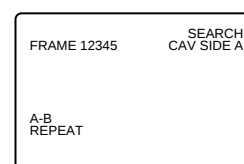
- 1** Press REPEAT $A \rightarrow B$ at the beginning of the scene or phrase you want to repeat.

This tells the player where to start. “REPEAT” and “A-” appear, and “B” flashes.

- 2** Let the player run to the end of the scene or phrase.

- 3** Press REPEAT $A \rightarrow B$ again.

This tells the player where to end. “REPEAT” and “A-B” appear. 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 $A \leftrightarrow B$

Press CLEAR.

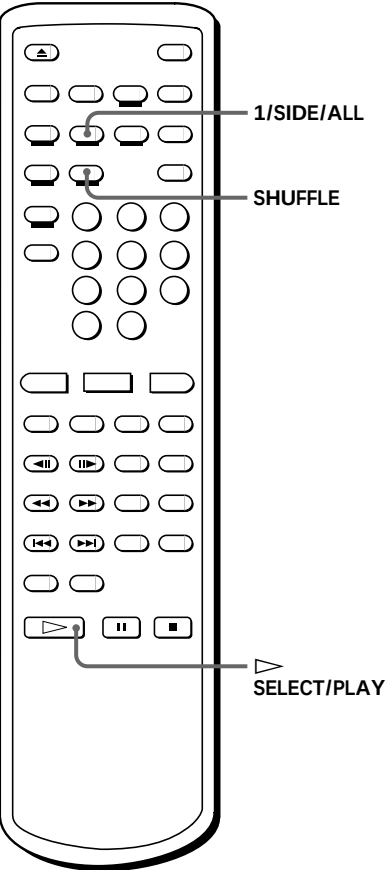
Tip

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

Note

- You can do Repeat A $\leftrightarrow$ B only on the current side of an LD. You cannot do it on both sides of the LD.

Playing songs in random order (Shuffle Play)



Tip

- 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

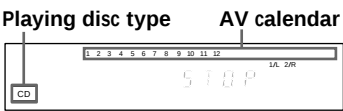
- If the LD does not contain TOC data, or if the player has not read the TOC data of the LD, “NO TOC” appears on the screen when you press SHUFFLE, and you cannot do Shuffle or Delete Shuffle Play.
- You cannot do Shuffle or Delete Shuffle Play while using PBC functions on a Ver. 2.0 VIDEO CD. To do 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)

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

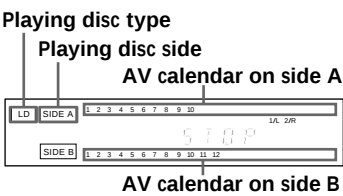
When you use a CD or VIDEO CD, the AV calendar appears on the front panel display, showing that TOC data was read.



- 2 (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.



- 3 Press SHUFFLE on the remote commander.**

“SHUFFLE” flashes on the front panel display.



- 4 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)

- 1 Follow steps 1 to 3 above to enter SHUFFLE mode.**

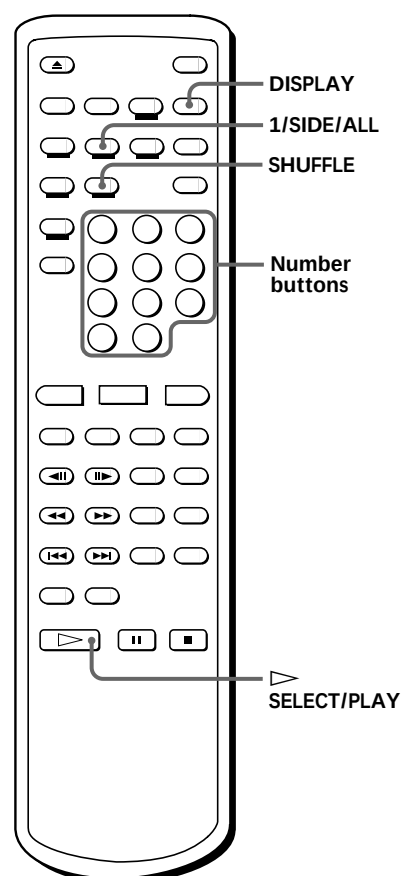
Make sure that both AV calendars for side A and side B appear, and “SHUFFLE” flashes on the front panel display.

- 2 Press 1/SIDE/ALL on the remote commander to turn off “1 SIDE” on the front panel display.**

- 3 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)

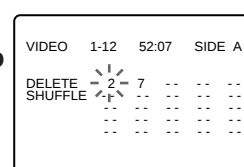


Playing only your favorite songs in random order (One Side Delete Shuffle)

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.

- 1 Press SHUFFLE to enter SHUFFLE mode.**
"SHUFFLE" flashes on the front panel display.
- 2 Press DISPLAY twice to use the on-screen display.**
- 3 Press the number buttons to delete songs you do not want to play.**
The deleted song numbers are displayed on the screen.

If you enter a wrong number, press CLEAR. With each press, the last song you entered is restored (the number on the screen disappears).
- 4 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)

- 1 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.
- 2 Press 1/SIDE/ALL on the remote commander to turn off "1 SIDE" on the front panel display.**
- 3 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.

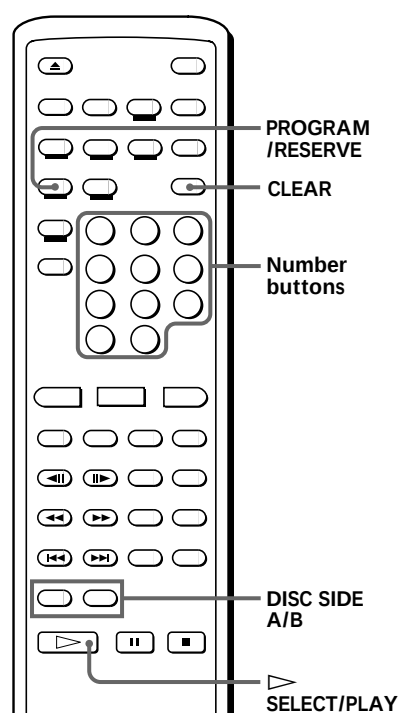
Tips

- 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 15).
- 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.

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)



Tips

- 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 15).
- 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 the PROGRAM/RESERVE button indicator on the player 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.

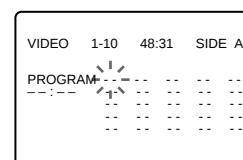
Notes

- 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.
- When you play a VIDEO CD or CD, the DISC SIDE B button does not function.
- 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). Use Reserve in karaoke mode (see “Selecting karaoke song order” on page 27).

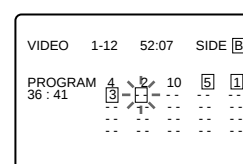
Selecting songs to make a program

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



- 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.

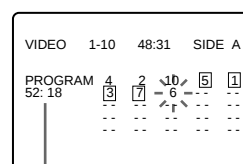
- Repeat step 2 until you finish selecting songs.**

- 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 II PAUSE in the program

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

To check the contents of the program

Press DISPLAY twice.

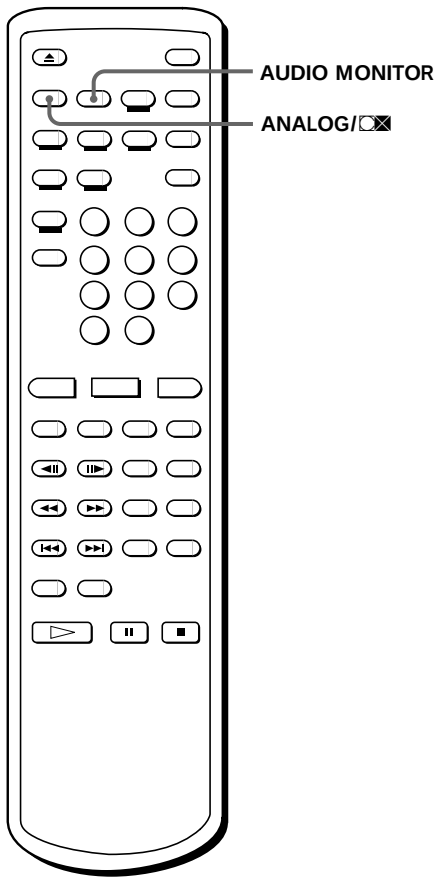
The numbers of the selected songs appear. If playing a song, its number flashes.

Canceling Program Play

Press CLEAR.

“CLEAR” appears briefly and the player exits Program mode. All the programmed songs are cleared.

Using the sound control functions



Note

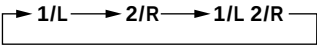
- The output level may differ between digital and analog sound.

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/ⓧ.

Press ANALOG/ⓧ while playing the disc. “♪ ANALOG” appears briefly on the screen and the analog sound is output.

To return to digital sound

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

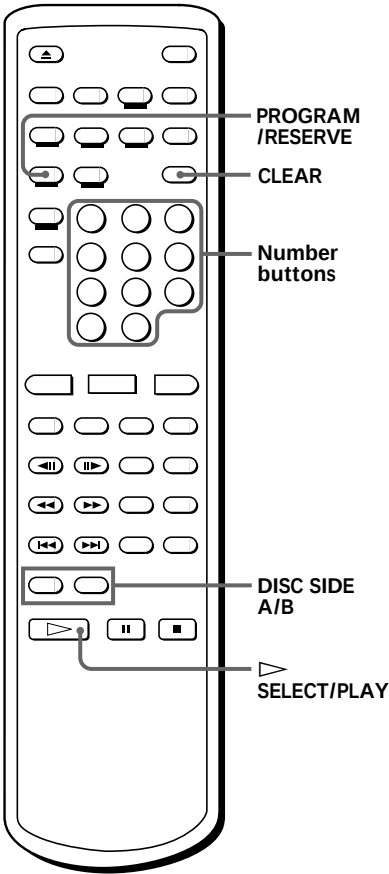
Playing discs with the ⓧ (CX) logo

LDs bearing the ⓧ 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 ⓧ discs and activates the CX noise reduction system automatically when outputting analog sound. If your ⓧ 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/ⓧ repeatedly until “CX ON” appears. The CX noise reduction system is activated.

Selecting karaoke song order (Reserve)



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.

Selected disc side

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.

Alternate disc side

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.

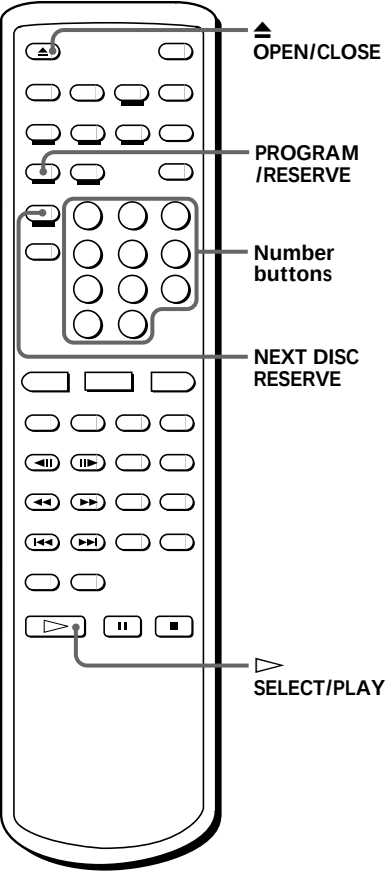
If you reserve songs while playing a song, the reserved songs start playing, without pausing, after the current song.

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

Notes

- 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.
- When you play a VIDEO CD or CD, the DISC SIDE B button does not function.

Selecting karaoke song order
(continued)



Tip

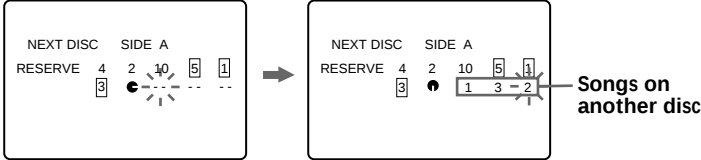
- You cannot use Next Disc Reserve in non-karaoke mode (without microphones connected). Instead, you can select up to 25 songs in non-karaoke mode (see “Playing songs in any order you like” on page 25).

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.

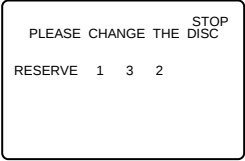
Selecting songs on another disc
(Next Disc Reserve)

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



- 2** 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.



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

- 4** 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.

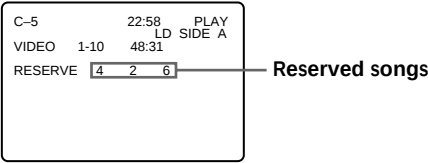
Tip

- You can enter 0 to select chapter 0 on LDs.
To enter 0, press >10, then press 10/0.

To enter a number greater than 10
Press >10, 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.

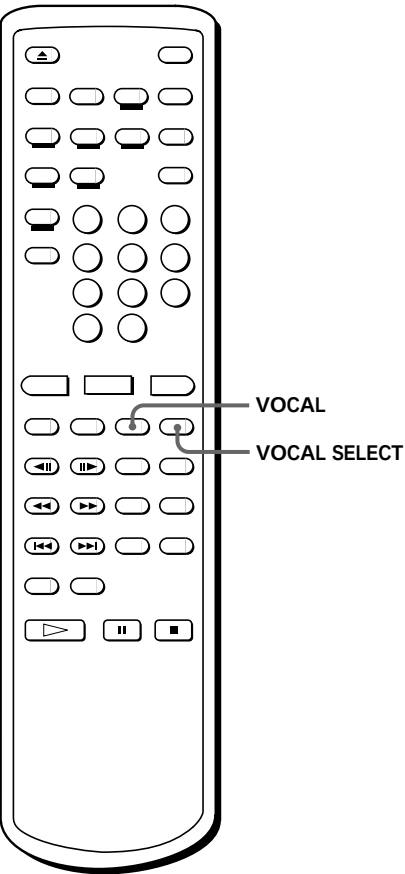
To	Press
Enter 10	10/0
Enter 14	>10, then 1, then 4
Enter 20	>10, then 2, then 10/0
Enter 25	>10, then 2, then 5

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



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 26).

Tip

- 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 33), you can also use Vocal Select for karaoke video tapes.

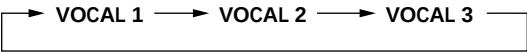
You can enjoy karaoke using various functions.

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

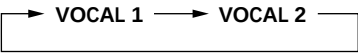


Indication	Output sound recorded on
VOCAL 1	Right analog track
VOCAL 2	Left analog track
VOCAL 3	Right analog track (with stereo sound on digital tracks)

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

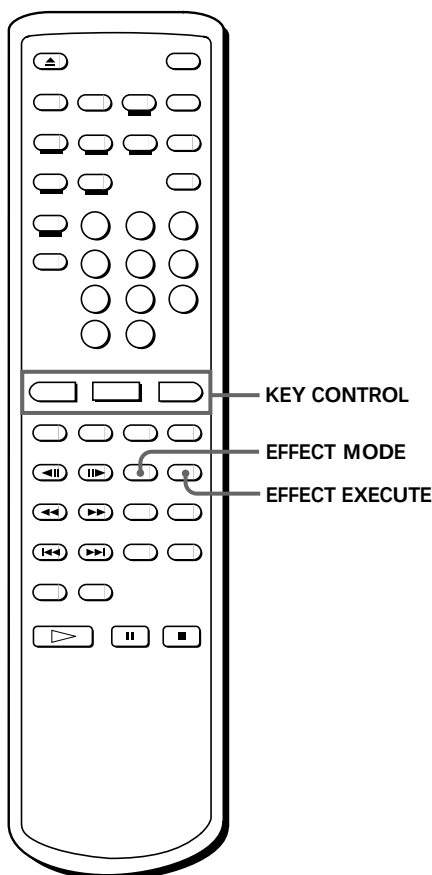
When playing karaoke CDs, VIDEO CDs in karaoke mode (with microphones connected), or when playing karaoke tapes using LINE IN, the player automatically outputs backup sound recorded on the left channel. To listen to the vocals, use Vocal Select to also output the original vocals recorded on another track.

- 1 Press VOCAL to turn on the VOCAL SELECT button indicator.
- 2 Press VOCAL 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 VOCAL SELECT button indicator. “VOCALSEL OFF” appears on the screen briefly.



Tips

- 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 33).
- You can also use Key Control in non-karaoke mode (without microphones connected).

Note

- The EFFECT EXECUTE button does not function during applause. To use the EFFECT EXECUTE button, press it after applause finishes.

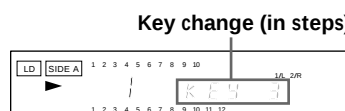
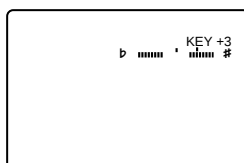
Changing the backup key (Key Control)

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.



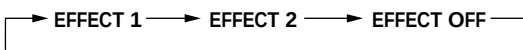
Applauding the singer

The player can liven up karaoke entertainment by applauding the singer. This is available in karaoke mode only.

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

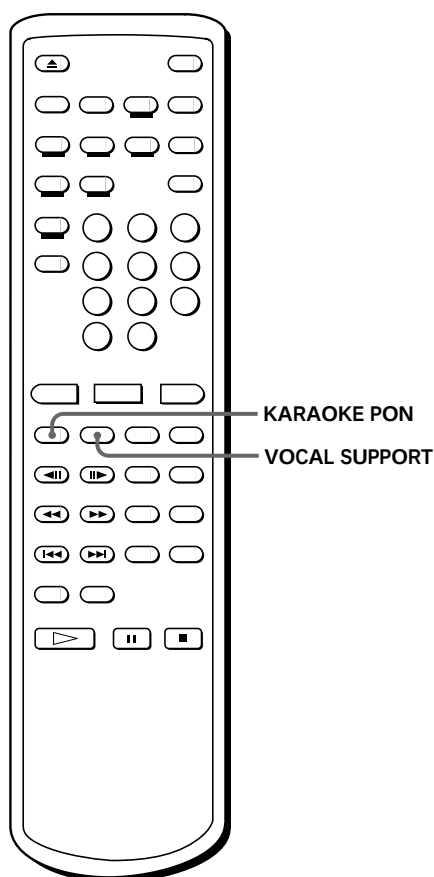
You can applaud the singer any time you like.

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 karaoke functions (continued)



Tips

- 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 button 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 button 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 indicator on the player.

“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 indicator on the player.

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

Tip

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

Notes

- 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.

Tip

- 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 30 for details.

Using the optional karaoke microphone

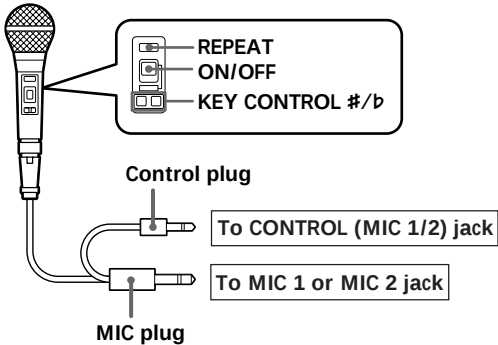
You can control the player from the karaoke microphone (Sony F-KM1, not supplied) by connecting the control plug to the CONTROL jack on the player.

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 31).

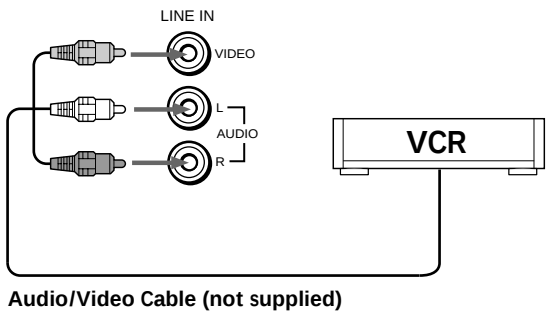


Playing karaoke using auxiliary equipment

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, 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 videotape. To return to playing a disc, press ▷ SELECT / PLAY.



Additional Information

Troubleshooting

	Symptom	Remedy
Power	No power	Connect the AC power cord securely.
Karaoke	No sound from microphone	- Switch the microphone on. - Turn up the MIC LEVEL 1 or 2 control on the player.
	Distorted sound	Set the ATT switch at the rear of the player to ON.
	Howling occurs	- Move the microphone away from the speakers. - Lower the volume. - Lower the microphone volume or echo level.
Playback	Playback does not start	- Insert the disc correctly. When playing a CD, VIDEO CD or LD Single, place it with the label facing up. - Select the disc side on which signals are recorded. - If there may be moisture condensation within the player, wait for about one hour before operating the player. - Clean the disc.
	Playback stops every time a chapter/track ends	Press AUTO PAUSE to turn off the AUTO PAUSE button indicator on the player.
	Menu does not appear on a VIDEO CD	- Use a VIDEO CD which has PBC functions (Ver. 2.0 VIDEO CD). - 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.
Picture	No picture, but “▶” lights up on the front panel display	- Connect the TV correctly. - Turn on the TV and set the input selector on the TV to “Video.”
	Poor picture	- Connect the TV correctly. - Clean the disc.
	Visual noise while scanning a disc	A certain amount of visual noise and instability is inevitable while scanning a disc.
	Freeze Frame does not operate	Use a CAV LD or VIDEO CD. Freeze Frame does not operate on CLV LDs.
Sound	No sound	- Connect the TV or amplifier correctly. - Turn up the volume on the TV or amplifier. - Switch on the amplifier and set the input selector to “CD” or “AUX.” - Playback at normal speed. No sound is output while in pause mode.
Others	Remote Commander does not operate	- Turn on the player. - Point the remote commander at the remote sensor on the player. - Remove any obstacles between the remote commander and the sensor. - Insert the batteries correctly. - Replace both the batteries with new ones if they are weak.

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 36.

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
(± 0.001 % W.PEAK) (EIAJ)

Video specification

- Horizontal video resolution
425 lines
- 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)
- 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
110-127 / 220-240 V AC, adjustable, 50 / 60 Hz
- Power consumption
45 W
- Operating temperature
5°C to 35°C
- Ambient humidity
5% to 90 %
- Dimensions
Approx. 430 × 116 × 430 mm (w / h / d)
including projecting parts and controls
- Mass
Approx. 7.5 kg

Supplied accessories

- Remote Commander WL-AVP800 (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 and China models) (1)

Design and specifications are subject to change without notice.

Optical discs

The AVP-800 can play optical discs currently available for home entertainment, laser discs (LD) and compact discs (CD, VIDEO CD and CD-G). 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	
		CD-G (NTSC)	3 in. (8 cm)	Single	20 min	
			5 in. (12 cm)	Single	74 min	
			3 in. (8 cm)	Single	20 min	
			5 in. (12 cm)	Single	74 min	

* The AVP-800 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.

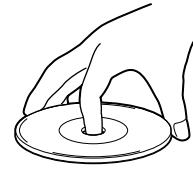
VIDEO CD standards to which the player conforms

This player conforms to both 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.

Optical disc maintenance

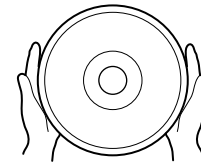
Holding CDs

Hold CDs (including VIDEO CDs and CD-Gs) 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

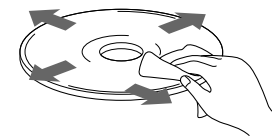
Do not play cracked or damaged discs, or try to play discs that have been repaired with adhesive glues.

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 benzine, 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.

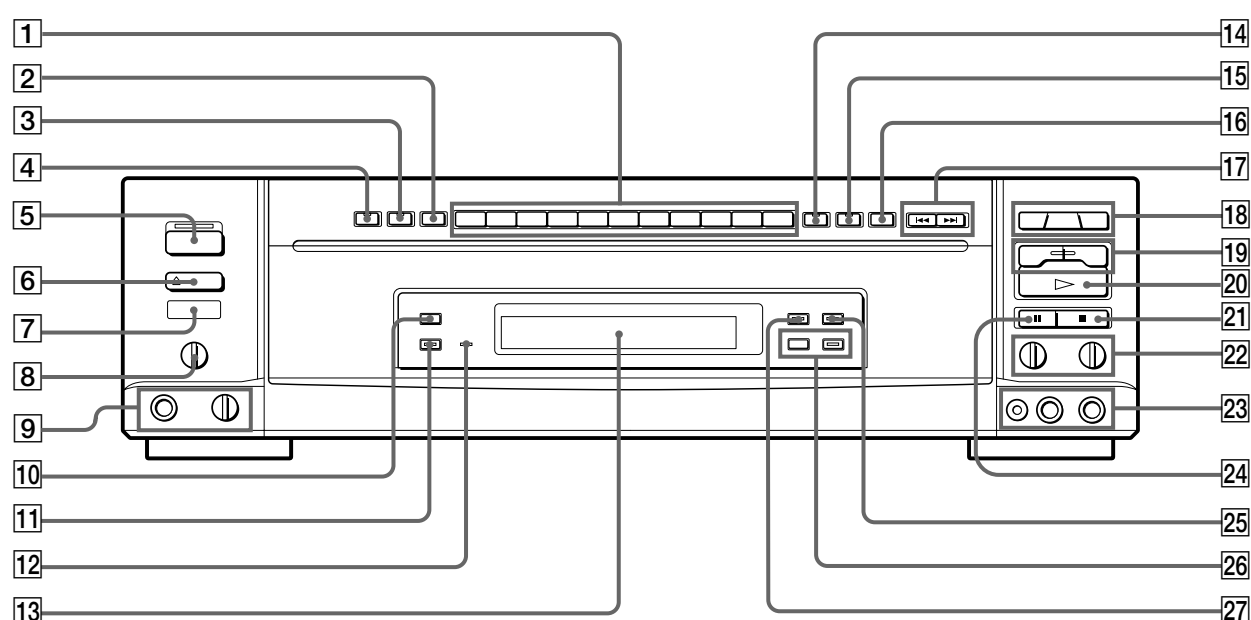
Putting your fingers on, or adhering anything to the surface of the disc such as sticky note pad paper or adhesive tape, will deteriorate the quality of the playing surface, and thus the output quality.



Index to parts and controls

See the pages indicated in () for details.

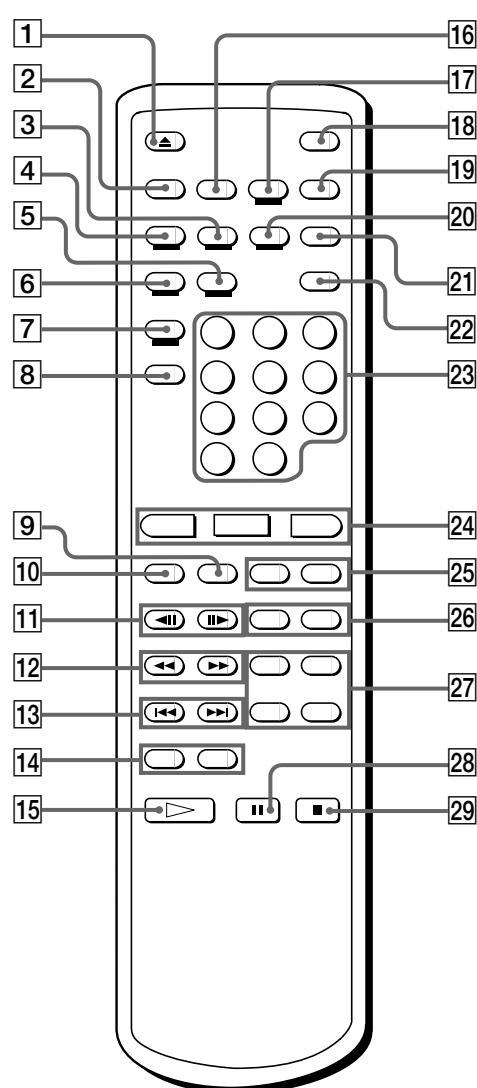
Front



- 1** Number buttons (11) (12) (15) (16) (24) (25) (27) (28)
- 2** CLEAR button (21) (22) (24) (25) (27) (28)
- 3** NEXT DISC RESERVE button and indicator (28)
- 4** RESERVE button and indicator (25) (27) (28)
- 5** POWER switch and indicator (8) (10) (19)
During STANDBY : Lights up red
While ON : Goes off
- 6** $\triangle$ OPEN / CLOSE button (8) (10) (28)
- 7** Remote sensor (34)
- 8** ECHO LEVEL control (11)
- 9** PHONES jack and control (9)
- 10** LINE IN button (33)
- 11** AUTO PAUSE button and indicator (11)
- 12** AUTO RESUME indicator (19)
- 13** Display (9) (13) (14)

- 14** VIDEO CD PAL OUT button and indicator (8)
- 15** PBC ON / OFF button and indicator (12) (20)
- 16** RETURN button (12) (20)
- 17** $\lll$ / $\ggg$ PREV / NEXT (ACS / AMS) buttons (9) (12) (17)
- 18** KEY CONTROL $\triangleright$ DOWN / NATURAL / $\#$ UP indicator-buttons (31)
- 19** SIDE A / B buttons and indicators (9) (25) (27)
- 20** $\triangleright$ SELECT (Play) button (8) (9) (12) (16) (19) (23) (24) (25) (27) (28)
- 21** $\blacksquare$ (Stop) button (9) (19)
- 22** MIC LEVEL 1 and 2 controls (10) (11)
- 23** MIC 1, 2 and CONTROL (MIC 1 / 2) jacks (10)
- 24** || (Pause) button (9) (18)
- 25** VOCAL SUPPORT button and indicator (32)
- 26** VOCAL / SELECT buttons and indicator (30)
- 27** AUTO EFFECT button and indicator (31)

Remote commander



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

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 1.1: 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.

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VIDEO CD/CD/LD Player

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AVP-800

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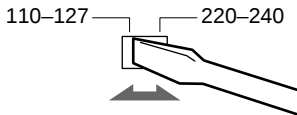
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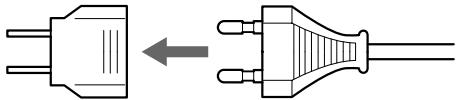
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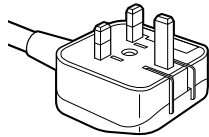


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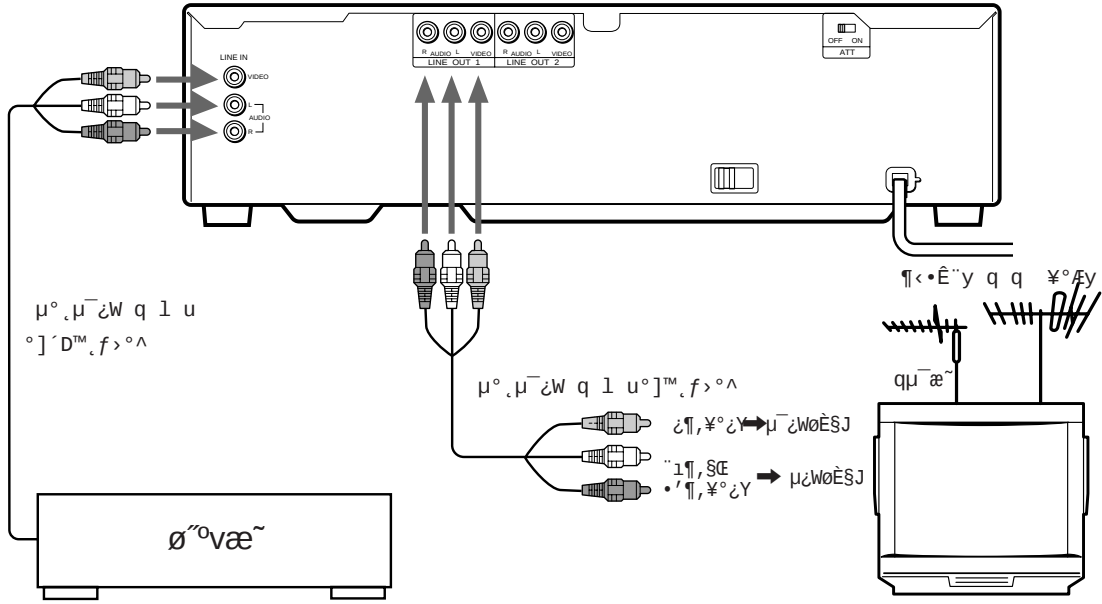
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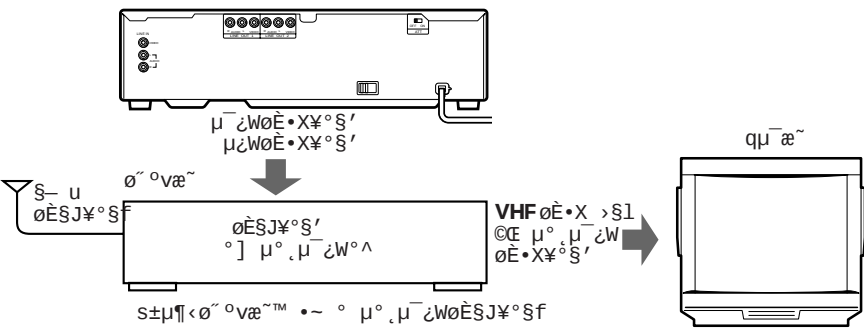
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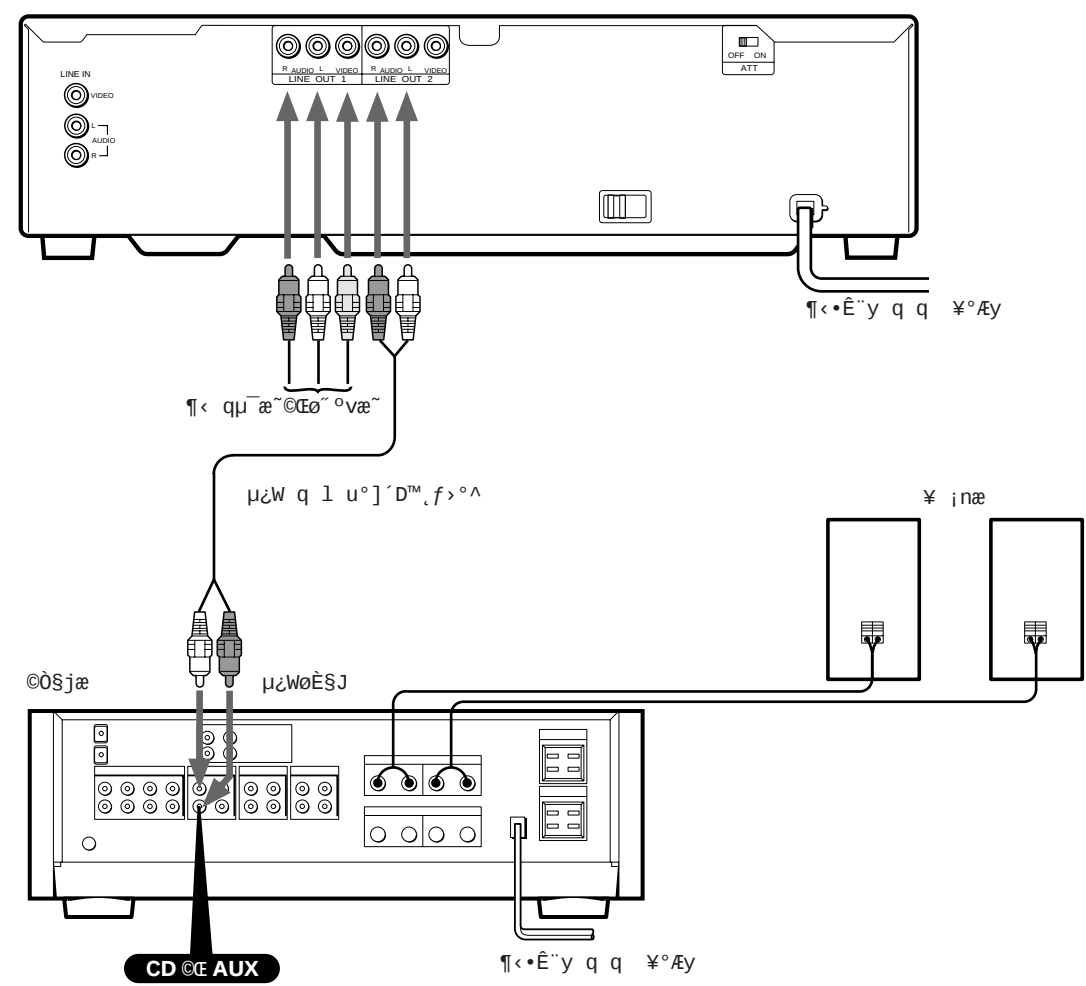
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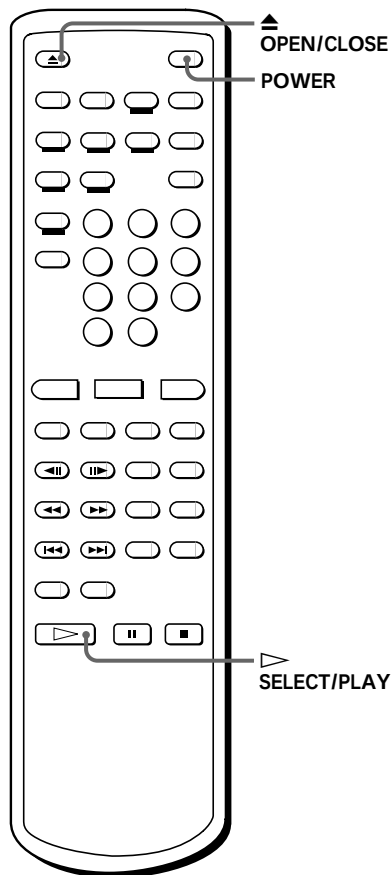
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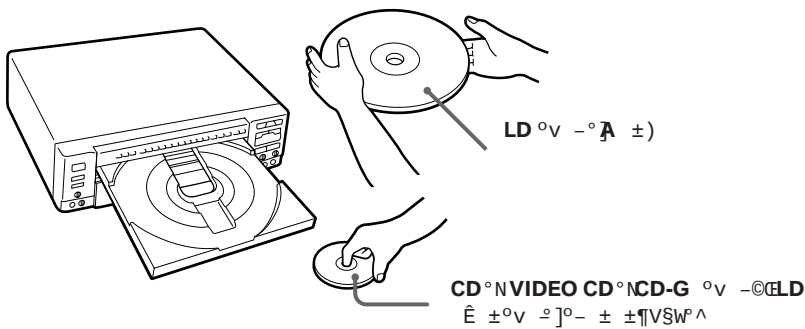
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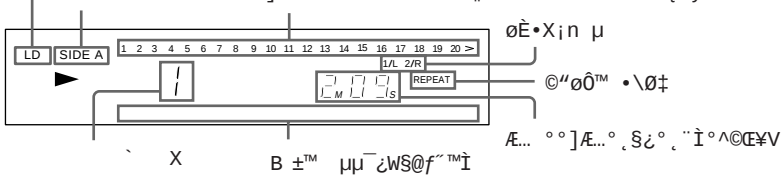
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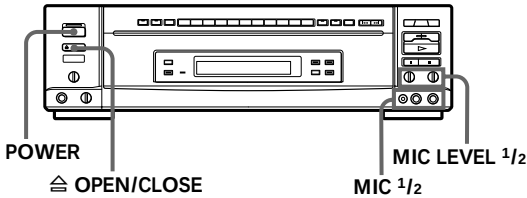
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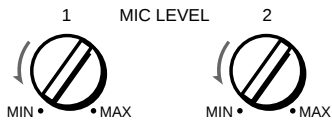


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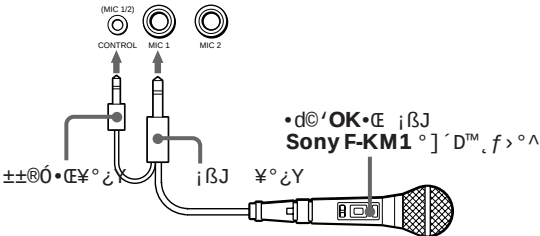
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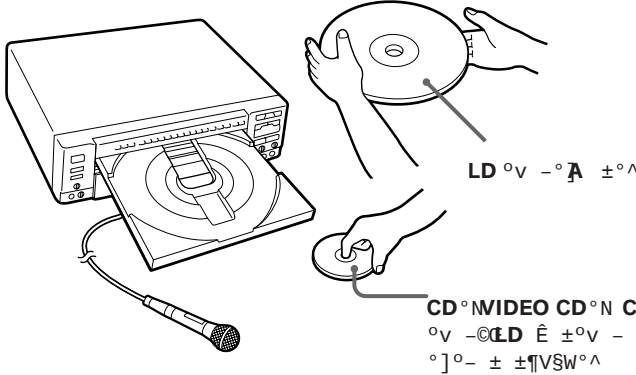


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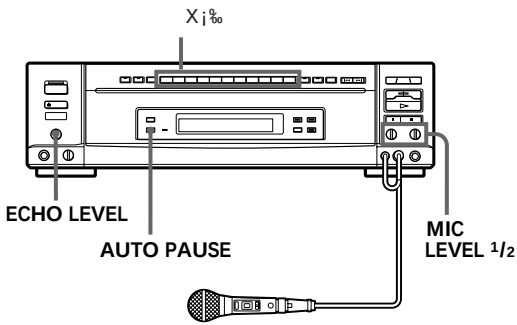
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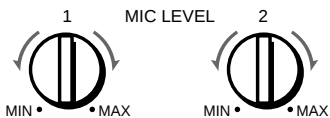
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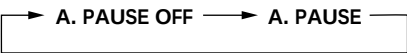
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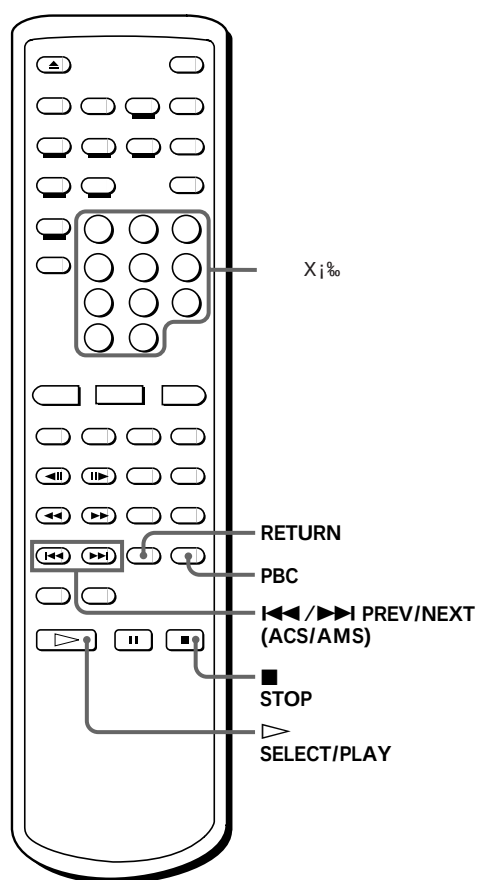
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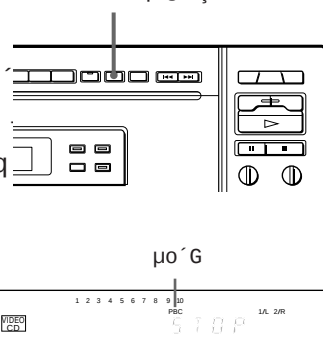
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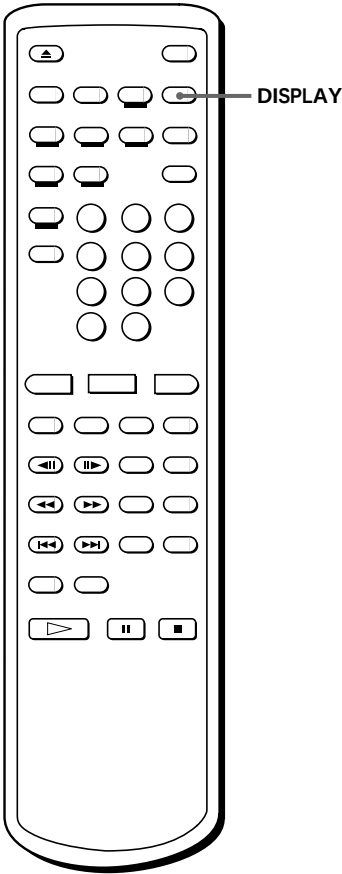
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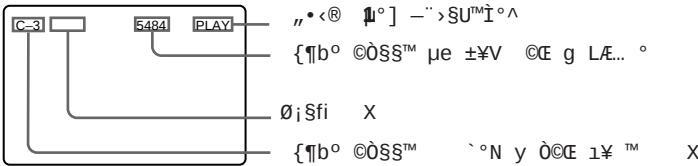
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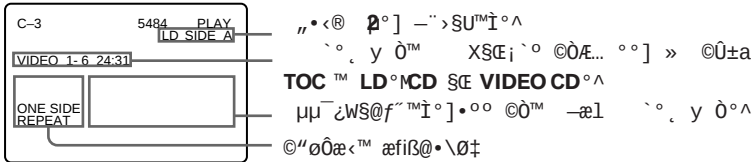
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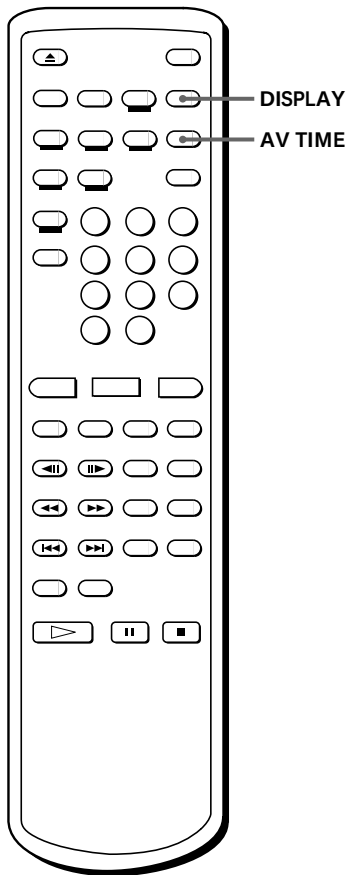
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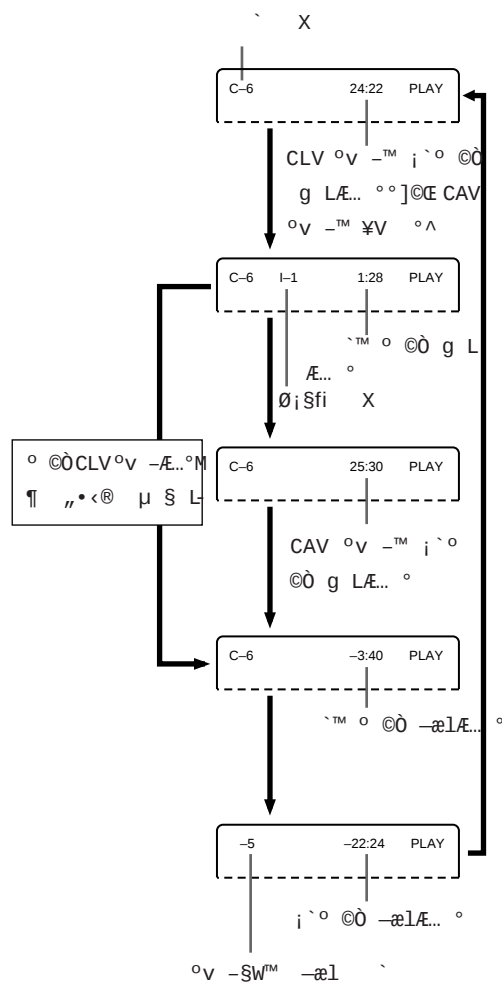


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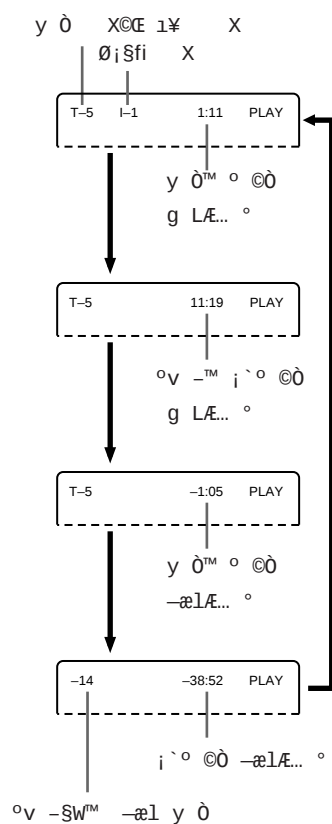
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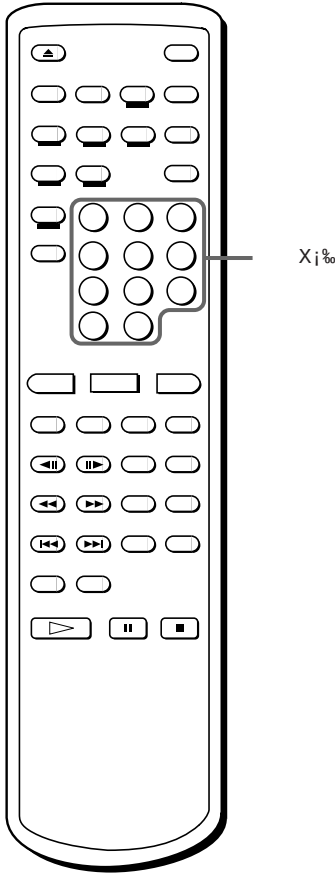
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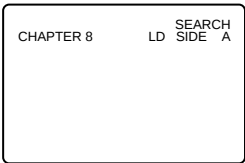
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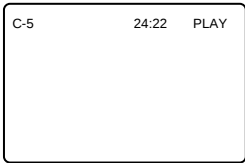
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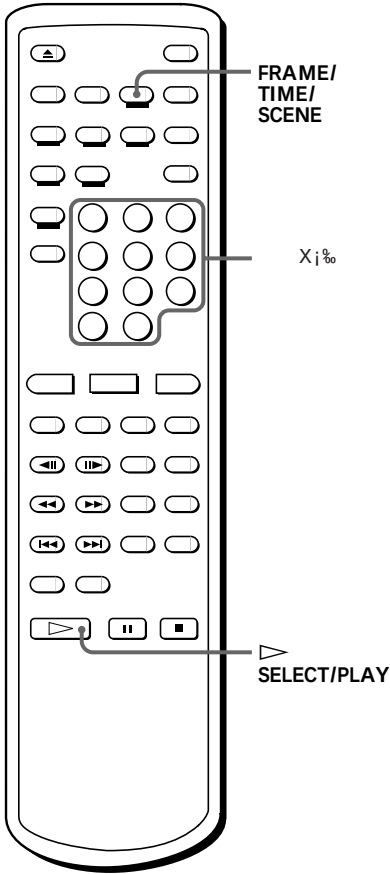
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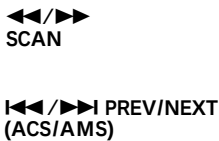
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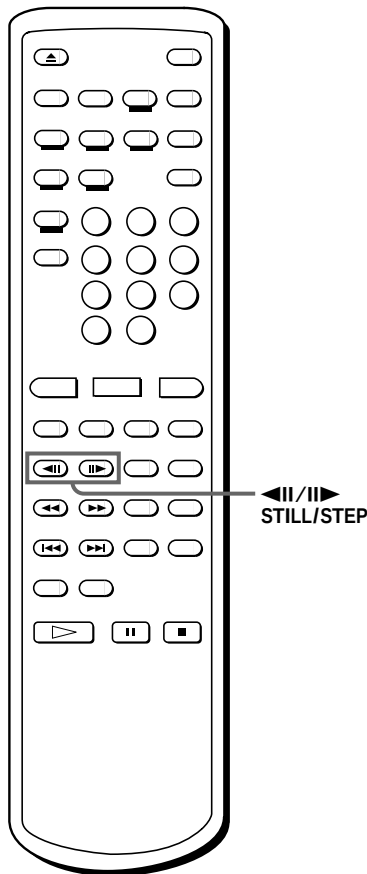
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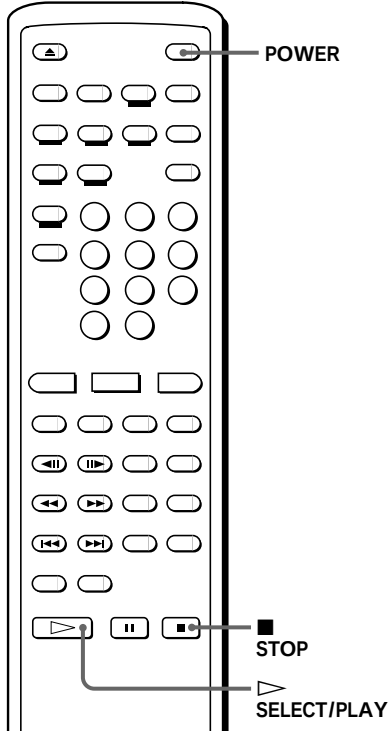
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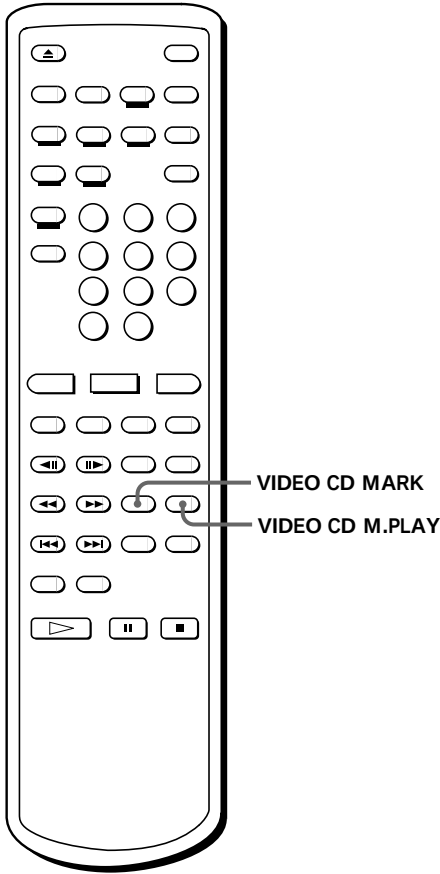
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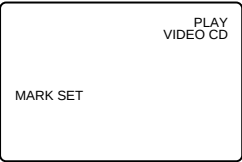
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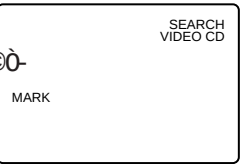
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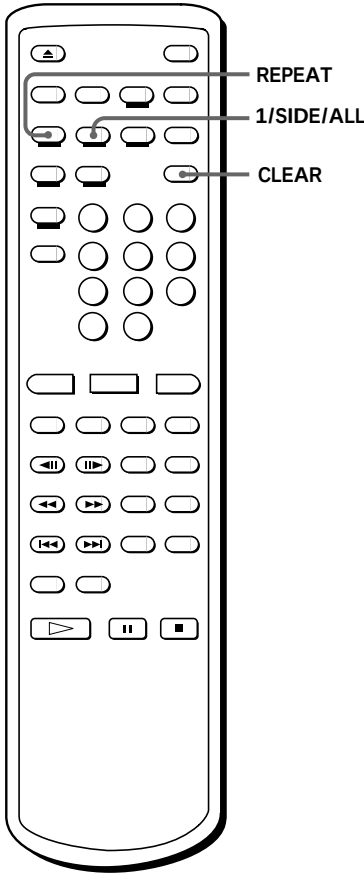
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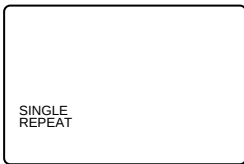
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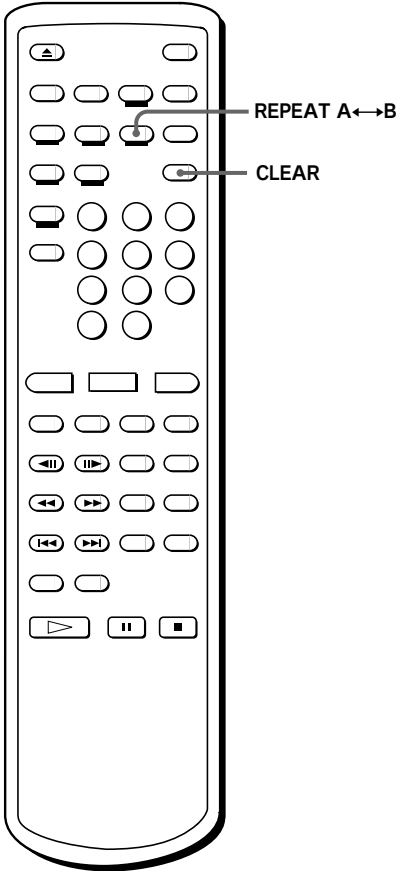
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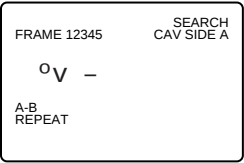


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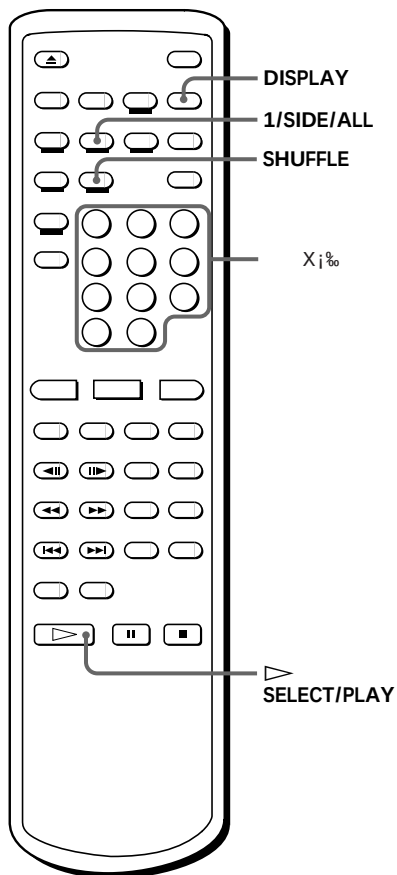
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Diagram of the front panel of the remote control. The panel features a variety of buttons including a power button at the top, a row of five buttons, a numeric keypad (0-9), a row of four buttons, a row of three buttons, a row of four buttons, a row of two buttons, and a row of three buttons at the bottom. Three specific buttons are labeled with leader lines:

- 1/SIDE/ALL**: Points to the first button in the second row from the top.
- SHUFFLE**: Points to the second button in the third row from the top.
- SELECT/PLAY**: Points to the first button in the bottom row.

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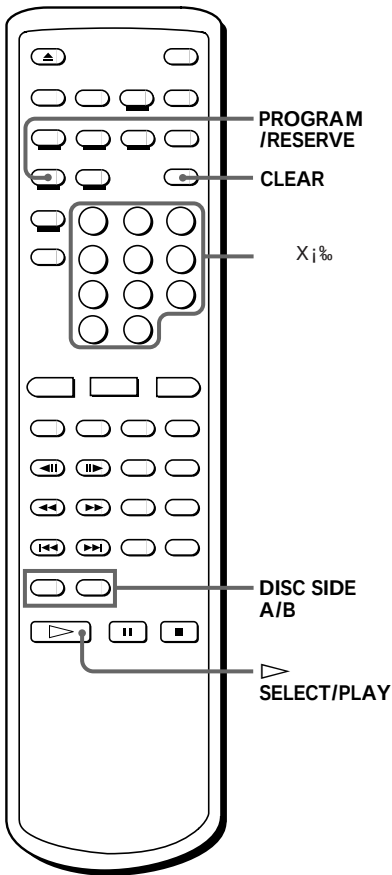
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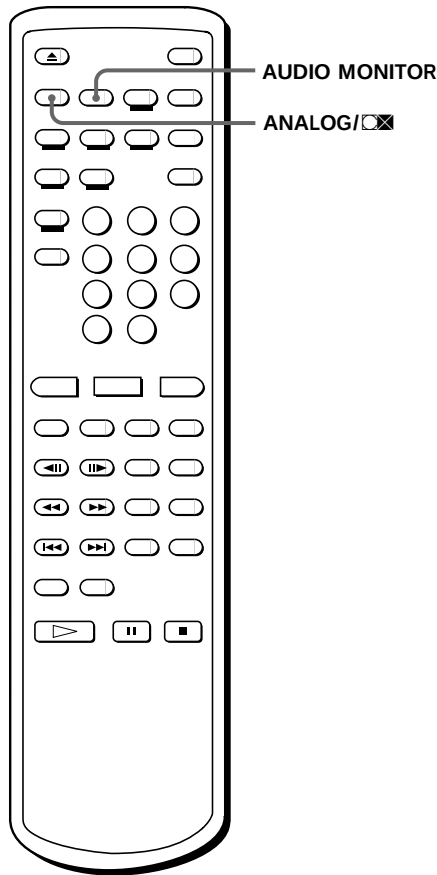
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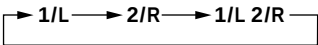
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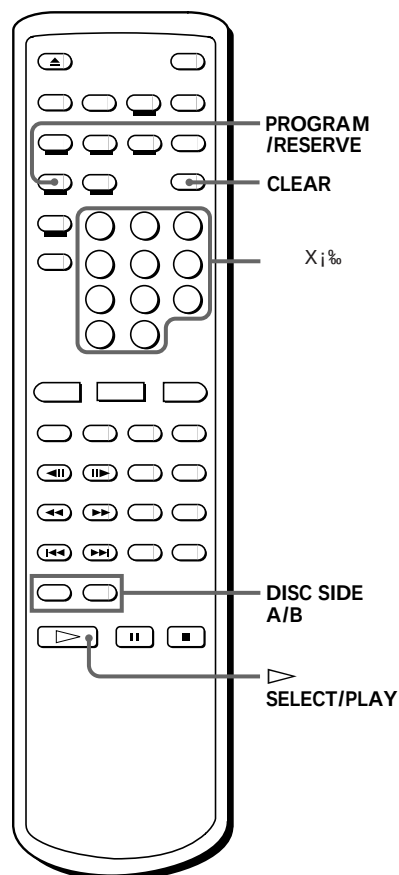
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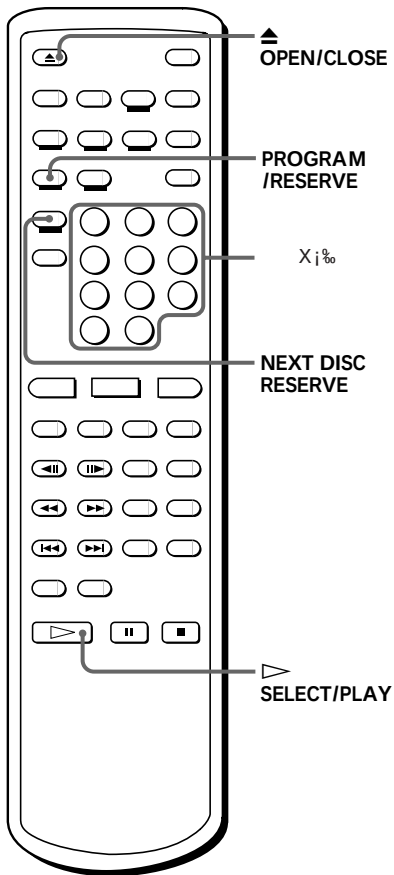
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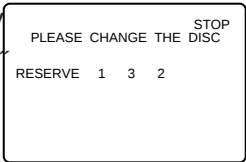
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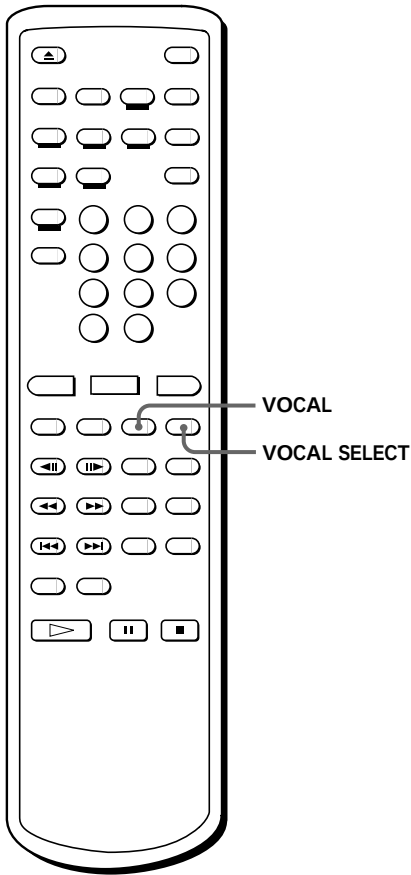
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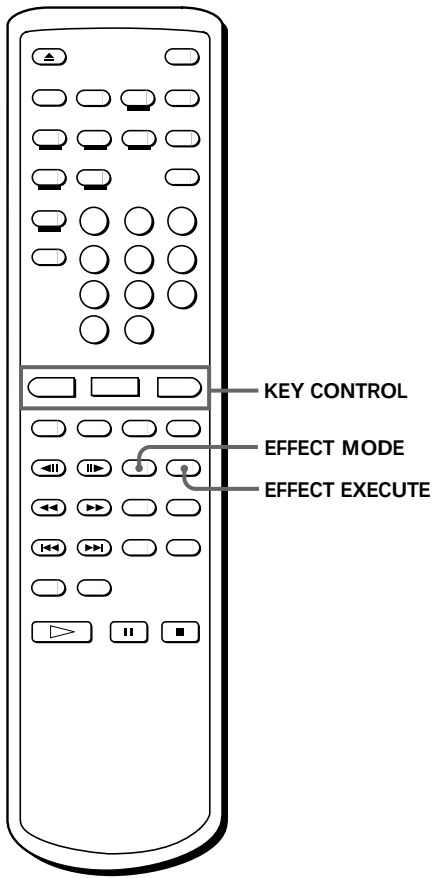
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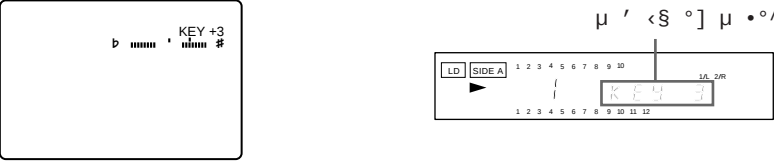


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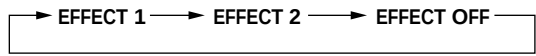


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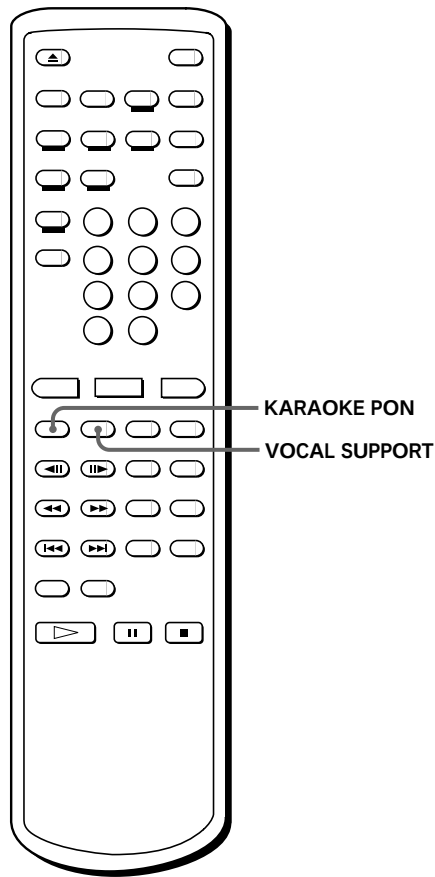
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Spoken commands—

- Press the **OK** button to enter the **VOCAL SUPPORT** mode.
- Press the **OK** button to enter the **KARAOKE PON** mode.

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- Press the **OK** button to enter the **VOCAL SUPPORT** mode.
- Press the **OK** button to enter the **KARAOKE PON** mode.

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Press the **OK** button to enter the **VOCAL SUPPORT** mode.

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- ②æ•Æ q LLINEIN ¥°S' s±μ™ Ø´°væ~μ•^ BU À m° CÒ•dCOK Æ...°G °C1 ´O´°v -æ~ q CÙ±μ q ™´´ A- °-´^¿E■STOP i% ±SÓ° CÒ°v —° CÒ°v -Æ...°MLINE IN i%S£Ø‡@æ•Æ-

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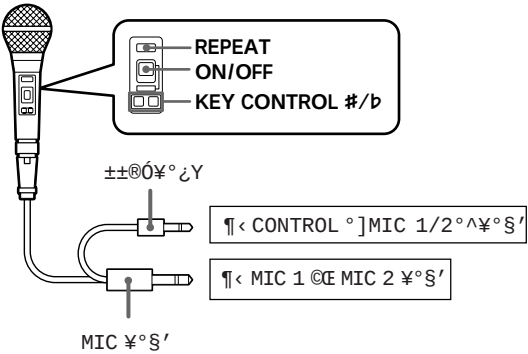
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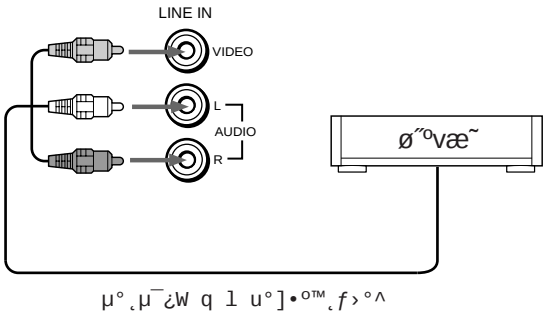


®æ•Æ^ BU À m° CÒ•dC' OK

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- 2 ´^¿E°v -æ~SW™LINEINi%- °v -æ~SW™LINEINi%, •<Ø0μo´G- Y°v -•Øηb° CÒSS°M´^■TOR% ±SÓ° CÒ -

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|         | @æ•EVIDEOCDÆ.. µ•ÿ™Ì\$E•X {            | • -@æ•E±a PBC •\ø‡™ VIDEO CD °]2.0™© VIDEO CD°^<br>• “^¿E■STOPi% ±\$Ó° ©Ò°v -´.°M“^¿PBC°]ON/OFF°^i%@æ°v<br>-æ~\$W™PBCON/OFF i%, •<ø0µo´G-<br>“^¿E▷SELECT/PLAYi% „•<•X µ•ÿ™Ì- |
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|         | ¿RSÓ¥V•\ø‡\$E\$uß@                     | • -@æ•E CAVLD @E VIDEO CD-<br>¿RSÓ¥V\$E\$uß@©ÚCLVLD-                                                                                                                         |
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VIDEO CD / CD / LD v -æ~

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EIA °- «°MNTSC±m¶, @t Ą  
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@Ů VIDEO CD °^

°@ŮÆ... °  
—> f36 °´H °v -

° X μŁW WAEÊ

§j@Ů115dB °]EIAJ °^\*

§j@Ů99dB °]EIAJ °^

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» °^ °]EIAJ °^

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•fl Ê;nL, R  
°“ŁŁ °G200mVrms  
°]1kHz, 40% ´@Ů °^  
° X °G200mVrms  
°]1kHz, -20dB °^

LINE IN

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ØÊ\$J´H °G1Vp-p °M75£[ °M´D• Ø  
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MIC 1/2 ¥°S´

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AVP-800 00 {b•´,™ •´H °v -@-ÆaÆxÆT°÷Sß•Æ°G pÆg°v -  
°JLD°^SÆ S´´´°v µ -QD°WVIDEOCDSECD-G°^SU™I¶C•X•ªæ~•Æ  
™ •´ - ´´\*

| •´ - ŷ ¸                                                  | •´ -°-ªX | •´ -´¶°                      | SŷSo          | °©Ö± | °©ÖÆ...°             |        |
|-----------------------------------------------------------|----------|------------------------------|---------------|------|----------------------|--------|
| pÆg°v -<br>•Æ©Ü q°v µe<br>S´°N q°@°N µ°÷<br> SÆ•d©´OK     |          | LD (NTSC)                    | 8 in. (20cm)  | Ê ±  | CAV                  | 14Sçfi |
|                                                           |          |                              |               |      | CLV                  | 20Sçfi |
|                                                           |          | 8in. LD (NISC)               | 8 in. (20cm)  | ¬~ ± | CAV                  | 28Sçfi |
|                                                           |          |                              |               |      | CLV                  | 40Sçfi |
|                                                           |          | 12in. LD (NISC)              | 12 in. (30cm) | ¬~ ± | CAV                  | 1SpÆ.. |
|                                                           |          |                              |               |      | CLV                  | 2SpÆ.. |
| S´´´°v µ -<br>•Æ©Ü µ°÷°N q<br>°v°N µeS´°N•d<br>©´OKSÆ ´S´ |          | Ê¶±CD                        | 3 in. (8cm)   | Ê ±  | 28çfi°] »±a µçW´H °^ |        |
|                                                           |          | CD                           | 5 in. (12cm)  | Ê ±  | 74çfi°] »±a µçW´H °^ |        |
|                                                           |          | VIDEO CD<br>(NTSC SÆ<br>PAL) | 3 in. (8cm)   | Ê ±  | 20Sçfi               |        |
|                                                           |          |                              | 5 in. (12cm)  | Ê ±  | 74Sçfi               |        |
|                                                           |          | CD-G (NTSC)                  | 3 in. (8cm)   | Ê ±  | 20Sçfi               |        |
|                                                           |          |                              | 5 in. (12cm)  | Ê ±  | 74Sçfi               |        |

\*AVP-800SE0±° ©ÖSW™I©´´•<•´ -•H•~™ •´ -

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•ªv -æ~æA¶X™ VIDEOCD°- «

•ªv -æ~æAç VIDEO CD™ 1.1™©CM 2.0™©™ WÆÊ Y®æ•Æ 2.0™©  
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ø±SÆ™-A©´´ çR •\ø±°¿.0™©VIDEOCD WÆÊ™ s•[ °Sç°^

$$\mathbf{CD}^* - \text{TM} \in \text{TM}_K$$
$$\mathbf{LD}^{\mathbf{D}}_{\mathbf{V}} - \mathbf{TM} \text{ } \mathbf{\hat{A}E}^{\mathbf{TM}}_{\mathbf{K}}$$
$$-TM^* N \pm j\omega P \cdot u$$

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 $\mathbb{C} \mathbb{E} \mathbb{T} \mathbb{p} \text{ x} \mathbb{E} \text{ f} \mu \cdot \cdot^{\circ} \cdot^{\text{TM}} \cdot^{\text{TM}} \mathbb{O}^{\circ} \mathbb{M} \mathbb{S} \mathbb{J} \mathbb{S} E \cdot i\mathbb{B}, \cdot \cdot -\mathbb{C} \mathbb{O} \eta \mathbb{b} \mathbb{B} \cdot \cdot$   
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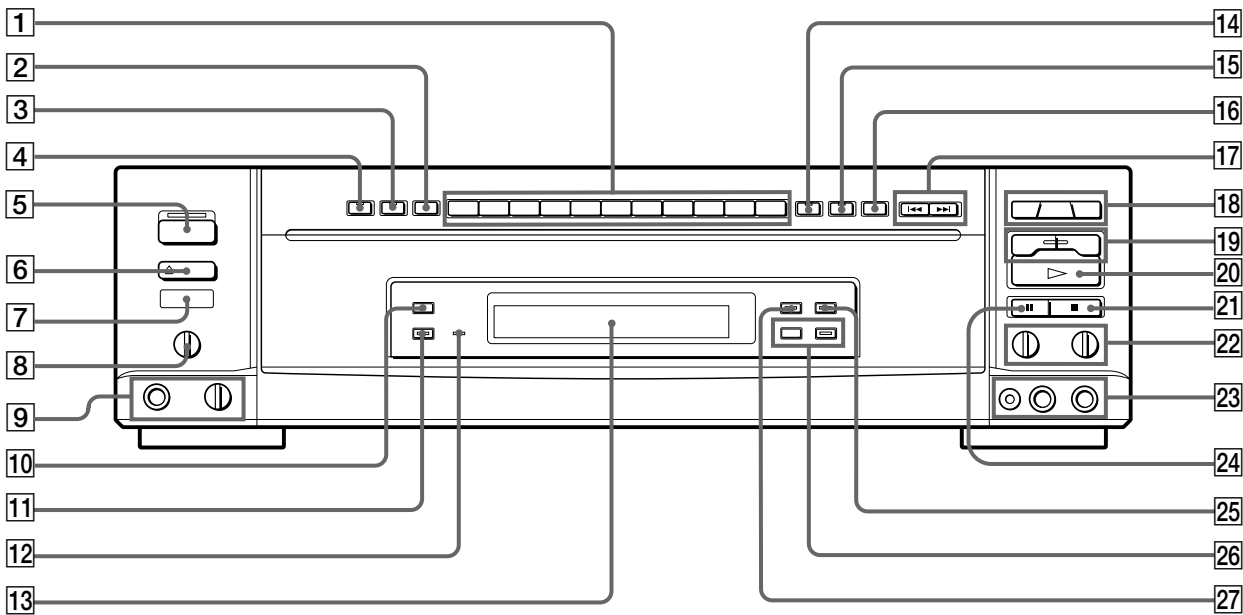
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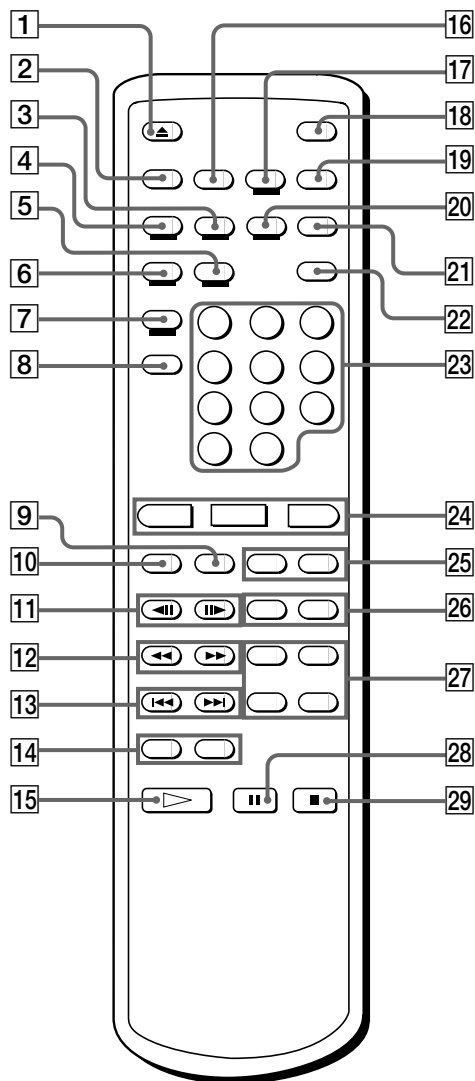
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- 1 Xi% (11)(12)(15)(16)(24)(25)(27)(28)
- 2 CLEAR°]Æ¯ £°^i%(21)(22)(24)(25)(27)(28)
- 3 NEXTDISCRESERVE°]§U L°v – w@w°^i% Œ´, •<ø0(28)
- 4 RESERVE°] sß«°, w@w°^i%Œ´, •<ø0 (25)(27)(28)
- 5 POWER°] q °^ } ^Œ´, •<ø0(10)(19) ON°] }°^°G ò¶, STANDBY°]´>æ~°^°G`1¶,
- 6 OPEN/CLOSE°] }¶´ L°, ^¶´ L°^i% (8)(10)(28)
- 7 n±± P¿ æ (34)
- 8 ECHOLEVEL°]¶^in q• °^±±®Ó±±ø(11)
- 9 PHONES°]¶´æ~°^¥°§´Œ±±®Ó±±ø)
- 10 LINEIN°] u ùøÈ§J°^i%(33)
- 11 AUTOPAUSE°]¶± °» ±°^i%Œ´, •<ø0 (11)
- 12 AUTORESUME°]¶± ´İ¥\_°^´, •<ø0(19)
- 13 „•<´Ä(9)(13)(14)

- 14 VIDEOCDPALOUT°]CD °v –PAL ´H øÈ•X°^i%Œ´, •< ø0 (8)
- 15 PBCON/OFF°]° @ò±±®Ó }°, ^°^i%Œ´, •<ø0(20)
- 16 RETURN°]™ ¶^°^i%(12)(20)
- 17 ◀◀/▶▶PREV/NEXT(ACS/AMS)°e´· h°,´e i°]¶± ` P¿ °,¶± µ°÷ P¿ °^°f(9)(12)(17)
- 18 KEY CONTROL b DOWN/NATURAL/# UP°] µ ´±±®Ó b°,•a¶İ µ°,§#°^´, •<ø0i%(31)
- 19 SIDE A/B °]A/B ±°^i%Œ´, •<ø0(9)(25)(27)
- 20 ▷SELECT°]ø0æ<°,° @ò°^i% (8)(9)(12)(16)(19)(23)(24)(25)(27)(28)
- 21 ■ STOP°] ±§Ó°^i%(9)(19)
- 22 MICLEVEL°] ißJ q• °^1 @M 2 ±±®Ó±±ø (10)(11)
- 23 MIC°] ißJ °^1, 2 Œ CONTROL°]±±®Ó°^ (MIC 1/2) ¥° §´ (10)
- 24 || PAUSE°]°» ±°^i%(9)(18)
- 25 VOCALSUPPORT°]ßU ±°^i%Œ´, •<ø0(32)
- 26 VOCAL/SELECT°] qinø0æ<°^i%Œ´, •<ø0(30)
- 27 AUTOEFFECT°]¶± Æf™G µ°^i%Œ´, •<ø0(31)

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- 1 ▲OPEN/CLOSE°] }ŋ´ L° ˆŋ´ L°^i%(8)(10)(28)
- 2 ANALOG°] °“¿¿°^°¿ i%(26)
- 3 1/SIDE/ALL°] Ê\$@° ˆ ±°¿•¿ °°^i%(23)(24)
- 4 REPEAT°] \$æ¥\_°^i%(21)
- 5 SHUFFLE°] •Ûøø°^i%(23)(24)
- 6 PROGRAM/RESERVE°] sß«° w©w°^i%(25)(27)(28)
- 7 NEXTDISCRESERVE°] \$U L □ - w©w°^i%(28)
- 8 AUTOPAUSE°] ŋ□ °» ±°^i%(11)
- 9 VOCALSUPPORT°] βU □°^i%(32)
- 10 KARAOKEPON°] Ĩ □in q ´±±°^i%(32)
- 11 ◀||/||▶STILL/STEP°] ¿RSÓ° v¥V°^i%(18)
- 12 ◀◀/▶▶SCAN°] ± ¥y°^i%(9)(17)
- 13 ◀◀◀/▶▶▶PREV/NEXT(ACS/AMS)°e´ h°¿e i°] ŋ□ ´ P¿ °  
ŋ□ µ°÷ P¿ °^°fi%(12)(17)
- 14 DISC SIDE A/B°] - ± A/B°^i%(9)(25)(27)
- 15 ▷SELECT/PLAY°] øøæ<° ° ©ð°^i%(8)(9)(12)(16)(19)(23) (24)(25) (27)(28)
- 16 AUDIO MONITOR°] µ¿W ±±°^i%(26)
- 17 FRAME/TIME/SCENE°] ¥V°¿Æ... °° 1¥ °^i%(16)
- 18 POWER°] q °^ } ^°(8)(10)(19)
- 19 DISPLAY°] „•<°^i%(13)(14)(24)
- 20 REPEAT A↔B (A↔B \$æ¥\_°^i%(22)
- 21 AVTIME°] µµ¯¿WÆ... °°^i%(14)
- 22 CLEAR°] Æ¯ £°^i%(21)(22)(24)(25)(27)(28)
- 23 X i%(11)(12)(15)(16)(24)(25)(27)(28)
- 24 KEYCONTROL°] µ ´±±øø°^i%(31)  
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#UP°] \$...°^i%
- 25 VOCAL/SELECT°] qinøøæ<°^i%(30)
- 26 EFFECTMODE/EXECUTE°] Æf™G µ\$Ėŋ°°¿ °•X°^i%(31)
- 27 VIDEO CD°] CD °v -°^i%(12)(20)  
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- 28 || PAUSE°] °» ±°^i%(9)(18)
- 29 ■ STOP°] ±SÓ°^i%(9)(19)

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