JVC

DVD VIDEO PLAYER

XV-C3SL
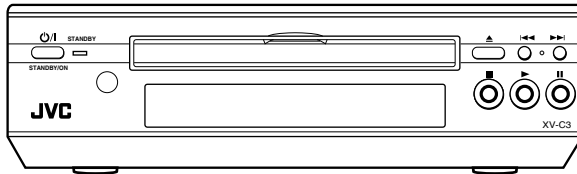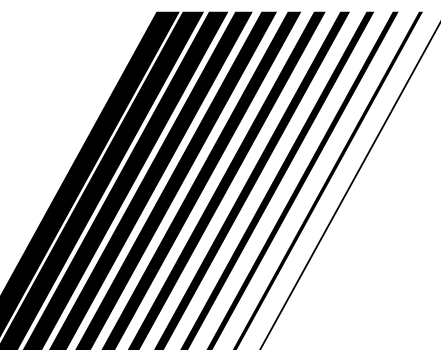
INSTRUCTIONS

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 information for future reference.

Model No.

Serial No

Warnings, Cautions and Others

IMPORTANT for the U.K.
DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.
BE SURE to replace the fuse only with an identical approved type, as originally fitted.
If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.
If this product is not supplied fitted with a mains plug then follow the instructions given below:

IMPORTANT.
DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.
The wires in the mains lead on this product are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.
The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

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.

Caution — ⏻/I switch!
Disconnect the mains plug to shut the power off completely. The ⏻/I switch in any position does not disconnect the meins line. The power can be remote controlled.
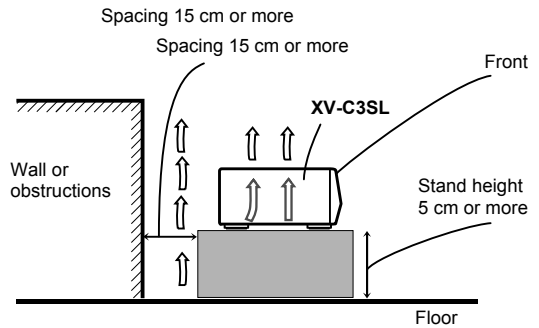
CAUTION
- Do not block the ventilation openings or holes.
  (If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)
- Do not place any naked flame sources, such as lighted candles, on the apparatus.
- When discarding batteries, environmental problems must be consid-ered and local rules or laws governing the disposal of these batteries must be followed strictly.
- Do not expose this apparatus to rain, moisture, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

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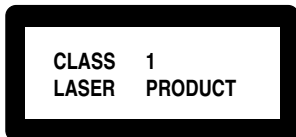Locate the apparatus as follows:
Front: No obstructions and open spacing.
Sides: No obstructions in 3 cm from the sides.
Top: No obstructions in 5 cm from the top.
Back: No obstructions in 15 cm from the back
Bottom: No obstructions, place on the level surface.

Spacing 15 cm or more
Spacing 15 cm or more
Front
XV-C3SL
Wall or obstructions
Stand height 5 cm or more
Floor

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: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)

VARNING: Osynlig laser-strålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)

ADVARSEL: Usynlig laser-stråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsæt-telse for stråling (d)

VARO: Avattaessa ja suo-jalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)

---

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Visible and invisible 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 serviceable parts inside the Unit; leave all servicing to qualified service personnel.

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 selection to be played 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 VIDEO disc.

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

■ **Parental lock***
You can restrict the playback of DVD VIDEO discs with scenes which you do not want children 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 accommodates the Dolby Digital, DTS and MPEG multichannel surround systems.
(These surround signals are output only from the DIGITAL OUT jacks.)

■ **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 VIDEO disc.

■ **Multi-disc playback**
You can enjoy Audio CD, Video CD and SVCD discs as well as DVD VIDEO discs.
In addition, you can also enjoy MP3 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 VIDEO disc that is compatible with each function.

Supplied accessories

• Audio/video cable (x 1)

• Remote Control Unit (x 1)

• R6P(SUM-3)/AA(15F) batteries (x 2)

Notes on handling

Important cautions

Installation of the unit
- Select a place which is level, dry and neither too hot nor too cold (between 5ºC and 35ºC).
- 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* 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.

* :For power consumption in standby mode, see "Specifications" on page 55.

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, Video CD, SVCD and MP3 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 the unit in moist or dusty places.

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

When you are away
When you are 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.

Preliminary knowledge

Names of parts and controls

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

Front panel
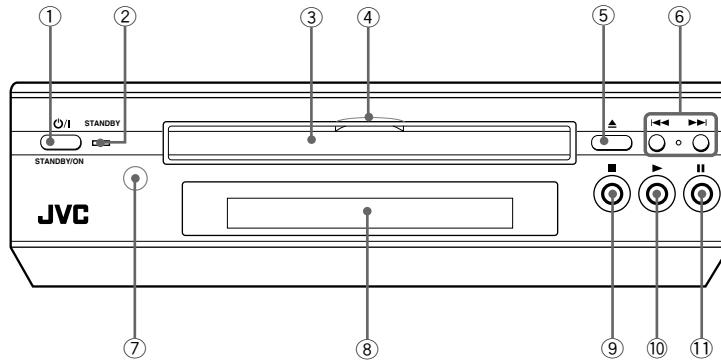
① **STANDBY/ON ⏻/❙ button (21)**
Turns the unit on or off (standby).

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 **Disc tray (22)**
Used to load a disc.

④ **LED**
Lights up when the unit is turned on and goes out when the unit is turned off (standby).

⑤ **▲ (OPEN/CLOSE) button (22)**
Used to open and close the disc tray.

⑥ **▐◀◀/▶▶▐ (SKIP) buttons (23, 41)**
Used to skip a chapter, title or track. Also, used for the page selection of a menu screen (for Video CD/SVCD). Holding down ▐◀◀ or ▶▶▐ during playback reverses or advances playback rapidly (except MP3).

⑦ **Remote sensor**
Receives signals from the remote control unit.

⑧ **Display window (below)**
Indicates the current status of the unit.

⑨ **■ (STOP) button (23, 41)**
Stops playback.

⑩ **▶ (PLAY) button (22, 41)**
Starts playback. Also, used as a SELECT button for PBC of Video CDs/SVCDs.

⑪ **❙❙ (PAUSE) button (23, 41)**
Pauses playback. Also, used to display nine continuous still pictures (STROBE function).

Display window
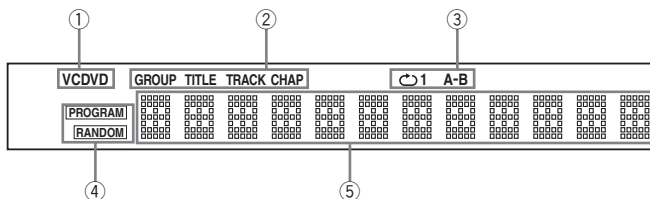
① **Disc indicator**
Indicates the type of the disc set in the disc tray. When a DVD VIDEO disc is set, "DVD" lights up. When a SVCD or Video CD disc is set, "VCD" lights up. When an Audio CD or MP3 disc is set, "CD" lights up.

② **Group/title/track/chapter indicators**
Displays group/title/track, or chapter number.

③ **Repeat mode indicators**
The appropriate indicator illuminates according to the current repeat mode.

④ **PROGRAM/RANDOM indicators**
The appropriate indicator illuminates while the unit is in the Program or Random playback mode.

⑤ **Multi-information window**
Displays the current group/title/track/chapter number(s), time and status information.

Preliminary knowledge

5

Remote control unit

Preliminary
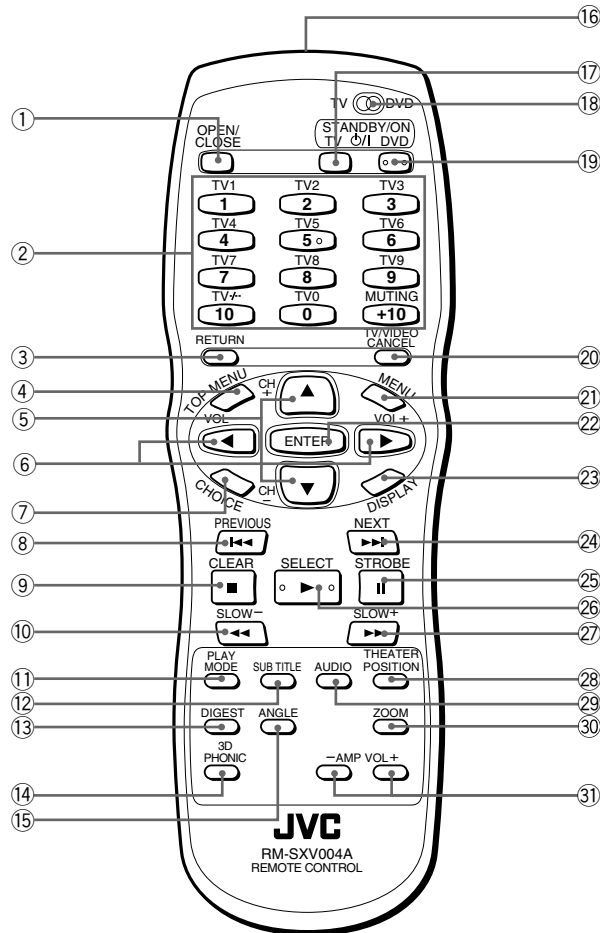
① **OPEN/CLOSE button (22)**
Opens and closes the disc tray.

② **Numeric buttons (11, 19)**
When the TV - DVD switch is set to DVD, these
buttons are used to specify a title, chapter, track or
group number.
Also used to enter a time for the Time search and a
chapter number for the Chapter search.
When the TV - DVD switch is set to TV, these buttons
are used to select a TV channel as well as mute the
TV audio.

③ **RETURN button (26)**
Returns to the previous menu (for DVD VIDEO/Video
CD/SVCD).

④ **TOP MENU button (25)**
Displays the top menu of a DVD VIDEO disc on the
TV screen.

⑤ **CURSOR (▲ Up, ▼ Down) - CH (+/−) buttons**
When the TV - DVD switch is set to DVD, these
buttons are used to select an item from a menu or
on-screen display, or to change the setting of an
on-screen display item.
In this case, we call them "CURSOR ▲/▼" buttons in
this manual.
When the TV - DVD switch is set to TV, they are used
to select a TV channel.

⑥ **CURSOR (◄ Left, ► Right) - VOL (+/−) buttons**
When the TV - DVD switch is set to DVD, these
buttons are used to select an item from a menu or
on-screen display, or to change the setting of an on-
screen display item.
In this case, we call them "CURSOR ◄/►" buttons in
this manual.
When the TV - DVD switch is set to TV, they are used
to change the TV audio volume.

⑦ **CHOICE button (45)**
Displays the preference on-screen display on the TV screen.

⑧ **I◄◄/PREVIOUS button (23, 26, 41)**
Skips back a chapter, title, track. Also used for the page selection of a menu screen (for DVD VIDEO/Video CD/SVCD).
Holding down this button during playback reverses playback rapidly (except MP3 disc).

⑨ **■/CLEAR button (23, 31, 41)**
Stops playback. Also used to clear all the programmed selection for the program play.

⑩ **◄◄/SLOW– button (23, 30, 41)**
Pressing this button during playback reverses playback rapidly (except MP3 disc).
With an MP3 disc, pressing this button skips back a Group.
Pressing this button while a DVD VIDEO disc is paused reverses playback slowly.

⑪ **PLAY MODE button (27, 31, 32, 33, 42, 43)**
Displays an on-screen display, for controlling the advanced playback functions.

⑫ **SUBTITLE button (35)**
Used to display the subtitle selection display on the TV screen, as well as used to turn the subtitle on or off (for DVD VIDEO/SVCD).

⑬ **DIGEST button (28)**
Displays beginning scenes of each title, chapter or track on the TV screen (for DVD VIDEO/Video CD/SVCD).

⑭ **3D PHONIC button (37)**
Produces a simulated surround effect.

⑮ **ANGLE button (34, 35)**
Changes camera angles during playback of a DVD VIDEO disc containing multiple camera angles (for DVD VIDEO).

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

⑰ **TV STANDBY/ON ⏻/I button (19, 20)**
Turns the TV on or off (standby).

⑱ **TV - DVD switch (19, 21)**
When setting this switch to "TV," the numeric, cursor and TV/VIDEO - CANCEL buttons are used to control your TV.
When setting it to "DVD," these buttons are used to control the unit.

⑲ **DVD STANDBY/ON ⏻/I button (21)**
Turns the unit on or off (standby).

⑳ **TV/VIDEO - CANCEL button (19)**
Switches the TV input mode when the TV - DVD switch is set to TV.
Cancels the last selection of the program when the TV - DVD switch is set to DVD.

㉑ **MENU button (25)**
Displays a DVD menu on the TV screen.

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

㉓ **DISPLAY button (38, 39)**
Displays the status information (only for DVD disc) or the time information (for any types of discs).

㉔ **►►I/NEXT button (23, 26, 41)**
Skips forward a chapter, title, or track. Also used for the page selection of a menu screen (for DVD VIDEO/Video CD/SVCD).
Holding down this button during playback advances playback rapidly (except MP3 disc).

㉕ **II/STROBE button (23, 29, 30, 41)**
Pauses playback. Also, used to display nine continuous still pictures (STROBE function).
Pressing this button while paused advances the still picture frame-by-frame.

㉖ **►/SELECT button (22, 25, 41, 42)**
Starts playback. Also used as a SELECT button for PBC of Video CD/SVCDs.

㉗ **►►/SLOW+ button (23, 30, 41)**
Pressing this button during playback advances playback rapidly (except MP3 disc).
With an MP3 disc, pressing this button skips forward a Group.
Pressing this button while a DVD VIDEO, Video CD disc, or SVCD is paused advances playback slowly.

㉘ **THEATER POSITION button (37)**
Selects a picture character from 4 positions (for DVD VIDEO/Video CD/SVCD).

㉙ **AUDIO button (36)**
Selects the audio (for DVD VIDEO/Video CD/SVCD).

㉚ **ZOOM button (30)**
Zooms in the picture (for DVD VIDEO/Video CD/SVCD).

㉛ **AMP VOL +/- button**
Amplifier volume up/down button for an external amplifier. Effective only for a JVC's Receiver.

Rear panel

Preliminary
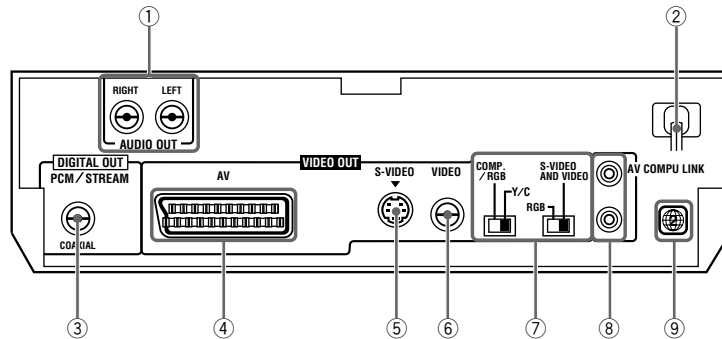
① **AUDIO OUT jacks (LEFT/RIGHT) (13, 16)**
Outputs stereo analog audio signals.

② **AC power cord (17)**

③ **DIGITAL OUT PCM/STREAM jack (COAXIAL) (16)**
Outputs digital audio signals. You must select the signal type correctly according to the external device connected to via the Preference setting display.

④ **VIDEO OUT AV-connector (15)**
The standard 21-pin SCART connector outputs video and audio signals. See "To connect to a TV with the SCART connector" on page 15 for details.

⑤ **S-VIDEO jack (13)**
Outputs S-video signals.
Note that this jack does not feed correct signals when you make the unit feed the RGB signals. See "To connect to a TV with the SCART connector" on page 15 for details.

⑥ **VIDEO jack (13)**
Outputs a composite video signal.

⑦ **VIDEO OUT SELECT switches (14, 15)**
You can select the video signal type by the COMP./RGB-Y/C switch and the RGB/S-VIDEO AND VIDEO switch.

⑧ **AV COMPU LINK jacks**
These jacks are provided for use in the future. They are currently not used.

⑨ **Region Code label (12)**
Shows Region Code number.

Operational Principles

On-screen displays

The unit provides several on-screen displays. With some displays, you can set or select preferences or functions, while the others are display only.

Opening displays

The Opening display appears automatically in some conditions.
At the bottom, the following information are indicated depending on the unit's status.
- NOW READING: The unit is now reading the disc information (TOC).
- REGION CODE ERROR!: The DVD VIDEO disc loaded cannot be played because the region code of the disc does not match the unit.
- OPEN: The disc tray is now opening.
- CLOSE: The disc tray is now closing.

Preference displays

When no disk is inserted or when a DVD VIDEO or Video CD disk is inserted and stopped, pressing the CHOICE button brings up the preference display for setting the preferences.
There are four pages: LANGUAGE, AUDIO, DISPLAY and SYSTEM as shown on the right.
See page 45 for detailed information.

Opening display
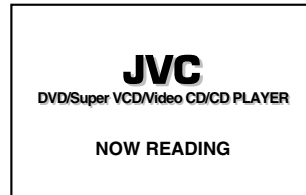
LANGUAGE
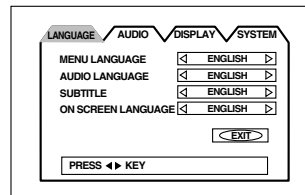
AUDIO
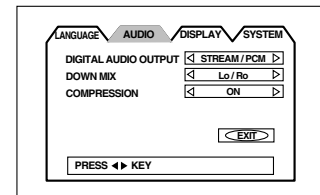
DISPLAY
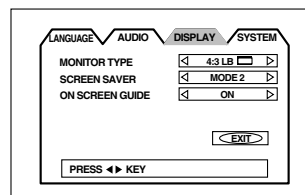
SYSTEM
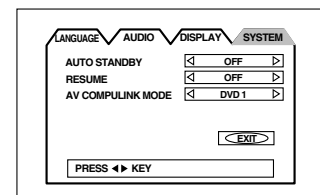
PARENTAL LOCK display

When no disc is inserted or a DVD VIDEO disc is stopped, pressing the ENTER button while holding down the ■ button brings up the PARENTAL LOCK display in which you can set the level for limiting playback.
See page 49 for detailed information.

PARENTAL LOCK
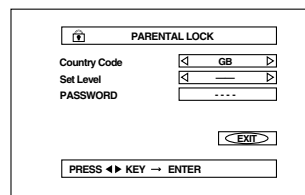
Play mode displays

Pressing the PLAY MODE button brings up the play mode display in which you can control playback functions.
Different displays appear depending on the disc type and the unit's status.

While stopped

```
REPEAT        PROGRAM        RANDOM
```

During DVD VIDEO playback

```
DVD CONTROL
REPEAT  A-B REPEAT  TIME SEARCH  CHAP. SEARCH
```
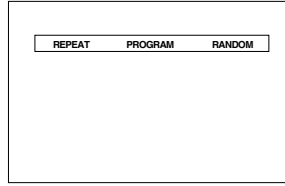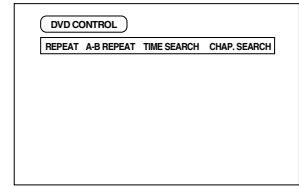
During Audio CD/MP3 disc playback

```
CD CONTROL
REPEAT  A-B REPEAT  TIME SEARCH
```

During Video CD/SVCD playback

```
VCD CONTROL
REPEAT  A-B REPEAT  TIME SEARCH  PBC CALL
```
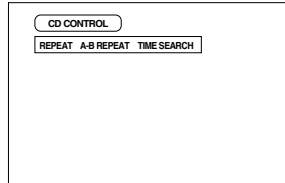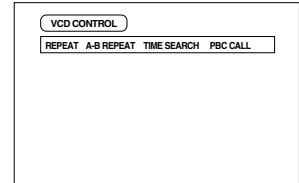
Status displays

Pressing the DISPLAY button during playback brings up the status display.
For a DVD VIDEO disc, pressing the DISPLAY button toggles between the DVD VIDEO function status display, the disc/time display and off.
For a Video CD, SVCD, Audio CD or MP3 disc, pressing the DISPLAY button switches the disc/time display on and off.

DVD VIDEO function status

```
    1/2       1/2      ...  1/2
            ENGLISH   ENGLISH
```

Disc/time (DVD VIDEO)

```
TITLE 1 CHAP. 25 TIME 2:25:25  BITRATE 3.3 Mbps
```
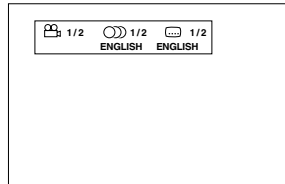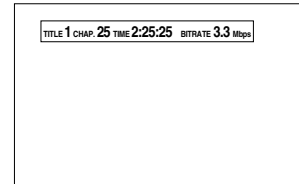
Disc/time (Audio CD/Video CD/SVCD without PBC)

```
TRACK 1 TIME 00:08   EACH
```
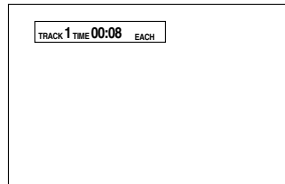
Disc/time (Video CD/SVCD with PBC)

```
TRACK 1 TIME 25:25   PBC
```

Disc/time (MP3 disc)

```
MP3  GROUP 1  TRACK 11  EACH 00:08  BITRATE 128 kbps
```
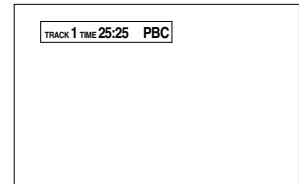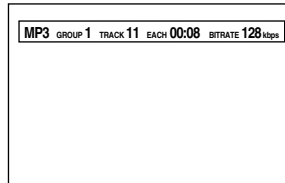
To prevent the monitor from burning out [SCREEN SAVER]

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 48).
- The screen saver function is not activated during Audio CD playback or after stopping Audio CD playback. Also, it is not activated during MP3 disc playback.

JVC DVD/Super VCD/Video CD/CD PLAYER DVD

Preliminary
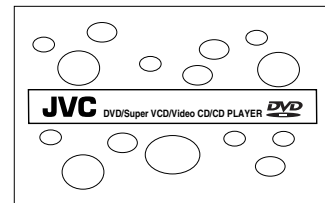
On-screen guide icons

During DVD VIDEO 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 34.)

: Displayed at the beginning of a scene recorded with multiple audio languages. (See page 36.)

: Displayed at the beginning of a scene recorded with multiple subtitle languages. (See page 35.)

You can set the unit not to display on-screen icons above via the preference settings described on page 48.

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
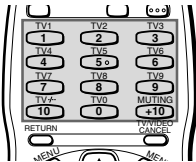
To select a track/title number

- **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.

* There is another method for selecting a track or group of an MP3 disc. See the appropriate section.

About discs

Playable disc types

Playable and non-playable disc types are as follows:

Playable discs

DVD VIDEO	SVCD	Video CD	Audio CD

The DVD VIDEO Logo is a trademark.

- CD-R and CD-RW discs recorded with SVCD, Video CD, Audio CD or MP3 format can be played back, though some may not be played back because of the disc characteristics or recording condition. Note that the CD-R and CD-RW that are not finalized cannot be played back.
- DVD VIDEO players and DVD discs have their own Region Code numbers. This unit only can play back DVD VIDEO discs whose Region Code numbers include "2."
  Examples of playable DVD VIDEO discs:

ALL   2   2 5   1 2 3 4   1 2 3 4 5 6

Non-playable discs

DVD-ROM, DVD-RAM, DVD AUDIO, DVD-R, DVD-RW, DVD+RW, CD-ROM, PHOTO CD, CD-EXTRA, CD-G, CD-TEXT, SACD

- Playing back discs listed as "Non-playable discs" above may generate noise and damage speakers.
- This unit can play back audio recorded in CD-G, CD-EXTRA and CD-TEXT discs.

Disc structure

A DVD VIDEO disc is comprised of "titles," while an Audio CD, Video CD or SVCD is comprised of "tracks." Each title may be divided into some "chapters." For example, if a DVD VIDEO disc contains some movies, each movie may have its own title number, and each movie may be divided into some chapters. In a DVD VIDEO 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.
For the MP3 disc structure, see page 40.

(Example: DVD VIDEO disc)

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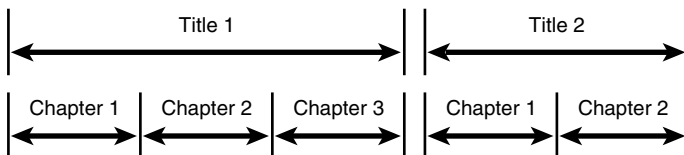
(Example: Audio CD/Video CD/SVCD)

Track 1	Track 2	Track 3	Track 4
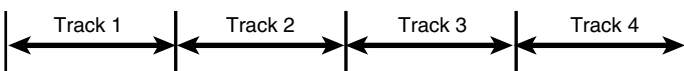
Connections

*In the following description, "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 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

Red White Yellow

S-video cable (not supplied)

TV

IN
S-VIDEO
VIDEO
LEFT
RIGHT
AUDIO

Yellow
White
Red

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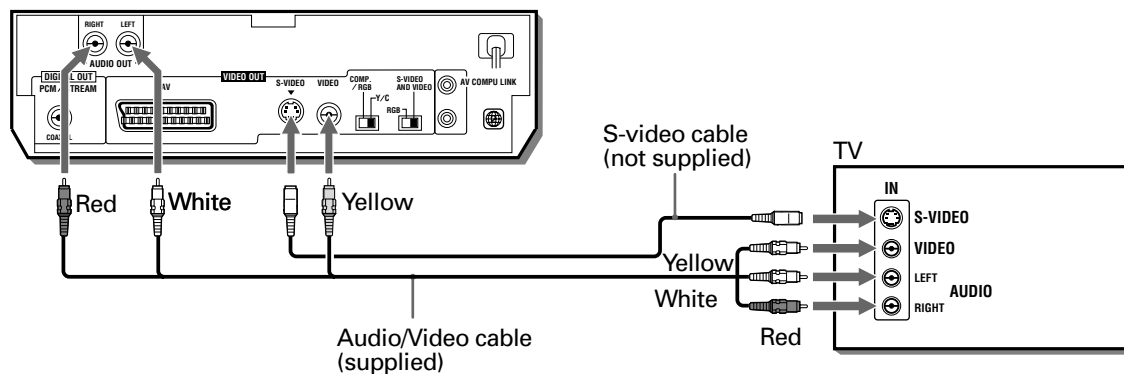
Connect the unit to a TV equipped with stereo audio input and video input jacks using the supplied audio/video cables.

- 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 S-video cable (optional) in addition to the (standard) video connection to get better picture quality.

Enabling the S-VIDEO output or the VIDEO output

For your TV connection, you can use either the S-VIDEO output or the VIDEO output. (You cannot use both outputs at a time.)
When you use the S-VIDEO jack or the VIDEO jack, set the VIDEO OUT SELECT (S-VIDEO AND VIDEO/RGB) switch on the rear panel to "S-VIDEO AND VIDEO." Then, "S-VIDEO" appears on the display window for a few seconds. Note that these outputs have no relationship to the setting of the Y/C-COMP./RGB switch.
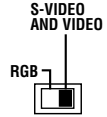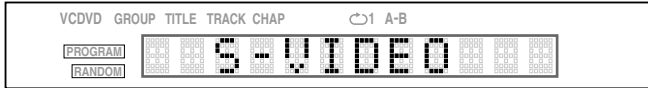
S-VIDEO AND VIDEO

RGB

(Display Window)

```
VCDVD  GROUP  TITLE  TRACK  CHAP        ↻1  A-B
PROGRAM
RANDOM           S-VIDEO
```

IMPORTANT!

- **Note that you must change the switch position while the unit is stopped or the unit power is off (on standby) with the DVD removed. Otherwise, the changed setting is not effective.**
- **For your TV connection, you can use either the S-video output or the RGB output from the SCART connector at a time. When you use the S-video output for your TV, be sure that the SCART connector (VIDEO OUT-AV connector) is not used.**

NOTES

- **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.**
- **Connect the unit to a PAL television. Do not connect the unit to an NTSC television.**

To connect to a TV with the SCART connector

You can enjoy using the unit by simply connecting it to your television set with a 21-pin SCART cable. To hear audio sound with better quality, connect the audio output to your audio equipment.

TV

The unit

SCART cable
(not supplied)
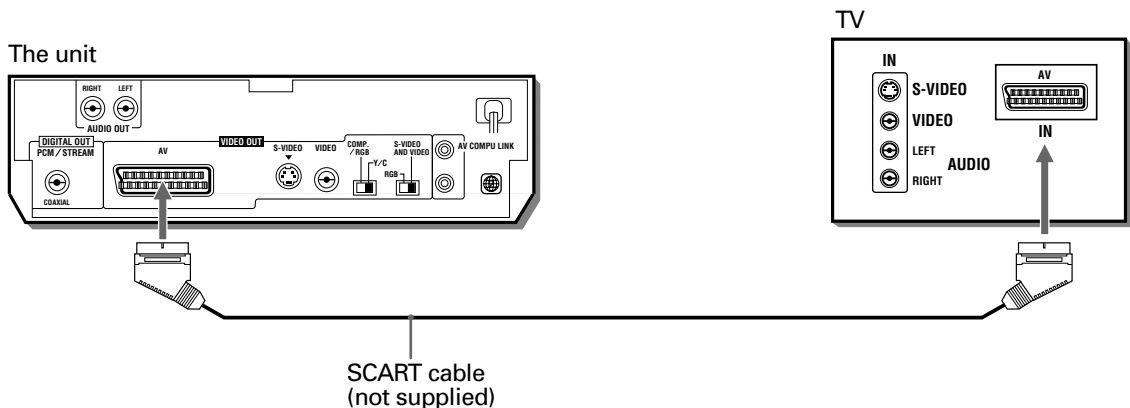
Set the COMP./RGB-Y/C switch correctly according to your TV.
• If the TV only accommodates the composite video signal, set the switch to "COMP./RGB." Also, at the same time, you need to set the RGB/S-VIDEO AND VIDEO switch to "S-VIDEO AND VIDEO." Then, "S-VIDEO" appears on the display window for a few seconds (see page 13).

• If the TV accommodates the Y/C signals, set the switch to "Y/C" so that you can enjoy better-quality pictures. Also, at the same time, you need to set the RGB/S-VIDEO AND VIDEO switch to "S-VIDEO AND VIDEO." Then, "S-VIDEO" appears on the display window for a few seconds (see page 13).

• If the TV accommodates the RGB signals, set the switch to "COMP./RGB." Also, at the same time, you need to set the RGB/S-VIDEO AND VIDEO switch to "RGB." Then, "RGB" appears on the display window for a few seconds.

If the RGB/S-VIDEO AND VIDEO switch is set to "S-VIDEO AND VIDEO," unwanted phenomenon such as abnormal TV image color will occur.

(Display Window)
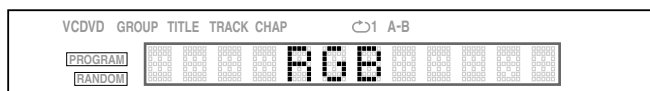
VCDVD GROUP TITLE TRACK CHAP   ⟲1 A-B
PROGRAM
RANDOM
RGB

IMPORTANT!
Note that you must change the switch position while the unit is stopped or the unit power is off (on standby) with the DVD removed. Otherwise, the changed setting is not effective.

NOTE
• **Do not connect the unit to an NTSC television. Connect it to a PAL television.**
• **When the unit is set to feed the RGB signals, the S-VIDEO jack does not feed correct signals.**

Getting started

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.

The unit

Red | White

Audio cable
(not supplied)

Amplifier or receiver

White

Red
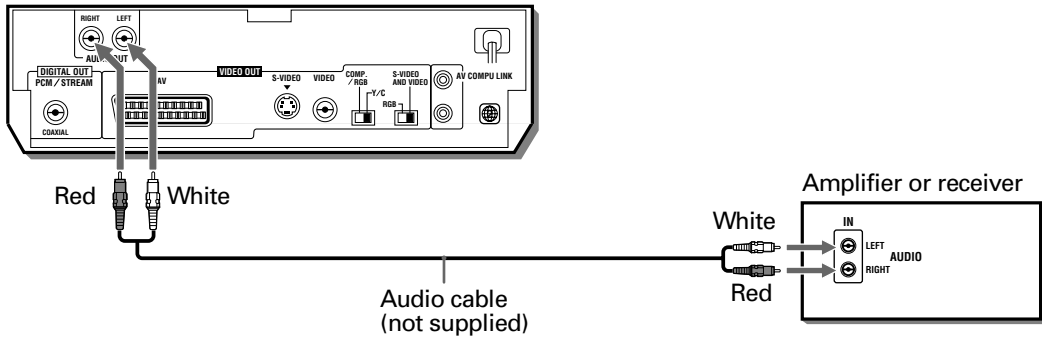
• Connect the unit's AUDIO OUT to any line-level inputs (such as AUX, DVD, CD, etc.) of an audio amplifier or receiver.

To connect to audio equipment with a digital input

You can enhance the sound quality by connecting the unit's DIGITAL OUT jack (COAXIAL) to the digital input of a receiver, MD, etc. by using an optional digital cable. The digital audio signal from a disc (except MP3 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, we also recommend to make the analog connection, because, depending on discs, no signal may be output from the DIGITAL OUT.

The unit

Red | White

Audio cable
(not supplied)

White

Red

Coaxial digital cable
(not supplied)
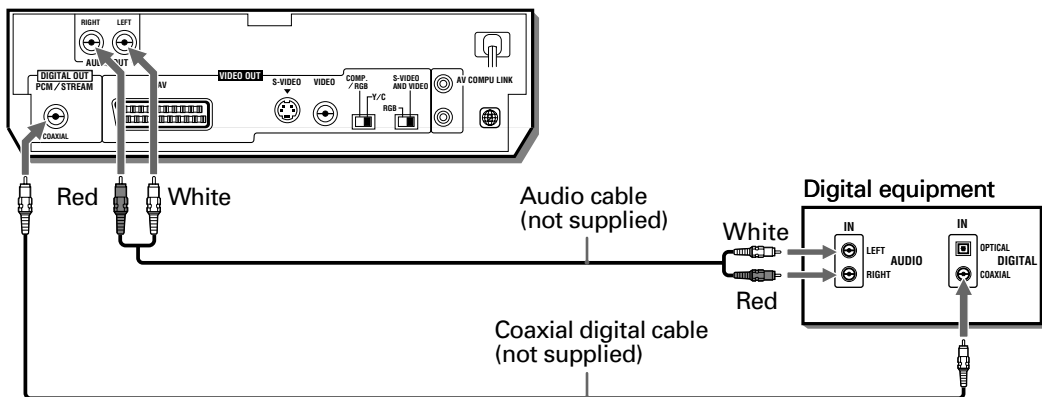
Digital equipment

NOTES

• **When you connect the unit's DIGITAL OUT to digital audio equipment, before using, make the "DIGITAL AUDIO OUTPUT" setting in the "AUDIO" page of the preference 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 46.**

• **With the digital connection, the COMPRESSION settings in the AUDIO page of the preference display are invalid. Settings for these items must be made from the decoder.**

To connect the power cord

When all the audio/video connections have been made, plug the AC power cord into the wall outlet. 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.

⚠ Warning

• Do not damage, alter, twist, or pull the power cord, as this 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.

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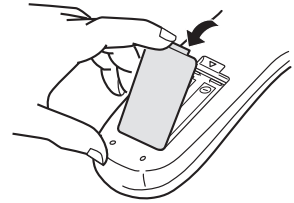
2 Place the two accessory R6P (SUM-3)/AA(15F) batteries in the remote control according to the polarity markings ("+" and "–") inside the compartment and on the batteries.
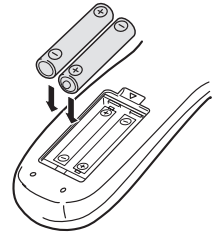
3 Place the cover over the compartment, and press down lightly.
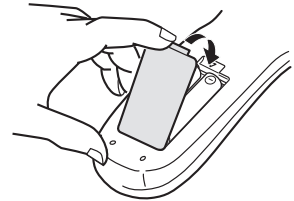
• The batteries will last about six months with normal use. If the functions of the remote control become erratic, replace the batteries. See below for more information.

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.

Precautions
- **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.**

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.
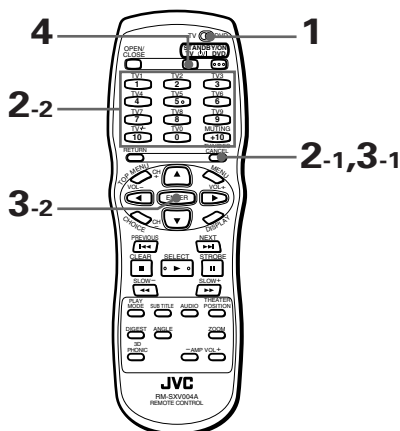
1 Set TV-DVD switch to TV position.

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

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

3 Press ENTER while holding down TV/VIDEO - CANCEL.

4 Try to operate your TV by pressing TV STANDBY/ON ⏻/|.
If your TV turns on or off, you have successfully set the control signal.

Manufacturer code list

No.	Manufacturer
01	JVC
02	PHILIPS/CCE/MAGNAVOX
03	MITSUBISHI
04	PANASONIC
05	RCA
06	SHARP
07	SONY
08	TOSHIBA
09	ZENITH
10	PHILCO/HITACHI
11	PANASONIC
12	SAMSUNG
13	SANYO/SEARS
14	TOSHIBA
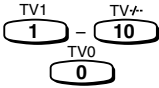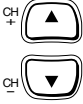
No.	Manufacturer
15	GRADIENTE
16	SANYO
17	PHILCO/DAEWOO
18	LG (GOLDSTAR)
19	GRUNDIG
20	NEC/GRADIENTE
21	PHILCO
22	BEIJING/NOBLEX
23	JVC (ONWA)
24	JVC (ONWA)
25	JVC (ONWA)
26	THOMSON
27	FERGUSON
28	ITT

No.	Manufacturer
29	MIVAR
30	FINLUX
31	NOKIA
32	FUNAI
33	SAMSUNG
34	SAMSUNG/PEONY/CHANGHONG
35	SAMSUNG
36	AIWA
37	DAEWOO
38	JINXING/PEONY
39	PEONY
40	KONKA
41	TCL

The following buttons can be used for operating the TV :
To use the CURSOR ▲/▼/◄/► (CH+, CH–, VOL–, VOL+), TV/VIDEO - CANCEL and numeric buttons for TV control, set the TV - DVD switch to "TV."

TV (●)DVD

TV	**Turns the TV on or off.**
TV/VIDEO CANCEL	**Switches the TV input mode between TV and VIDEO.**
TV1 TV✝✲- **1** – **10** TV0 **0**	**Selects the TV channels directly.** *** For some TVs, pressing "+10" functions as the "100+," while "10" functions as the ENTER button if your TV requires pressing the ENTER button after selecting a channel number.**
MUTING **+10**	**Mutes the TV sound.**
CH+ ▲ CH– ▼	**Changes the TV channels.**
VOL– ◄ VOL+ ►	**Adjusts the TV volume.**

NOTES
- **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.**

Getting started

Basic operations

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

Setting TV-DVD switch to DVD

Set TV-DVD switch to DVD position.
Now you can enjoy playing DVD VIDEO, Audio CD, Video CD, SVCD and MP3 discs after turning on the unit.

TV-DVD switch
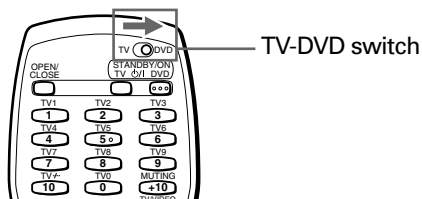
Turning on/off the unit

Press DVD STANDBY/ON ⏻/❙ on the remote control unit or press STANDBY/ON ⏻/❙ on the front panel.
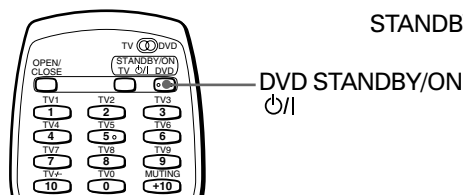
STANDBY/ON
⏻/❙

DVD STANDBY/ON
⏻/❙
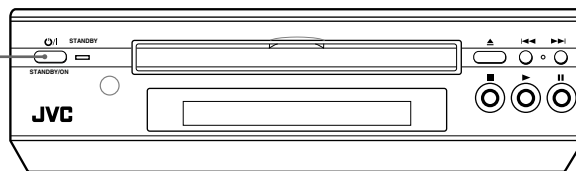
Hints

- You can turn on the unit by pressing the ► button. In this case, the unit starts playback if the disc is set in the disc tray.
- If no disc is set, "NO DISC" appears on the display window.
- You can turn on the unit by pressing the ▲ (OPEN/ CLOSE) button on the front panel.

NOTE
- **Even if you press one of the above buttons 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 consumes a very small amount of power.**

Inserting and removing discs

1 Press ▲ (OPEN/CLOSE) to open the disc tray.

2 Place a disc in the disc tray.

With the label side up

• To insert an 8-cm disc,
place it in the inner recess.
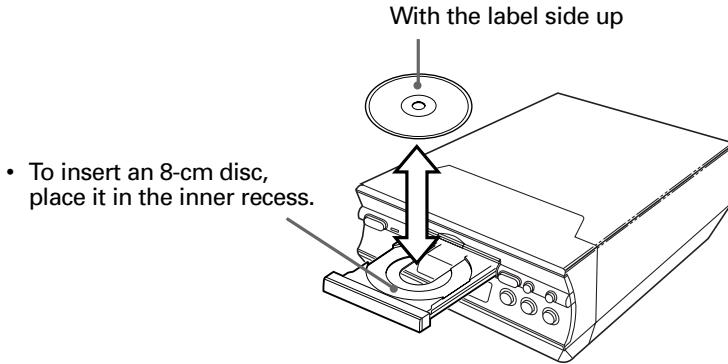
3 Press ▲ (OPEN/CLOSE) to close the disc tray.

Hints
• If you press ▲ (OPEN/CLOSE) during playback, the unit stops playback and opens the disc tray.

NOTES
• **The unit can playback DVD VIDEO, Audio CD, Video CD, SVCD and MP3 discs only. Do not load other disc types. For details about playable disc types, see page 12.**
• **When loading a disc in the disc tray, be sure to position the disc inside the recess. Otherwise, the disc may be damaged when the disc tray is closed, and the disc may not be removed from the unit.**

Basic playback

Now you can play a disc. First, let's enjoy simple playback using a DVD VIDEO, Audio CD, Video CD or SVCD disc according to the following procedure. For basic operations with an MP3 disc, see page 40.

To start playback

| DVD VIDEO | Audio CD | Video CD | Super VCD |

Press ►.
The unit starts playback from the beginning.

NOTES
• **When the resume point is memorized, pressing ► starts playback from that point instead of the beginning. See page 24 and 49.**
• **During playback, the display window shows the title/chapter or track number being played.**
• **With Video CD/SVCD discs with PBC control or some DVD discs, the menu display may appear on the TV screen after starting playback. In such a case, select an item to be played back from the menu. For operation using a menu, see page 25.**
• **With some DVD discs, the unit starts playback automatically after inserting the disc.**
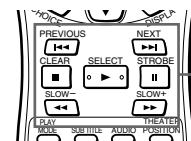
Basic control buttons

To stop playback completely

`DVD VIDEO` `Audio CD` `Video CD` `Super VCD`

Press ■.

The unit stops playback.

To stop playback temporarily

`DVD VIDEO` `Audio CD` `Video CD` `Super VCD`

Press ❙❙.

The unit pauses playback. To resume playback, press ►.

To advance or reverse playback rapidly while monitoring

`DVD VIDEO` `Audio CD` `Video CD` `Super VCD`

■ During playback

From the Remote control unit

Press ◄◄ or ►►.

Each press of ◄◄ or ►► increases the playback speed. You can select the speed among 2x, 5x, 10x, 20x and 60x the normal speed.

Pressing ► returns the unit to normal playback.

NOTE
- **When you play a DVD VIDEO, Video CD, or SVCD disc, no sound comes out.**

From the Front panel

Hold down ❙◄◄ or ►►❙ .

Holding down ►►❙ advances playback rapidly, while holding down ❙◄◄ reverses playback rapidly. The speed will change from 5x to 20x the normal speed if you keep holding down the button for a certain period of time. Releasing the button returns the unit to normal playback.

NOTES
- **When you play a DVD VIDEO, Video CD, or SVCD disc, no sound comes out.**
- **When you play an MP3 disc, ❙◄◄ and ►►❙ do not work.**

To locate the beginning of the scene or song

`DVD VIDEO` `Audio CD` `Video CD` `Super VCD`

■ During playback

Press ❙◄◄ or ►►❙ .

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

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

Basic operations

Resuming playback

The unit can memorize the position on a disc where you interrupt playback, and resume playback from that position next time you press ►.

To memorize the interrupted position

`DVD VIDEO` `Video CD` `Super VCD`

1 Set the "RESUME" setting on the "SYSTEM" page of the preference display to "ON."
(See page 49 for details about how to set.)

2 At the position you want to interrupt playback, press ■, or press DVD STANDBY/ON ⏻/▎on the remote control or STANDBY/ON ⏻/▎ on the front panel.
The unit memorizes the interrupted position.

Hints
• Even if you interrupt playback by pressing ■ in step 2 above and then turn off the power, the memory is not cleared.

To resume playback

`DVD VIDEO` `Video CD` `Super VCD`

■ While the disc you interrupt playback last time is still in the disc tray

Press ►.

The unit starts playback from the position where you interrupted playback last time.

• **To clear the resume position memory**
Carry out one of the followings.
*Take out the disc from the disc tray.
*Press ■ while stopped.
*Turn on the unit by pressing DVD STANDBY/ON ⏻/▎(on the remote control) or STANDBY/ON ⏻/▎(on the front panel).

NOTES
• **The resume function does not work with Audio CD and MP3 discs.**
• **The resume function does not work if "RESUME" on the "SYSTEM" page of the preference display is set to "OFF."**
• **In the case of a Video CD/SVCD disc with PBC function, the unit may resume playback from a point slightly earlier than the resume point you stored.**
• **The resume function does not work in the program or random mode.**

Basic operations

Advanced operations

In this section, we describe advanced operations for playback of a DVD VIDEO, Audio CD, Video CD or SVCD disc. For operations with an MP3 disc, see pages 40 to 44.

Playing from a specific position on a disc

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

To locate a desired scene from the DVD menu

DVD VIDEO 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.
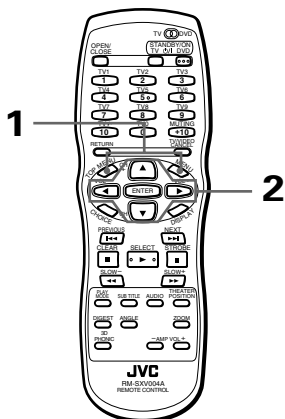
■ For TOP MENU operation:
    During DVD VIDEO playback or while stopped
  For MENU operation:
    During DVD VIDEO playback

1 Press TOP MENU or MENU.

The menu appears on the TV screen.

Hints

About menu

Normally, a DVD VIDEO 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 TOP MENU button. Some DVD VIDEO discs may also have a different menu which appears by pressing the MENU button.

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

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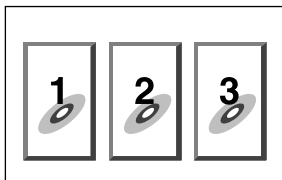
2 Use CURSOR ▲/▼/◄/► to select a desired item, then press ENTER.

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 TOP MENU 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.

• **The menu button does not work while stopped.**

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

Some Video CD/SVCD discs supports the PBC function. PBC is an abbreviation of "PlayBack Control." A Video CD/SVCD disc recorded with PBC has its own menus, such as a list of the songs of the disc. You can locate a specific scene by using the menu.
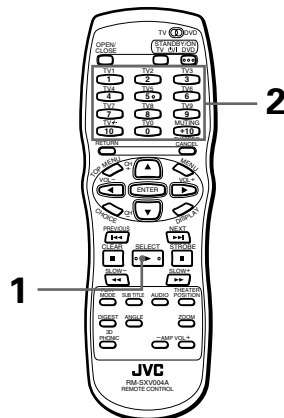
■ When a Video CD/SVCD disc with PBC is stopped

1 Press ►.

A disc menu appears on the TV screen (The PBC function is activated).

Example:
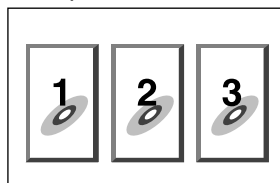
"PBC" is indicated in the display window on the front panel.

2 Use the numeric buttons to select the desired item.

* See page 11 for details about how to use the numeric buttons.

The unit starts playback of the selected item. You can return to the menu by pressing the RETURN button.
When "NEXT" or "PREVIOUS" appears on the TV screen, the unit generally works as follows:
* Pressing ►►I advances to the next page.
* Pressing I◄◄ returns to the previous page.
* The method of the operation is different depending on the disc.

[Hints]

* If you want to playback a PBC-compatible Video CD/SVCD disc without activating the PBC function, start playback by using the numeric buttons instead of the ► button.
* To activate the PBC function when a PBC-compatible Video CD/SVCD disc is being played back without the PBC function, press ■ then press ►.
* You can also activate the PBC function using the play mode menu display as follows.
   1 Press PLAY MODE.
   2 Use CURSOR ◄/► to move ↖ to [PBC CALL], then press ENTER.

To locate a desired selection using the numeric buttons
DVD VIDEO | Audio CD | Video CD | Super VCD

You can play a desired title or chapter (DVD VIDEO) or track (Audio CD/Video CD/SVCD) by specifying the number.
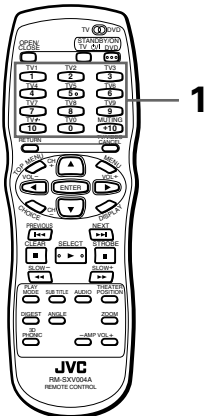
■ For DVD VIDEO :
      At any time except menu is displayed
  For Audio CD : At any time
  For Video CD/SVCD :
      During playback without PBC function or while stopped

1 Use the numeric buttons to specify the number.

   * During DVD VIDEO playback (except when a menu is shown), a chapter is specified.
   * While a DVD VIDEO is stopped, a title is specified.
   * For an Audio CD or Video CD/SVCD, a track is specified.
  The unit starts playback from the beginning of the selection.
   * See page 11 for details about how to use the numeric buttons.

NOTES

* **During DVD VIDEO playback, if a menu is shown on the TV screen, the numeric buttons may be used for selecting an item in the menu**.
* **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/ SVCD playback with PBC function.**

To locate a desired selection using I◄◄ or ►►I
DVD VIDEO | Audio CD | Video CD | Super VCD

■ For DVD VIDEO :
      At any time except menu is displayed
  For Audio CD : At any time
  For Video CD/SVCD :
      During playback without PBC function

1 Press I◄◄ or ►►I .
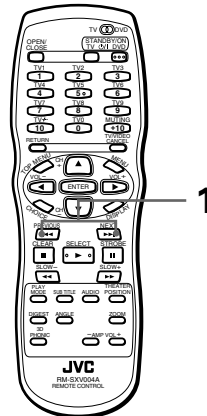
With an Audio CD, Video CD or SVCD pressing the button skips a track. With a DVD VIDEO disc, pressing the button skips a chapter or title depending on the disc configuration.
The selection number appears in the display window on the front panel.
* To locate a subsequent selection, press ►►I once or repeatedly until the desired selection number appears in the display.
* To locate to beginning of the current selection, press I◄◄ once.

• To locate a former selection, press ⏮◀◀ repeatedly until the desired selection number appears in the display.

NOTES
• **This function may not work with some DVD VIDEO discs.**
• **This function does not work during Video CD/ SVCD playback with PBC function.**

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

DVD VIDEO

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

3
2-2, 4
2-1
1
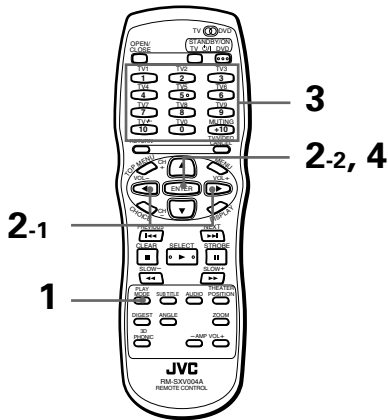
■ During DVD VIDEO playback

1 Press PLAY MODE.

The DVD play mode menu appears on the TV screen.

2 Use CURSOR ◀/► to move ▷ to [CHAP. SEARCH], then press ENTER.

"GO TO CHAPTER = " appears under the menu.

```
DVD CONTROL

REPEAT   A-B REPEAT   TIME SEARCH   CHAP. SEARCH
                                        ▷

GO TO CHAPTER =
```
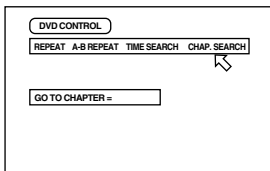
3 Use the numeric buttons (0 to 9) to enter the desired chapter number.

Example:
To select chapter number 8 :
  Press "8" → ENTER.
To select chapter number 37 :
  Press "3" → "7" → ENTER.

4 Press ENTER.

The unit starts playback from the selected chapter.

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

NOTES
• **You can also locate a desired chapter directly by specifying the chapter number using the numeric buttons during playback (except when a menu is shown). See page 26.**
• **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.
• **To turn off the play mode menu:**
  Press PLAY MODE.

To locate a desired position in the current title or track [TIME SEARCH]

DVD VIDEO **Audio CD** **Video CD** **Super VCD**

You can play a disc from the desired position by specifying the elapsed time from the beginning of the current title or track using the TIME SEARCH function.
Note that some DVD VIDEO discs do not contain time information, and the TIME SEARCH function cannot be used for them.

3
2-2, 4
2-1
1
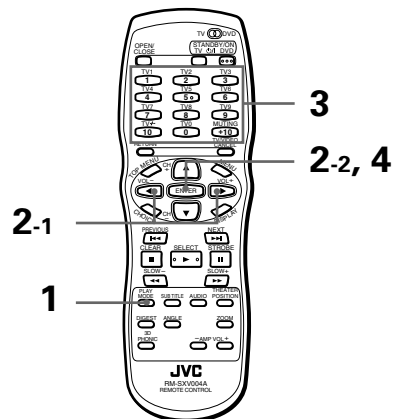
■ For DVD VIDEO : During playback
For Audio CD : During playback
For Video CD/SVCD :
  During playback without PBC function

1 Press PLAY MODE.

The play mode menu appears on the TV screen.

Advanced operations

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2 Use CURSOR ◄/► to move ▨ to [TIME SEARCH], then press ENTER.
"GO TO" appears under the menu.

3 Use the numeric buttons (0 to 9) to enter the time.
You can specify the elapsed time of the current title or track to set the location which you want to playback from.

4 Press ENTER.
The unit starts playback from the specified time.

(for DVD VIDEO)

DVD CONTROL
REPEAT A-B REPEAT TIME SEARCH CHAP. SEARCH ▨
GO TO 2 : 3 4 : 0 0
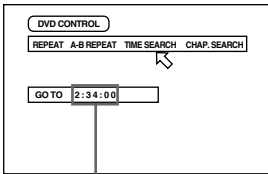
Selected time

(for Audio CD)

CD CONTROL
REPEAT A-B REPEAT TIME SEARCH ▨
GO TO 0 2 : 3 4
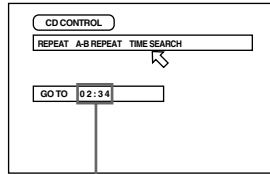
Selected time

Hints
- "10" and "+10" buttons are not used in this function.
- You can specify the time in hour/minute/second format for DVD VIDEO discs, and in minute/second format for Audio CD, Video CD and SVCD discs.

(for Video CD/SVCD)

VCD CONTROL
REPEAT A-B REPEAT TIME SEARCH PBC CALL ▨
GO TO 0 2 : 3 4
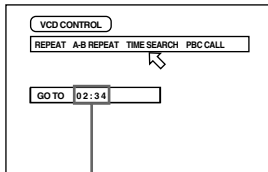
Selected time

- **Example (for DVD VIDEO)**
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 : _ _
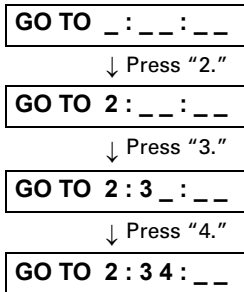
↓
Press ENTER.

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 button to re-select the value.

GO TO 2 : 3 5 : _ _

↓ Press CURSOR ◄ .

GO TO 2 : 3 _ : _ _

↓ Press "4."

GO TO 2 : 3 4 : _ _
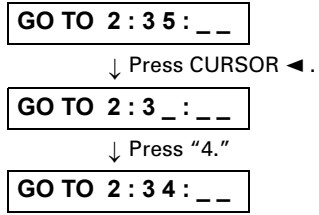
NOTES
- **When ◌ appears on the TV screen in step 2 :**
The time you have selected is not contained on the disc, or the time search function does not work on the disc.
Also note that the time search function does not work during Video CD/SVCD playback with the PBC function.
- **To turn off the play mode menu :**
Press PLAY MODE.
- **The TIME SEARCH function cannot be used during program playback.**

To locate a desired scene from the display [DIGEST]

DVD VIDEO Video CD Super VCD

The unit can display the opening scene of each title or chapter on a DVD VIDEO or each track of a Video CD/SVCD. You can select a desired scene from those displayed on the TV screen.
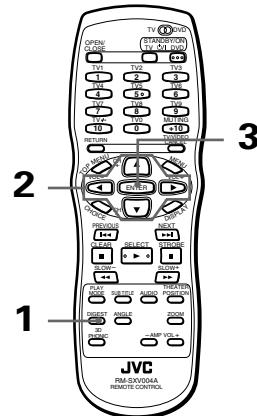
■ For DVD VIDEO :
While stopped or during playback.
For Video CD/SVCD :
While stopped or during playback without PBC function.

1 Press DIGEST.

Up to nine opening scenes are displayed.

- While a DVD VIDEO disc is stopped :
  The opening scene of each title appears on
  the TV screen.
- During DVD VIDEO disc playback :
  The opening scene of each chapter in the
  current title appears on the TV screen.
- When a Video CD/SVCD disc is loaded :
  The opening scene of each track appears on
  the TV screen.
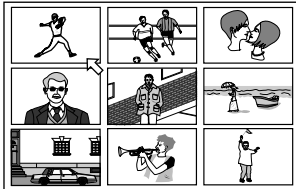
2 Use CURSOR ▲/▼/◄/► to select the
desired scene.

The selected scene is indicated by ⬥.
If there are more than 9 scenes, 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.
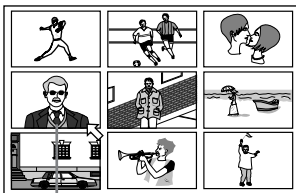
Selected scene

Hints

- When the lower right scene is selected, pressing
  CURSOR ► advances to the next page if available.
  Similarly, when the upper left scene is selected,
  pressing CURSOR ◄ returns to the previous page
  (if available).

- When there are more than one digest page, after
  pressing DIGEST, pressing ►►| before all 9 scenes
  of the first page appear on the TV screen will
  advance to the next page. Similarly, pressing |◄◄
  before all the scenes of the second or latter page
  appears on the TV screen will return to the
  previous page.

3 Press ENTER.

The unit starts playback from the selected
scene.

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 Video CD Super VCD
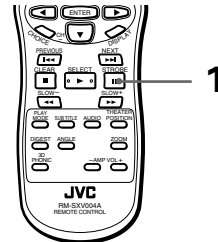
■ While paused (still)

1 Press ❚❚.

Each time you press ❚❚, the still picture
advances to the next frame.
Pressing ► returns to normal playback.

To display continuous still pictures [STROBE]   DVD VIDEO Video CD Super VCD
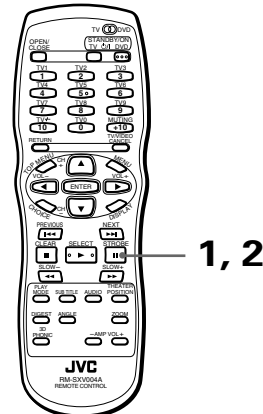
■ During playback

1 At the point you want to view as continuous
photographs, press ❚❚.
The unit pauses playback.

2 Press and hold ❚❚ for more than 1 second.
Nine continuous still pictures appear on the TV screen.

Advanced
operations
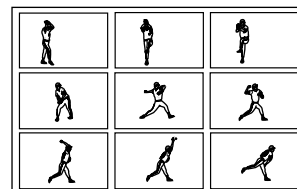
Hints

- Pressing **II** when the nine still pictures are shown will advance to the next nine still pictures.
- Pressing ► when the nine still pictures are shown will advance pictures in normal playback speed.

- **To cancel strobe play**
  Press and hold **II** for more than 1 second.

NOTE
- **If you press and hold II for more than 1 second during playback, nine still pictures also appear but they advance in normal playback speed.**

To playback in slow-motion [SLOW]

DVD VIDEO | Video CD | Super VCD
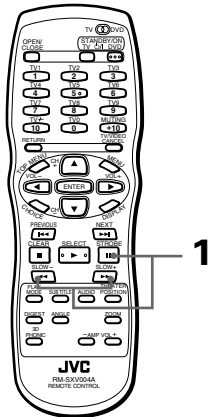
■ During playback

1 Press **II**, then use ◄◄ / ►►.

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

- **To return to normal playback**
  Press ►.

- **To pause slow-motion playback**
  Press **II**.

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

To zoom a scene [ZOOM]

DVD VIDEO | Video CD | Super VCD
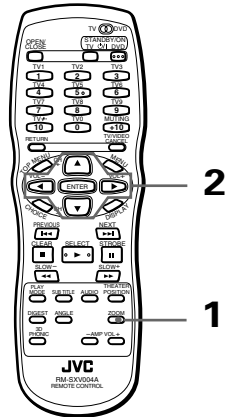
■ During playback or while paused

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.
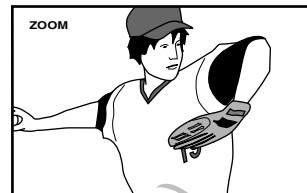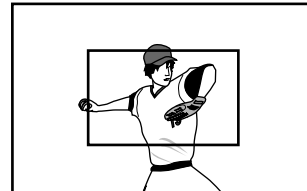
2 Use CURSOR ▲/▼/◄/► to move the zoomed-in scene.
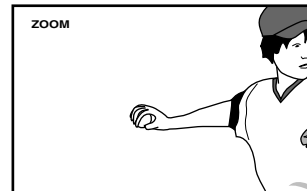
- **To return to normal playback**
  Press ZOOM again.

NOTE
- **While zoomed, the picture may look coarse.**

Advanced operations

Changing the playback order

You can play titles or tracks on a disc inserted in the desired order or in random order.

To playback in the desired order [PROGRAM] | DVD VIDEO | Audio CD | Video CD | Super VCD |

You can play titles or tracks on a disc inserted in the desired order by using the Program function.
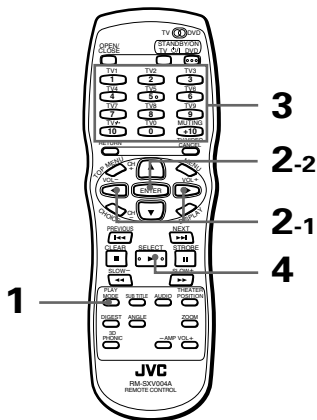
■ While stopped

1 Press PLAY MODE.

The play mode menu appears on the TV screen.

2 Use CURSOR ◄/► to move ↘ to [PROGRAM] and press ENTER.

REPEAT	PROGRAM	RANDOM

1	2	3	4	5	6
7	8	9	10	11	12
13	14	15	16	17	18
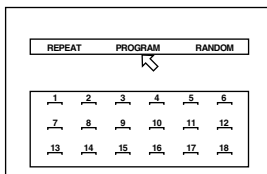
The program table appears under the menu bar (as shown above).
The "PROGRAM" indicator appears in the display window on the front panel.

3 Specify the titles or tracks in the desired order using the numeric buttons.

See page 11 for details about how to use the numeric buttons.
Up to 18 titles or tracks can be programmed.
You may select the same title or track more than once.

1 / 3	2 / 2	3 / 1	4 / 2	5	6
7 / 8	8 / 9	9 / 10	10	11	12
13	14	15	16	17	18
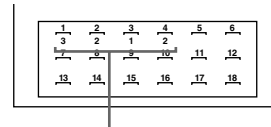
The programmed title/track number is shown under each program number.

- **If you specify a wrong selection**
  Press TV/VIDEO-CANCEL. The last selection programmed is erased.

- **To clear the program**
  Press ■ .

  4 Press ► to start program play.

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

NOTES

- **Some DVD VIDEO discs may not be played back correctly in program mode.**
- **During program playback, pressing ►►| skip to the next selection of the program. Pressing |◄◄ returns to the beginning of the current selection, however, you cannot skip back to the previous selection.**
- **By pressing PLAY MODE during program playback, the program table is displayed on the TV screen and the current program number is indicated in yellow.**

- **To quit program playback**
  Press ■ while stopped.
  The "PROGRAM" indicator in the display window turns off.
  Note that the program remains.
  To clear the program, press ■ while the program table is shown on the TV screen.

Hints

- While stopped and the play mode menu is displayed on the TV screen, by moving ↘ to [PROGRAM] and pressing ENTER, the program mode quits. Note that the program remains.

Advanced operations

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To playback in random order [RANDOM] `DVD VIDEO` `Audio CD` `Video CD` `Super VCD`

You can play titles or tracks on a disc inserted in random order by using the random function.
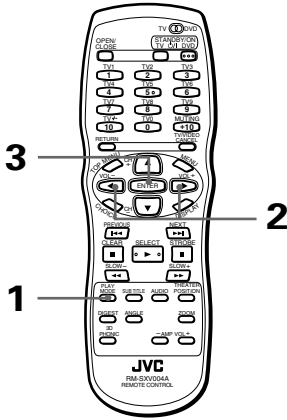
3

2

1

■ While stopped

1 Press PLAY MODE.

The play mode menu appears on the TV screen.

2 Use CURSOR ◄/► to move ↖ to [RANDOM].

```
REPEAT      PROGRAM      RANDOM
                              ↖
```
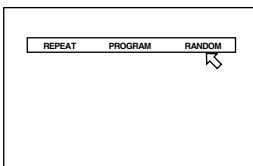
3 Press ENTER.

The unit starts random playback.
The "RANDOM" indicator appears in the display window on the front panel. After playing all titles/tracks of the disc, random playback ends.

Hints

• The same title or track will not be played back more than once during random play.

• **To stop/quit random playback in the middle**
Press ■ to stop playback. The unit is still in random playback mode, so pressing ► starts random playback again.
To quit random playback, press ■ again while stopped. The "RANDOM" indicator in the display window turns off.

NOTE

• **Some DVD VIDEO discs may not be played back correctly in the random mode.**

Repeat playback

You can repeat playback of the current selection or all disc contents (except DVD VIDEO). You can also repeat playback of a desired part.

To repeat the current selection or all tracks [REPEAT] `DVD VIDEO` `Audio CD` `Video CD` `Super VCD`

2-2

2-1

1
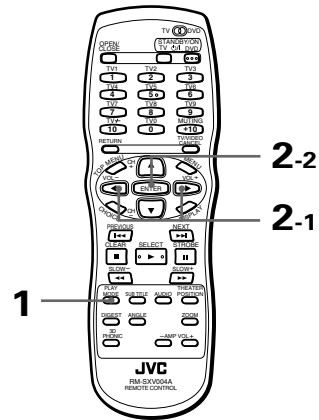
■ For DVD VIDEO : During playback
For Audio CD/Video CD/SVCD :
In any condition except Video CD/SVCD playback with PBC

1 Press PLAY MODE.

The play mode menu 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 depending on the disc type and unit's status :

• **During DVD VIDEO playback**

```
( DVD CONTROL )

REPEAT   A-B REPEAT   TIME SEARCH   CHAP. SEARCH
  ↖
REPEAT  TITLE
```

Selected repeat mode

**REPEAT TITLE
(current title repeat)**
↓
**REPEAT CHAPTER
(current chapter repeat)**
↓
No indication (off)
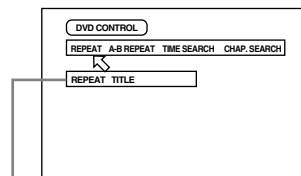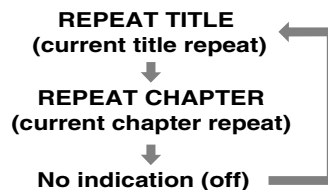
• **Audio CD/Video CD/SVCD**

(for Audio CD)
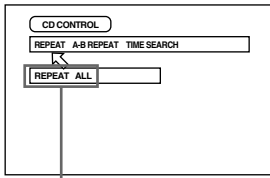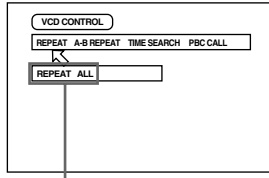
```
CD CONTROL
REPEAT  A-B REPEAT  TIME SEARCH
REPEAT  ALL
```

Selected repeat mode

(for Video CD/SVCD)

```
VCD CONTROL
REPEAT  A-B REPEAT  TIME SEARCH  PBC CALL
REPEAT  ALL
```

Selected repeat mode

REPEAT ALL (all track repeat)
↓
REPEAT 1 (current track repeat)
↓
No indication (off)

Hints
- If you press ■ in REPEAT ALL or REPEAT1 mode, the unit stops playback but remains in the mode.
- If you press ■ in REPEAT TITLE or REPEAT CHAPTER mode, the unit stops playback and quits the mode.

• **To quit repeat playback**

With ↘ pointed at [REPEAT], press ENTER repeatedly until the mode is set to off.

NOTES
- **Some DVD VIDEO discs do not allow the title repeat or/and chapter repeat.**
- **Some DVD VIDEO discs automatically stop playback in the middle of the disc.**
- **Repeat playback function cannot be used during Video CD/SVCD playback with PBC function.**
- **To turn off the play mode menu display.** Press PLAY MODE.

To repeat a desired part [A-B REPEAT]
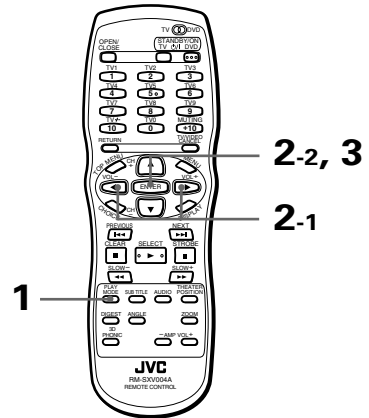
DVD VIDEO · Audio CD · Video CD · Super VCD

■ During playback

1 Press PLAY MODE.

The play mode menu 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).

Make sure that the REPEAT mode is off. If any REPEAT mode is selected, you cannot move ↘ to [A-B REPEAT].

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 VIDEO)

```
DVD CONTROL
REPEAT  A-B REPEAT  TIME SEARCH  CHAP. SEARCH
A 0:00:16  →  B 0:01:16
```
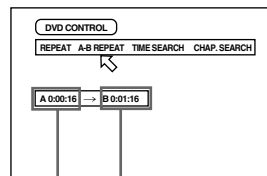
Point A   Point B

(for Audio CD)

```
CD CONTROL
REPEAT  A-B REPEAT  TIME SEARCH
A  00:16  →  B  01:31
```
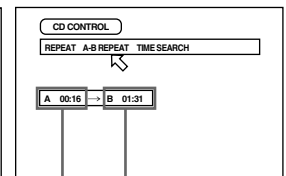
Point A   Point B

(for Video CD/SVCD)

```
VCD CONTROL
REPEAT  A-B REPEAT  TIME SEARCH  PBC CALL
A  00:16  →  B  01:31
```

Point A   Point B

Advanced operations
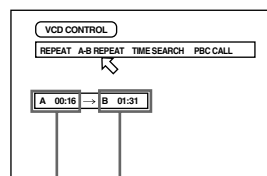
• **To quit A-B repeat playback**

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

⎰Hints⎱

• During playback, pressing ENTER when ⟍ is pointed at [A-B REPEAT] quits A-B repeat mode and continues playback.

• You can also quit A-B repeat mode by pressing |◀◀ or ▶▶|.

NOTES

• **To turn off the play mode menu.**

Press PLAY MODE.

• **If ⊘ appears when pressing ENTER in step 2 during DVD/SVCD playback.**

You cannot repeat the selected portion because of the disc contents.

• **The A-B REPEAT function cannot be used during program playback.**

Selecting a scene angle of DVD VIDEO

You can enjoy a variety of scene angles if the DVD VIDEO disc contains "multi-angle" parts, where multiple cameras were used to shoot the same scene from different angles.

⎰Hints⎱

• At the beginning of a "multi-angle" part, 📷₁ appears on the TV screen.

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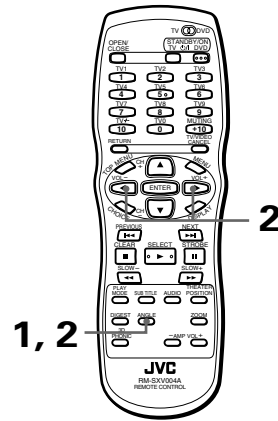
DVD VIDEO

■ During DVD VIDEO playback

1 Press ANGLE.

The Angle selection display appears on the TV screen.


```
📷₁   ◁ 1/3 ▷
```
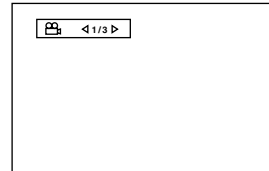
2 Use ANGLE or CURSOR ◀/▶ to select the desired angle.

Each time you press ANGLE or CURSOR ◀/▶, the angle changes.

Example: **1 / 3**
            ↓
            2 / 3
            ↓
            3 / 3
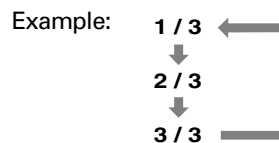
NOTES

- **The Angle selection display will automatically disappear if you do not change the angle for 10 seconds.**

- **To turn off the Angle selection display manually, press ENTER.**

- When ⊘ appears on the TV screen

 The current scene is not recorded from multiple angles.

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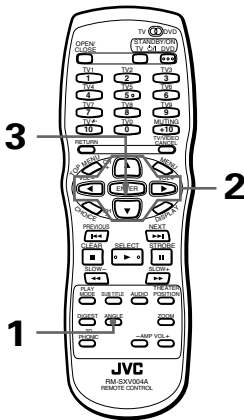
DVD VIDEO

■ During DVD VIDEO 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.
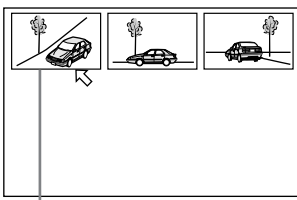
The selected camera angle

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

3 Press ENTER.

 The unit starts playback by the selected angle on the full-sized 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.**

Changing the language and sound

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

To select the subtitle language [SUBTITLE]

DVD VIDEO Super VCD
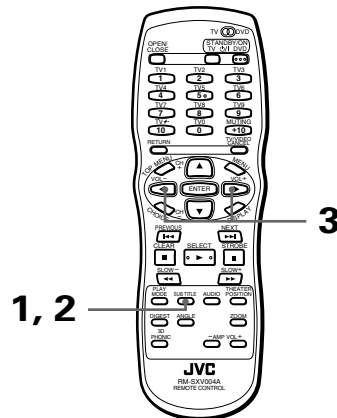
■ During playback

1 Press SUBTITLE.

 The Subtitle selection display appears on the TV screen.

(for DVD VIDEO)   (for SVCD)

| 💬 | ON | ◄ 1/3 ► | ENGLISH |

| 💬 | ON | ◄ 1/4 ► |
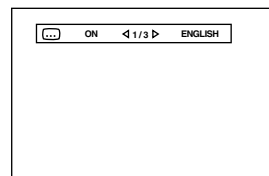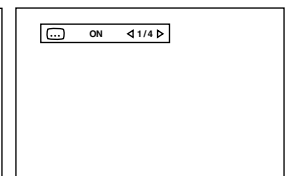
2 To turn the subtitle on and off, press SUBTITLE.

3 To select the desired subtitle language, use CURSOR ◄/►.

- **For DVD VIDEO**

 Each time you press CURSOR ◄/►, the subtitle language changes.

 Example:

 1/3 ENGLISH
 ↓
 2/3 FRENCH
 ↓
 3/3 SPANISH
 ↓
 -/3 (off)

Advanced operations
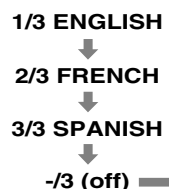
• **For SVCD**

Pressing CURSOR ◄/► cycles among the four subtitle channels on the right hand regardless of whether the subtitle is recorded or not.

You can also select the subtitle by pressing SUBTITLE.

Example:
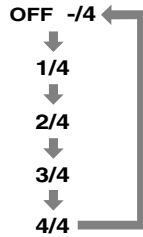
OFF -/4
↓
1/4
↓
2/4
↓
3/4
↓
4/4

NOTES

- **For DVD VIDEO, the selected language may be abbreviated on the TV screen. See "Appendix A : Table of languages and their abbreviations" at the end of this manual.**

- **The Subtitle selection display will automatically disappear if you do not change the subtitle for 10 seconds.**

- **To turn off the Subtitle selection display manually, press ENTER.**

- **When ⃠ appears on the TV screen:**
  You cannot select the subtitle.

To change the audio language or sound [AUDIO]

DVD VIDEO   Video CD   Super VCD

By AUDIO selection, you can choose the audio language of movies or choose to enjoy karaoke with or without the vocal.

2

1, 2

■ During playback

1 Press AUDIO.

The Audio selection display appears on the TV screen.

(for DVD VIDEO)

⟨⟨⟩⟩ ◄ 1/3 ► ENGLISH

(for Video CD)

⟨⟨⟩⟩ ◄ STEREO ►

(for SVCD)

⟨⟨⟩⟩ ◄ STEREO-1 ►
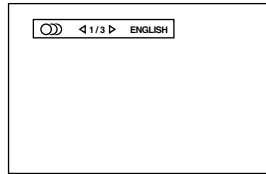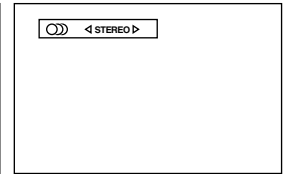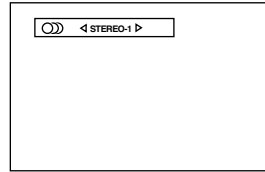
2 Use AUDIO or CURSOR ◄/► to select the desired audio.

• **For DVD VIDEO**

Each time you press AUDIO or CURSOR ◄/►, the audio language or sound changes.

Example:

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

• **For Video CD/SVCD**

Each time you press AUDIO or CURSOR ◄/►, the playback audio changes as follows.

(Video CD)
STEREO
↓
L
↓
R
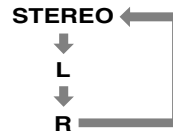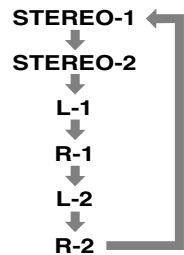
(SVCD)
STEREO-1
↓
STEREO-2
↓
L-1
↓
R-1
↓
L-2
↓
R-2

NOTES

- **For DVD VIDEO, the selected language may be abbreviated on the TV screen. See "Appendix A : Table of languages and their abbreviations" at the end of this manual.**

- **The Audio selection display will automatically disappear if you do not change the audio for 10 seconds.**

- **To turn off the Audio selection display manually, press ENTER.**

- **When ⃠ appears on the TV screen (for a DVD VIDEO disc):**
  You cannot select the audio.

Selecting the picture character

You can select the picture character from among four options according to the source program, lighting condition of the room and/or personal preference.

To select the picture character [THEATER POSITION]   DVD VIDEO | Video CD | Super VCD
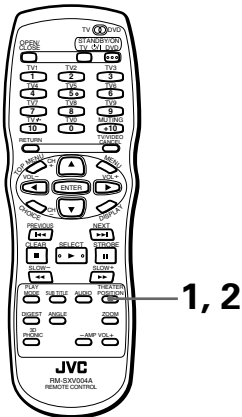
■ During playback

1 Press THEATER POSITION.

The theater position display appears on the TV screen.

2 Select the desired theater position by using THEATER POSITION.

Each time you press the THEATER POSITION, the picture character changes as follows :

Selected picture character

THEATER 1
↓
THEATER 2
↓
THEATER 3
↓
THEATER OFF

"THEATER OFF" is the normal position. Selecting a higher number tones down the picture character.
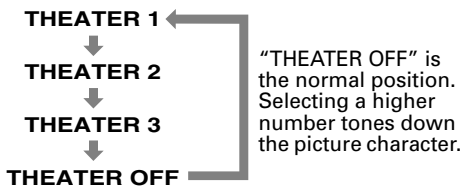
NOTES

- **The theater position display will automatically disappear if you do not change the theater position for 5 seconds.**
- **To turn off the theater position display manually, press ENTER.**

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 VIDEO | Audio CD | Video CD | Super VCD
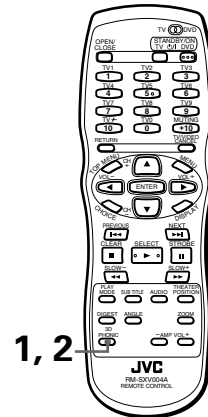
■ During playback

1 Press 3D PHONIC.

The 3D PHONIC display appears on the TV screen.

2 Select the desired mode by using 3D PHONIC.

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

Selected effect mode

3D PHONIC ACTION*
↓
3D PHONIC DRAMA
↓
3D PHONIC THEATER
↓
3D PHONIC OFF

Advanced operations

- **ACTION**
  Suitable for action movies and sports programs in which sounds dynamically move.

- **DRAMA**
  Natural and warm sound. You can enjoy movies in a relaxed mood.

- **THEATER**
  You can enjoy sound effects like in a major theater in Hollywood.

* When you play a DVD VIDEO disc recorded in Dolby Digital which contains more than 3 channels, ACTION does not appear.

NOTES

- **The 3D PHONIC display will automatically disappear if you do not change the 3D PHONIC for 5 seconds.**
- **To turn off the 3D PHONIC display manually, press ENTER.**
- **With a Video CD disc, if the Audio setting is set to L or R, you cannot activate the 3D PHONIC function (i.e. the 3D PHONIC mode is fixed to OFF).**

  Conversely, when the 3D PHONIC function is active, changing the AUDIO setting to L or R from STEREO cancels the 3D PHONIC function.

- **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 VIDEO discs recorded in Linear PCM.**
- **When you set the 3D PHONIC function to on, the DOWN MIX and COMPRESSION settings in the AUDIO page of the preference display are disabled.**

Checking the status

You can view the disc/time information, as well as the DVD functions status on the TV screen.

To check the disc/time information

DVD VIDEO | Audio CD | Video CD | Super VCD

1
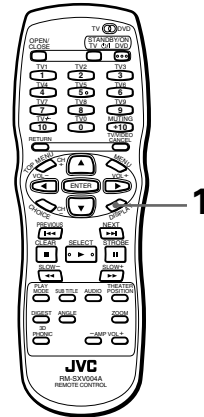
■ During playback

1 Press DISPLAY once for a Audio CD, Video CD or SVCD disc, or twice for a DVD VIDEO disc.
The disc/time display appears on the TV screen.

(for DVD VIDEO)

TITLE 1 CHAP. 25 TIME 2:25:25   BITRATE 3.3 Mbps

Transmission rate
Elapsed time
Current chapter number
Current title number
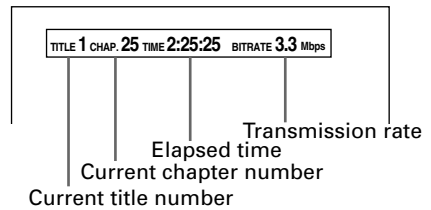
(for Audio CD, Video CD or SVCD playing without PBC)

TRACK 1 TIME 00:08   EACH

Time mode
Current track elapsed time
Current track number
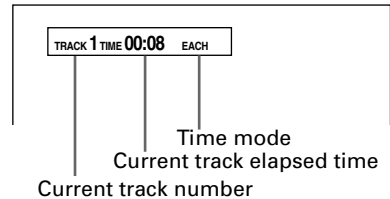
(for Video CD/SVCD playing with PBC)

TRACK 1 TIME 00:08   PBC

PBC on status
Current track elapsed time
Current track number
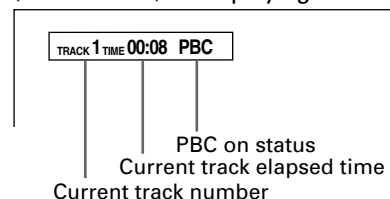
- **To turn off the disc/time display.**
  Press DISPLAY.

To check the DVD function status [DVD VIDEO]

1
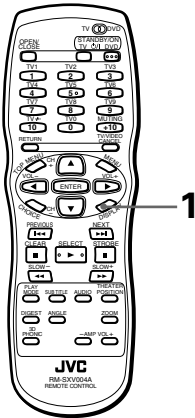
■ During DVD VIDEO playback

1 Press DISPLAY.

The DVD function status display appears on the TV screen.

🎥 1/2	🔊 1/2	💬 1/2
ENGLISH	ENGLISH	
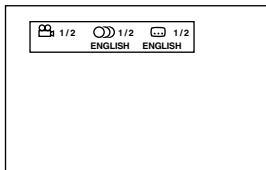
The current selections of the camera angle, audio language and subtitle language are shown.

• **To turn off the DVD function status display.**
Press DISPLAY twice.

To dim the brightness of the display window

You can dim the brightness of the display window.

Dimming brightness of the display window

1

1
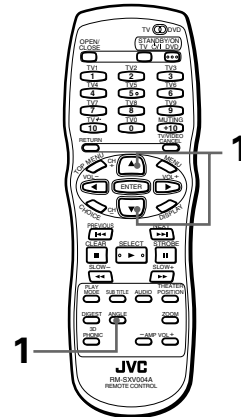
■ When no disc is inserted or while stopped

1 Press CURSOR ▼ while holding down ANGLE.

You can set the brightness from among three levels. Each press of the button makes the display window darker.
To restore the display window brighter, press CURSOR ▲.

Advanced operations

MP3 disc playback

This unit can playback CD discs recorded by the MP3 format (we refer to those discs as MP3 discs in this manual).
Operations for MP3 discs are similar to those for Audio CD discs, though there are some restrictions and differences.

What is MP3?

MP3 is the abbreviation of "MPEG1 Audio Layer 3." MPEG Audio is a compression specification that compresses the audio portion only. This image compression method is used in DVD or Video CD, etc. The audio data has been compressed into about 1/10.

About MP3 disc

On an MP3 disc, each material (song) is recorded on each Track (file), which usually belongs to a Group (folder).
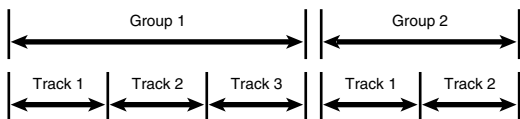
This unit can recognize up to 99 Groups and up to 254 Tracks per Group, however, the number of Tracks to be played back on a disc is limited to 1023. If a disc includes more than 1023 Tracks, the unit stops detecting Tracks when the number of detected Tracks reaches 1023 and ignores the subsequent Tracks. The unit also ignores any non-MP3 file in the disc.

NOTES for making a private MP3 disc using a CD-R/CD-RW disc:
- **Select "ISO 9660" as the disc format.**
- **Do not select the "multi-session" recording.**
- **Finalize the disc.**

NOTES
- **Because of the disc characteristics or recording condition, some discs may not be played back or it takes time to start playback.**
- **The unit does not support "packet writing" discs.**
- **If there are any Tracks (files) which are stored on a disc directly and do not belong to any Group (directory), the unit recognized them as belonging to an independent Group.**
- **The unit does not output a digital audio signal from DIGITAL OUT when playing back an MP3 disc.**
- **The unit plays back Groups/Tracks on an MP3 disc in the alphabetical order.**
  For example, if there are three title Groups [one], [two] and [three] on a disc, the playback order is [one], [three] then [two]. Tracks in a Group are played back in the same way.
  Therefore, an MP3 disc on the market may be played back in the different order from the order printed on its sleeve.

Unavailable functions

As described earlier, there are some restriction for playback of MP3 discs. Following functions are not available with MP3 discs.

Unavailable functions for MP3 discs

Function name	Function
Resume	To resume playback
Time search	To locate a desired position in the current track
Manual search	To advance or reverse playback rapidly
A-B repeat	To repeat a desired part
3D PHONIC	To simulate surround sound

NOTES
- **You cannot playback Tracks in the desired (programmed) or random order, nor playback a Track repeatedly.**
- **The screen saver function is not active with an MP3 disc, as with an Audio CD.**

Basic operations

Basic operations using the basic control buttons ^{MP3}
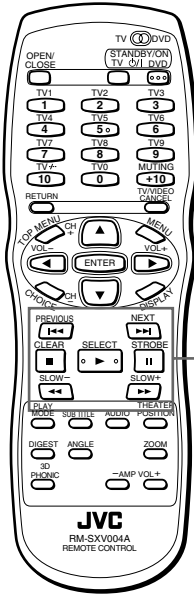
The following table shows basic functions of basic control buttons.
As you can see ▶, ■, II and I◀◀/▶▶I buttons function the same as with Audio CD discs, though ◀◀/▶▶ buttons function is different.

Buttons	Functions
▶	Starts playback
■	Stops playback completely
II	Pauses playback temporarily
I◀◀/▶▶I	Skips back or forward a Track*
◀◀/▶▶	Skips back or forward a Group

* You can skip a Track across a Group. i.e. pressing ▶▶I when the last Track of the current Group is selected skips to the first Track of the next Group.

NOTES
- **The current Group and Track numbers are shown on the display window in the following manner.**

Current track elapsed time
Current track number
Current group number

- **You cannot advance or reverse playback of an MP3 disc rapidly.**

Track/Group selection using the numeric buttons ^{MP3}

While stopped, you can select a Group to be played using the numeric buttons.
During playback, you can select a Track in the current Group to be played using the numeric buttons.

How to select a Track or Group:

The same method for selecting a track of an Audio CD disc can be applied for selecting a Group or Track of an MP3 disc except for a three-figure Track. For selecting a three-figure Track (i.e. Track 100 or higher), follow the procedure below.
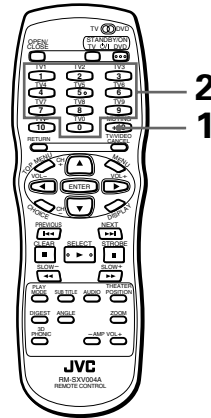
■ During playback

1 Holding down the +10 button for 2 seconds or more.

"- - -" appears in the display window showing that you can now enter a three-figure number directly.

2 Use the numeric buttons (0 to 9) to specify the desired Track number directly.

- **Example:**
  To specify Track 254 : press 2, 5 and 4.

Hints
- You can also specify a single- or double-figure Track using this method.
  Example:
  - To specify Track 5, press 0, 0 and 5.
  - To specify Track 25, press 0, 2 and 5.

MP3 disc playback

Advanced functions

Program playback `MP3`

You can playback Groups on an MP3 disc in the desired order.
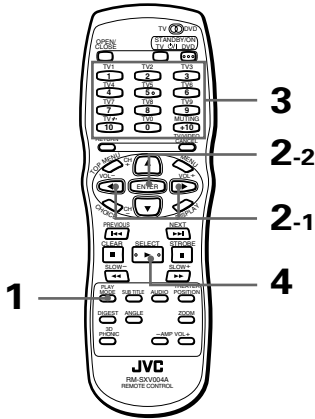
■ While stopped

1 Press PLAY MODE.

The play mode menu appears on the TV screen.

2 Use CURSOR ◄/► to move ↘ to [PROGRAM] and press ENTER.

| REPEAT | PROGRAM | RANDOM |
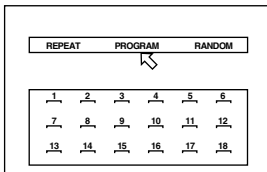
The program table appears under the menu bar (as shown above).
The "PROGRAM" indicator appears in the display window on the front panel.

3 Specify the groups in the desired order using the numeric buttons.

See page 11 for details about how to use the numeric buttons.
Up to 18 groups can be programmed. You may select the same group more than once.
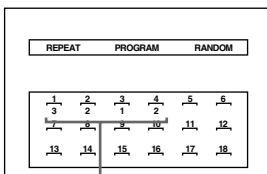
The programmed group number is shown under each program number.

• **If you specify a wrong selection**
Press TV/VIDEO-CANCEL. The last selection programmed is erased.

• **To clear the program**
Press ■.

4 Press ► to start program play.

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

• **To quit program playback**
Press ■ while stopped.
The "PROGRAM" indicator in the display window turns off.
Note that the program remains.
To clear the program, press ■ while the program table is shown on the TV screen.

Hints

• While stopped and the play mode menu is displayed on the TV screen, by moving ↘ to [PROGRAM] and pressing ENTER, the program mode quits. Note that the program remains.

NOTES

• **You cannot playback Tracks in a Group in the desired order.**
• **By pressing PLAY MODE during program playback, the program table is displayed on the TV screen and the current program number is indicated in yellow.**

MP3 disc playback

Random playback `MP3`

You can playback Groups on an MP3 disc in random order.
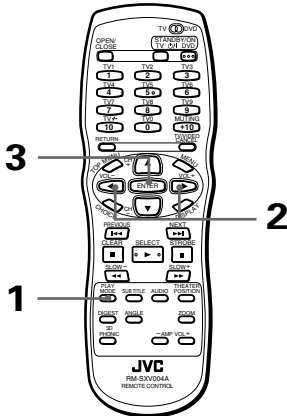
■ While stopped

1 Press PLAY MODE.

The play mode menu appears on the TV screen.

2 Use CURSOR ◄/► to move � to [RANDOM].

```
REPEAT     PROGRAM     RANDOM
                          ↖
```
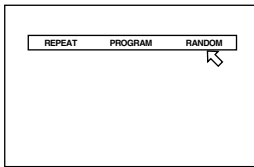
3 Press ENTER.

The unit starts random playback.
The "RANDOM" indicator appears in the display window on the front panel. After playing all groups of the disc, random playback ends.

Hints
• The same group will not be played back more than once during random play.

• **To stop/quit random playback in the middle**
Press ■ to stop playback. The unit is still in random playback mode, so pressing ► starts random playback again.
To quit random playback, press ■ again while stopped. The "RANDOM" indicator in the display window turns off.

NOTES
• **Tracks in a Group are played back in the regular order.**
• **Pressing the |◄◄/►►| button while random playback skips forward or back a track.**

Repeat playback `MP3`

You can repeat playback of the current Group or all Groups.
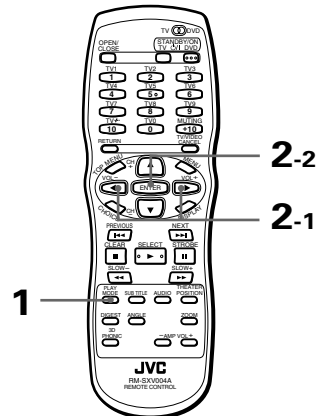
■ During playback

1 Press PLAY MODE.

The play mode menu 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 depending on the disc type and unit's status:

```
CD CONTROL
REPEAT  A-B REPEAT  TIME SEARCH
  ↖
REPEAT  ALL
```
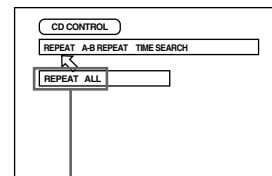
Selected repeat mode

REPEAT ALL (all group repeat) ◄──┐
↓   │
REPEAT 1 (current group repeat)   │
↓   │
No indication (off) ──────────────┘

Hints
• If you press ■ in REPEAT ALL or REPEAT1 mode, the unit stops playback but remains in the mode.

• **To quit repeat playback**
With ↖ pointed at [REPEAT], press ENTER repeatedly until the mode is set to off.

NOTE
• **To turn off the play mode menu display.**
Press PLAY MODE.

MP3 disc playback

Disc/time information   MP3
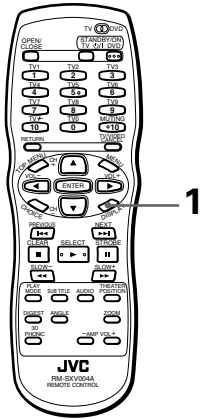
■ During playback

1 Press DISPLAY.

The disc/time display appears on the TV screen.

| MP3 | GROUP 1 | TRACK 11 | TIME 00:08 | BITRATE 128 kbps |

                                      Transmission rate
                              Current track elapsed time
                    Time mode
               Current track number
          Current group number
Disc type
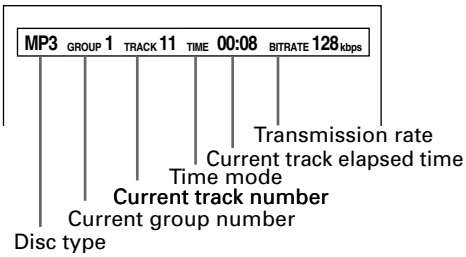
• **To turn off the disc/time display**
Press DISPLAY.

Selecting preferences

You can set various preferences for playback via four dedicated displays.

How to set preferences

Note that you cannot bring up a preference display during playback or when an Audio CD or MP3 disc is loaded in the disc tray.
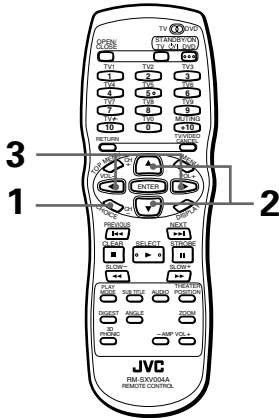
■ When no disc is inserted in the disc tray, or when a DVD VIDEO or Video CD/SVCD is inserted and stopped

1 Press CHOICE.

One of the preference pages appears on the TV screen.
There are four preference pages: LANGUAGE, AUDIO, DISPLAY and SYSTEM. To turn the page, move ▨ to the desired tab using CURSOR ◄/►.

LANGUAGE
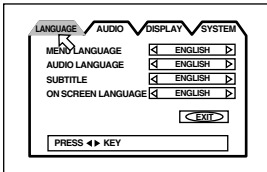
AUDIO
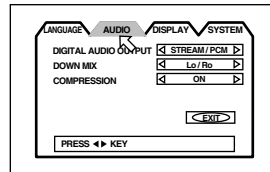
DISPLAY
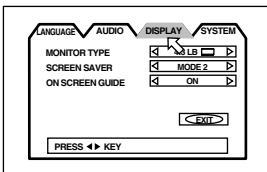
SYSTEM
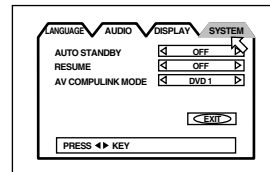
2 Move ⟵ to select the item you want to set by using CURSOR ▲/▼.
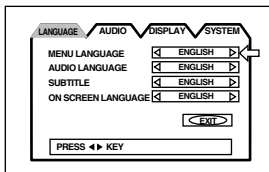
3 Press CURSOR ◄/► to select the setting you want.

• To turn off the preference display, press CHOICE or move ⟵ to [EXIT] and press ENTER.

• For details about each setting, see the following paragraphs:

LANGUAGE page

MENU LANGUAGE

You can select the default "display" language to be displayed if it is contained on the disc.
• The language is initially set to "ENGLISH."
Each time you press CURSOR ►, the language setting changes in the following order:
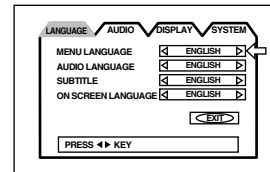
ENGLISH → SPANISH → FRENCH → CHINESE → GERMAN → ITALIAN → JAPANESE → language code from AA to ZU
(See "Appendix A : Table of languages and their abbreviations" at the end of this manual.)

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 will be displayed.

AUDIO LANGUAGE

You can select the default audio language to be played if it is contained on the disc.
• The language is initially set to "ENGLISH."
Each time you press CURSOR ►, the language setting changes in the following order :
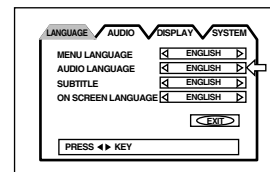
ENGLISH → SPANISH → FRENCH → CHINESE → GERMAN → ITALIAN → JAPANESE → language code from AA to ZU
(See "Appendix A : Table of languages and their abbreviations" at the end of this manual.)

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 will be played.

Initial settings

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SUBTITLE

You can select the default subtitle language to be displayed if it is contained on the disc.
• The language is initially set to "ENGLISH."
Each time you press CURSOR ►, the language setting changes in the following order:

```
LANGUAGE  AUDIO  DISPLAY  SYSTEM
MENU LANGUAGE        ◁  ENGLISH  ▷
AUDIO LANGUAGE       ◁  ENGLISH  ▷
SUBTITLE             ◁  ENGLISH  ▷
ON SCREEN LANGUAGE   ◁  ENGLISH  ▷
                          ⊂ EXIT ⊃
   PRESS ◀▶ KEY
```
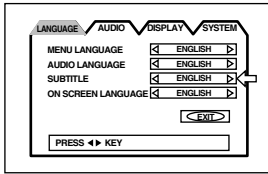
ENGLISH → SPANISH → FRENCH → CHINESE → GERMAN → ITALIAN → JAPANESE → language code from AA to ZU
(See "Appendix A : Table of languages and their abbreviations" at the end of this manual.)

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 will be displayed.

ON SCREEN LANGUAGE

You can select the on-screen display language to be displayed.
• The language is initially set to "ENGLISH."
Each time you press CURSOR ►, the language setting changes as follows:

```
LANGUAGE  AUDIO  DISPLAY  SYSTEM
MENU LANGUAGE        ◁  ENGLISH  ▷
AUDIO LANGUAGE       ◁  ENGLISH  ▷
SUBTITLE             ◁  ENGLISH  ▷
ON SCREEN LANGUAGE   ◁  ENGLISH  ▷
                          ⊂ EXIT ⊃
   PRESS ◀▶ KEY
```

```
ENGLISH ◀
  ↓
DEUTSCH (German)
  ↓
FRANCAIS (French) ◀─┘
```
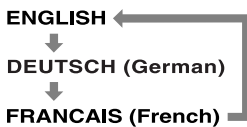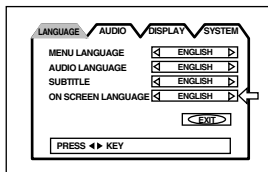
English	**ON SCREEN LANGUAGE** ◁ **ENGLISH** ▷
German	**BILDSCHIRMMENUE-SPRACHE** ◁ **DEUTSCH** ▷
French	**LANGUE D'ECRAN** ◁ **FRANCAIS** ▷

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

AUDIO page

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.
• DIGITAL AUDIO OUTPUT is initially set to "STREAM/PCM."

```
LANGUAGE  AUDIO  DISPLAY  SYSTEM
DIGITAL AUDIO OUTPUT  ◁  STREAM / PCM  ▷
DOWN MIX              ◁  Lo / Ro  ▷
COMPRESSION          ◁  ON  ▷
                          ⊂ EXIT ⊃
   PRESS ◀▶ KEY
```
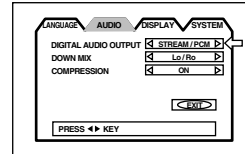
• **PCM ONLY**
  When you connect the DIGITAL OUT jack of the unit to the linear PCM digital input of other audio equipment.

• **STREAM/PCM**
  When you connect to the digital input of an amplifier to a built-in DTS, Dolby Digital, or MPEG multichannel decoder.

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

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, 20/24 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 multichannel	MPEG bitstream	48 kHz, 16 bit linear PCM	←
Video CD/SVCD	44.1 kHz, 16 bit linear PCM	←	←
Audio CD	48 kHz, 16 bit linear PCM	←	←
Audio CD with DTS	DTS bitstream	←	←
MP3 disc	No output	←	←

NOTES

- **The unit does not provide the DTS decoding function.**
- **When playing a DVD VIDEO 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

To playback a DVD VIDEO disc recorded with surround multichannel audio correctly, the DOWN MIX setting must be properly made according to your audio system.
Note that this setting affects the output signal from the AUDIO (both DIGITAL and ANALOG) output jacks when playing back a DVD VIDEO disc recorded with surround multichannel audio.

- DOWN MIX is initially set to "Lo/Ro."
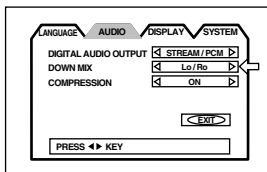
- **Lt/Rt**

  When you enjoy multichannel surround audio by connecting the unit's AUDIO output (normally, the DIGITAL output) to a surround decoder.

- **Lo/Ro**

  When you enjoy conventional 2-channel stereo audio by connecting the unit's AUDIO output to a stereo amplifier/receiver or television set, or when you duplicate audio of a DVD VIDEO disc recorded with surround audio to your MD, cassette, etc.

NOTES

- **The DOWN MIX function does not work when the 3D PHONIC function is activated.**
- **The DOWN MIX setting does not affect an MPEG or Dolby Digital bitstream signal from DIGITAL OUT.**

  To enjoy the DOWN MIX effect from DIGITAL OUT when playing back a disc recorded with the MPEG multichannel or Dolby Digital format, set "DIGITAL AUDIO OUTPUT" to "PCM ONLY" (see page 46).

- **When playing back a disc recorded with DTS, you cannot get the DOWN MIX effect from both DIGITAL and ANALOG outputs.**

COMPRESSION

You can compress the dynamic range of the sound if needed. Using this function, you can listen to sound at low volumes easily.

- COMPRESSION is initially set to "ON."
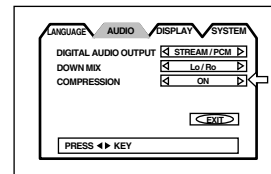
- **ON**

  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.**
- **With the digital connection, the COMPRESSION settings in the AUDIO page of the preference display are invalid. Settings for these items must be made from the decoder.**

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DISPLAY page

MONITOR TYPE

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

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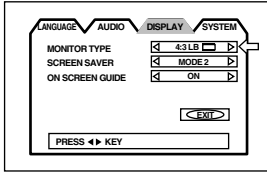
• **4:3 LB☐ (Letter Box Conversion)**
When you connect a normal TV to the unit.
When you play a wide picture recorded on a DVD VIDEO disc, the picture is displayed with bands across the upper and lower portions of the screen.

• **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 VIDEO 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 that case, the picture is played back as in 4:3 LB☐ mode.
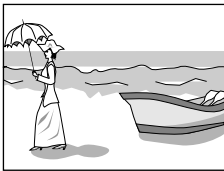
• **16:9 WIDE (Wide Television screen)**
When you connect a wide-screen TV to the unit.
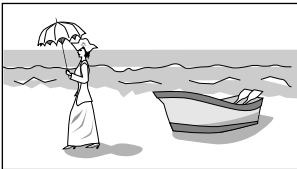
SCREEN SAVER

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.

• SCREEN SAVER is initially set to "MODE 2."
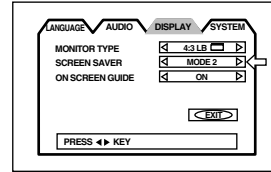
• **MODE 1**
The current picture gets dark.

• **MODE 2**
The "screen saver" picture appears and its brightness changes.

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

NOTES

• **The monitor screen of a projector or projection TV is easily burned out if the screen saver mode is set to OFF and a static picture is displayed for a long time.**

• **The screen saver function is not activated when the selected disc is an Audio CD or MP3 disc.**

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.

• ON SCREEN GUIDE is initially set to "ON."
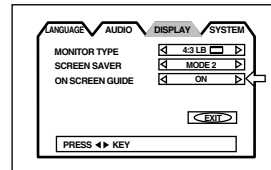
• **ON**
The on-screen guide will be displayed.

• **OFF**
The on-screen guide will not be displayed. Examples of "on-screen guide" icons or characters are following (see page 11) :

SYSTEM page

AUTO STANDBY

When the unit is stopped for more than 30 minutes or 60 minutes, the unit enters standby mode automatically.
• AUTO STANDBY is initially set to "OFF."

```
LANGUAGE   AUDIO   DISPLAY   SYSTEM
AUTO STANDBY          ◁    OFF    ▷
RESUME                ◁    OFF    ▷
AV COMPULINK MODE     ◁    DVD 1  ▷

                           < EXIT >
PRESS ◀▶ KEY
```
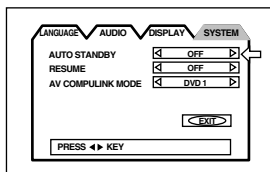
• **60**

  Time is set to 60 minutes.

• **30**

  Time is set to 30 minutes.

• **OFF**

  The auto standby function is off.

RESUME

You can select the resume function to be on or off. See page 24.
• RESUME is initially set to "OFF."

```
LANGUAGE   AUDIO   DISPLAY   SYSTEM
AUTO STANDBY          ◁    OFF    ▷
RESUME                ◁    OFF    ▷
AV COMPULINK MODE     ◁    DVD 1  ▷

                           < EXIT >
PRESS ◀▶ KEY
```
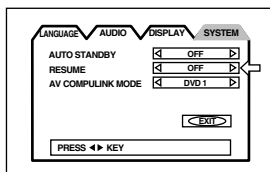
• **ON**

  Pressing ► while stopped or on standby starts playback from the resume point if it is memorized.

• **OFF**

  Pressing ► while stopped or on standby starts playback from the beginning of the disc.

NOTE
• **The resume function does not work for Audio CDs and MP3 discs.**

AV COMPULINK MODE

This item is provided for use in the future. Leave it as the default setting ("DVD1").

```
LANGUAGE   AUDIO   DISPLAY   SYSTEM
AUTO STANDBY          ◁    OFF    ▷
RESUME                ◁    OFF    ▷
AV COMPULINK MODE     ◁    DVD 1  ▷

                           < EXIT >
PRESS ◀▶ KEY
```
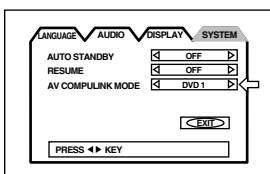
Limiting playback by children

This function restricts playback of DVD VIDEO 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 VIDEO]
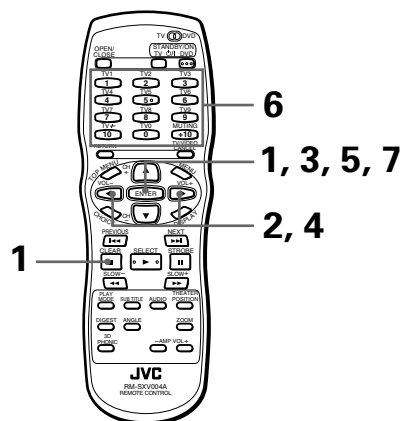
■ While a DVD VIDEO disc is stopped or no disc is inserted

1 Press ENTER while holding down ■ on the remote control unit.

The Parental Lock on-screen display appears on the TV screen.
⇦ points [Country Code].

2 While ⇦ points [Country Code], use CURSOR ◄/► to select the country code.

The country code whose standards were applied to rate the DVD VIDEO disc should be selected. See "Appendix B : Country/Area code list for parental lock." (See page 57.)

```
 🔒          PARENTAL LOCK
Country Code       ◁    GB    ▷
Set Level          ◁    ─     ▷
PASSWORD                - - - -

                           < EXIT >
PRESS ◀▶ KEY  →  ENTER
```
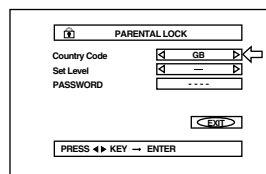
3 Press ENTER.

⇦ moves to [Set Level].

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4 While ⬅ points [Set Level], use CURSOR ◄/► to select the parental lock level.

```
┌─────────────────────────────────┐
│   🔒        PARENTAL LOCK        │
│                                 │
│  Country Coce    ◄    GB    ►    │
│  Set Level       ◄    1     ►  ⬅ │
│  PASSWORD             - - - -    │
│                                 │
│                     ◄ EXIT ►    │
│                                 │
│  PRESS ◄► KEY → ENTER           │
└─────────────────────────────────┘
```
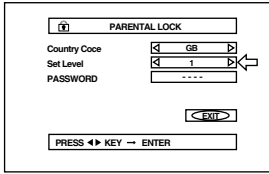
Each time you press CURSOR ◄/►, the parental level changes as follows:

```
    1  ◄─────┐
    ·         │
    ·         │
    8         │
    ─  ───────┘
```
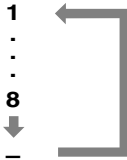
Hints

• "1" is the strictest level. "–" means no restriction. Discs rated higher than the selected level are restricted.

5 Press ENTER.

⬅ moves to [PASSWORD].

6 Enter your 4-digit password using the numeric buttons (0 to 9).

```
┌─────────────────────────────────┐
│   🔒        PARENTAL LOCK        │
│                                 │
│  Country Code    ◄    GB    ►    │
│  Set Level       ◄    8     ►    │
│  PASSWORD             - - - -  ⬅ │
│                                 │
│                     ◄ EXIT ►    │
│                                 │
│  NEW PASSWORD? -- PRESS 0–9 KEY. │
└─────────────────────────────────┘
```
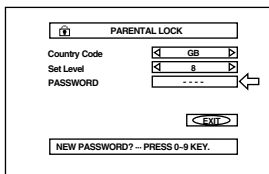
7 Press ENTER.

The parental level and password are set.
⬅ moves to [EXIT].
Pressing ENTER again returns to the opening display.

Hints

• If you enter an undesired password in step 6 above, reenter the password before pressing ENTER.

To change the settings [PARENTAL LOCK] ![DVD VIDEO]

You can change the Parental lock settings later.
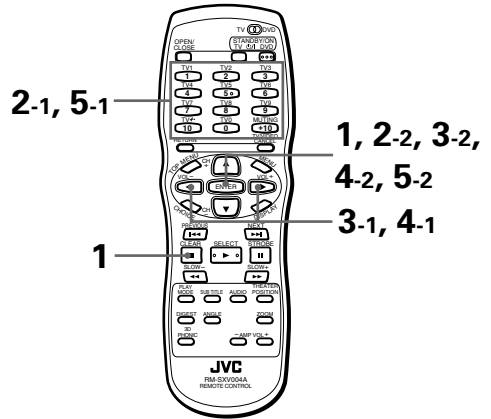
■ While a DVD VIDEO disc is stopped or no disc is inserted

1 Press ENTER while holding down ■ on the remote control unit.

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

⬅ points [PASSWORD].

```
┌─────────────────────────────────┐
│   🔒        PARENTAL LOCK        │
│                                 │
│  Country Code    ◄    GB    ►    │
│  Set Level       ◄    8     ►    │
│  PASSWORD             - - - -  ⬅ │
│                                 │
│                     ◄ EXIT ►    │
│                                 │
│  CURRENT PASSWORD? -- PRESS 0–9 KEY │
└─────────────────────────────────┘
```
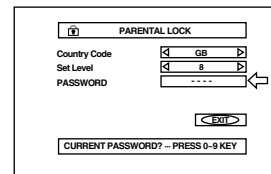
2 Enter your current 4-digit password using the numeric buttons (0 to 9) and press ENTER.

⬅ moves to [Country Code] if you enter the correct password.
If you enter the wrong password, "WRONG! RETRY..." appears on the TV screen, and you cannot go to next step.

3 To change the country code, use CURSOR ◄/► to select the desired country code and press ENTER.

⬅ moves to [Set Level].
When you change the country code, you must select the parental level.

4 To change the set level, use CURSOR ◄/►
to select the desired level while ⇦ points
[Set Level], and then press ENTER.

⇦ moves to [PASSWORD].

5 Enter the password using the numeric
buttons (0 to 9) and press ENTER.

⇦ moves to [EXIT].
The password entered in the above step
becomes the new password. If you do not
change the password, enter the same
password as in the step 2.
Even if you want to change only the country/
area code and/or set level, do not forget to
enter the password after changing the country/
area code and/or set level. Otherwise, the new
country code and/or set level will not become
effective.
Pressing ENTER again returns to the opening
display.

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]

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 following Parental Lock
on-screen display appears on the TV screen, asking
you whether you want the parental lock to be
temporarily released or not.
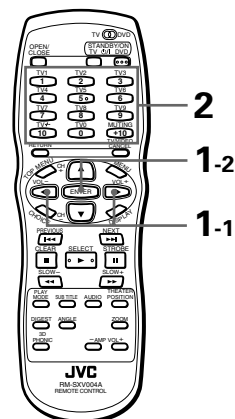
1 Use the CURSOR ▲/▼ to move ⇦ to
[YES], then press ENTER.

⇦ 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
```
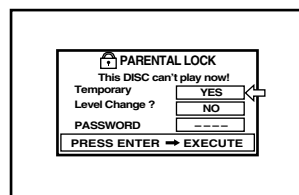
2 Enter your 4-digit password using the
numeric buttons (0 to 9).

If you enter the wrong password, "WRONG!
RETRY..." appears on the TV screen.
Enter the correct password.
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 ▲/▼do not work.**

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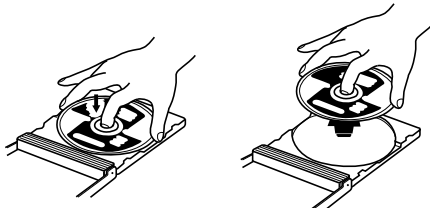
Label side
Do not damage the label side, stick paper to or use any adhesive on its surface.

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 playback 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.

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.
The TV/VIDEO - CANCEL, CURSOR or numeric buttons do not work.	The TV - DVD switch is not correctly set.	To control the unit, set the TV - DVD switch to "DVD." To control your TV, set the TV - DVD switch to "TV."
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 12).
Picture is not normal when using the S-VIDEO jack.	The unit is set to feed the RGB signals (instead of the S-video signals).	Make the unit feed the S-video signals (see pages 13 and 15).
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 is not derived 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 does not fit the television screen.	MONITOR TYPE is not correctly set.	Select monitor type correctly (see page 48).
	Television is not correctly set.	Set the television correctly.
Operation is not possible.	Microcomputer malfunction due to lightning or static electricity.	Turn off the power and unplug the power cord, then connect the power cord again.
	Moisture condensation caused by a sudden change of temperature or humidity.	Turn off the power, then turn it on a few hours later.

For MP3 disc playback

Symptom	Possible case	Remedy
No sound comes out.	MP3 disc is recorded with the "packet writing."	It cannot be played.
Specific files (tracks) are not played.	Files other than MP3 are included.	They cannot be played.
Files (tracks) are not played in the recorded order.	This system plays the files in the alphabetic order. So, the playback order can vary.	–
Particular function does not work.	On MP3 disc, some functions do not work.	For unavailable functions, see page 40.

Additional
information

Specifications

General

Readable discs: DVD VIDEO, Audio CD (CD-DA), Video CD, SVCD, CD-R/RW (CD-DA, SVCD,
                           Video CD, MP3 Format), MP3 Format
Video format: PAL

Other

Power requirements: AC 230 V $\sim$, 50 Hz
Power consumption: 14 W (POWER ON), 4.2 W (STANDBY mode)
Mass: 2.0 kg
Dimensions (W x H x D):   230 mm x 66.5 mm x 298.7 mm

Video output

VIDEO OUT (pin jack):   1.0 Vp-p (75 Ω)
S-VIDEO OUT (S jack):   Y Output: 1.0 Vp-p (75 Ω)
                           C Output: 286 mVp-p (75 Ω)
RGB out: 0-700 mV (75 Ω)
Horizontal resolution: 500 Lines

Audio outputs

ANALOG OUT (pin jack):   2.0 Vrms (10 kΩ)
DIGITAL OUT:(COAXIAL):   0.5 Vp-p (75 Ω termination)

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 98 dB
                           20 bit: More than 106 dB
                           24 bit: More than 106 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		IK	Inupiak		RN	Kirundi
AB	Abkhazian		IN	Indonesian		RO	Rumanian
AF	Afrikaans		IS	Icelandic		RU	Russian
AM	Ameharic		IW	Hebrew		RW	Kinyarwanda
AR	Arabic		JI	Yiddish		SA	Sanskrit
AS	Assamese		JW	Javanese		SD	Sindhi
AY	Aymara		KA	Georgian		SG	Sangho
AZ	Azerbaijani		KK	Kazakh		SH	Serbo-Croatian
BA	Bashkir		KL	Greenlandic		SI	Singhalese
BE	Byelorussian		KM	Cambodian		SK	Slovak
BG	Bulgarian		KN	Kannada		SL	Slovenian
BH	Bihari		KO	Korean (KOR)		SM	Samoan
BI	Bislama		KS	Kashmiri		SN	Shona
BN	Bengali, Bangla		KU	Kurdish		SO	Somali
BO	Tibetan		KY	Kirghiz		SQ	Albanian
BR	Breton		LA	Latin		SR	Serbian
CA	Catalan		LN	Lingala		SS	Siswati
CO	Corsican		LO	Laothian		ST	Sesotho
CS	Czech		LT	Lithuanian		SU	Sundanese
CY	Welsh		LV	Latvian, Lettish		SV	Swedish
DA	Danish		MG	Malagasy		SW	Swahili
DZ	Bhutani		MI	Maori		TA	Tamil
EL	Greek		MK	Macedonian		TE	Telugu
EO	Esperanto		ML	Malayalam		TG	Tajik
ET	Estonian		MN	Mongolian		TH	Thai
EU	Basque		MO	Moldavian		TI	Tigrinya
FA	Persian		MR	Marathi		TK	Turkmen
FI	Finnish		MS	Malay (MAY)		TL	Tagalog
FJ	Fiji		MT	Maltese		TN	Setswana
FO	Faroese		MY	Burmese		TO	Tonga
FY	Frisian		NA	Nauru		TR	Turkish
GA	Irish		NE	Nepali		TS	Tsonga
GD	Scots Gaelic		NL	Dutch		TT	Tatar
GL	Galician		NO	Norwegian		TW	Twi
GN	Guarani		OC	Occitan		UK	Ukrainian
GU	Gujarati		OM	(Afan) Oromo		UR	Urdu
HA	Hausa		OR	Oriya		UZ	Uzbek
HI	Hindi		PA	Panjabi		VI	Vietnamese
HR	Croatian		PL	Polish		VO	Volapuk
HU	Hungarian		PS	Pashto, Pushto		WO	Wolof
HY	Armenian		PT	Portuguese		XH	Xhosa
IA	Interlingua		QU	Quechua		YO	Yoruba
IE	Interlingue		RM	Rhaeto-Romance		ZU	Zulu

Appendix B : Country/Area code list for parental lock

This list is used for the parental Lock operation. For details, see page 49.

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		
AR	Argentina	FX	France, Metropolitan	MA	Morocco	SK	Slovakia
AS	American Samoa	GA	Gabon	MC	Monaco	SL	Sierra Leone
AT	Austria	GB	United Kingdom	MD	Moldova, Republic of	SM	San Marino
AU	Australia	GD	Grenada	MG	Madagascar	SN	Senegal
AW	Aruba	GE	Georgia	MH	Marshall Islands	SO	Somalia
AZ	Azerbaijan	GF	French Guiana	ML	Mali	SR	Suriname
BA	Bosnia and Herzegovina	GH	Ghana	MM	Myanmar	ST	Sao Tome and Principe
BB	Barbados	GI	Gibraltar	MN	Mongolia	SV	El Salvador
BD	Bangladesh	GL	Greenland	MO	Macau	SY	Syrian Arab Republic
BE	Belgium	GM	Gambia	MP	Northern Mariana Islands	SZ	Swaziland
BF	Burkina Faso	GN	Guinea			TC	Turks and Caicos Islands
BG	Bulgaria	GP	Guadeloupe	MQ	Martinique	TD	Chad
BH	Bahrain	GQ	Equatorial Guinea	MR	Mauritania	TF	French Southern Territories
BI	Burundi	GR	Greece	MS	Montserrat		
BJ	Benin	GS	South Georgia and the South Sandwich Islands	MT	Malta	TG	Togo
BM	Bermuda			MU	Mauritius	TH	Thailand
BN	Brunei Darussalam	GT	Guatemala	MV	Maldives	TJ	Tajikistan
BO	Bolivia	GU	Guam	MW	Malawi	TK	Tokelau
BR	Brazil	GW	Guinea-Bissau	MX	Mexico	TM	Turkmenistan
BS	Bahamas	GY	Guyana	MY	Malaysia	TN	Tunisia
BT	Bhutan	HK	Hong Kong	MZ	Mozambique	TO	Tonga
BV	Bouvet Island	HM	Heard Island and McDonald Islands	NA	Namibia	TP	East Timor
BW	Botswana			NC	New Caledonia	TR	Turkey
BY	Belarus	HN	Honduras	NE	Niger	TT	Trinidad and Tobago
BZ	Belize	HR	Croatia	NF	Norfolk Island	TV	Tuvalu
CA	Canada	HT	Haiti	NG	Nigeria	TW	Taiwan
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	Cô te 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

SAFETY INSTRUCTIONS
"SOME DOS AND DON'TS ON THE SAFE USE OF EQUIPMENT"

This equipment has been disigned and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured.

Do read the operating instructions before you attempt to use the equipment.

Do ensure that all electrical connections (including the mains plug, extension leads and interconnections between pieces of equipment) are properly made and in accordance with the manufacturer's instructions. Switch off and withdraw the mains plug when making or changing connections.

Do consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

Do be careful with glass panels or doors on equipment.

DON'T continue to operate the equipment if you are in any doubt about it working normally, or if it is damaged in any way–switch off, withdraw the mains plug and consult your dealer.

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a standby mode.

Switch off using the switch on the equipment and make sure that your family know how to do this.

Special arrangements may need to be made for infirm or handicapped people.

DON'T use equipment such as personal stereos or radios so that you are distracted from the requirements of traffic safety. It is illegal to watch television whilst driving.

DON'T listen to headphones at high volume as such use can permanently damage your hearing.

DON'T obstruct the ventilation of the equipment, for example with curtains or soft furnishings.

Overheating will cause damage and shorten the life of the equipment.

DON'T use makeshift stands and NEVER fix legs with wood screws — to ensure complete safety always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T allow electrical equipment to be exposed to rain or moisture.

ABOVE ALL

—NEVER let anyone, especially children, push anything into holes, slots or any other opening in the case -this could result in a fatal electrical shock.;

—NEVER guess or take chances with electrical equipment of any kind -it is better to be safe than sorry!

JVC
VICTOR COMPANY OF JAPAN, LIMITED

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ENGLISH

Setting the VIDEO OUT Select Switch

When you connect either the AV (SCART) connector or the S-VIDEO output of the unit to a TV, you need to appropriately set the S-VIDEO AND VIDEO/RGB switch and the COMP./RGB-Y/C switch on the rear panel of the unit.
• For details, refer to pages 13 thru 15 of the INSTRUCTIONS.

> **IMPORTANT!**
> Note that you must change the switch position while the unit is stopped or the unit power is off (on standby) with the DVD removed. Otherwise, the changed setting is not effective.

DEUTSCH

Einstellen des Schalters VIDEO OUT

Wenn Sie die AV-(SCART-)Buchse oder die S-VIDEO-Buchse des Gerätes an einen Fernseher anschließen müssen Sie den Schalter S-VIDEO AND VIDEO/RGB und den Schalter COMP./RGB-Y/C an der Geräterückseite richtig einstellen.
• Näheres erfahren Sie auf Seiten 13 bis 15 unter BEDIENUNGSANLEITUNG.

> **WICHTIG!**
> Beachten Sie, dass Sie die Schalter bei gestopptem oder ausgeschaltetem Gerät (im Standby-Modus) und ohne eingelegte DVD betätigen müssen. Anderenfalls wird die Umschaltung nicht erkannt.

FRANÇAIS

Réglage du sélecteur VIDEO OUT

Lors du raccordement du connecteur AV (SCART) ou de la sortie S-VIDEO du lecteur à un téléviseur, il convient de régler correctement les commutateurs S-VIDEO AND VIDEO/RGB et COMP./RGB-Y/C situés sur la face arrière de l'appareil.
• Pour plus de détails, voir pages 13 à 15 des MANUAL D'INSTRUCTIONS.

> **IMPORTANT!**
> Changer la position du commutateur lorsque l'appareil est à l'arrêt ou lorsqu'il est hors tension (en attente), sans DVD inséré. Sinon, le changement ne sera pas opérationnel.

NEDERLANDS

De VIDEO OUT-keuzeschakelaar instellen

Wanneer u de AV-connector (SCART) of de S-VIDEO-uitgang van de speler aansluit op een TV, moet u de S-VIDEO AND VIDEO/RGB-schakelaar en de COMP./RGB-Y/C-schakelaar op het achterpaneel van de speler op de juiste wijze instellen.
• Voor meer details, raadpleeg pagina's 13 t/m 15 van de GEBRUIKSAANWIJZING.

> **BELANGRIJK!**
> Let op: u moet de instelling van de schakelaar veranderen terwijl de speler is gestopt, of terwijl de speler is uitgeschakeld (in stand-by) terwijl de DVD verwijderd is. Anders is de gewijzigde instelling niet van kracht.

ESPAÑOL

Ajuste del conmutador selector VIDEO OUT

Cuando inserte el conector AV (SCART) o la salida S-VIDEO de la unidad a un televisor, necesitará fijar el selector S-VIDEO AND VIDEO/RGB y el selector COMP./RGB-Y/C del panel posterior de la unidad.
• Para más detalles, consulte las páginas 13 a 15 de las MANUAL DE INSTRUCCIONES.

> **¡IMPORTANTE!**
> Tenga en cuenta que debe cambiar el selector mientras la unidad esté parada o apagada (en standby) con el DVD fuera de la unidad. Caso contrario, los ajustes no serán efectivos.

ITALIANO
Impostazione del selettore VIDEO OUT
Quando si collega il connettore AV (SCART) o l'uscita S-VIDEO dell'unità a un televisore, è necessario impostare in modo corretto il selettore S-VIDEO AND VIDEO/RGB e il selettore COMP./RGB-Y/C nel pannello posteriore dell'unità.
• Per ulteriori dettagli, fare riferimento alle pagine da 13 a 15 delle ISTRUZIONI.

IMPORTANTE!
Tenere presente che è necessario cambiare la posizione del selettore a lettore fermo o spento (su standby) con il DVD rimosso. In caso contrario, l'impostazione modificata non avrà effetto.

SVENSKA
Ställa in VIDEO-utsignalens omkopplare
När du ansluter spelarens AV-kontakt (SCART) eller S-VIDEO-utsignal till en TV-apparat, måste du ställa in S-VIDEO-OCH VIDEO/RGB-omkopplaren samt COMP./RGB-Y/C-omkopplaren på spelarens baksida.
• För mer information, se sidorna 13 till 15 i BRUKSANVISNING.

VIKTIGT!
Observera att enheten måste vara stoppad eller avstängd (i standby) och DVD-skivan uttagen när du växlar omkopplarens läge. Annars utförs inte ändringen.

SUOMI
VIDEO OUT SELECT -kytkimen asettaminen
Kun kytket joko laitteen AV (SCART)- tai S-VIDEO -liittimen televisioon, laitteen takapaneelissa olevan S-VIDEO AND VIDEO/RGB- ja COMP./RGB Y/C -kytkimen pitää olla oikeassa asennossa.
• Katso lisätietoja KÄYTTÖHJE sivuilta 13 - 15.

TÄRKEÄÄ!
Kytkimen asennon voi muuttaa, kun laitteen toisto on pysäytetty tai siitä on katkaistu virta (valmiustilassa) eikä DVD-levyä ole levyasemassa. Muuten asetus ei ole voimassa.

DANSK
Indstilling af VIDEO OUT-vælger
Når du forbinder systemets AV-stik (SCART-stikket) eller S-VIDEO-udgang til et tv, skal du sørge for at indstille vælgerne S-VIDEO AND VIDEO/RGB og COMP./RGB-Y/C på bagpanelet korrekt.
• Se side 13-15 i INSTRUKTIONSBOG.

VIGTIGT!
Bemærk, at vælgerindstillingen skal ændres, mens systemet er standset eller strømmen er slået fra (standby) og DVD-pladen er fjernet. Ellers bliver den ændrede indstilling ikke gyldig.