JVC

DVD PLAYER

XV-511BK

DVD VIDEO   **Video CD**   **DOLBY DIGITAL**   **3D 3D-PHONIC**   **dts DIGITAL OUT**   **disc DIGITAL VIDEO**   **disc DIGITAL AUDIO**

INSTRUCTIONS

For Customer Use:
Enter below the Model No. and Serial No.
which are located on the rear, bottom or
side of the cabinet. Retain this informa-
tion for future reference.

Model No. _____

Serial No. _____

LVT0336-019A
[1U]

Warnings, Cautions and Others

Caution — POWER switch!

Disconnect the mains plug to shut the power off completely. The POWER switch in any position does not disconnect the mains line. The power can be remote controlled.

CAUTION
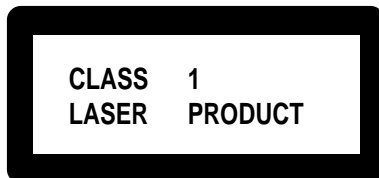
To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

IMPORTANT FOR LASER PRODUCTS

REPRODUCTION OF LABELS

① CLASSIFICATION LABEL, PLACED ON REAR ENCLOSURE

② WARNING LABEL, PLACED INSIDE THE UNIT

**CLASS 1
LASER PRODUCT**

CAUTION	- LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.
ATTENTION	- RAYONNEMENT LASER EN CAS D'OUVERTURE. NE PAS REGARDER DANS LE FAISCEAU.
VORSICHT	- LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT IN DEN STRAHL BLICKEN.
ADVARSEL	- LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN.
ADVARSEL	- LASERSTRÅLING NÅR DEKSEL ÅPNES. STIRR IKKE INN I STRÅLEN.
VARNING	- LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STRRA EJ IN I STRÅLEN.
VARO!	- AVATTAESSA OLET ALTTIINA LASERSÄTEILYLLE. ÄLÄ TUIJOTA SÄTEESEEN.
注意	- 当打开这里会出现激光, 请不要直视激光。
注意	- ここを開くとレーザー光が出ます。 レーザー光をのぞき込まないでください。

1. CLASS 1 LASER PRODUCT
2. **DANGER**: Visible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. **CAUTION**: Do not open the top cover. There are no user service-able parts inside the Unit; leave all servicing to qualified service personnel.

Caution: Proper Ventilation

To avoide risk of electric shock and fire and to protect from damage.
Locate the apparatus as follows:
Front: No obstructions open spacing.
Sides: No obstructions in 3 cm from the sides.
Top: No obstructions in 5 cm from the top.
Back: No obstructions in 15 cm from the back
Bottom: No obstructions, place on the level surface.

Table of contents

Introduction

Features

Picture functions

■ **Strobe function**
The unit can display nine continuous still pictures on the TV screen.

■ **Digest function**
You can select the desired title from the opening scenes displayed on the TV screen.

■ **Angle function***
You can select a desired angle from multiple camera angles recorded on the DVD disc.

■ **Zoom function**
You can view scenes close-up.

■ **Parental lock***
You can restrict the playback of DVD discs with scenes which you do not want your child to see, such as adult or violent films.

■ **Theater position**
You can select the picture character according to the lighting of your room.

Audio functions

■ **High quality digital sound**
You can enjoy high quality sound with Dolby Digital or Linear-PCM.

■ **Surround function***
The unit is compatible with Dolby Digital surround and DTS surround.
(DTS surround is available for digital output only.)

■ **3D Phonic function**
You can enjoy surround sound with your 2-channel system.

Other functions

■ **Multi-language subtitles and sound***
You can select a subtitle or sound language from those recorded on the DVD disc.

■ **Multi-disc playback**
You can enjoy Audio CD discs and Video CD discs, as well as DVD discs.

■ **Operation from the on-screen display**
User-friendly on-screen displays allow you to operate the unit easily.

Functions with (*) mark only work on a DVD disc that is compatible with each function.

Supplied accessories

• Audio/video cable (x 1)

• S-video cable (x 1)

• AV compulink cord (x 1)
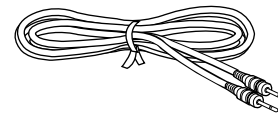
• Remote Control Unit (x 1)
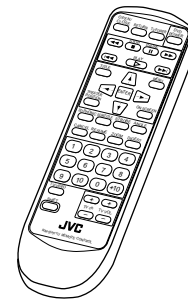
AC Plug Adaptor (x1)
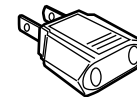
• R6P(SUM-3)/AA(15F) batteries (x 2)
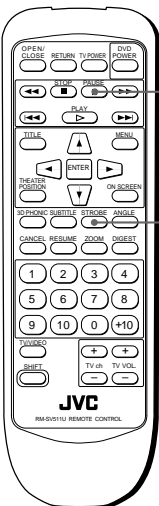
• Instruction manual (x 1)

1
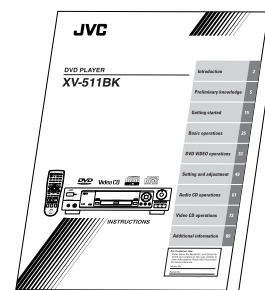
About this instruction manual

This instruction manual basically explains operations as follows:

To display still pictures [STROBE]

DVD **Video CD**

These symbols indicate the types of discs which the operation can be used for.

1

2

The number indicates the following procedural step(s) in which the button(s) is(are) used.
You may also use the corresponding buttons on the front panel of the unit if available.

■ During playback

The number indicates the procedural step.

1 At the point you want to view as continuous photographs, press PAUSE.

The unit pauses playback.

The names of buttons on the remote control unit (or on the front panel of the unit) are all given in uppercase letters.

2 Press STROBE.

Nine continuous still pictures appear on the TV screen.

Other convenient procedures, etc.

Hints
• Pressing PAUSE when the nine still pictures appear advances to the next nine still pictures.

• **To cancel strobe play**
  Press STROBE.

NOTES
• Pressing and holding PAUSE for more than 1 second also activates the Strobe function.
• If you press STROBE during playback, nine still pictures also appear but they advance in realtime.

Additional supplemental remarks

Notes on handling

Important cautions

Installation of the unit
- Select a place which is level, dry and neither too hot nor too cold (between 5˚C and 35˚C, 41˚F and 95˚F).
- Leave sufficient distance between the unit and the TV.
- Do not use the player in a place subject to vibrations.

Power cord
- Do not handle the power cord with wet hands!
- A small amount of power (2 watts) is always consumed while the power cord is connected to the wall outlet.
- When unplugging the player from the wall outlet, always pull the plug, not the power cord.

To prevent malfunction of the unit
- There are no user-serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the unit.
- Do not use any non-standard shape disc available on the market, because it may damage the unit.
- Do not use a disc with tape, seals, or paste on it, because damage to the unit may result.

Note about copyright laws
- Please check the copyright laws in your country before recording from DVD VIDEO, Audio CD, and Video CD discs. Recording of copyrighted material may infringe copyright laws.

Note about the copyguard system
- The DVD VIDEO disc is protected by the copyguard system. When you connect the unit to your VCR directly, the copyguard system activates and the picture may not be played back correctly.

Safety precautions

Avoid moisture, water and dust
Do not place your player in moist or dusty places.

Avoid high temperatures
Do not expose the unit to direct sunlight or place it near a heating device.

When you're away
When away on travel or otherwise for an extended period of time, remove the plug from the wall outlet.

Do not insert foreign objects into the unit
Do not insert wires, hairpins, coins, etc. into the unit.

Do not block the vents
Blocking the vents may damage the unit.

Care of the cabinet
When cleaning the unit, use a soft cloth and follow the relevant instructions on the use of chemically-coated cloths. Do not use benzene, thinner or other organic solvents and disinfectants. These may cause deformation or discoloring.

If water gets inside the unit
Turn off the power switch and remove the plug from the wall outlet, then call the store where you made your purchase. Using the unit in this state may cause a fire or electrical shock.

Names of parts and controls

Refer to the corresponding pages indicated in () for details.

Front panel

② **STANDBY indicator**   ③ **3D PHONIC button**   ⑥ ▷**(PLAY) button**   ⑨ **SHUTTLE knob**
① **POWER button**   ④ **Remote sensor** ⑤ **Display window** ⑦ ■**(STOP) button** ⑧ II**(PAUSE) button**

⑩ |◀◀ ▶▶| **(SKIP) buttons**

⑫ **Disc tray**   ⑪ ▲ **(OPEN/CLOSE) button**

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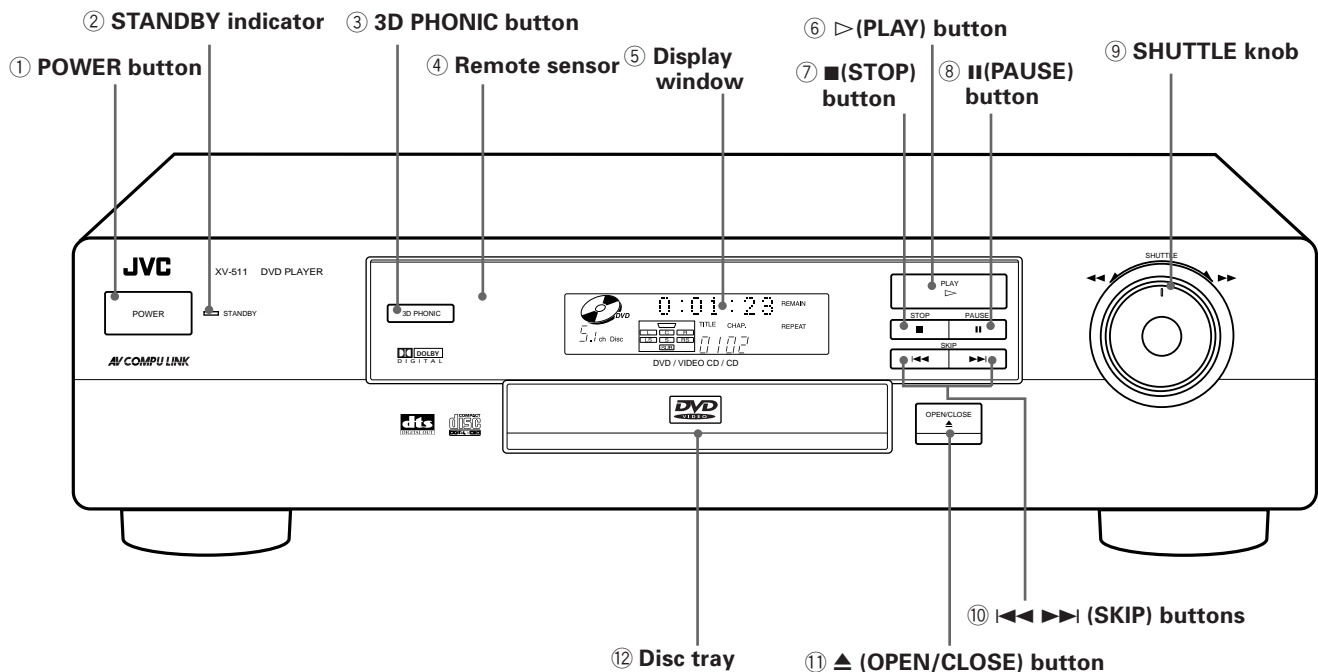
① **POWER button (17)**
Turns the unit on or off (standby).

② **STANDBY indicator**
Lights when the power cord is connected and the unit is on standby. When the unit is turned on, the STANDBY indicator goes off.

③ **3D PHONIC button (32)**
Produces a simulated surround effect.

④ **Remote sensor**
Receives the signal from the remote control unit.

⑤ **Display window**
Indicates the current status of the unit.

⑥ ▷ **(PLAY) button (18)**
Starts playback. Also, used as a SELECT button for PBC of Video CDs.

⑦ ■ **(STOP) button (18)**
Stops playback.

⑧ II **(PAUSE) button (18)**
Pauses playback.

⑨ **SHUTTLE knob (18)**
Performs rapid advance/reverse playback operations. Also used for slow-motion playback of a picture (for DVD/Video CD).

⑩ |◀◀ ▶▶| **(SKIP) buttons (19)**
Performs skipping a chapter, title or track.
Also used for the page selection of a menu screen (for DVD).

⑪ ▲ **(OPEN/CLOSE) button (17)**
Opens and closes the disc tray.

⑫ **Disc tray (17)**
Used to load discs.

Preliminary Knowledge

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Remote control unit

⑯ **Infrared signal-emitting window**

⑰ **TV POWER button**

⑱ **DVD POWER button**

① **RETURN button**

② **OPEN/CLOSE button**

OPEN/
CLOSE   RETURN   TV POWER

DVD
POWE

③ **►► button**

STOP   PAUSE

③ **◄◄ button**

④ **■(STOP) button**

⑲ **Ⅱ(PAUSE) button**

PLAY

⑤ **Ⅰ◄◄ button**

⑤ **►►Ⅰ button**

TITLE   MENU

⑳ **▷(PLAY) button**

⑥ **TITLE button**

ENTER

⑦ **▲/▼/►/◄ (Cursor)
buttons**

㉑ **MENU button**

㉒ **ENTER button**

THEATER
POSITION   ON SCREEN

⑧ **THEATER POSITION button**

㉓ **ON SCREEN button**

3D PHONIC   SUBTITLE   STROBE   ANGLE

⑨ **3D PHONIC button**

⑩ **SUBTITLE button**

㉔ **STROBE button**

CANCEL   RESUME   ZOOM   DIGEST

㉕ **ANGLE button**

⑪ **CANCEL button**

㉖ **DIGEST button**

⑫ **RESUME button**

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

㉗ **ZOOM button**

⑬ **Numeric buttons**

⑭ **TV/VIDEO button**

TV/VIDEO

+   +

⑮ **SHIFT button**

TV ch   TV VOL.

㉘ **TV VOL buttons**

SHIFT   −   −

㉙ **TV ch buttons**

JVC

RM-SV511U REMOTE CONTROL

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① **RETURN button (for DVD/Video CD) (20)**
Returns to the previous menu.

② **OPEN/CLOSE button (17)**
Opens and closes the disc tray.

③ **◄◄/►► buttons (18)**
Performs rapid advance/reverse playback operations. Also used for slow-motion playback of a picture (for DVD/ Video CD).

④ **■ (STOP) button (18)**
Stops playback.
Also used to erase all the programmed tracks for the program play (for Audio CD/Video CD).

⑤ **I◄◄ ►►I buttons (19)**
Performs skipping a chapter, title or track.
Also used for the page selection of a menu screen (for DVD/Video CD).

⑥ **TITLE button (20)**
Displays a title menu of DVD on the TV screen or monitor.

⑦ **▲/▼/►/◄ (Cursor) buttons**
Used to select an item from a menu or on-screen display, or to change the setting of an item in the on-screen display, etc.

⑧ **THEATER POSITION button (32)**
Selects a picture character from 4 settings.

⑨ **3D PHONIC button (32)**
Produces a simulated surround effect.

⑩ **SUBTITLE button (for DVD) (30)**
Turns subtitles on or off.

⑪ **CANCEL button (26)**
Cancels the previous settings.

⑫ **RESUME button (19)**
Stores the location to resume playback from later.

⑬ **Numeric buttons (10)**
Mainly used to select a title/track number, or a TV channel. Also used to enter a time for the Time search and a chapter number for the Chapter search.

⑭ **TV/VIDEO button (16)**
Switches the TV input mode.

⑮ **SHIFT button (16)**
When pressing and holding this button, the numeric keys (0 - 9) select the TV channels. Also used to display the PARENTAL LOCK display.

⑯ **Infrared signal-emitting window**
Point this window toward the remote sensor on the front panel when pressing buttons.

⑰ **TV POWER button (16)**
Turns the TV on or off.

⑱ **DVD POWER button (17)**
Turns the unit on or off (standby).

⑲ **II (PAUSE) button (18)**
Pauses playback.

⑳ **▷ (PLAY) button (18)**
Starts playback.
Also used as a SELECT button for PBC of Video CDs.

㉑ **MENU button (for DVD) (20)**
Displays a DVD menu on the TV screen or monitor.

㉒ **ENTER button**
Executes the selected item in a menu or on-screen display when pressing the button.

㉓ **ON SCREEN button (8)**
Displays an on-screen display of the unit on the TV screen or monitor.

㉔ **STROBE button (for DVD/Video CD) (24)**
Displays nine continuous still pictures (for DVD/Video CD).

㉕ **ANGLE button (for DVD) (29)**
Changes camera angles during playback of a DVD containing multiple camera angles.

㉖ **DIGEST button (for DVD/Video CD) (23)**
Displays beginning scenes of each title, chapter, or track on the TV screen.

㉗ **ZOOM button (for DVD/Video CD) (25)**
Zoom-in for a close-up view of the scene.

㉘ **TV VOL buttons (16)**
Adjust the TV volume.

㉙ **TV ch buttons (16)**
Changes the TV channels.

Preliminary Knowledge

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Display window

Preliminary Knowledge

① **Disc indicator**
② **Multi-information window**
③ **Time selection indicator**
④ **Function indicator**

⑥ **Linear PCM indicator**
⑦ **Speaker indicator**
⑧ **Chapter, title, track indicator**
⑨ **Resume indicator**
⑤ **Channel indicator**
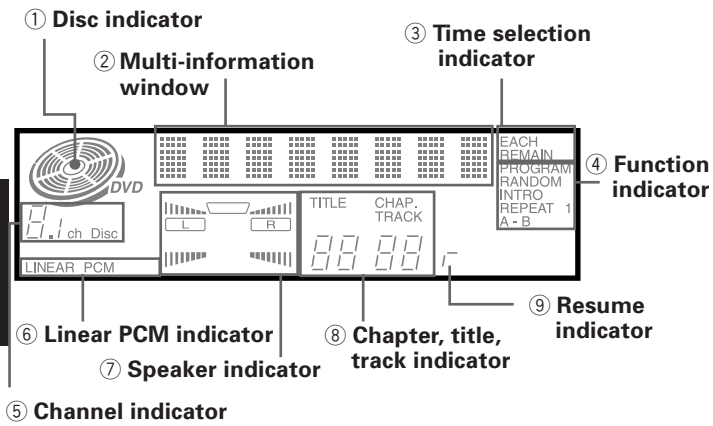
① **Disc indicator**
Lights when a disc is in the unit. "DVD" also appears when a DVD disc is in the unit.

② **Multi-information window**
Displays time and status information.

③ **Time selection indicator**
Shows what the time information in the Multi-information window means.

④ **Function indicator**
Activated function indicators light up.

⑤ **Channel indicator**
Displays number of channels in the currently selected audio playback format.

⑥ **Linear PCM indicator**
Lights only when the playback disc contains linear PCM data. This indicator also lights while an Audio CD is placed in the unit.

⑦ **Speaker indicator**
Lights during disc playbak. ⎯ lights when signals are output from the video output jacks. When the 3D PHONIC function is ON, also lights.

⑧ **Chapter, title, track indicator**
Displays chapter, title, or track number.

⑨ **Resume indicator**
Lights when the "RESUME" position is stored.

Rear panel

⑦ **VIDEO OUT jack**
⑥ **S-VIDEO OUT jack**
④ **COMPONENT VIDEO OUT jacks (Y/PB/PR)**
③ **AV COMPU LINK jacks**
① **AC power cord**

② **AUDIO OUT jacks (LEFT/RIGHT)**
⑤ **DIGITAL OUT jack (OPTICAL)**
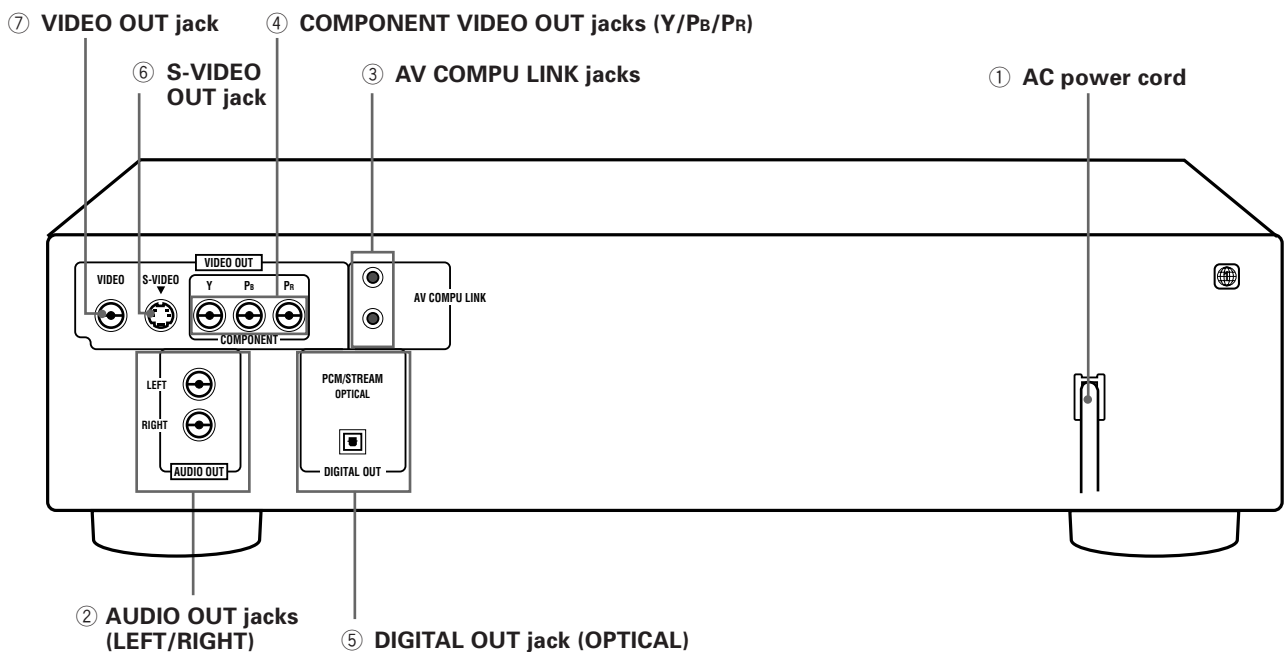
① **AC power cord (14)**
Connects to the wall outlet.

② **AUDIO OUT jacks (LEFT/RIGHT) (12)**
Outputs stereo analog audio signals.

③ **AV COMPU LINK jacks (37, 39)**
Connects with other JVC equipment supporting the AV Compulink function to facilitate integrated operations.

④ **COMPONENT VIDEO OUT jacks (Y/PB/PR) (13)**
Outputs component video signals.

⑤ **DIGITAL OUT jack (OPTICAL) (14)**
Outputs digital audio signals. Only an optical connector is provided.

⑥ **S-VIDEO OUT jack (12)**
Outputs an S-video signal.

⑦ **VIDEO OUT jack (12)**
Outputs a composite video signal.

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Operational Principles

On-screen displays

The unit provides several on-screen displays as shown below for choosing preferences for initial settings and functions which are not frequently used.

ENTER

▲/▼/◀/▶

ON SCREEN

Numeric buttons
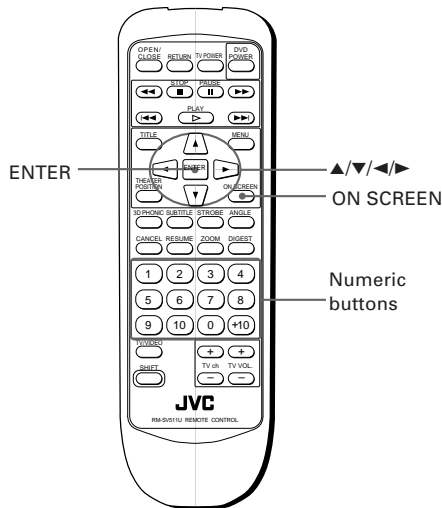
To access on-screen displays

Press ON SCREEN. (Note that operation for accessing the "PARENTAL LOCK" on-screen display is different.) Depending on the type of disc inserted (or "no disc") and the player's mode, proper on-screen display is accessed.

Basic operations in on-screen displays

- appers at the on-screen display. You can move using ▲/▼/▶/◀ cursor buttons to select items you want to work with.
- With an item like ◁ 1 / 3 ▷ , you can change the setting by using the ◀/▶ cursor buttons when is on the item.
- REPEAT - type item works when you place on the item and press ENTER.
- In the message box, the operation to be performed is displayed according to the item pointed by .
- Numbers are entered using the numeric buttons.
- Some functions become effective by pressing ENTER after specifying necessary entries.
- Pressing ON SCREEN again exits the on-screen display.

Opening display

An opening display appears automatically (without pressing the ON SCREEN button) in some conditions.
The display shown on the left appears when the unit turns on with no disc inserted.
One of the similar displays shown below appears when a corresponding disc is set and stopped. For an Audio CD, the opening display does not disappear even during playback.

JVC
DVD/Video CD/CD PLAYER

for DVD	for Audio CD	for Video CD
JVC DVD/Video CD/CD PLAYER	**JVC** DVD/Video CD/CD PLAYER	**JVC** DVD/Video CD/CD PLAYER
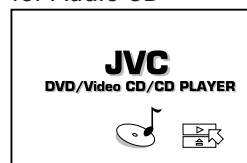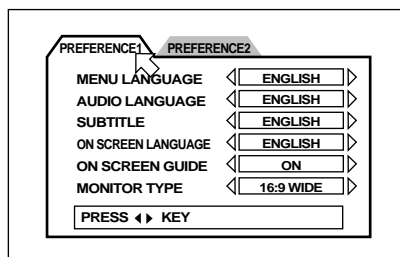
PREFERENCE (1, 2) displays (see page 34)

You can set preferences on these displays.

To display the PREFERENCE display

When a DVD disc is set and stopped or no disc is inserted, press ON SCREEN.

PREFERENCE1 / PREFERENCE2

MENU LANGUAGE	◁ ENGLISH ▷
AUDIO LANGUAGE	◁ ENGLISH ▷
SUBTITLE	◁ ENGLISH ▷
ON SCREEN LANGUAGE	◁ ENGLISH ▷
ON SCREEN GUIDE	◁ ON ▷
MONITOR TYPE	◁ 16:9 WIDE ▷

PRESS ◀▶ KEY

PREFERENCE1 / PREFERENCE2

DIGITAL AUDIO OUTPUT	◁ STREAM/PCM ▷
DOWN MIX	◁ Lt / Rt ▷
COMPRESSION	◁ OFF ▷
SCREEN SAVER	◁ MODE1 ▷
AV COMPULINK MODE	◁ DVD1 ▷
AUTO STANDBY	◁ OFF ▷

PRESS ◀▶ KEY

Preliminary Knowledge

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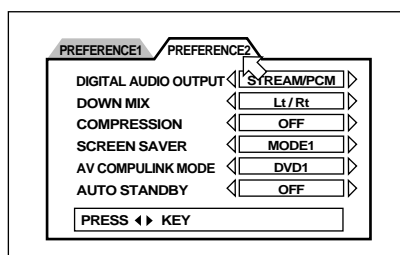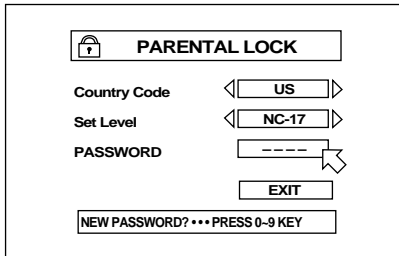
PARENTAL LOCK display (see page 37)

You can set the parental lock from this display.

To display the PARENTAL LOCK display

Press ENTER while holding down SHIFT.
The Parental Lock on-screen display appears on the TV screen.

```
        🔒  PARENTAL LOCK

Country Code      ◁   US   ▷
Set Level         ◁  NC-17 ▷
PASSWORD             ----

                     EXIT

NEW PASSWORD? ••• PRESS 0~9 KEY
```
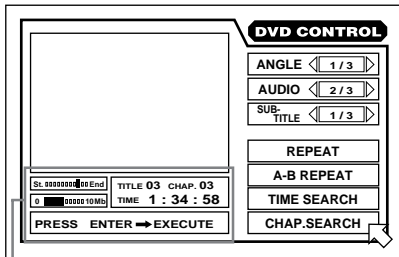
DVD CONTROL display

You can select and set various functions for DVD playback from this display.
This display appears only during DVD playback.

To display the DVD CONTROL display

During DVD playback, press ON SCREEN.

```
                    DVD CONTROL

                  ANGLE  ◁  1 / 3  ▷
                  AUDIO  ◁  2 / 3  ▷
                  SUB-   ◁  1 / 3  ▷
                  TITLE

                       REPEAT
St.□□□□□□□□End  TITLE 03  CHAP. 03
0 ■□□□□□10Mb  TIME  1 : 34 : 58
PRESS ENTER➡EXECUTE     A-B REPEAT
                     TIME SEARCH
                     CHAP.SEARCH
```

Current relative position of the title (St: start, End: end)

Current title number

Current chapter number

```
St.□□□□□□□□End   TITLE 03   CHAP. 03
0 ■□□□□□10Mb    TIME  1 : 34 : 58
```

Transmission rate

Elapsed time from the beginning of the current title
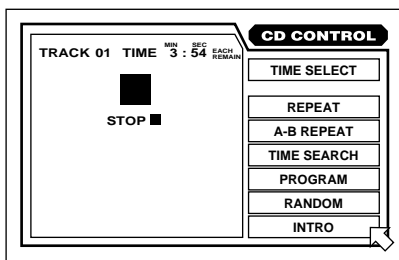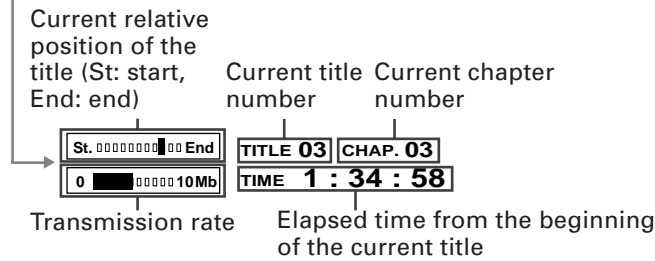
CD CONTROL display

You can select and set various functions for Audio CD playback from this display.

To display the CD CONTROL display

Whenever an Audio CD is inserted, press ON SCREEN.

```
                         CD CONTROL
              MIN  SEC
TRACK 01 TIME  3 : 54 EACH
                      REMAIN       TIME SELECT

       ■                            REPEAT
                                   A-B REPEAT
      STOP ■                       TIME SEARCH
                                    PROGRAM
                                    RANDOM
                                     INTRO
```
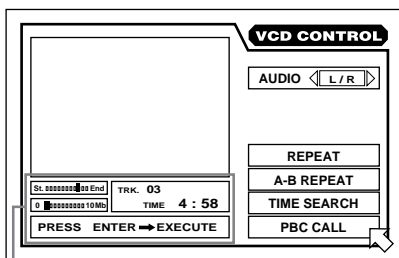
VCD CONTROL display

There are two types of VCD CONTROL display. The display shown on the left appears only during Video CD playback.
When a Video CD disc is stopped, a display similar to the CD CONTROL display shown above appears.

To display the VCD CONTROL display

When a Video CD is inserted, press ON SCREEN.

```
                      VCD CONTROL

                  AUDIO  ◁  L / R  ▷

                       REPEAT
St.□□□□□□□□End  TRK.  03           A-B REPEAT
0 ■□□□□□10Mb       TIME  4 : 58   TIME SEARCH
PRESS ENTER➡EXECUTE    PBC CALL
```

Current relative position of the track
(St: start, End: end)

Current track number

```
St.□□□□□□□□End   TRK.   03
0 ■□□□□□□□10Mb   TIME   4 : 58
```

Transmission rate

Elapsed time from the beginning of the current track

9
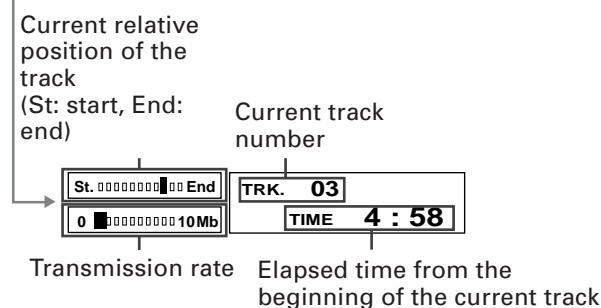
To prevent the monitor from burning out [SCREEN SAVER]
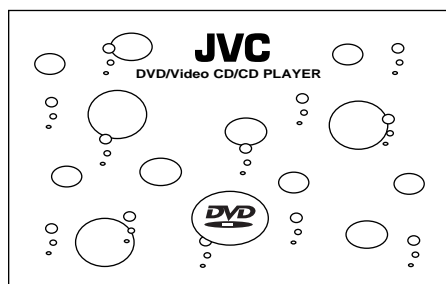
A television monitor screen may be burned out if a static picture is displayed for a long time. To prevent this, the unit automatically activates the screen saver function if a static picture, such as an on-screen display or menu, is displayed for over 5 minutes.

• Pressing any button on the unit or the remote control unit will release the screen saver function and return to the previous display.
• You can select one of several screen saver modes available (see page 36).

On-screen guide icons

During DVD playback, you may see icons displayed over the picture. These have the following meanings.

: Displayed at the beginning of a scene recorded from multiple angles. (See page 29.)

: Displayed at the beginning of a scene recorded with multiple audio languages. (See page 31.)

: Displayed at the beginning of a scene recorded with multiple subtitle languages. (See page 30.)

You can set the unit not to display on-screen icons above via the preference settings described on page 35.

About invalid operation icon

When you press a button, if the unit does not accept its operation, ⃠ appears on your television screen. Operations are occasionally unacceptable even if ⃠ is not displayed.

Note that some operations may not be accepted. For example, some discs may not allow rapid advance/reverse or slow-motion playback.

How to use numeric buttons

To select a track/title number

• **To select a number between 1 and 10**

  Press the corresponding button for the number.

• **To select a number higher than 10**

  Use the +10 button.

  Examples:
  To select 13   +10 → 3
  To select 34   +10 → +10 → +10 → 4
  To select 40   +10 → +10 → +10 → 10

To enter a time or chapter number

The method for entering a time for Time search or chapter number for Chapter search is different from above. See the corresponding sections in this manual for the details.

To select a TV channel.

Press the corresponding numeric buttons (between 0 and 9) while holding down the SHIFT button.

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About discs

Playable disc types

Playable and non-playable disc types are as follows:

Playable discs	Non-playable discs
DVD VIDEO	DVD-ROM
	DVD-RAM
	DVD Audio
Video CD	DVD-R
	DVD-RW
	CD-G
Audio CD	CD-R
	CD-ROM
	PHOTO CD
	CD-RW
	CD-EXTRA

The DVD Logo is a trademark.

Notes on DVD VIDEO discs
- DVD players and DVD discs have their own Region Code numbers. This unit only can play back DVD discs whose Region Code numbers include "1."
  Examples of playable DVD discs:

- This unit is designed to use the NTSC system. The unit cannot playback the disc recorded on the PAL system.
- Playing back discs listed as "Non-playable discs" in the table above may generate noise and damage speakers.

> **NOTE**
> - With some DVD and Video CD discs, you may not be able to control them according to the instructions described in this manual because of the contents of the disc.

Disc structure

A DVD disc is comprised of "titles," while an Audio CD or Video CD is comprised of "tracks." Each title may be divided into some "chapters." For example, if a DVD disc contains some movies, each movie may have its own title number, and each movie may be divided into some chapters. In a DVD karaoke disc, each song usually has its own title number and does not have chapters. In general, each title has independent content, while each chapter in the same title has continuity.

(Example: DVD disc)

Title 1			Title 2	
Chapter 1	Chapter 2	Chapter 3	Chapter 1	Chapter 2
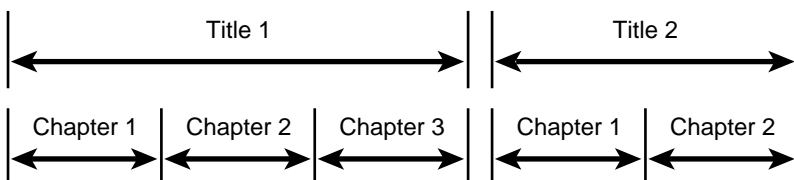
(Example: Audio CD/Video CD)

Track 1	Track 2	Track 3	Track 4

11
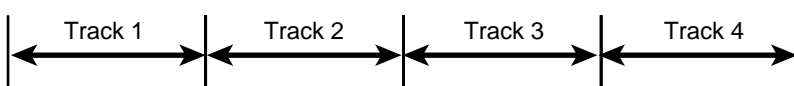
Connections

*In the following despription, "TV" may be substituted with "monitor" or "projector."
*Before using the unit, you have to connect the unit to a TV and/or amplifier.

Before making any connections

- **Do not connect the AC power cord until all other connections have been made.**
- Since different components often have different terminal names, carefully read the instructions supplied with the component you are going to connect.

To connect to a TV

You can enjoy using the unit by simply connecting it to a TV. To improve audio sound quality, connect the audio outputs to your separate audio equipment. (See the following pages.)

The unit

VIDEO OUT
VIDEO S-VIDEO Y P$_B$ P$_R$
AV COMPU LINK
COMPONENT
LEFT
PCM/STREAM
OPTICAL
RIGHT
AUDIO OUT
DIGITAL OUT

S-video cable
(supplied)

TV

IN
S-VIDEO
VIDEO
LEFT
AUDIO
RIGHT

Yellow   White

Red

Yellow
White
Red

Audio/video cable
(supplied)
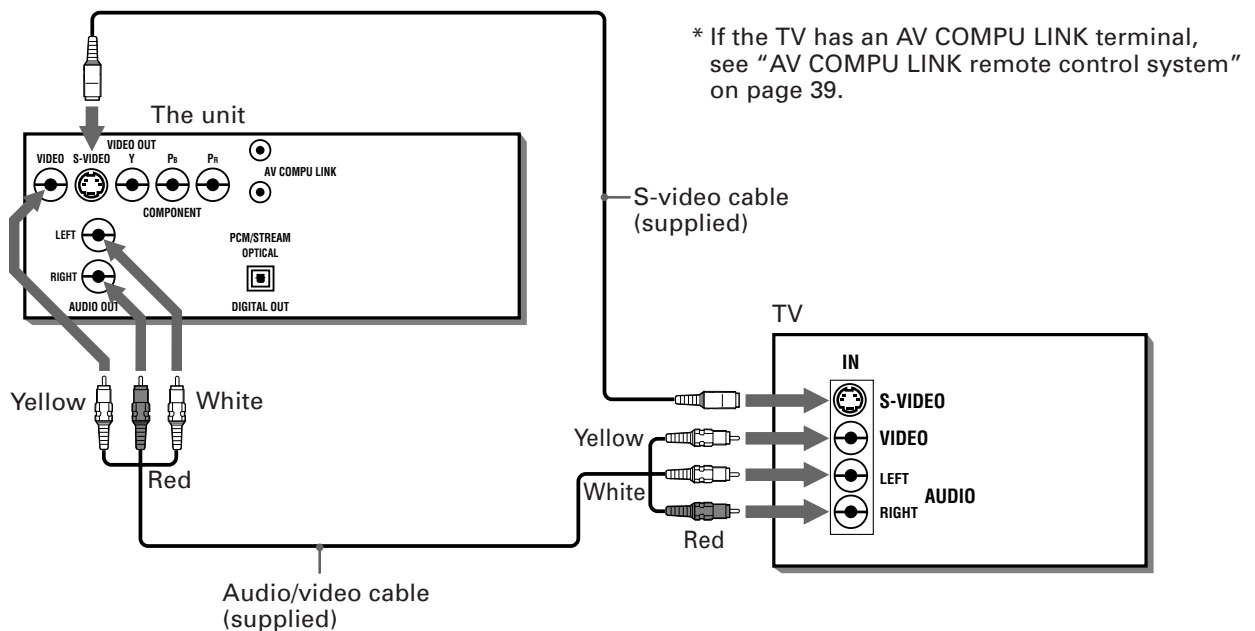
Connect the unit to a TV equipped with stereo audio input and video input jacks using the supplied audio/video cables.

- If your TV has a monaural audio input instead of stereo, you need to use an optional audio cable which converts stereo audio output to monaural.
- If your TV has an S-video input, you should connect it with the S-VIDEO output of the unit using the supplied S-video cable in addition to the (standard) video connection to get better picture quality.

> **NOTE**
> - **Connect VIDEO OUT of the unit directly to the video input of your TV. Connecting VIDEO OUT of the unit to a TV via a VCR may cause a monitor problem when playing back a copy-protected disc.**

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To connect to a TV with the component video input jacks

You can enjoy high picture quality by connecting the unit's COMPONENT VIDEO OUT jacks to the COMPONENT VIDEO IN jacks of your TV with the video cables.
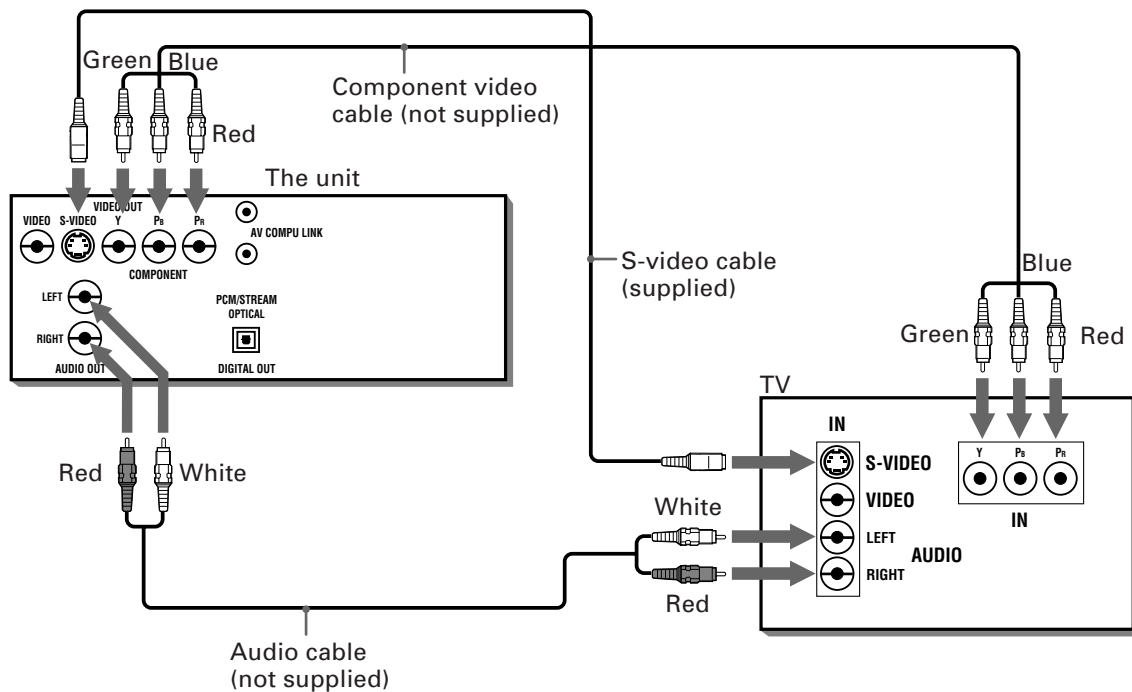
• Connect "Y" to "Y," "P_B" to "P_B," "P_R" to "P_R" correctly.

> **NOTES**
> • **When the component video input jacks of the TV is of the BNC type, use an adapter to convert a pin jack to a BNC jack (optional).**
> • **If you do not connect the unit with the S-video cable, some functions of your TV may not work.**

To connect to an audio amplifier or receiver

You can enjoy high-quality audio by connecting the unit's audio output to your amplifier or receiver.
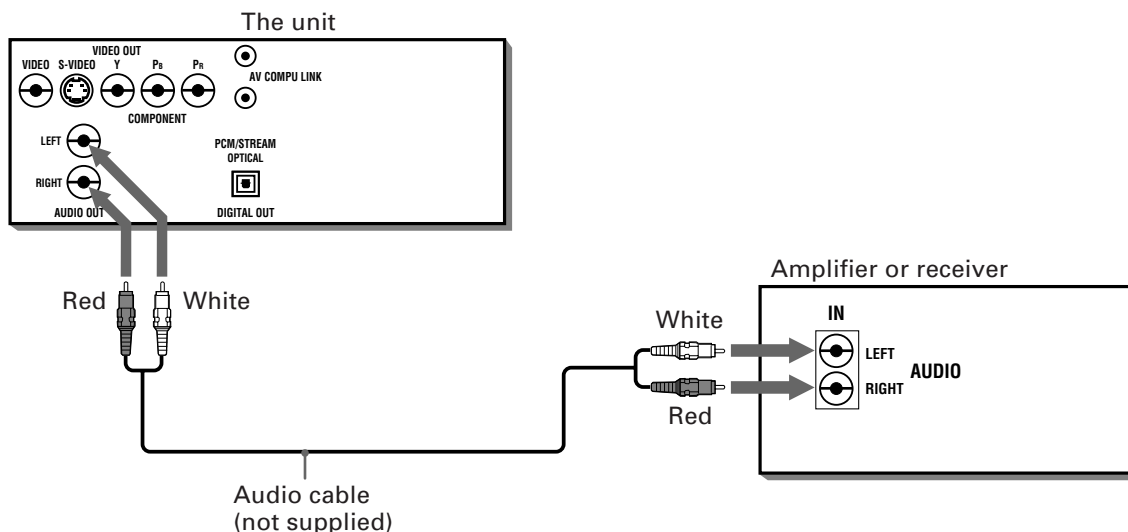
• Connect the unit's AUDIO OUT to any line-level inputs (such as AUX, DVD, CD, etc.) of an audio amplifier or receiver.

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To connect to audio equipment with a digital input

You can enhance the sound quality by connecting the unit's DIGITAL OUT (optical) to the digital input of an amplifier, DAT or MD by using an optional digital cable. The digital stereo audio signal from a disc is directly transferred. If you connect the unit to a Dolby Digital or DTS decoder or an amplifier with a built-in decoder by using an optional digital cable, you can enjoy high-quality surround sound.
When you make the digital connection, also make the analog connection, because, depending on the disc type, no audio may be reproduced from the DIGITAL OUT.
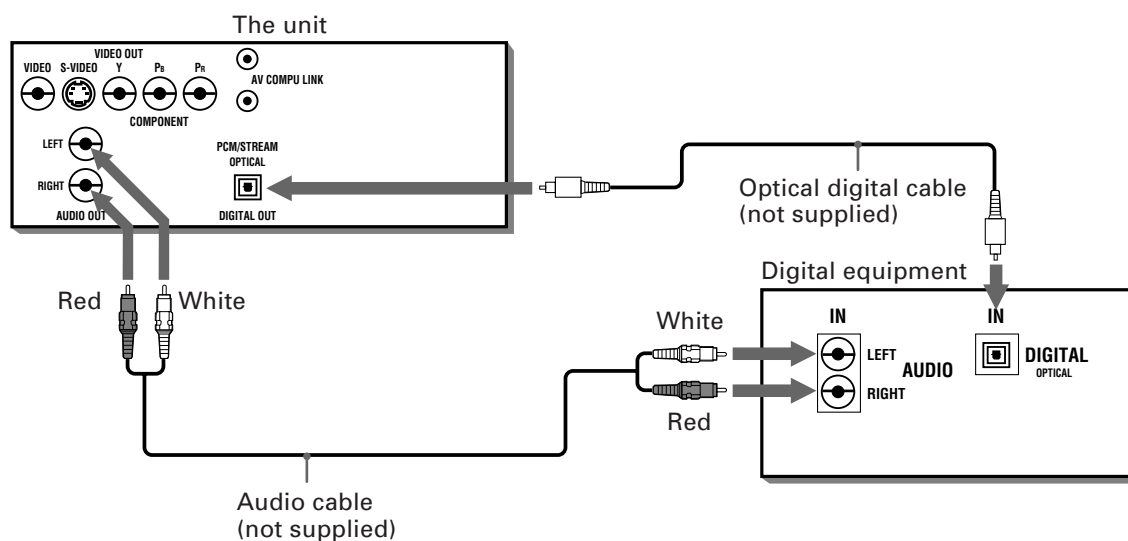
• For digital connection, connect the unit's DIGITAL OUT (optical) to the digital input of an audio equipment using an optional digital cable.

NOTES

• **When you connect the unit's DIGITAL OUT to digital audio equipment, before using, make the "DIGITAL AUDIO OUTPUT" setting in the "PREFERENCE 2" on-screen display correctly according to the connected audio equipment. If the "DIGITAL AUDIO OUTPUT" is not set correctly, loud noise may be generated from speakers, causing damage to your speakers. See "DIGITAL AUDIO OUTPUT" on page 35.**

• **With the digital connection, the unit's settings for COMPRESSION and DOWN MIX are invalid. Settings for these items must be made from the decoder.**

To connect the power cord

When all the connections have been made, insert the power plug into the wall outlet firmly. The STANDBY indicator lights and setup is completed.

⚠ Warning

• Disconnect the power cord if you are not going to use the unit for a long time.
• Disconnect the power cord before cleaning the unit.
• Disconnect the power cord before moving the unit.
• Do not connect or disconnect the power cord with wet hands.
• Do not pull the power cord when disconnecting it, as this may damage the cord and cause fire, electric shock, or other accidents.

⚠ Caution

• Do not damage, alter, twist, or pull the power cord, as this may cause fire, electric shock, or other accidents.
• Contact a dealer and get a new power cord if the cord is damaged. A damaged cord may cause fire, electric shock, or other accidents.
• Do not put anything heavy, or the unit, on the power cord, as this may cause fire, electric shock, or other accidents.

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Using the remote control unit

Using the remote control, you can operate not only all the functions of the unit but also basic functions of your TV.

To install batteries in the remote control unit

The battery compartment is located on the back of the remote control unit.

1 Press down on the point shown by the arrow at the top of the compartment cover, and pull up the cover to open the compartment.
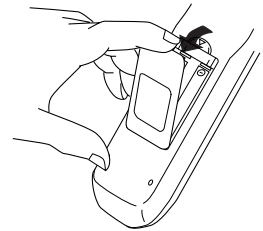
2 Place the two accessory R6P (SUM-3)/AA(15F) batteries in the remote control according to the polarity markings ("+" and "−") inside the compartment and on the batteries.
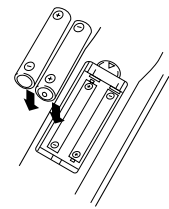
3 Place the cover over the compartment, and press down lightly.
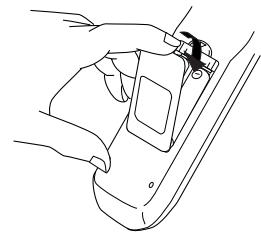
• The batteries will last about six months with normal use. If the functions of the remote control become erratic, replace the batteries. See below for more information.

Precautions for the safe use of batteries

Observe the following precautions for the safe use of batteries. If they are used improperly their life will be shortened, they may burst or their contents may leak.

┌─ **Precaution** ───┐
- **Remove the batteries from the remote control if it is not going to be used for a long period of time**.
- **Remove dead batteries and dispose of them properly.**
- **Never leave dead batteries lying around, take them apart, mix them with other refuse, or throw them into an incinerator.**
- **Never touch liquid that has leaked out of a battery.**
- **Do not mix new and old batteries, or batteries of different types, when replacing them**.
└──┘

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To use the remote control unit for TV operation

You can operate your TV from the remote control unit.

Setting the remote control signal for operating your TV.

1 Holding down TV/VIDEO, enter the manufacturer code of your TV listed below by using the numeric buttons (0 - 9). Do not release TV/VIDEO. Keep holding it until the next step is completed.

Manufacturer code list
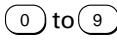
No.	Manufacturer
01	JVC
02	MAGNAVOX
03	MITSUBISHI
04	PANASONIC
05	RCA
06	SHARP
07	SONY
08	TOSHIBA
09	ZENITH
10	HITACHI
11	PANASONIC
12	SAMSUNG
13	SANYO
14	SANYO
15	SAMSUNG

Example:
To enter the manufacturer code "01":
Press "0" then "1."

2 Press STOP while holding down TV/VIDEO.

The following buttons can be used for operating the TV:

Button	Function
TV POWER	Turns the TV on or off.
+ TV ch −	Changes the TV channels.
+ TV VOL. −	Adjusts the TV volume.
0 to 9	Selects the TV channels (while holding down the SHIFT button). *For some TVs, pressing "+10" while holding down SHIFT functions as the "+100," and pressing "10" while holding down SHIFT functions as the "RETURN" button.
TV/VIDEO	Switches input mode (either TV or VIDEO).

3 Try to operate your TV by pressing TV POWER.
If your TV turns on or off, you have successfully set the control signal.

NOTE

- **The remote control unit is initially set for operating a JVC TV.**
- **If there is more than one code listed for the manufacturer of your TV, try them one by one until you succeed.**

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Basic operations

In the following description, the buttons on the remote control unit are used, however, you may use the corresponding buttons on the front panel of the unit if available.

Turning on/off the unit

Press POWER on the front panel or press DVD POWER on the remote control unit.

POWER

DVD POWER
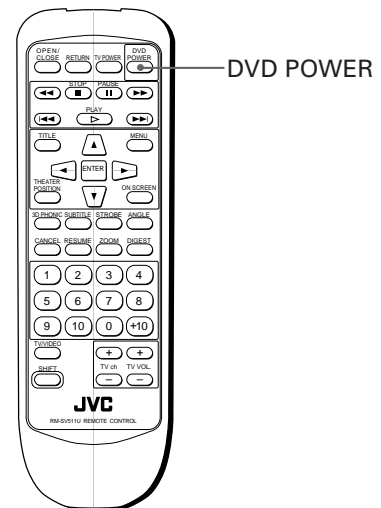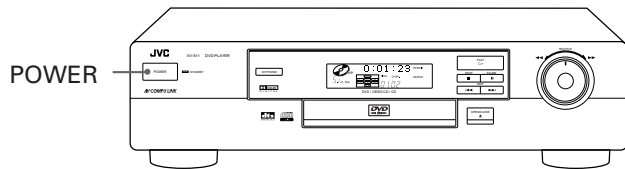
✋Hints

- You can turn on the unit by pressing the PLAY button on the front panel or the Remote control unit. In this operation, the unit starts playback when the disc is set. If no disc is set, the disc tray opens.
- You can also turn on the unit by pressing the OPEN/CLOSE button on the front panel or the remote control unit. In this case, the disc tray opens.

NOTE

- **Even if you press the POWER or DVD POWER button to turn off the unit, the unit is not disconnected from the AC power source as long as it is connected to the wall outlet. This state is called the standby mode. In this state, the unit is designed to consume a very small quantity of power.**

Inserting and removing discs

1 Press OPEN/CLOSE to open the disc tray.

2 Place the disc in the tray.

With the label side up
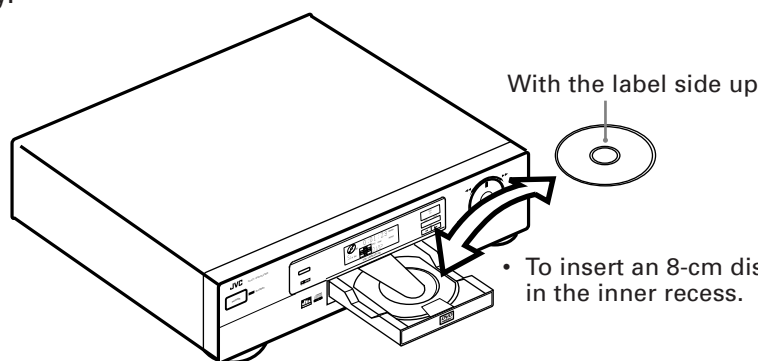
- To insert an 8-cm disc, place it in the inner recess.

3 Press OPEN/CLOSE to close the disc tray.

✋Hints

You can also open and close the disc tray from the opening on-screen display.

Use CURSOR ▲/▼ to move ⬦ to ⏏, then press ENTER to open or close the disc tray.

NOTES

- **The unit can playback DVD VIDEO, Audio CD, and Video CD discs only. Do not load other disc types. For details about playable disc types, see page 11.**
- **When loading a disc in the tray, be sure to position the disc inside the recess. Otherwise, the disc may be damaged when the tray is closed, and the disc may not be removed from the unit.**
- **Do not use any stabilizer when playing back a disc.**

Basic operations

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Basic playback

Now you can play a disc. First, let's enjoy simple playback according to following procedure.

To play a disc from the beginning

`DVD` `Audio CD` `Video CD`

Press PLAY.

The unit starts playback from the beginning.

┌─ **NOTES** ─────────────────────────────────────┐

• With Video CD discs with PBC control or some DVD discs, the menu display may appear on the TV screen after pressing PLAY. In such a case, select an item to be played back from the menu.

For operation using a menu, see page 20.

• With some DVD discs, the unit starts playback automatically after inserting the disc.

└──┘
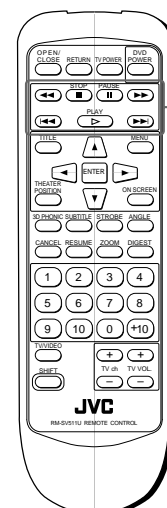
Basic control buttons

To stop playback completely

`DVD` `Audio CD` `Video CD`

Press STOP.

The unit stops playback.

To stop playback temporarily

`DVD` `Audio CD` `Video CD`

Press PAUSE.

The unit pauses playback. To continue playback, press PLAY.

To advance or reverse play rapidly while monitoring

`DVD` `Audio CD` `Video CD`

■ During playback

From the remote control unit

Press ▶▶ or ◀◀.

Pressing ▶▶ advances playback rapidly, while pressing ◀◀ reverses playback rapidly. Each time you press the button, advance or reverse playback speed increases. To return to normal playback, press PLAY.

From the front panel

Use the SHUTTLE knob.

To advance playback rapidly, turn the shuttle knob to the right and hold, and to reverse play rapidly, turn the shuttle knob to the left and hold. When you release the shuttle knob, the unit returns to normal playback. The playback speed changes according to the amount you turn the shuttle knob.

SHUTTLE knob

Basic operations

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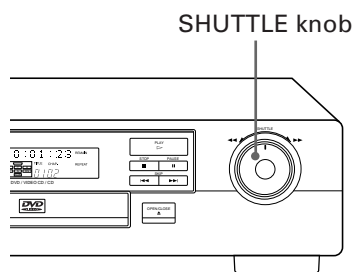
To locate the beginning of the scene or song

`DVD` `Audio CD` `Video CD`

■ During playback

Press ►►I or I◄◄.

Press I◄◄ to locate the beginning of the current chapter, title, or track, and press ►►I to locate the beginning of the next chapter, title, or track.

> **NOTE**
>
> When you play a Video CD disc with the PBC function or a DVD disc, the unit may locate a different place, but it will generally locate the beginning of the title or chapter or track.

Resuming playback

The unit stores the position on a disc where you want to interrupt playback at, and resumes playback from that position later.

To store the point you want to resume playback from

`DVD` `Audio CD` `Video CD`

■ During playback

Press RESUME.

The unit stores the current playback position of the disc, and the Resume indicator in the display window on the front panel lights.

The last stored memory overrides the previous memory.

Display window

RESUME

Resume indicator
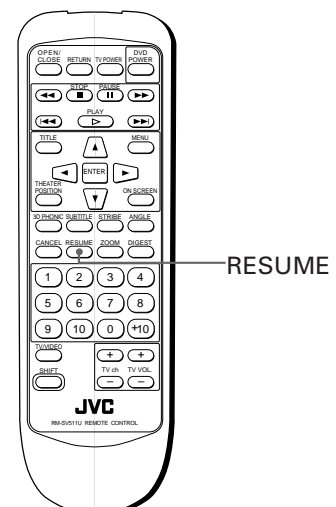
> **Hints**
>
> Instead of pressing RESUME, you can also store the current position on a disc by pressing DVD POWER (on the remote control unit) or POWER (on the front panel of the unit) during playback.

To resume playback from the stored point

`DVD` `Audio CD` `Video CD`

■ While stopped.

Press RESUME.

The unit resumes playback from the stored position.

● **To clear the memory**

Take out the disc from the unit.

> **Hints**
>
> The unit will also resume playback by pressing RESUME during standby mode.

> **NOTE**
>
> • **When you press RESUME during playback of a Video CD disc with PBC function, the unit may resume playback from a point slightly earlier than the resume point you stored.**

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Playing from a specific position on a disc

You can play a disc from the selected track, title or chapter, or from the specified time.

To locate a desired scene from the DVD menu

DVD

DVD discs generally have their own menus which show the disc contents. These menus contain various items such as titles of a movie, names of songs, or artist information, and display them on the TV screen. You can locate a desired scene by using the menu.
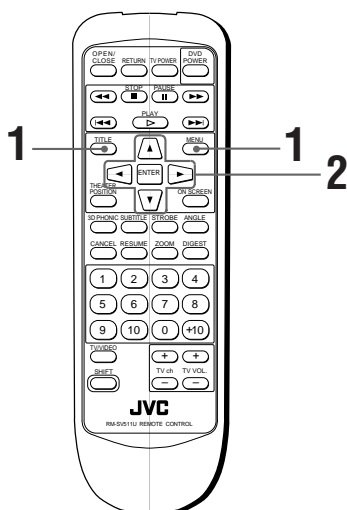
■ Insert the DVD disc.

1 Press MENU or TITLE.

The menu appears on the TV screen.

Hints

About menu

Normally, a DVD disc which contains more than one title may have a "title" menu which lists the titles. In this case, the menu appears on the TV screen by pressing the TITLE button. Some DVD discs may also have a different menu which appears by pressing the MENU button.

See the instructions of each DVD disc for its particular menu.

Example
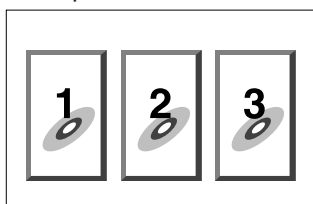
2 Use CURSOR ◄/►/▲/▼ to select a desired item, then press ENTER.

The unit starts playback of the selected item.

Hints

With some discs, you can also select items by entering the corresponding number using the numeric buttons, which may cause the unit to automatically start playback.

NOTES

- **When ⬚ appears on the TV screen by pressing TITLE in step 1:**

  The disc does not have a menu listing the titles.

- **When ⬚ appears on the TV screen by pressing MENU in step 1:**

  The disc does not have a menu.

To locate a desired scene from the menu of the Video CD with PBC

Video CD

Some Video CD discs are compatible with the PBC function. PBC is an abbreviation of "PlayBack Control." A Video CD disc recorded with PBC has its own menus such as a list of the songs of the disc and items recorded on the disc. You can also locate the specific scene by using the menu.
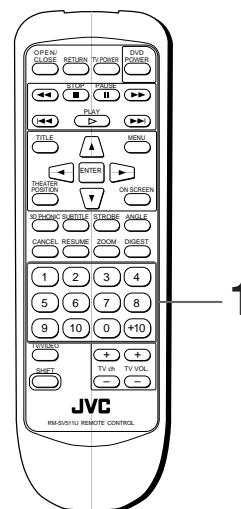
■ When the menu appears on the TV screen during playback with PBC

1 Use the numeric buttons to select the desired number of the item.

Example:
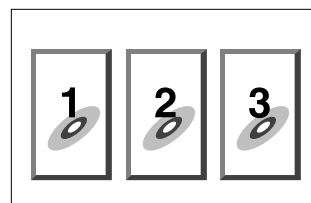
- See page 10 for details about how to use the numeric buttons.

Playback starts from the selected item.

You can return to the menu by pressing RETURN.

When "NEXT" or "PREVIOUS" appears on the TV screen, the unit generally works as follows:

- Pressing ►►| turns to the next page.

- Pressing |◄◄ returns to the previous page.

* The method of the operation is different depending on the disc.

Advanced operations

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• To activate the PBC function when a PBC-compatible Video CD disc is being played back without the PBC function, press STOP then press PLAY.

• You can also activate the PBC function using the on-screen display as follows.

    1. Press ON SCREEN.

    2. Use the ▲/▼ buttons to move ⬦ to [PBC CALL], then press ENTER.

👆Hints

If you want to playback a PBC-compatible Video CD disc without activating the PBC function, start playback by using the numeric buttons instead of the PLAY button. See the next paragraph.

To locate a desired scene or track directly

DVD | Audio CD | Video CD

You can play the desired scene or track by specifying the title (for DVDs) or track (for CDs).
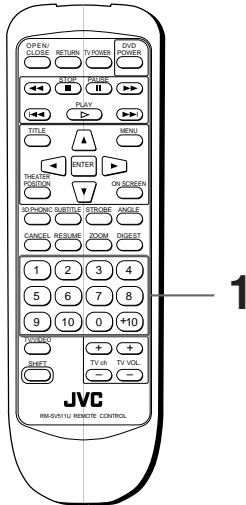
■ For DVD: While stopped
   For Audio CD: During playback or while stopped
   For Video CD: During playback without PBC function or while stopped

1 Use the numeric buttons to select the desired title or track number.

• See page 10 for details about how to use the numeric buttons.

The selected title or track number appears in the display window on the front panel.

Display window
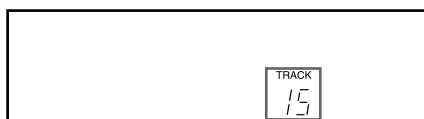
Selected title or track number

The unit starts playback from the selected title or track.

👆Hints

You can also see the selected title or track number on the on-screen display.

NOTES

• **When ⬭ appears on the TV screen.**

The title or track you have selected is not contained in the disc.

• **This function does not work during Video CD playback with PBC function**

To locate a desired chapter or track using ▶▶| or |◀◀
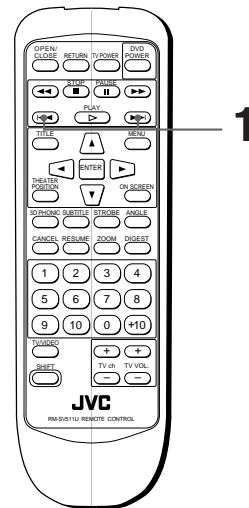
DVD | Audio CD | Video CD

■ For DVD: During playback
   For Audio CD: During playback or while stopped
   For Video CD: During playback without PBC function

Display window

Selected track number

1 Press ▶▶| or |◀◀.

• To skip to a succeeding track, press ▶▶| once or repeatedly until the desired track appears in the display.

• To skip to beginning of the current track, press |◀◀ once.

• To skip to a preceding track, press ▶▶| repeatedly until the desired track appears in the display.

NOTES

• **This function may not work with some DVD discs.**

• **This function does not work during Video CD playback with PBC function**

To locate a desired scene by specifying the chapter number [CHAP. SEARCH]

DVD

If the current title of a DVD disc being played is divided into chapters, you can skip to a desired chapter by specifying the chapter number using the on-screen display.
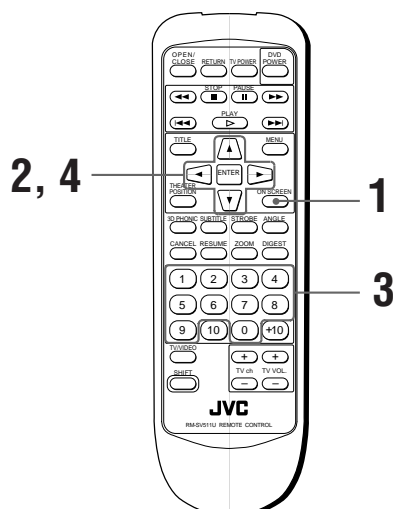
2, 4 ——— **1**

3

■ During playback

1 Press ON SCREEN.

The on-screen display appears on the TV screen.

2 Use CURSOR ▲/▼ to move ⟋⟍ to [CHAP. SEARCH], then press ENTER.

"GO TO CHAPTER" appears in the message area.

The color of [CHAP. SEARCH] changes.

DVD CONTROL
ANGLE ◁ 1/3 ▷
AUDIO ◁ 2/3 ▷
SUB TITLE ◁ 1/3 ▷
REPEAT
A-B REPEAT
TITLE 03 CHAP. 03 / TIME 1 : 34 : 58 — TIME SEARCH
GO TO CHAPTER: — CHAP.SEARCH

Message area

3 Use the numeric buttons (0 ~ 9) to enter the desired chapter number.

The selected chapter number appears in the message area.

4 Press ENTER.

The unit starts playback from the selected chapter.

🖐Hints

The "10" and "+10" buttons are not used in this function.

Example:

To select chapter number 8:   Press "8" → ENTER.

To select chapter number 37: Press "3" → "7" → ENTER.

NOTES

- **When the chapter number is incorrect in step 3:**

  Overwrite the incorrect number with the correct number.

- **When ⊘ is displayed in the TV screen in step 4:**

  The chapter you have selected is not contained in the disc, or chapter search does not work on the disc.

- **With some discs, the unit automatically starts searching for the chapter after entering the chapter number in step 3.**

- **To return to the regular display:**

  Press ON SCREEN.

To locate a desired position by specifying the time [TIME SEARCH]

DVD **Audio CD** **Video CD**

You can play a disc from the the desired position by specifying the elapsed time from the beginning of the disc using the TIME SEARCH function.
Note that some DVD discs do not contain time information, and the TIME SEARCH function cannot be used.
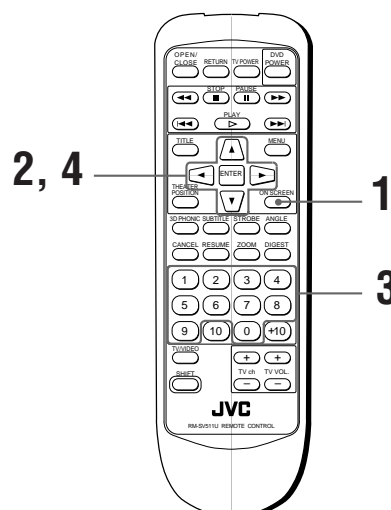
2, 4 ——— **1**

3

■ For DVD: During playback
  For Audio CD: During playback or while stopped
  For Video CD: During playback without PBC function

1 Press ON SCREEN.

The on-screen display appears on the TV screen.

2 Use CURSOR ▲/▼ to move ⟋⟍ to [TIME SEARCH], then press ENTER.

"GO TO" appears in the message area.

The color of [TIME SEARCH] changes.

3 Use the numeric buttons (0 ~ 9) to enter the time.

The specified time appears in the message area.

4 Press ENTER.

The unit starts playback from the selected time.
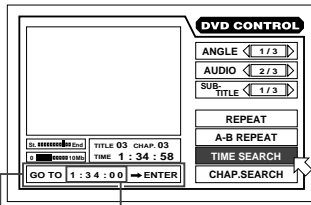
22

(for DVD)

DVD CONTROL

ANGLE ◁ 1 / 3 ▷
AUDIO ◁ 2 / 3 ▷
SUB-TITLE ◁ 1 / 3 ▷
REPEAT
A-B REPEAT
TIME SEARCH
CHAP.SEARCH

St. ▮▮▮▮▮▮▮▮▮▮End TITLE 03 CHAP. 03
0 ▮▮▮▮▮▮▮10Min TIME 1 : 34 : 58
GO TO 1 : 3 4 : 0 0 ➡ ENTER

Message area   Selected time

(for Audio CD)

CD CONTROL

TRACK 01   TIME MIN SEC 3 : 54 EACH REMAIN

PRESS NUMERIC KEY
GO TO MIN SEC 02 : 34

TIME SELECT
REPEAT
A-B REPEAT
TIME SEARCH
PROGRAM
RANDOM
INTRO

Message area   Selected time

Hints
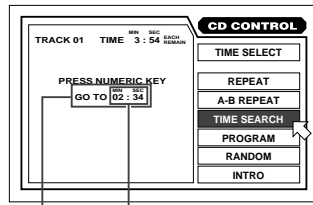
• "10" and "+10" buttons are not used in this function.

• You can specify the time in hour/minute/second format for DVD discs, and in minute/second format for Audio and Video CD discs.

(for Video CD)

VCD CONTROL

AUDIO ◁ L / R ▷

REPEAT
A-B REPEAT
TIME SEARCH
PBC CALL

St. ▮▮▮▮▮▮▮▮▮▮End TRK. 03
0 ▮▮▮▮▮▮▮10Min TIME 4 : 58
GO TO 0 2 : 3 4 ➡ ENTER
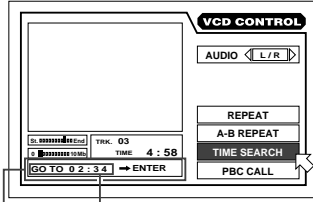
Message area   Selected time

Example (for DVD):

To playback from 2(H):34(M):00(S)

```
GO TO _ :   :
```
↓ Press "2".
```
GO TO 2 : _ :
```
↓ Press "3".
```
GO TO 2 : 3 _ :
```
↓ Press "4".
```
GO TO 2 : 3 4 : _
```
↓
Press ENTER.

You do not have to press "0" to enter the trailing zeros (for the last two digits in the example above). Of course, it is possible to enter them.

• When you make a mistake

Move the cursor to the incorrect value, then press the correct value to re-select the value.

```
GO TO 2 : 3 5 : _
```
↓ Press CURSOR ◀.
```
GO TO 2 : 3 5 :
```
↓ Press "4".
```
GO TO 2 : 3 4 : _
```

NOTES

• **When ⃠ appears on the TV screen in step 2:**

The time you have selected is not contained on the disc, or the time search function does not work on the disc.

Also note that the time search function does not work during Video CD playback with the PBC function.

• **To return to the regular display:**

Press ON SCREEN .

To locate a desired scene from the opening scene digest display [DIGEST]

DVD **Video CD**

The unit can display the opening scene of each title on a DVD or each track of a Video CD. You can select a desired title or track from the opening scenes displayed on the TV screen.

2, 3

1
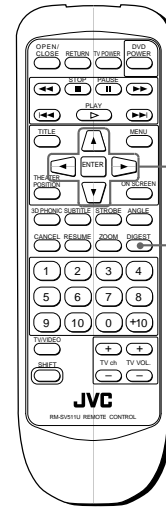
■ For DVD: While stopped
  For Video CD: While stopped or during playback without PBC function.

1 Press DIGEST.

The opening scene of each title or track appears on the TV screen.

Up to nine opening scenes are displayed.

2 Use CURSOR ◀/▶/▲/▼ to select the desired title or track.

When the disc contains more than 9 titles or tracks, the digest screen will have more than one page. In this case, pressing ▶▶| advances to the next page, while pressing |◀◀ returns to the previous page.

Hints

• When the selected title or track is in the lower right-hand corner of the screen, pressing CURSOR ▶ advances to the next page.

• When the selected title or track is in the upper left-hand corner of the screen, pressing CURSOR ◀ returns to the previous page.

Selected title

3 Press ENTER.
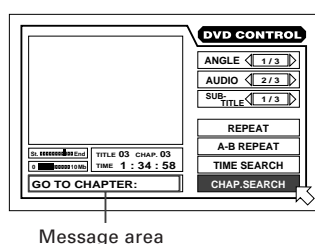
The unit starts playback from the selected title or track.

🖐Hints

When you press DIGEST during DVD playback, the unit displays the opening scene of each chapter and you can select the desired chapter. In this case, opening scenes are displayed from chapter 1. The operation for selecting a chapter is the same as mentioned above.

NOTE
• **With some discs, depending on the contents, it may take some time until all the scenes appear on the screen.**

Special picture playback

The unit provides special picture playback functions including Frame-by-frame, Strobe, Slow-motion and Zoom.

To advance a still picture frame-by-frame

DVD **Video CD**
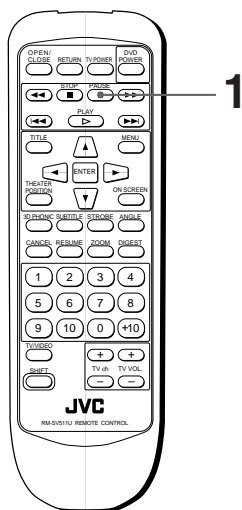
■ While paused (still)

1 Press PAUSE.

Each time you press PAUSE, the still picture advances to the next frame.

Pressing PLAY returns to the normal playback mode.

To display still pictures [STROBE]

DVD **Video CD**
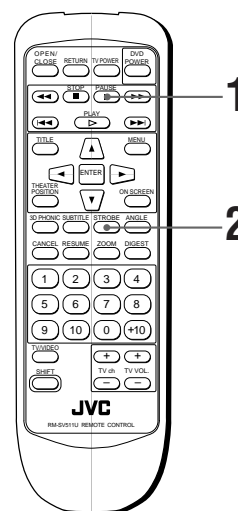
■ During playback

1 At the point you want to view as continuous photographs, press PAUSE.

The unit pauses playback.

2 Press STROBE.

Nine continuous still pictures appear on the TV screen.
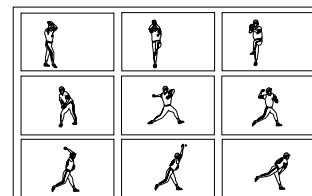
🖐Hints

• Pressing PAUSE when the nine still pictures appear advances to the next nine still pictures.

• **To cancel strobe play**

Press STROBE.

NOTES
• Pressing and holding PAUSE for more than 1 second also activates the Strobe function.
• If you press STROBE during playback, nine still pictures also appear but they advance in realtime.

Advanced operations

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To playback in slow-motion [SLOW]

DVD / Video CD
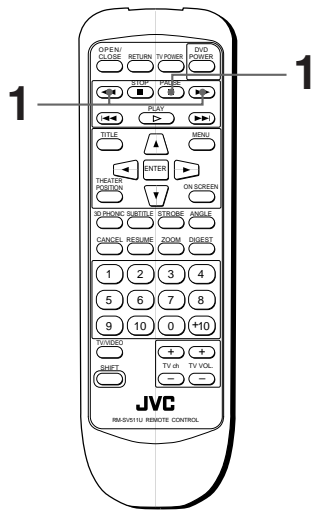
■ During playback

From the remote control unit

1 Press PAUSE, then press ►► or ◄◄.

To play forward slow-motion, press ►►, and to play reverse slow-motion (for DVD discs only), press ◄◄. First, the unit plays the slowest speed (1/32), and each time you press these buttons, the playback speed increases.

From the front panel

1 Press PAUSE, then use the SHUTTLE knob.

To play forward slow-motion, turn the SHUTTLE knob to the right. To play reverse slow-motion (for DVD discs only), turn it to the left. The more you turn the knob, the more the slow-motion speed increases.

• **To return to normal playback**
Press PLAY.
• **To pause slow-motion playback**
Press PAUSE.

NOTES

• **The sound is muted during slow-motion playback.**
• **Reverse slow-motion playback is not possible for a Video CD.**

To zoom a scene [ZOOM]

DVD / Video CD
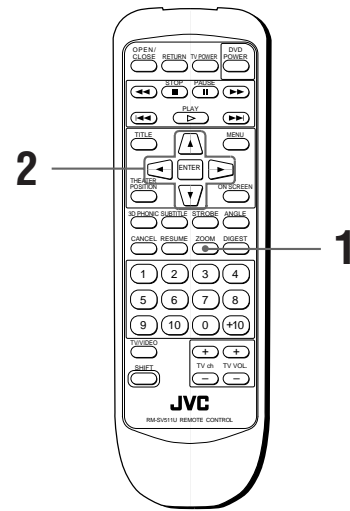
■ During playback or while paused

1 Press ZOOM.

"ZOOM" appears on the TV screen.

The unit zooms in to the center part of the scene to produce a double-sized image.
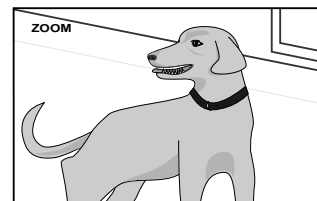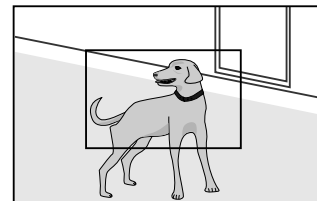
2 Use CURSOR ◄/►/▲/▼ to move the zoomed-in scene.
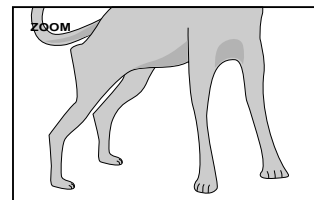
• **To pause zoom play**

Press PAUSE.

To resume zoom play, press PLAY.
• **To return to normal playback**
Press ZOOM.

NOTE

• **During Zoom play, the picture may be garbled or noisy.**

25

Changing the track order

You can play tracks on a Audio CD or Video CD in the desired order or in random order.

To playback in the desired order [PROGRAM]

Audio CD **Video CD**

By programming tracks, you can play tracks in any order.
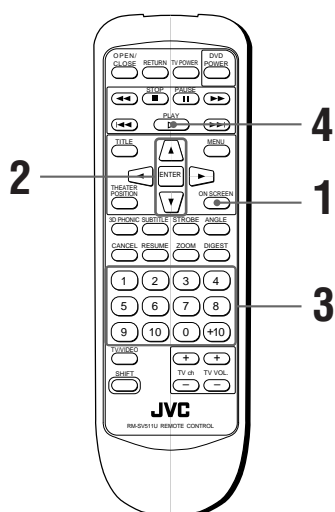
■ While stopped

1 Press ON SCREEN.

The on-screen display appears on the TV screen.

2 Use CURSOR ▲/▼ to move ↘ to [PROGRAM] and press ENTER.

The color of [PROGRAM] changes.

(for Audio CD)


```
TRACK 01   TIME  MIN SEC EACH
                 3 : 54  REMAIN      CD CONTROL
                                     TIME SELECT
          ■
        STOP ■                       REPEAT
                                     A-B REPEAT
                                     TIME SEARCH
   PRESS NUMERIC KEY                 PROGRAM
 1  2  3  4  5  6  7  8  9           RANDOM
 9 ,10 ,11 ,12 ,13 ,14 ,15 ,16       INTRO
```

(for Video CD)


```
TRACK 01   TIME  MIN SEC EACH
                 3 : 54  REMAIN      VCD CONTROL
                                     TIME SELECT
          ■
        STOP ■                       REPEAT
                                     A-B REPEAT
                                     TIME SEARCH
   PRESS NUMERIC KEY                 PROGRAM
 1  2  3  4  5  6  7  8  9           RANDOM
 9 ,10 ,11 ,12 ,13 ,14 ,15 ,16       INTRO
```
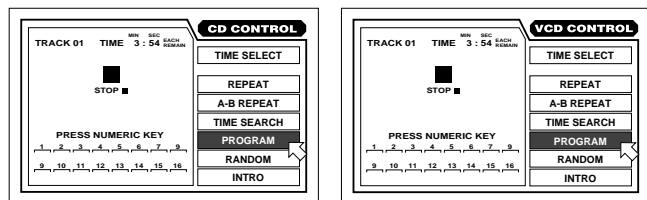
3 Select the tracks in the desired order using the numeric buttons.

Up to 16 tracks can be programmed. You may select the same track more than once.
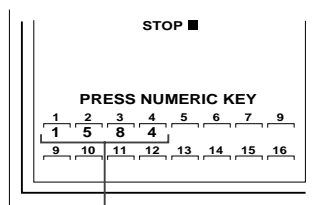

```
                STOP ■


            PRESS NUMERIC KEY
 1    2    3    4    5    6    7    9
 1    5    8    4
 9   10   11   12   13   14   15   16

          Selected track number
```

• **When you make a mistake**

Press CANCEL. The last track programmed is erased.

4 Press PLAY to start program play.

When all of the programmed tracks have finished playback, the unit stops but the program remains.

• **To clear the program**

Press STOP to stop playback, then press STOP again. All the programmed tracks are erased.

• **To quit program playback**

Press ENTER when (↘ points [PROGRAM]. [PROGRAM] returns to its original color.

(When playing back a Video CD, you have to press STOP and then press ON SCREEN to display the on-screen display.)

To playback tracks in random order [RANDOM]
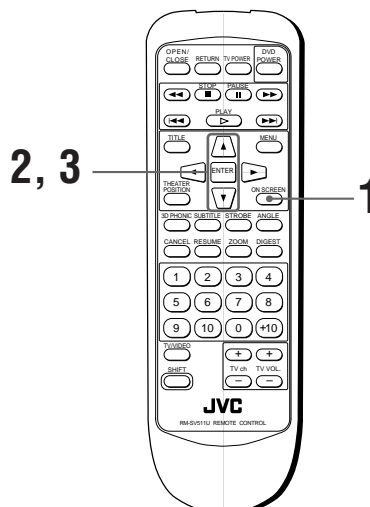
Audio CD **Video CD**

You can play tracks in random order.

■ While stopped

1 Press ON SCREEN.

The on-screen display appears on the TV screen.

2 Use CURSOR ▲/▼ to move ↘ to [RANDOM].

(for Audio CD)


```
TRACK 01   TIME  MIN SEC EACH
                 3 : 54  REMAIN      CD CONTROL
                                     TIME SELECT
          ■
        STOP ■                       REPEAT
                                     A-B REPEAT
                                     TIME SEARCH
                                     PROGRAM
                                     RANDOM
                                     INTRO
```

(for Video CD)


```
TRACK 01   TIME  MIN SEC EACH
                 3 : 54  REMAIN      VCD CONTROL
                                     TIME SELECT
          ■
        STOP ■                       REPEAT
                                     A-B REPEAT
                                     TIME SEARCH
                                     PROGRAM
                                     RANDOM
                                     INTRO
```

Advanced operations

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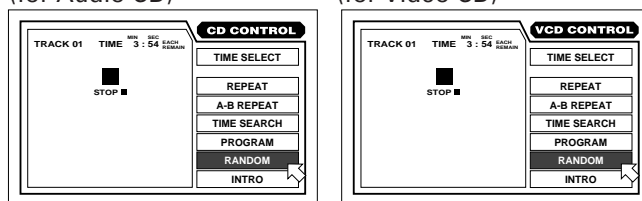
3 Press ENTER.

The color of [RANDOM] changes.

Random play begins.

Hints
- When all tracks have been played once, random play ends.
- The same track will not be played back more than once during random play.

- **To quit random playback**

  Press STOP. The unit stops playback and quits random mode.

Hints

During Audio CD playback, pressing ENTER when ⬦ points [RANDOM] quits random mode and continues playback in the normal order.

Repeat playback

You can repeat playback of the current title or chapter (for DVD), or current or all tracks (for Audio/Video CD). You can also repeat playback of a desired part.

To repeat a current title, chapter or track, or all tracks [REPEAT]

DVD **Audio CD** **Video CD**
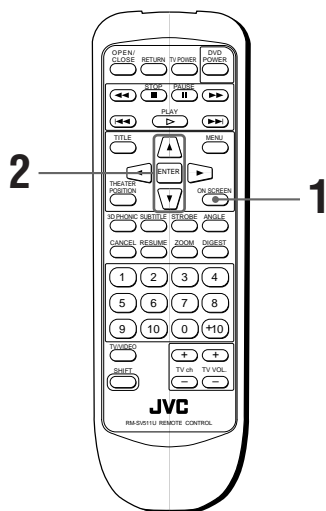
■ For DVD, Audio CD: During playback
  For Video CD: During playback without PBC funciton

1 Press ON SCREEN.

The on-screen display appears on the TV screen.

2 Use CURSOR ▲/▼ to move ⬦ to [REPEAT], then press ENTER.

Each time you press ENTER, the repeat mode changes as follows:

- **for DVD**

  The current title or chapter will be repeated.
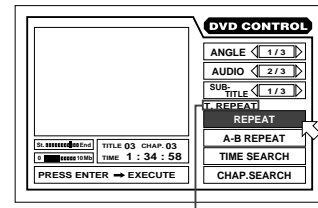
The selected repeat mode appears on the TV screen.

T. REPEAT (title repeat)
↓
C. REPEAT (chapter repeat)
↓
No indication (off)
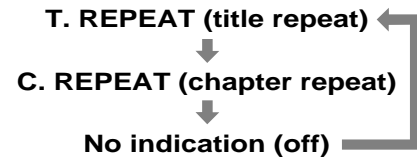
- **for Audio CD/Video CD**

  The current track or all tracks is/are played repeatedly.
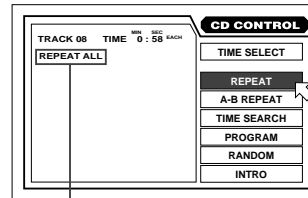
(for Audio CD)   (for Video CD)
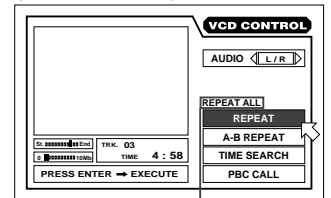
Selected repeat mode   Selected repeat mode

REPEAT ALL
↓
REPEAT 1
↓
No indication (off)
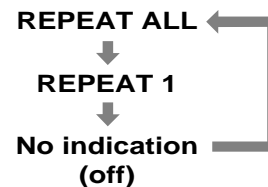
REPEAT ALL:
All the tracks are played repeatedly.

REPEAT 1:
The current track is played repeatedly.

- **To stop repeat playback**

  Press STOP.

  When a DVD disc is set, the unit stops playback and quits repeat mode.

  When an Audio or Video CD is set, the unit stops playback but remains in repeat mode.

- **To quit repeat playback**

  When ⬦ points [REPEAT], press ENTER repeatedly until [REPEAT] returns to its original color.

NOTES
- **Repeat play function cannot be used during Video CD playback with PBC function.**
- **To turn off the on-screen display**
  Press ON SCREEN.
- **If ⊘ appears when pressing ENTER in step 2 during DVD playback**
  You cannot repeat the title or chapter because of the disc contents.

To repeat a desired part [A-B REPEAT]
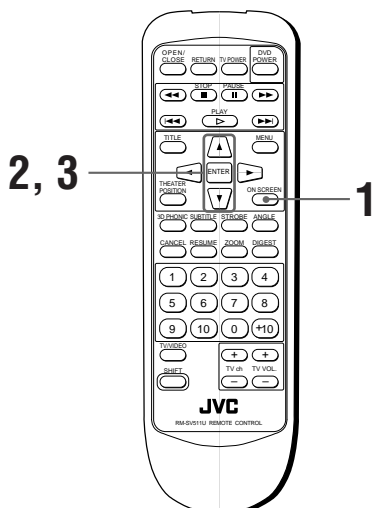
DVD | Audio CD | Video CD

2, 3

1

Sampling all tracks

You can sample the tracks of an Audio CD or Video CD by playing back only the beginning 10 seconds of each track in order.

To playback only the beginning of each track [INTRO]

Audio CD | Video CD

2, 3

1

■ During playback

1 Press ON SCREEN.

The on-screen display appears on the TV screen.

2 Use CURSOR ▲/▼ to move ⬦ to [A-B REPEAT], then press ENTER at the beginning of the part you want to repeat (point A).

The color of [A-B REPEAT] changes.

3 Press ENTER at the end of the part you want to repeat (point B).

The unit locates "A" and starts repeat playback between "A" and "B."

(for DVD)   (for Audio CD)

Point A   Point B   Point A   Point B

(for Video CD)

Point A   Point B
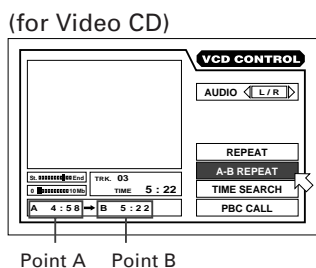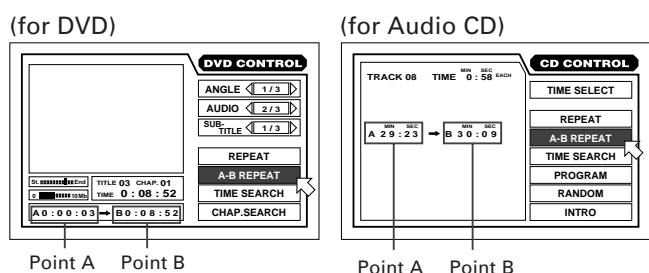
• **To quit A-B repeat playback**

Press STOP. The unit stops playback and quits A-B repeat mode.

Hints

During playback, pressing ENTER when ⬦ points [A-B REPEAT] quits A-B repeat mode and continues playback.

■ While stopped

1 Press ON SCREEN.

The on-screen display appears on the TV screen.

2 Use CURSOR ▲/▼ to move ⬦ to [INTRO].

(for Audio CD)   (for Video CD)
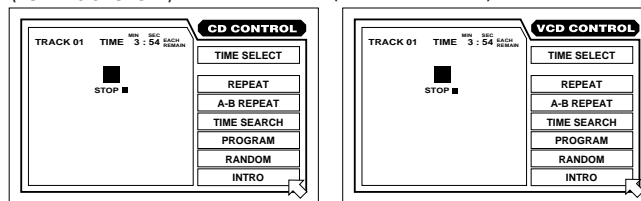
3 Press ENTER.

The first 10 seconds of each track on a disc are played back in numerical order from the first track.

When all tracks have been played once, INTRO scan mode quits.

• **To quit INTRO scan**

Press STOP. The unit stops and quits INTRO scan mode.

Hints

During Audio CD playback, pressing ENTER when ⬦ points [INTRO] quits INTRO scan mode and continues playback.

Advanced operations

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Viewing from multiple angles

You can enjoy a variety of scene angles if the DVD disc contains "multi-angle" parts, where multiple cameras were used to shoot the same scene from different angles. You can select one of these viewing angles from the normal screen or on-screen display.

Hints

At the beginning of "multi-angle" parts, a camera icon appears on the TV screen.

To select a scene angle from the normal screen [ANGLE]

DVD
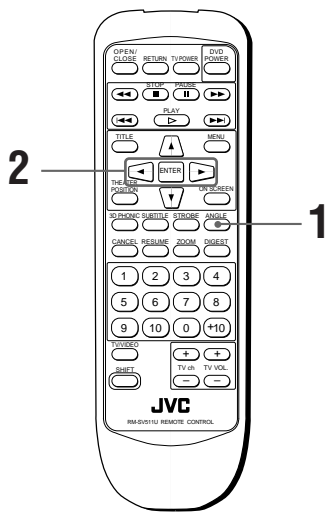
■ During playback

1 Press ANGLE.

2 Press ANGLE or CURSOR ◄/► to select the desired angle.

Each time you press ANGLE or CURSOR ◄/►, the angle changes.

To select a scene angle from the on-screen display [ANGLE]
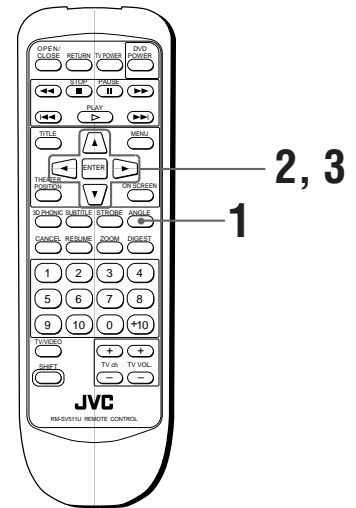
DVD

■ During playback

1 Press ON SCREEN.

The on-screen display appears on the TV screen.

2 Use CURSOR ▲/▼ to move the cursor to [ANGLE].

The total number of recorded angles
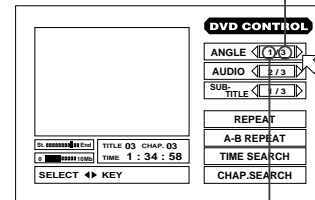
The current angle number

3 Use CURSOR ◄/► to select the desired angle number.

Example:

1 / 3
2 / 3
3 / 3
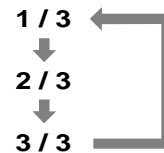
NOTES

- **To turn off the on-screen display**
  Press ON SCREEN.
- **When ⊘ appears on the TV screen**
  The current scene is not recorded from multiple angles.

29

To select a scene angle from the angle list display [ANGLE]

Changing the language and sound

For DVD discs, you can select the subtitle language, as well as the audio language/sound included on a disc. For Video CD discs, you can select the audio channel(s).

DVD

2, 3

1

To select the subtitle language [SUBTITLE]

DVD

■ During playback

Using SUBTITLE button

1

2
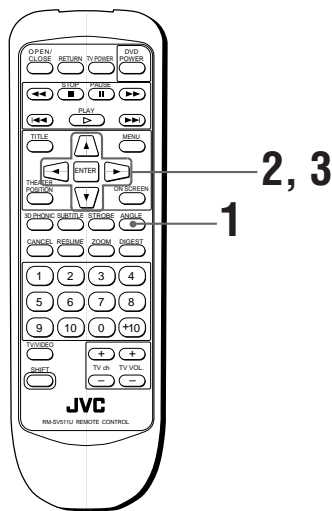
■ During playback

1 Press and hold ANGLE for more than 1 second.

Up to nine camera angles recorded on a disc appear on the TV screen.
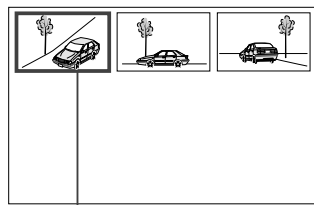
The selected camera angle

2 Use CURSOR ▲/▼/◄/► to select the desired angle.

3 Press ENTER.

■ The selected angle appears on the TV screen.

NOTES

• **When ⃠ appears on the TV screen in step 1:**
   The current scene is not recorded from multiple angles.
• **During the operation above, audio is muted.**

1 Press SUBTITLE.

2 Use CURSOR ◄/► to select the desired subtitle.

Using on-screen display

2, 3

1

Advanced operations

30
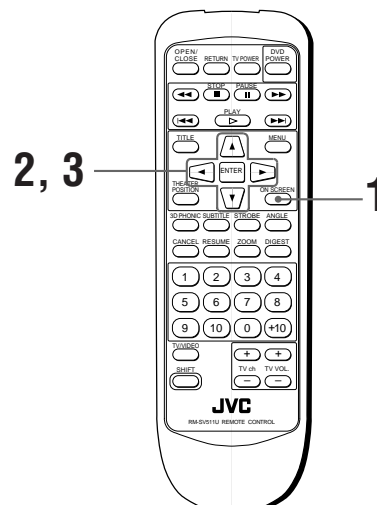
1 Press ON SCREEN.

The on-screen display appears on the TV screen.

2 Use CURSOR ▲/▼ to move ⬨ to [SUBTITLE].

Total number

DVD CONTROL

ANGLE ◁ 1 / 3 ▷
AUDIO ◁ 2 / 3 ▷
SUB-TITLE ◁ –/3 ▷

REPEAT
A-B REPEAT
TIME SEARCH
CHAP.SEARCH

TITLE 03 CHAP. 03
TIME 1 : 34 : 58
SELECT ◀▶ KEY ENGLISH

Selected subtitle number
Selected subtitle
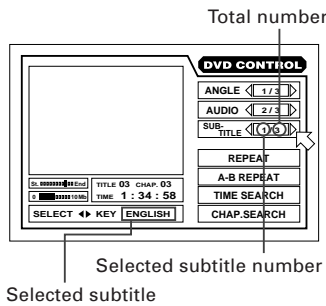
3 Use CURSOR ◀/▶ to select the desired subtitle.

Each time you press CURSOR ◀/▶, the subtitle changes.

Example:

1/3 ENGLISH
↓
2/3 FRENCH
↓
3/3 SPANISH
↓
–/3 (off)
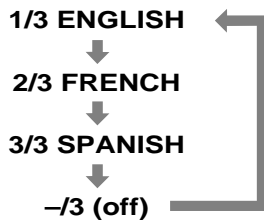
NOTES

• **The selected language may abbreviated on the TV screen. See "Appendix A: Table of languages and their abbreviations" in this manual.**

• **When ⃠ appears on the TV screen:**

You cannot select the subtitle.

To change the audio language or sound [AUDIO]

DVD

■ During playback

1 Press ON SCREEN.

The on-screen display appears on the TV screen.

2 Use CURSOR ▲/▼ to move ⬨ to [AUDIO].

Total number

DVD CONTROL

ANGLE ◁ 1 / 3 ▷
AUDIO ◁ 2 / 3 ▷
SUB-TITLE ◁ 1 / 3 ▷

REPEAT
A-B REPEAT
TIME SEARCH
CHAP.SEARCH

TITLE 03 CHAP. 03
TIME 1 : 34 : 58
SELECT ◀▶ KEY ENGLISH

Selected audio number
Selected audio language
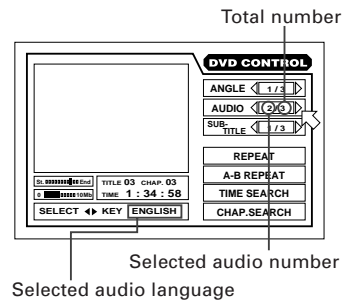
3 Use CURSOR ◀/▶ to select the desired audio language or sound.

Each time you press CURSOR ◀/▶, the audio language or sound changes.

Example:
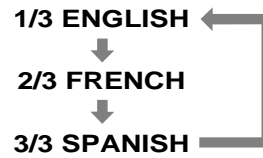
1/3 ENGLISH
↓
2/3 FRENCH
↓
3/3 SPANISH

NOTE

• **When ⃠ appears on the TV screen:**

You cannot select the audio.

To change the audio channel [AUDIO]

Video CD

For some karaoke Video CDs, one of the audio channels includes a vocal while the other does not. With such discs, you can choose to enjoy karaoke without the vocal or with the vocal by selecting the audio channel to be played back.
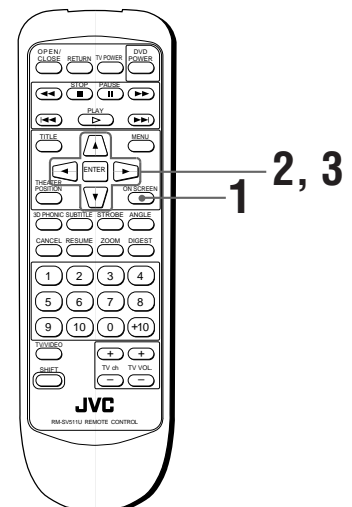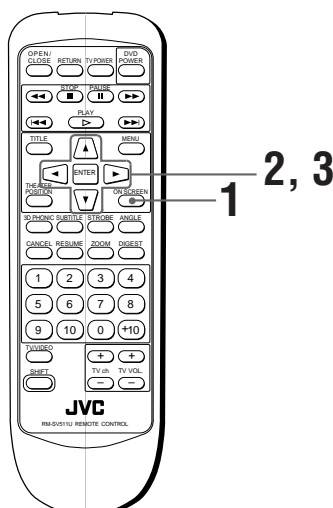
2, 3

1

2, 3

1

■ During playback

1 Press ON SCREEN.

The on-screen display appears on the TV screen.

2 Use CURSOR ▲/▼ to move ⬦ to [AUDIO].

```
┌─────────────────────────────┐
│              ┌─────────────┐ │
│              │VCD CONTROL  │ │
│              ├─────────────┤ │
│              │AUDIO ◀ L/R ▶│ │
│              │             │ │
│              ├─────────────┤ │
│              │  REPEAT     │ │
│ St.▮▮▮▮▮▮▮End│  A-B REPEAT │ │
│ 0▮▮▮▮▮▮▮10Mb │  TIME SEARCH│ │
│ TRK. 03 TIME 4:58          │ │
│ SELECT ◀▶ KEY│  PBC CALL   │ │
└─────────────────────────────┘
```
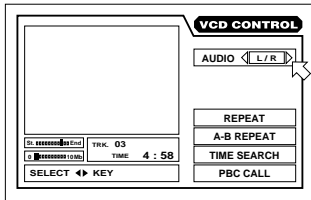
3 Select the audio channel(s) to be played back using CURSOR ◀/▶.

L/R: You hear normal stereo playback.

L: You hear the L (Left) channel signal played back from both the left and right speakers.

R: You hear the R (Right) channel signal played back from both the left and right speakers.

• **To turn off the on-screen display**

Press ON SCREEN.

Selecting the picture character

You can select the quality of the image from among four options (OFF, 1, 2 and 3) according to the type of programming, picture tone or personal preferences.

To select the picture character [THEATER POSITION]

DVD **Video CD**

1
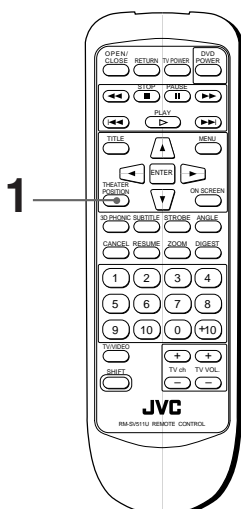
■ During playback

1 Press THEATER POSITION to select the desired picture character.

Each time you press the button, the picture character changes as follows:
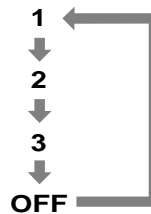
```
  1 ◀───┐
  ↓     │
  2     │      "Off" is the normal
  ↓     │      position. Selecting
  3     │      a higher number
  ↓     │      tones down the
 OFF ───┘      picture character.
```
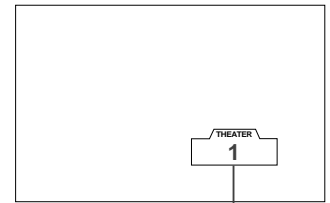
```
┌─────────────────────┐
│                     │
│                     │
│          ┌────────┐ │
│          │THEATER │ │
│          │   1    │ │
│          └────────┘ │
└─────────────────────┘
     Selected effect mode
```

Enjoying virtual surround sound

Using the 3D Phonic function, you can get a simulated surround effect from your stereo system.

To simulate surround sound [3D PHONIC]

DVD **Audio CD** **Video CD**

3

1, 2
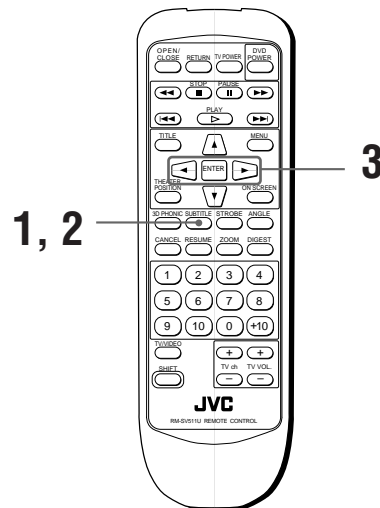
■ During playback

1 Press 3D PHONIC.

2 Select the desired effect mode by pressing 3D PHONIC.

Each time you press 3D PHONIC, the effect mode changes as follows:

```
 ACTION* ◀───┐
   ↓         │
 DRAMA       │
   ↓         │
 THEATER     │
   ↓         │
  OFF ───────┘
```

```
┌─────────────────────┐
│      ┌────┐  ┌────┐  │
│      │    │  │    │  │
│  SES▒▒▒▒▒▒▒▒▒▒▒▒    │
│              3D PHONIC│
│       THEATER◀L▮▮▮▮▮R▶│
│    🌐                │
└─────────────────────┘
     Selected effect mode
```

32
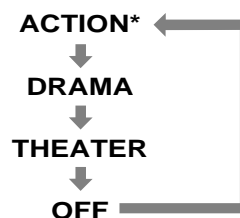
* When you play a DVD disc recorded in Dolby Digital which contains more than 2 channels, ACTION does not appear.

3 Press CURSOR ◄/► to adjust the effect level.

You can adjust the effect level in 5 level.

Toward L:

Reduces the effect.

Toward H:

Enhances the effect.

Effect level

🖐Hints
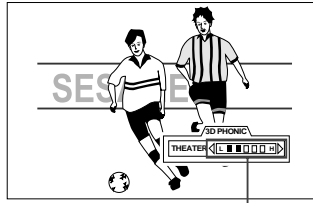
To turn off the 3D PHONIC screen, press ENTER. The 3D PHONIC screen disappears if no operations are made for more than 10 seconds.

┌─ **NOTES** ─────────────────────────────────┐

• **The 3D phonic function works correctly when playing back discs recorded in the Dolby Surround or Dolby Digital 5.1-CH format.**

  It also works when playing back discs other than those above, but does not provide the correct effect.

• **The 3D Phonic function does not affect the DTS or Dolby Digital bitstream signal from the DIGITAL OUT jack.**

• **The sound effect will not be set or operate, even if 3D PHONIC is pressed, for the sound of DVD discs recorded in Linear PCM.**

• **When you set the 3D PHONIC function to on, the DOWN MIX and COMPRESSION setting in the PREFERENCE 2 display are disabled.**

└───┘

Checking the disc time

You can choose the time display mode for an Audio or Video CD disc in the display on the front panel and in the on-screen display.

To select the time display mode [TIME SELECT]
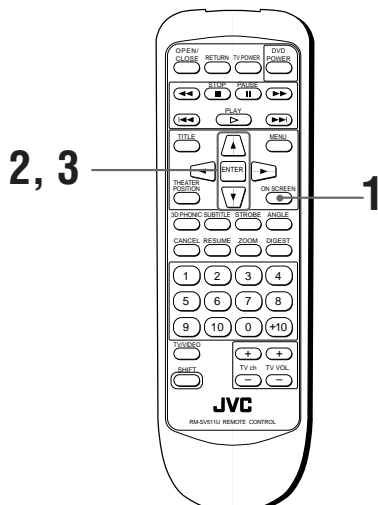
■ For Audio CD: During playback or while stopped
  For Video CD: While stopped

1 Press ON SCREEN.

The on-screen display appears on the TV screen.

2 Use CURSOR ▲/▼ to move ⬔ to [TIME SELECT].

(for Audio CD)

CD CONTROL
TIME SELECT
REPEAT
A-B REPEAT
TIME SEARCH
PROGRAM
RANDOM
INTRO

TRACK 08 TIME MIN SEC 0 : 58 EACH
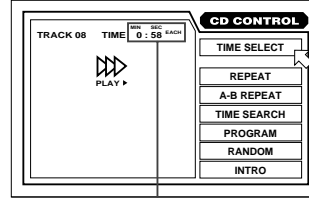
▷▷▷ PLAY ►

Time display

(for Video CD)

VCD CONTROL
TIME SELECT
REPEAT
A-B REPEAT
TIME SEARCH
PROGRAM
RANDOM
INTRO

TRACK 01 TIME MIN SEC 3 : 54 EACH REMAIN
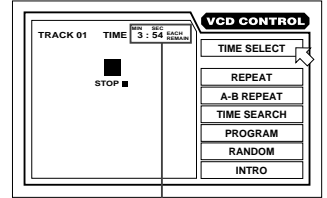
STOP ■

Time display

3 Press ENTER.

Each time you press ENTER, the time mode changes as follows:

• During playback (for Audio CD)

EACH
(Elapsed time of the current track)

↓

EACH REMAIN
(Remaining time of the current track)

↓

TOTAL
(Total elapsed time of the disc)

↓

TOTAL REMAIN
(Total remaining time of the disc)

• While stopped

EACH REMAIN
Recorded time of the current track

↓

TOTAL (0:00)

↓

TOTAL REMAIN
Total time of the disc

↓

EACH (0:00)

🖐Hints
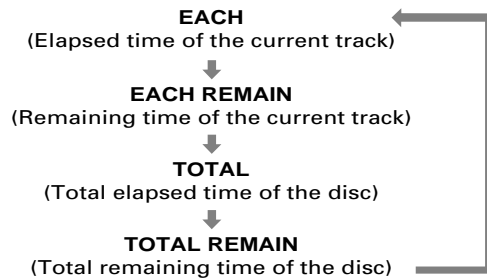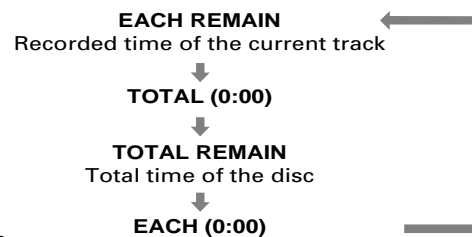
When you select "EACH REMAIN" while stopped, you can change the track by pressing ◄◄ or ►►I.

2, 3

1

Setting and adjustment

Selecting preferences

You can set various preferences for playback via the "PREFERENCE" display.

How to set preferences on the "PREFERENCE" display
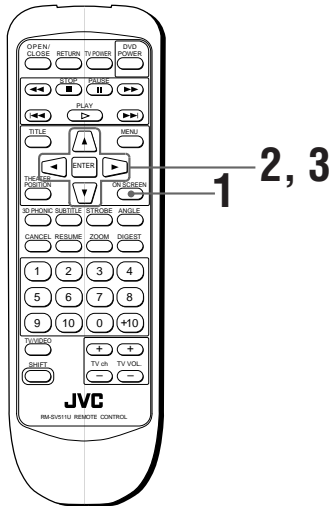
1 While a DVD disc is stopped or no disc is inserted, press ON SCREEN.

The "PREFERENCE" display appears on the TV screen.

The "PREFERENCE" display consists of two pages. To turn the page, move ⬙ to the desired tab using CURSOR ▲/▼.

Preference 1

PREFERENCE1	PREFERENCE2
MENU LANGUAGE	ENGLISH
AUDIO LANGUAGE	ENGLISH
SUBTITLE	ENGLISH
ON SCREEN LANGUAGE	ENGLISH
ON SCREEN GUIDE	ON
MONITOR TYPE	16:9 WIDE
PRESS ◀▶ KEY	

Preference 2

PREFERENCE1	PREFERENCE2
DIGITAL AUDIO OUTPUT	STREAM/PCM
DOWN MIX	Lt / Rt
COMPRESSION	OFF
SCREEN SAVER	MODE1
AV COMPULINK MODE	DVD1
AUTO STANDBY	OFF
PRESS ◀▶ KEY	
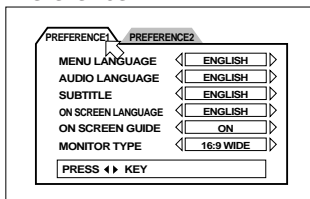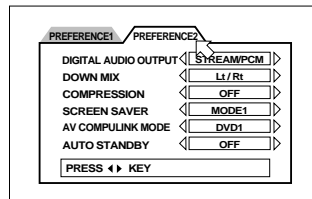
2 Move ⬙ to select the item you want to set by using CURSOR ▲/▼.

PREFERENCE1	PREFERENCE2
MENU LANGUAGE	ENGLISH
AUDIO LANGUAGE	ENGLISH
SUBTITLE	ENGLISH
ON SCREEN LANGUAGE	ENGLISH
ON SCREEN GUIDE	ON
MONITOR TYPE	16:9 WIDE
PRESS ◀▶ KEY	
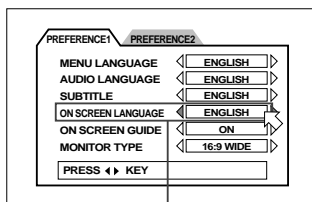
Selected item

3 Press CURSOR ◀/▶ to select the setting you want.

- To return to the normal screen, press ON SCREEN.
- For details about each setting, see the following paragraphs.

To set the language and display preference items

PREFERENCE 1 can be set as follows:

MENU LANGUAGE

You can select a default "display" language to be displayed if it is contained on the disc.
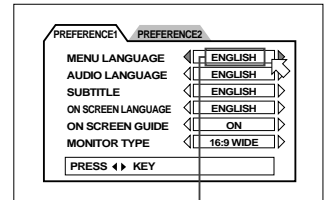
PREFERENCE1	PREFERENCE2
MENU LANGUAGE	ENGLISH
AUDIO LANGUAGE	ENGLISH
SUBTITLE	ENGLISH
ON SCREEN LANGUAGE	ENGLISH
ON SCREEN GUIDE	ON
MONITOR TYPE	16:9 WIDE
PRESS ◀▶ KEY	

Each time you press CURSOR ▶, the language setting changes in the following order:

Selected language

ENGLISH → SPANISH → FRENCH → CHINESE → GERMAN → ITALIAN → JAPANESE → language code from AA to ZU
(See "Table of languages and their abbreviations" at the end of this manual.)

Pressing CURSOR ◀ changes the language setting in the reverse order of the above.

* If the selected language is not recorded, the disc's default display language is displayed.

AUDIO LANGUAGE

You can select the default audio language to be played if it is contained on the disc.
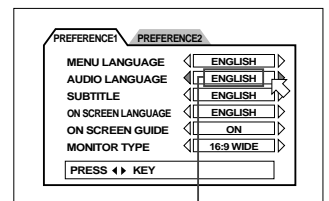
PREFERENCE1	PREFERENCE2
MENU LANGUAGE	ENGLISH
AUDIO LANGUAGE	ENGLISH
SUBTITLE	ENGLISH
ON SCREEN LANGUAGE	ENGLISH
ON SCREEN GUIDE	ON
MONITOR TYPE	16:9 WIDE
PRESS ◀▶ KEY	

Each time you press CURSOR ▶, the language setting changes in the following order:

Selected language

ENGLISH → SPANISH → FRENCH → CHINESE → GERMAN → ITALIAN → JAPANESE → language code from AA to ZU
(See "Table of languages and their abbreviations" at the end of this manual.)

Pressing CURSOR ◀ changes the language setting in the reverse order of the above.

* If the selected language is not recorded, the disc's default audio language is played.

SUBTITLE

You can select the default subtitle language to be displayed when it is contained on a playback disc.
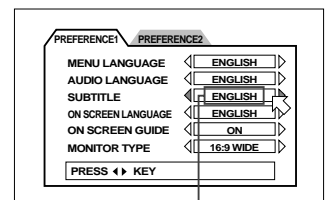
PREFERENCE1	PREFERENCE2
MENU LANGUAGE	ENGLISH
AUDIO LANGUAGE	ENGLISH
SUBTITLE	ENGLISH
ON SCREEN LANGUAGE	ENGLISH
ON SCREEN GUIDE	ON
MONITOR TYPE	16:9 WIDE
PRESS ◀▶ KEY	

Each time you press CURSOR ▶, the language setting changes in the following order:

Selected language

Setting and adjustment

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ENGLISH → SPANISH → FRENCH → CHINESE →
GERMAN → ITALIAN → JAPANESE → language code
from AA to ZU
(See "Table of languages and their abbreviations" at
the end of this manual.)

Pressing CURSOR ◄ changes the language setting in
the reverse order of the above.

* If the selected language is not recorded, the disc's
  default subtitle language is displayed.

ON SCREEN LANGUAGE

You can select the on-
screen display language
to be displayed.

Each time you press
CURSOR ◄/►, the
language setting changes
as follows:

PREFERENCE1	PREFERENCE2	
MENU LANGUAGE	◁ ENGLISH ▷
AUDIO LANGUAGE	◁ ENGLISH ▷
SUBTITLE	◁ ENGLISH ▷
ON SCREEN LANGUAGE	◁ ENGLISH ▷
ON SCREEN GUIDE	◁ ON ▷
MONITOR TYPE	◁ 16:9 WIDE ▷
PRESS ◄► KEY	

Selected language

ENGLISH
↓
ESPAÑOL (Spanish)
↓
FRANCAIS (French)
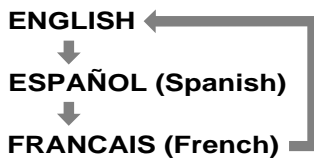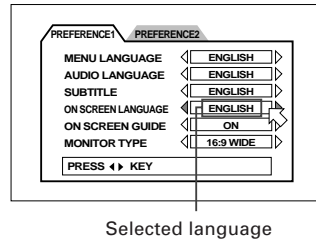
English	ON SCREEN LANGUAGE	◁ ENGLISH ▷
Spanish	IDIOMA EN PANTALLA	◁ ESPAÑOL ▷
French	LANGUE D'ECRAN	◁ FRANCAIS ▷

ON SCREEN GUIDE

The unit can display "on-
screen guide" icons or
characters on the picture,
which show what is
happening to the disc or
the unit.

PREFERENCE1	PREFERENCE2	
MENU LANGUAGE	◁ ENGLISH ▷
AUDIO LANGUAGE	◁ ENGLISH ▷
SUBTITLE	◁ ENGLISH ▷
ON SCREEN LANGUAGE	◁ ENGLISH ▷
ON SCREEN GUIDE	◁ ON ▷
MONITOR TYPE	◁ 16:9 WIDE ▷
PRESS ◄► KEY	
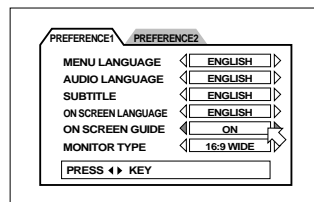
• **ON**
  The guide display turns on.

• **OFF**
  The guide display turns off.

Examples of "on-screen guide" icons or characters:

🎥, ◎)), ⌷

MONITOR TYPE

You can select the monitor type to match your TV when
you playback DVD discs recorded for wide screen
televisions.

• **4:3 LB** ▭ (Letter Box Conversion)
  When you connect a normal TV
  to the unit.
  When you play a wide picture
  recorded on a DVD disc, the
  picture is displayed with bands
  across the upper and lower
  portions of the screen.

• **4:3 PS** ▢ (Pan scan Conversion)
  When you connect a normal TV
  to the unit.
  When you play a wide picture
  recorded on a DVD disc, a
  portion of the picture is
  automatically cut off from the
  left and right sides of the
  image.
  Depending on the disc, it may not be possible to
  playback in this mode. In this case, the picture is
  played back as in 4:3 LB ▭ mode.
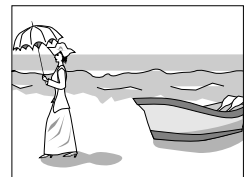
• **16:9 WIDE** (Wide Television screen)
  When you connect a
  wide-screen TV to the
  unit.
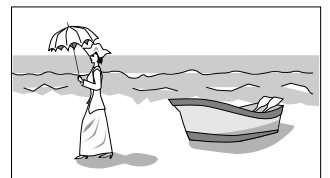
To set other preference items

PREFERENCE 2 can be set as follows:

DIGITAL AUDIO OUTPUT

To connect the unit's
digital output to an
external device equipped
with a digital input, this
item must be set
correctly.

PREFERENCE1	PREFERENCE2	
DIGITAL AUDIO OUTPUT	◁ STREAM/PCM ▷
DOWN MIX	◁ Lt/Rt ▷
COMPRESSION	◁ OFF ▷
SCREEN SAVER	◁ MODE1 ▷
AV COMPULINK MODE	◁ DVD1 ▷
AUTO STANDBY	◁ OFF ▷
PRESS ◄► KEY	
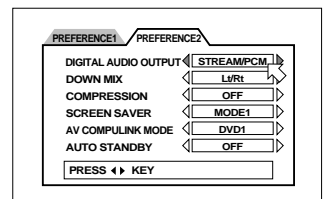
• **PCM ONLY:**
  When you connect the DIGITAL OUT jack of the unit
  with the linear PCM digital input of other audio
  equipment.

• **STREAM/PCM:**
  When you connect to the digital input of an amplifier
  with built-in DTS, Dolby Digital, and MPEG audio
  decoder.

• **DOLBY DIGITAL/PCM:**
  When you connect to the digital input of a Dolby
  Digital decoder, or an amplifier with built-in Dolby
  Digital decoder

Setting and
adjustment

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The following chart shows the relationship between types of playback discs and output signals.

Playback discs	Output		
	STREAM/PCM	DOLBY DIGITAL/PCM	PCM ONLY
DVD with 48-kHz, 16-bit linear PCM	48-kHz, 16-bit linear PCM	←	←
DVD with 48-kHz, 20/24-bit linear PCM	48-kHz, 20-bit linear PCM	←	←
DVD with 96-kHz, linear PCM	No output	←	←
DVD with DTS	DTS bitstream	No output	←
DVD with Dolby Digital	Dolby Digital bitstream	←	48-kHz, 16-bit linear PCM
DVD with MPEG audio	MPEG bitstream	48-kHz, 16-bit linear PCM	←
Video CD	44.1-kHz, 16-bit linear PCM	←	←
Audio CD	44.1-kHz, 16-bit linear PCM	←	←
Audio CD with DTS	DTS bitstream	←	←

NOTES
- **The unit does not provide the DTS decoding function.**
- **When playing a DVD or Audio CD disc with DTS, use a DTS decoder to get correct signals from your speakers. Never use the unit's analog output jacks, which output incorrect signals that may damage your speakers.**

  If you connect the analog outputs and digital outputs simultaneously, be sure to select the source of the amplifier correctly, or set the level control of the amplifier connected to the analog outputs to minimum.

DOWN MIX

By setting DOWN MIX correctly, you can get the optimum stereo mix for your audio system from DVD discs recorded with Dolby Digital surround multichannel audio.
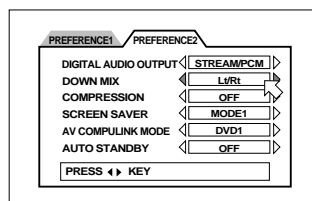
- **Lt/Rt (Dolby Digital disc only):**
  For monitoring the unit's 2-channel audio output signals via a Dolby Pro Logic decoder.

- **L0/R0:**
  For monitoring the unit's 2-channel audio output signals via a TV or an amplifier with no built-in Dolby Pro Logic decoder. Also for recording DVD audio to a cassette tape, MD, etc.

NOTE
- **The Down mix function does not work when the 3D PHONIC function is activated.**

COMPRESSION

You can compress the dynamic range of the sound if needed. Using this function, you can listen to sound at low volumes easily.
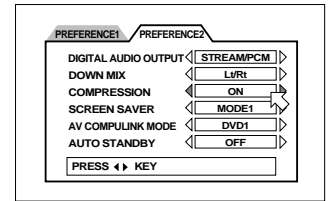
- **ON**
  Audio is played back with the dynamic range compressed.

- **OFF**
  Audio is played back as it was recorded.

NOTES
- **The Compression function works only when playing back a disc recorded with DOLBY DIGITAL 1CH or 2CH. The setting is not effective for other discs.**
- **The Compression function does not work when the 3D PHONIC function is activated.**

SCREEN SAVER

A television monitor screen may be burned out if a static picture is displayed for a long time. To prevent this, the unit automatically activates the screen saver function if a static picture, such as an on-screen display or menu, is displayed for over 5 minutes.
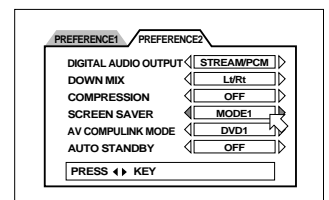
- **MODE 1**
  The "screen saver" picture appears and scrolls.

- **MODE 2**
  The "screen saver" picture appears and does not scroll.

- **DIMMER**
  The current picture gets dark.

- **OFF**
  The screen saver function is off.

NOTES
- **When the screen saver mode is set to DIMMER, the display window on the front panel also gets dark (FL Dimmer). To return to normal brightness, set to another mode.**
- **The monitor screen of a projector or projection TV is easily burned out if a static picture is displayed for a long time. Be careful not to allow the monitor screen to be burned out when you set the screen saver mode to OFF.**
- **The TV screen may be garbled when you set the screen saver mode to MODE 1. In this case, set to another mode.**

Setting and adjustment

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AV COMPULINK MODE

If you use the AV Compulink system, you must set this item correctly.
Select from the three options: **"DVD1," "DVD2"** and **"DVD3"** according to the equipment to be connected.
See page 39.

```
PREFERENCE1  PREFERENCE2
DIGITAL AUDIO OUTPUT   STREAM/PCM
DOWN MIX               Lt/Rt
COMPRESSION            OFF
SCREEN SAVER           MODE1
AV COMPULINK MODE      DVD1
AUTO STANDBY           OFF
PRESS ◀▶ KEY
```
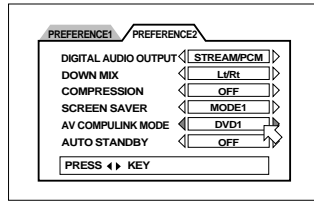
AUTO STANDBY

When the unit is in stop mode for more than 30 minutes or 60 minutes, the unit enters standby mode automatically.

```
PREFERENCE1  PREFERENCE2
DIGITAL AUDIO OUTPUT   STREAM/PCM
DOWN MIX               Lt/Rt
COMPRESSION            OFF
SCREEN SAVER           MODE1
AV COMPULINK MODE      DVD1
AUTO STANDBY           60
PRESS ◀▶ KEY
```

- **60**
  Time is set to 60 minutes.

- **30**
  Time is set to 30 minutes.

- **OFF**
  The auto standby function is off.

Limiting playback by children

This function restricts playback of DVD discs which contain violent (and other) scenes according to the level set by the user. For example, if a movie which includes violent scenes supports the parental lock feature, such scenes which you do not want to let children view can be cut or replaced with other scenes.

To set Parental Lock for the first time [PARENTAL LOCK]

DVD

■ While a DVD disc is stopped or no disc is inserted

1 Press ENTER while holding down SHIFT.

The Parental Lock on-screen display appears on the TV screen.

2 Use CURSOR ▲/▼ to move to [Country Code], then use CURSOR ◀/▶ to select "US" for country code and press ENTER.

```
🔒  PARENTAL LOCK
Country Code      ◀ US ▶
Set Level         ◀ NONE ▶
PASSWORD            ----
                   EXIT
PRESS ◀▶ KEY → ENTER
```

Country code

3 Use CURSOR ▲/▼ to move to [Set Level], then use CURSOR ◀/▶ to select the parental lock level.

Each time you press CURSOR ▶ , the parental level changes as follows:

```
🔒  PARENTAL LOCK
Country Code      ◀ US ▶
Set Level         ◀ NC-17 ▶
PASSWORD            ----
                   EXIT
PRESS ◀▶ KEY → ENTER
```

Selected level

NONE (No restriction)
↓   ↑
G   **NC-17**
↓   ↑
PG ⟹ **PG13** ⟹ **R**

✋ Hints

"G" is the lowest level.
Discs rated higher than the level you selected are restricted.

4 Press ENTER.

5 Enter your 4-digit password using the numeric buttons (0 to 9) and press ENTER

```
🔒  PARENTAL LOCK
Country Code      ◀ US ▶
Set Level         ◀ NC-17 ▶
PASSWORD            ----
                   EXIT
NEW PASSWORD? ••• PRESS 0–9 KEY
```

The parental level and password are set.

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To change the settings [PARENTAL LOCK]
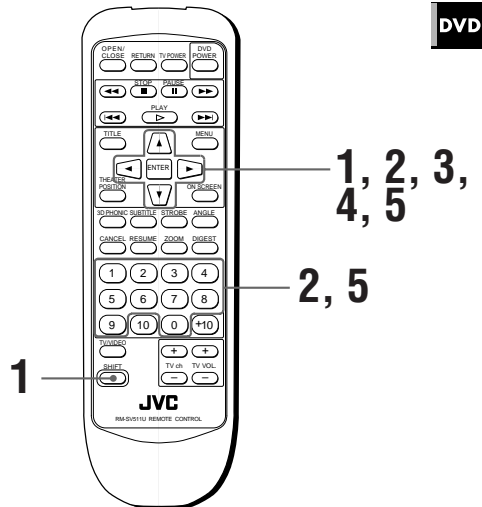
DVD

1, 2, 3, 4, 5

2, 5

1

■ While a DVD disc is stopped or no disc is inserted

1 Press ENTER while holding down SHIFT.

The Parental Lock on-screen display appears on the TV screen.

```
🔒  PARENTAL LOCK

Country Code      ◁ [ US ] ▷
Set Level         ◁ [ NC-17 ] ▷
PASSWORD          [ ---- ]

                  [ EXIT ]

CURRENT PASSWORD? ••• PRESS 0–9 KEY
```

2 Enter your current 4-digit password using the numeric buttons (0 to 9) and press ENTER.

If you enter the wrong password, "WRONG! RETRY……" appears on the TV screen, and you cannot go to next step.

3 Use CURSOR ▲/▼ to move 👆 to [Set Level], then use CURSOR ◄/► to select the parental lock level.

```
🔒  PARENTAL LOCK

Country Code      ◁ [ US ] ▷
Set Level         ◁ [ NC-17 ] ▷
PASSWORD          [ ---- ]

                  [ EXIT ]

PRESS ◄► KEY ➡ ENTER
```

Selected level
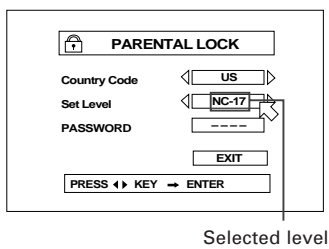
4 Press ENTER.

5 Enter your new 4-digit password using the numeric buttons (0 to 9) and press ENTER.

The new setting is effective.

> **NOTES**
> • **When you enter the wrong password more than 3 times in step 2 above, 👆 moves to [EXIT] automatically and CURSOR ▲/▼ does not work.**
> • **If you forget your password in step 2**
>   Enter "8888."

To temporarily release the Parental lock [PARENTAL LOCK]

DVD

1

2
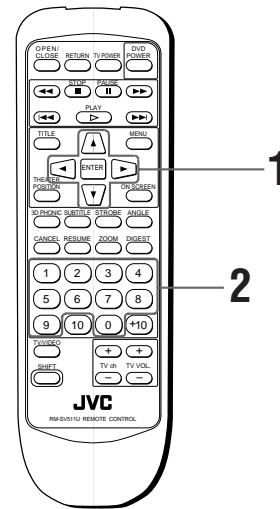
When you set the parental level strictly, some discs may not be played back at all. When you insert such a disc and try to play it, the Parental Lock on-screen display appears on the TV screen, and the unit will ask you whether you want the parental lock to be temporarily released or not.

1 Use the CURSOR ▲/▼ to move 👆 to [Temporary], then use CURSOR ◄/► to select [YES] or [NO], then press ENTER.

If you select [YES], 👆 moves to the PASSWORD field.

When selecting [NO], press OPEN/CLOSE to remove the disc.

```
🔒 PARENTAL LOCK
This DISC can't play now!
Temporary           [ YES ]
Level Change ?      [ NO ]

PASSWORD            [ ---- ]
PRESS ENTER ➡ EXECUTE
```
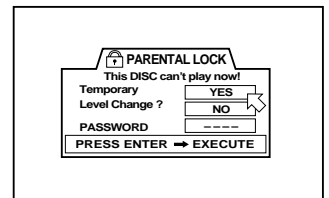
2 Enter your 4-digit password using the numeric buttons (0 to 9).

If you enter the wrong password, <WRONG! RETRY…> appears on the TV screen, and you cannot go to next step.

The Parental lock is released, and the unit starts playback.

> **NOTE**
> • **When you enter the wrong password more than 3 times in step 2 above, 👆 moves to [NO] automatically and CURSOR ▲/▼ does not work.**

Setting and adjustment

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Additional information

AV COMPU LINK remote control system

When you buy a separate TV, VCR, DVD player, receiver, or other components and connect them to each other, you have to operate each component individually. JVC's AV COMPU LINK remote control system meets the demand for a system made up of single components and has the ease of operation of a single unit.

Connection and setup

Using the AV COMPU LINK cable, connect the AV COMPU LINK terminals of each component to one another.

To AV COMPU LINK (II or EX)

TV
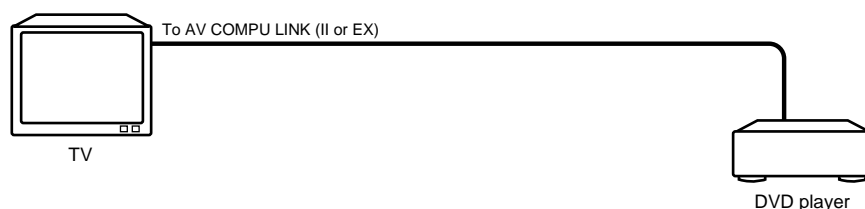
DVD player

- If you connect a DVD player with a television via AV COMPU LINK, set the DVD player's AV COMPU LINK setting as follows.

    - When connecting with VIDEO-1 input terminal of the television: DVD2
    - When connecting with VIDEO-2 input terminal of the television: DVD3

To AV COMPU LINK (II or EX)

To AV COMPU LINK

TV

DVD player

VCR (Video Cassette Recorder)
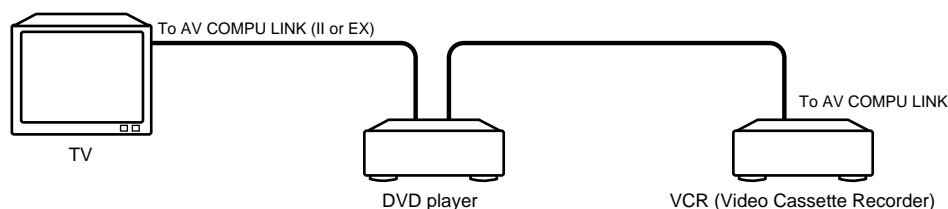
- If you connect a DVD player with a television and VCR via AV COMPU LINK, set the VCR's Remote Control Code and DVD player's AV COMPU LINK setting as follows.

    - When connecting with VIDEO-1 input terminal of the television:
      DVD player's AV COMPU LINK setting: DVD2
      VCR's Remote Control Code: B
    - When connecting with VIDEO-2 input terminal of the television:
      DVD player's AV COMPU LINK setting: DVD3
      VCR's Remote Control Code: A

TV

Receiver
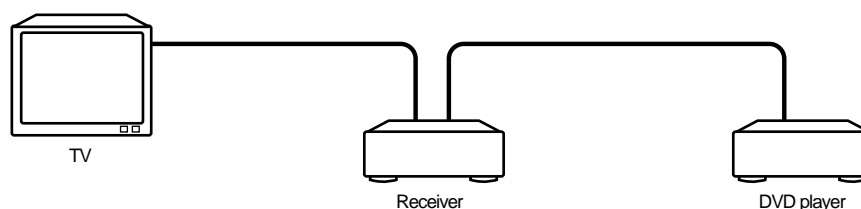
DVD player

- If you connect a DVD player with a television and receiver via AV COMPU LINK, set the DVD player's AV COMPU LINK setting to DVD1.

    - The DVD player's AV COMPU LINK setting is operated in the "PREFERENCE" display. See page 37 for operation.

    - About the connection between the TV and the Receiver, refer to Receiver's Instructions.

> **IMPORTANT!**
>
> If you connect the component video output to your TV,
> - set the DVD player's AV COMPULINK setting to DVD1, and
> - make the video/audio connection between the DVD player and your receiver using supplied audio/video cable and do not make the S-VIDEO connection.

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Additional information

> ## Notes for connection
>
> ● **If you connect a DVD player with a receiver via AV COMPU LINK in a system including a Dolby digital decoder, some functions may not be performed automatically.**
>
> ● **The AV COMPU LINK terminal on some televisions indicates "II". Do not connect the terminal indicating "II" with the AV COMPU LINK terminal on a receiver. If connected, the system will not work correctly.**
>
> ● **Connect the AUDIO OUT jacks of the DVD player to the audio input jacks of a receiver indicating "DVD". Otherwise, the system will not work correctly.**
>
> ● **There is no description about connections to a DVD player in the instruction manual of a television or VCR. But a television or VCR with AV COMPU LINK terminals indicating "II" or "EX" can be connected to a DVD player.**

Operation

You can enjoy pictures and/or sound by just putting a source component (which plays back the pictures and/or sound such as a DVD player or VCR) into play mode. You do not have to operate the TV and receiver including not having to perform power switching.

1 Turn on the main power of the television.

2 Insert a disc into the source component.

3 Press ► of the source component.

The following actions are performed automatically:
• Turning on the power for the television.
• Setting the source of the television to the external input (VIDEO-1 or VIDEO-2).
• Turning on the power for the receiver.
• Setting the source of the receiver to the component which has started playback.

Care and handling of discs

How to handle discs

When handling a disc, do not touch the surface of the disc. Since discs are made of plastic, they are easily damaged. If a disc gets dirty, dusty, scratched or warped, the images and sound will not be picked up correctly, and such a disc may cause the player to malfunction.
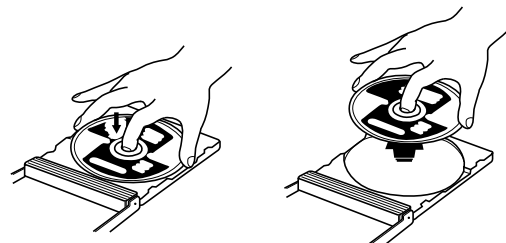
Label side

Do not damage the label side, stick paper to or use any adhesive on its surface.

Storage

Make sure that discs are kept in their cases. If discs are piled on top of one another without their protective cases, they can be damaged. Do not put discs in a location where they may be exposed to direct sunlight, or in a place where the humidity or temperature is high. Avoid leaving discs in your car!

Maintenance of discs

If there are fingerprints or other dirt adhering to a disc, wipe with a soft dry cloth, moving from the center outwards. If a disc is difficult to clean, wipe with a cloth moistened with water. Never use record cleaners, petrol, alcohol or any anti-static agents.

> ## CAUTION
>
> Sometimes during play noise or images may be garbled. This is sometimes due to the disc. (It may not be up to industry standards.)
> These symptoms are caused by the discs, not by the malfunction of the unit.

Additional information

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Troubleshooting

What appears to be a malfunction may not always be serious. Please go through the following list before requesting service.

Symptom	Possible case	Remedy
Power does not come on.	Power plug is not inserted securely.	Plug in securely.
Remote control does not work.	Too far from the unit.	More closer to the unit.
	The tip of the remote unit is not pointed in the right direction.	Point the infrared light- emitting window toward the remote sensor on the front panel.
	Batteries are exhausted.	Replace the batteries with new ones.
	Battery polarity is incorrect.	Take out the batteries and insert them again in the correct direction.
No picture is displayed on the monitor.	Connection of video cable is incorrect.	Connect the cable correctly.
	Input selection of TV is incorrect.	Select correctly.
	Disc is not playable.	Use a playable disc. (See page 11.)
Picture is noisy.	The unit is connected to a VCR directly and the copyguard function is activated.	Connect the unit so that the picture signal flows directly to the TV.
No audio is reproduced.	Connection is incorrect.	Check the connections.
	Input selection of amplifier is incorrect.	Select correctly.
No audio is reproduced when playing back a DVD disc recorded with 96-kHz, linear PCM audio.	The audio signal derives from the unit's DIGITAL OUT.	Use the AUDIO OUT when playing back such discs.
Sound is distorted or noise is generated.	Disc is dirty.	Wipe the disc surface.
Picture is garbled.	The screen saver mode is set to MODE 1, and the screen saver function is activated.	Set the screen saver mode to the other mode.
Picture does not fit the television screen.	MONITOR TYPE is not correctly set.	Select monitor type correctly. (See page 35.)
	Television is not correctly set.	Set the television correctly.
Operation is not possible.	Microcomputer malfunctions due to lightning or static electricity.	Turn off the power and unplug the power cord, then connect the power cord again.
	Moisture condensation occurs by a sudden change of temperature or humidity.	Turn off the power, then turn it on a few hours later.

Additional information

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Specifications

General

Readable discs:	DVD VIDEO, Audio CD, Video CD
Video format:	NTSC

Other

Power requirements:	AC 110V - 240V∼ , 50/60Hz
Power consumption:	21 W (POWER ON), 2 W (STANDBY mode)
Mass:	4.3 kg (9.5 lbs)
Dimensions (W x H x D):	435 x 112 x 338 mm
	17-3/16 x 4-7/16 x 13-5/16 inch

Video output

COMPONENT (pin jack):	Y Output:	1.0 Vp-p (75 ohms)
	P$_B$/P$_R$ Output:	0.7 Vp-p (75 ohms)
VIDEO OUT (pin jack):	1.0 Vp-p (75 ohms)	
S-VIDEO OUT (S jack):	Y Output:	1.0 Vp-p (75 ohms)
	C Output:	286 mVp-p (75 ohms)
Horizontal resolution:	500 Lines	
Signal to noise ratio:	65 dB	

Audio output

ANALOG OUT (pin jack):	2.0 Vrms (10 k ohms)
DIGITAL OUT (optical):	– 21 to –15 dBm (Peak)

Audio characteristics

Frequency response:	CD	(sampling frequency 44.1 kHz):	2 Hz to 20 kHz
	DVD	(sampling frequency 48 kHz):	2 Hz to 22 kHz
	DVD	(sampling frequency 96 kHz):	2 Hz to 44 kHz
Dynamic range:	16 bit: More than 100 dB		
	20 bit: More than 108 dB		
	24 bit: More than 108 dB		
Wow and flutter:	Unmeasurable (less than ± 0.002%)		
Total harmonic distortion:	Less than 0.002%		

* Specifications and appearance subject to change without prior notice.

Appendix A: Table of languages and their abbreviations

When you select the subtitle language or sound, the languages shown below are displayed as abbreviations. To select the desired language, select the abbreviation corresponding the language you want to.

AA	Afar	FA	Persian	KM	Cambodian	OM	(Afan) Oromo	SU	Sundanese
AB	Abkhazian	FI	Finnish	KN	Kannada	OR	Oriya	SV	Swedish
AF	Afrikaans	FJ	Fiji	KO	Korean (KOR)	PA	Panjabi	SW	Swahili
AM	Ameharic	FO	Faroese	KS	Kashmiri	PL	Polish	TA	Tamil
AR	Arabic	FY	Frisian	KU	Kurdish	PS	Pashto, Pushto	TE	Telugu
AS	Assamese	GA	Irish	KY	Kirghiz	PT	Portuguese	TG	Tajik
AY	Aymara	GD	Scots Gaelic	LA	Latin	QU	Quechua	TH	Thai
AZ	Azerbaijani	GL	Galician	LN	Lingala	RM	Rhaeto-Romance	TI	Tigrinya
BA	Bashkir	GN	Guarani	LO	Laothian	RN	Kirundi	TK	Turkmen
BE	Byelorussian	GU	Gujarati	LT	Lithuanian	RO	Rumanian	TL	Tagalog
BG	Bulgarian	HA	Hausa	LV	Latvian, Lettish	RU	Russian	TN	Setswana
BH	Bihari	HI	Hindi	MG	Malagasy	RW	Kinyarwanda	TO	Tonga
BI	Bislama	HR	Croatian	MI	Maori	SA	Sanskrit	TR	Turkish
BN	Bengali, Bangla	HU	Hungarian	MK	Macedonian	SD	Sindhi	TS	Tsonga
BO	Tibetan	HY	Armenian	ML	Malayalam	SG	Sangho	TT	Tatar
BR	Breton	IA	Interlingua	MN	Mongolian	SH	Serbo-Croatian	TW	Twi
CA	Catalan	IE	Interlingue	MO	Moldavian	SI	Singhalese	UK	Ukrainian
CO	Corsican	IK	Inupiak	MR	Marathi	SK	Slovak	UR	Urdu
CS	Czech	IN	Indonesian	MS	Malay (MAY)	SL	Slovenian	UZ	Uzbek
CY	Welsh	IS	Icelandic	MT	Maltese	SM	Samoan	VI	Vietnamese
DA	Danish	IW	Hebrew	MY	Burmese	SN	Shona	VO	Volapuk
DZ	Bhutani	JI	Yiddish	NA	Nauru	SO	Somali	WO	Wolof
EL	Greek	JW	Javanese	NE	Nepali	SQ	Albanian	XH	Xhosa
EO	Esperanto	KA	Georgian	NL	Dutch	SR	Serbian	YO	Yoruba
ET	Estonian	KK	Kazakh	NO	Norwegian	SS	Siswati	ZU	Zulu
EU	Basque	KL	Greenlandic	OC	Occitan	ST	Sesotho		

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Appendix B: Country code list for parental lock

This list is used for the parental Lock operation. For details, see page 37.

AD	Andorra	ES	Spain	LB	Lebanon	SA	Saudi Arabia
AE	United Arab Emirates	ET	Ethiopia	LC	Saint Lucia	SB	Solomon Islands
AF	Afghanistan	FI	Finland	LI	Liechtenstein	SC	Seychelles
AG	Antigua and Barbuda	FJ	Fiji	LK	Sri Lanka	SD	Sudan
AI	Anguilla	FK	Falkland Islands (Malvinas)	LR	Liberia	SE	Sweden
AL	Albania			LS	Lesotho	SG	Singapore
AM	Armenia	FM	Micronesia (Federated States of)	LT	Lithuania	SH	Saint Helena
AN	Netherlands Antilles			LU	Luxembourg	SI	Slovenia
AO	Angola	FO	Faroe Islands	LV	Latvia	SJ	Svalbard and Jan Mayen
AQ	Antarctica	FR	France	LY	Libyan Arab Jamahiriya	SK	Slovakia
AR	Argentina	FX	France, Metropolitan	MA	Morocco	SL	Sierra Leone
AS	American Samoa	GA	Gabon	MC	Monaco	SM	San Marino
AT	Austria	GB	United Kingdom	MD	Moldova, Republic of	SN	Senegal
AU	Australia	GD	Grenada	MG	Madagascar	SO	Somalia
AW	Aruba	GE	Georgia	MH	Marshall Islands	SR	Suriname
AZ	Azerbaijan	GF	French Guiana	ML	Mali	ST	Sao Tome and Principe
BA	Bosnia and Herzegovina	GH	Ghana	MM	Myanmar	SV	El Salvador
BB	Barbados	GI	Gibraltar	MN	Mongolia	SY	Syrian Arab Republic
BD	Bangladesh	GL	Greenland	MO	Macau	SZ	Swaziland
BE	Belgium	GM	Gambia	MP	Northern Mariana Islands	TC	Turks and Caicos Islands
BF	Burkina Faso	GN	Guinea			TD	Chad
BG	Bulgaria	GP	Guadeloupe	MQ	Martinique	TF	French Southern Territories
BH	Bahrain	GQ	Equatorial Guinea	MR	Mauritania		
BI	Burundi	GR	Greece	MS	Montserrat	TG	Togo
BJ	Benin	GS	South Georgia and the South Sandwich Islands	MT	Malta	TH	Thailand
BM	Bermuda			MU	Mauritius	TJ	Tajikistan
BN	Brunei Darussalam	GT	Guatemala	MV	Maldives	TK	Tokelau
BO	Bolivia	GU	Guam	MW	Malawi	TM	Turkmenistan
BR	Brazil	GW	Guinea-Bissau	MX	Mexico	TN	Tunisia
BS	Bahamas	GY	Guyana	MY	Malaysia	TO	Tonga
BT	Bhutan	HK	Hong Kong	MZ	Mozambique	TP	East Timor
BV	Bouvet Island	HM	Heard Island and McDonald Islands	NA	Namibia	TR	Turkey
BW	Botswana			NC	New Caledonia	TT	Trinidad and Tobago
BY	Belarus	HN	Honduras	NE	Niger	TV	Tuvalu
BZ	Belize	HR	Croatia	NF	Norfolk Island	TW	Taiwan, Province of China
CA	Canada	HT	Haiti	NG	Nigeria		
CC	Cocos (Keeling) Islands	HU	Hungary	NI	Nicaragua	TZ	Tanzania, United Republic of
CF	Central African Republic	ID	Indonesia	NL	Netherlands		
CG	Congo	IE	Ireland	NO	Norway	UA	Ukraine
CH	Switzerland	IL	Israel	NP	Nepal	UG	Uganda
CI	Côte d'Ivoire	IN	India	NR	Nauru	UM	United States Minor Outlying Islands
CK	Cook Islands	IO	British Indian Ocean Territory	NU	Niue		
CL	Chile			NZ	New Zealand	US	United States
CM	Cameroon	IQ	Iraq	OM	Oman	UY	Uruguay
CN	China	IR	Iran (Islamic Republic of)	PA	Panama	UZ	Uzbekistan
CO	Colombia	IS	Iceland	PE	Peru	VA	Vatican City State (Holy See)
CR	Costa Rica	IT	Italy	PF	French Polynesia		
CU	Cuba	JM	Jamaica	PG	Papua New Guinea	VC	Saint Vincent and the Grenadines
CV	Cape Verde	JO	Jordan	PH	Philippines		
CX	Christmas Island	JP	Japan	PK	Pakistan	VE	Venezuela
CY	Cyprus	KE	Kenya	PL	Poland	VG	Virgin Islands (British)
CZ	Czech Republic	KG	Kyrgyzstan	PM	Saint Pierre and Miquelon	VI	Virgin Islands (U.S.)
DE	Germany	KH	Cambodia			VN	Vietnam
DJ	Djibouti	KI	Kiribati	PN	Pitcairn	VU	Vanuatu
DK	Denmark	KM	Comoros	PR	Puerto Rico	WF	Wallis and Futuna Islands
DM	Dominica	KN	Saint Kitts and Nevis	PT	Portugal		
DO	Dominican Republic	KP	Korea, Democratic People's Republic of	PW	Palau	WS	Samoa
DZ	Algeria			PY	Paraguay	YE	Yemen
EC	Ecuador	KR	Korea, Republic of	QA	Qatar	YT	Mayotte
EE	Estonia	KW	Kuwait	RE	Réunion	YU	Yugoslavia
EG	Egypt	KY	Cayman Islands	RO	Romania	ZA	South Africa
EH	Western Sahara	KZ	Kazakhstan	RU	Russian Federation	ZM	Zambia
ER	Eritrea	LA	Lao People's Democratic Republic	RW	Rwanda	ZR	Zaire
						ZW	Zimbabwe

JVC

VICTOR COMPANY OF JAPAN, LIMITED

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