JVC

DVD PLAYER
LECTEUR DVD

XV-D701BK

DVD VIDEO | COMPACT disc DIGITAL VIDEO | COMPACT disc DIGITAL AUDIO TEXT | DOLBY DIGITAL | 3D 3D-PHONIC | dts DIGITAL OUT

INSTRUCTIONS
MANUEL D'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.

LET0141-002A
[C]

Warnings, Cautions and Others
Mises en garde, précautions et indications diverses

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK.
DO NOT REMOVE COVER (OR BACK)
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
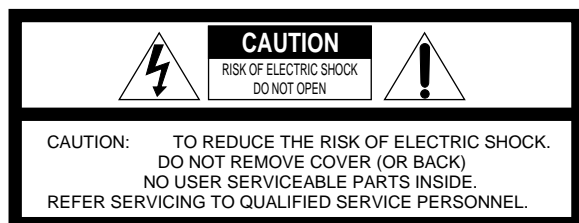
The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

For U.S.A.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

For Canada/pour le Canada

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT
ATTENTION: POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQUAU FOND

For Canada/pour le Canada

THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSIONS FROM DIGITAL APPARATUS AS SET OUT IN THE INTERFERENCE-CAUSING EQUIPMENT STANDARD ENTITLED "DIGITAL APPARATUS", ICES-003 OF THE DEPARTMENT OF COMMUNICATIONS.
CET APPAREIL NUMERIQUE RESPECTE LES LIMITES DE BRUITS RADIOELECTRIQUES APPLICABLES AUX APPAREILS NUMERIQUES DE CLASSE B PRESCRITES DANS LA NORME SUR LE MATERIEL BROUILLEUR: "APPAREILS NUMERIQUES", NMB-003 EDICTEE PAR LE MINISTRE DES COMMUNICATIONS.

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.

ATTENTION
Afin d'éviter tout risque d'électrocution, d'incendie, etc.:
1. Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

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

Attention — Commutateur POWER!
Déconnecter la fiche de secteur pour couper complètement le courant. Le commutateur POWER ne coupe jamais complètement la ligne de secteur, quelle que soit sa position. Le courant peut être télécommandé.

IMPORTANT FOR LASER PRODUCTS
IMPORTANT POUR LES PRODUITS LASER

REPRODUCTION OF LABELS
REPRODUCTION DES ETIQUETTES

WARNING LABEL, PLACED INSIDE THE UNIT
ETIQUETTE D'AVERTISSEMENT PLACÉE À L'INTERIEUR DE L'APPAREIL

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

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

1. PRODUIT LASER CLASSE 1
2. **ATTENTION:** Radiation laser visible quand l'appareil est ouvert ou que le verrouillage est en panne ou désactivé. Eviter une exposition directe au rayon.
3. **ATTENTION:** Ne pas ouvrir le couvercle du dessus. Il n'y a aucune pièce utilisable à l'intérieur. Laisser à un personnel qualifié le soin de réparer votre appareil.

Table of contents

Features

Picture functions

■ **Strobe function**

The unit can display a list of still pictures on the TV screen.

■ **Digest function**

You can select the desired title from the opening scenes displayed on the TV screen.

■ **Angle function***

You can enjoy variety of scene angles.

■ **Zoom function**

You can view scenes close-up.

■ **VFP function**

You can change the picture quality.

■ **Parental lock***

When a movie which includes violent scenes is played back, the scenes are cut or replayed with other scenes so as not to be viewed by children.

Compatible with a variety of sound formats

■ **High quality digital sound**

You can enjoy high quality sound with Dolby Digital, or Linear-PCM.

■ **Surround function***

The unit is compatible with Dolby Digital Surround and DTS surround.

■ **3D PHONIC function**

You can enjoy surround sound with your 2 ch system.

Other functions

■ **Multi-language subtitles and sound***

You can select the subtitle or sound language.

■ **Multi-disc player**

You can also enjoy Audio CD discs and Video CD discs.

■ **Operation from the on-screen display**

You can operate the unit from the on-screen display.

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

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Using the instructions

The instructions basically explain operations as follows:

The number indicates the procedural step.

The on-screen display displayed during the operation.

DVD DVD VIDEO Operations

Changing the language and sound

You can choose the sub-title or audio language from among the languages included on a disc and select the sound from a variety of sounds included on a disc.

You can operate from the front panel.

You can operate with the remote control unit.

Remote Control   Front Panel

To select the subtitle language [SUBTITLE]

■ During playback

Short cuts

Short cuts:
Procedures that you can shorten.

Press SUBTITLE and select the desired subtitle by using ◎.

1 Press ON SCREEN .

The on-screen display appears on the TV screen.

2 Use ◎ to move ↘ to [SUBTITLE].

Hints

You can turn ON/OFF the subtitle by pressing SUBTITLE. Each time you press SUBTITLE, the ON/OFF status is switched. When the subtitle function is ON, the subtitle language appears on the TV screen.

3 Use ◎ to select the desired subtitle.

Each time you use ◎, the subtitle changes.
Example:

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

Total number

DVD CONTROL

ANGLE 1/3
AUDIO 2/3
SUBTITLE

REPEAT
A-B REPEAT
TIME SEARCH
CHAP.SEARCH

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

Selected subtitle number

Selected subtitle

Hints:
Other convenient procedures.

Hints

When you select the language, if the abbreviation appears on the TV screen, select the abbreviation corresponding to the desired language. For details on abbreviations, see "Table of languages and their abbreviations" at the end of this instructions.

The buttons used in steps are shown as illustrations.

Note:
Additional supplemental remarks

NOTE

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

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Notes on care and handling

Important cautions

Installation of the unit

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

Power cord

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

To prevent malfunction of the unit

- There are no user serviceable parts inside. If anything goes wrong, unplug the power cord and consult your dealer.
- Do not insert any metallic object into the unit.
- Do not use any non-standard shaped 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 to record from DVD VIDEO, Audio CD, Video CD discs. Recording of copyrighted material may infringe copyright laws.

Note about the copyguard system

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

Safety precautions

Avoid moisture, water and dust

Do not place your player in moist or dusty places.

Avoid high temperatures

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

When you're away

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

Do not insert foreign objects into the unit

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

Do not block the vents

Blocking the vents may damage the unit.

Care of the cabinet

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

If water gets inside the unit

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

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English

Preliminary knowledge

This chapter explains names of parts and controls of the unit and information about discs and displays. For successful operation, read this chapter before set-up and operation of the unit.

Table of contents of this chapter

Introduction

Preliminary knowledge

Getting started

Basic operations

DVD VIDEO operations

Setting and adjustment

Audio CD operations

Video CD operations

Additional information

Names of parts and controls

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

Front panel
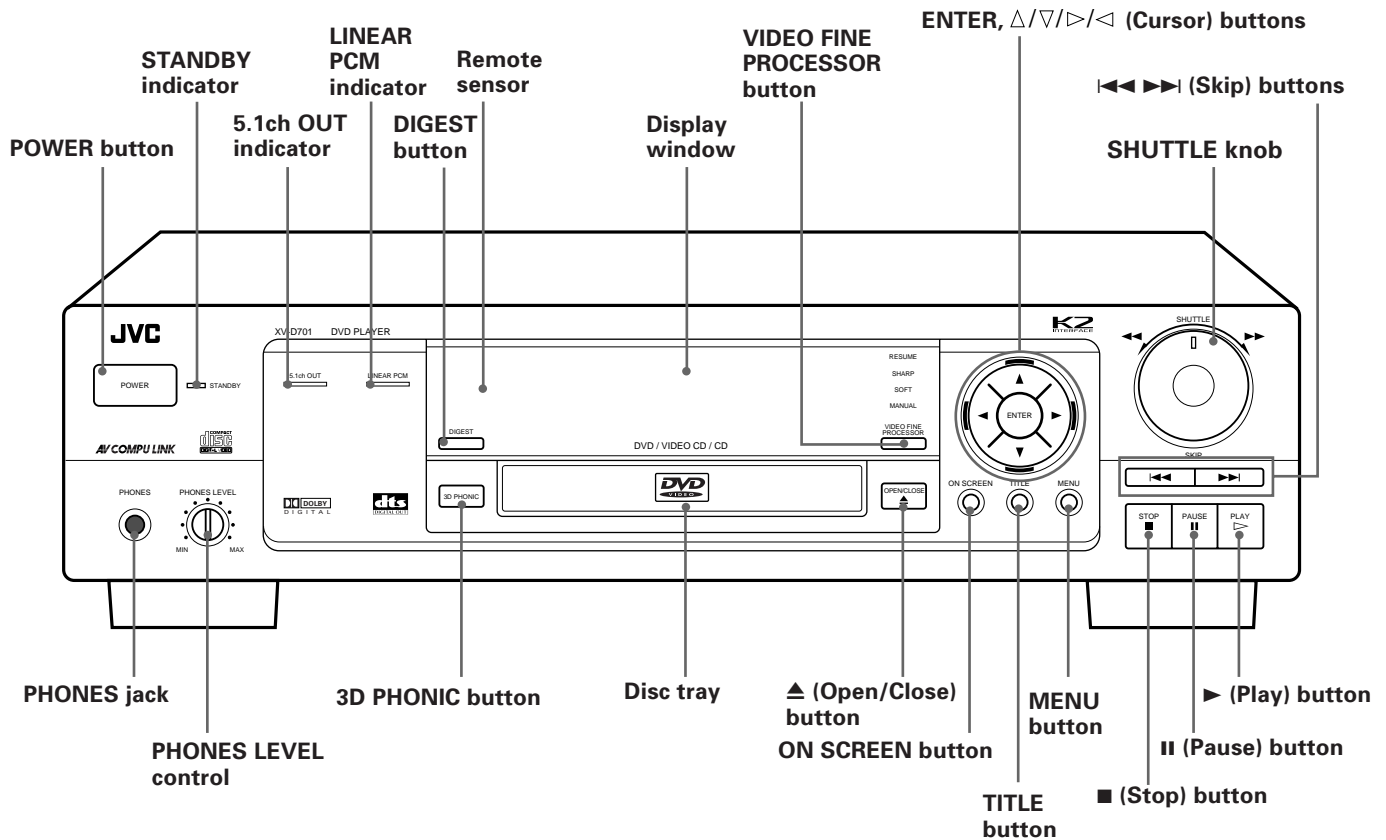
3D PHONIC button (33)
Get a simulated surround effect.

5.1ch OUT indicator
Lights when 5.1 channel output signals are fed from the analog audio output jacks.

Disc tray (29)
Used to load discs.

Display window
Indicates the current status of the unit.

DIGEST button (41, 84)
Display beginning scenes of each title, chapter, or track on the TV screen.

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

LINEAR PCM indicator
Lights when a Linear PCM audio disc is played back. This indicator also lights in stop mode for Audio CDs.

MENU button (36)
Displays a menu of DVD on the TV screen or monitor.

ON SCREEN button (10)
Displays an on-screen display of the unit on the TV screen or monitor.

PHONES jack
Connection jack for headphones.

PHONES LEVEL control
Adjusts the volume level of headphones connected to the PHONES jack.

POWER button (23)
Turns the unit on or off (standby).

Remote sensor
Recieves the signal from the remote control unit.

SHUTTLE knob (31, 42, 85)
Performs fast forward/backward and slow motion playback.

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

TITLE button (36)
Displays a title menu of DVD on the TV screen or monitor.

VIDEO FINE PROCESSOR button (50, 92)
Change the picture quality.

△/▽/▷/◁ (Cursor) buttons
Selects an item in on-screen displays or menus.

⏏ (Open/Close) button (29)
Opens and closes the disc tray.

► (Play) button (30)
Starts playback. Also, used as a SELECT button for PBC of Video CDs.

❙❙ (Pause) button (31)
Pauses during playback.

❙◄◄ ►►❙ (Skip) buttons (31, 68, 81)
Performs skip or previous/next.

■ (Stop) button (30)
Stops playback.

Display window

Disc indicator

Multi-information window

Time select indicator

RESUME indicator

Function indicator

Linear PCM indicator

Speaker indicator

Chapter, title, track indicator

Picture quality indicators
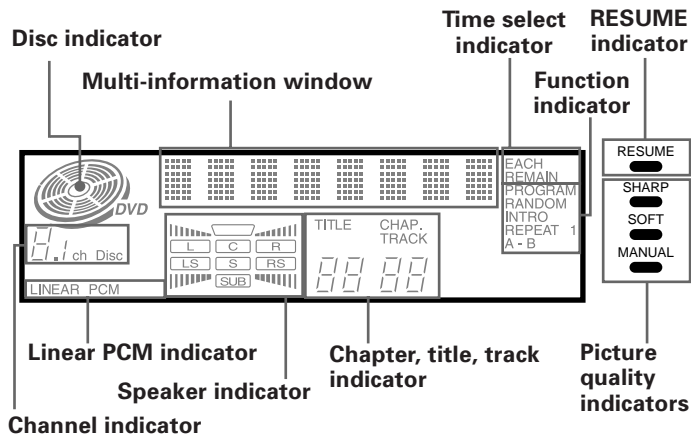
Channel indicator

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

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

Disc indicator
Lights when a disc is in the unit. "DVD" also appears when a DVD disc is in the unit.

Function indicator
Activated function indicators light up.

Linear PCM indicator
Lights only when the playback disc contains linear PCM data. This indicator also lights at the stop mode for Audio CDs.

Multi-information window
Displays time, text, and additional information.

Picture quality indicators
Selected indicator of the picture quality lights up.

RESUME indicator
Lights when a point to be resumed from is stored.

Speaker indicator
Lights during disc playback. The display shows all possible audio output channels contained in the 5.1ch. format. [L][C][R][LS][S][RS][SUB] lights when signals are output from the corresponding audio output jacks. ⊏⊐ lights when signals are output from the video output jacks. When the 3D PHONIC function is ON, ⫿⫿ ⫿⫿ also lights.

Time select indicator
Shows what the time information in the Multi-information window means.

Rear panel

VIDEO OUT jack

COMPONENT VIDEO OUT jacks (Y/P$_B$/P$_R$)

S-VIDEO OUT jack

AV COMPU LINK jacks

AC power cord

AUDIO OUT jacks (ANALOG)

AUDIO OUT jacks (DIGITAL)
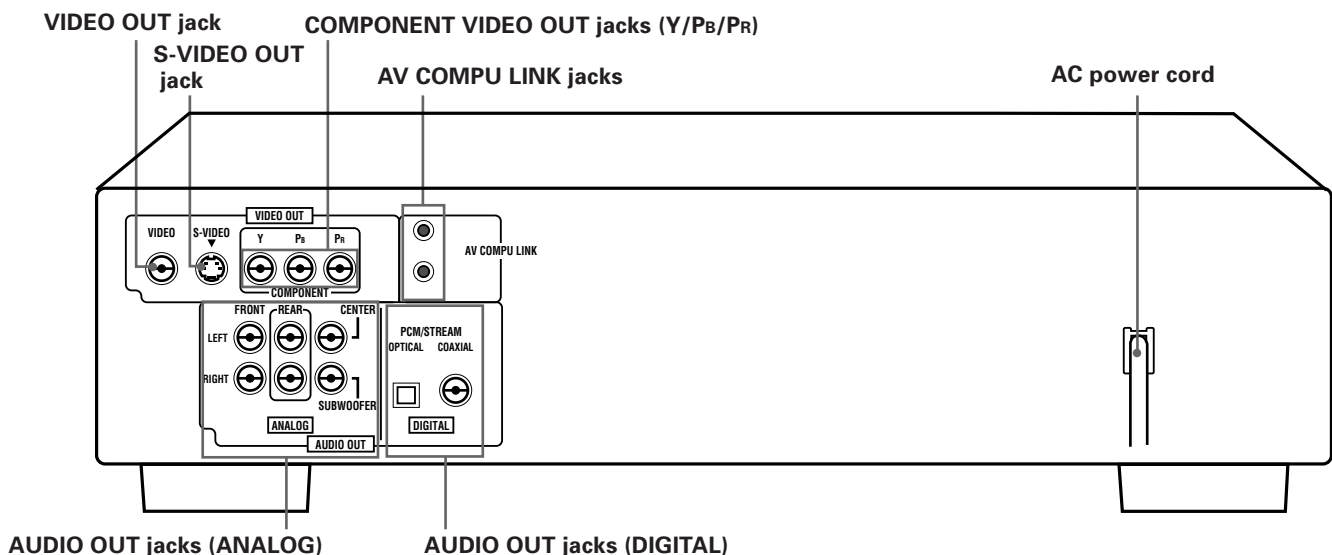
AC power cord (21)
Connects to the wall outlet.

AUDIO OUT jacks (ANALOG)
FRONT (RIGHT and LEFT), REAR (RIGHT and LEFT), CENTER, and SUBWOOFER terminals output 5.1ch analog audio signals (Dolby Digital). FRONT terminals also output Stereo analog audio signals.

AUDIO OUT jacks (DIGITAL)
Outputs digital audio signals. Both coaxial and optical connectors are provided.

AV COMPU LINK jacks (98)
Connects with other JVC equipment supporting the AV Compulink function to facilitate integrated operations.

COMPONENT VIDEO OUT jacks (Y/P$_B$/P$_R$) (17)
Outputs component video signals.

S-VIDEO OUT jack (16)
Outputs an S-video signal.

VIDEO OUT jack (16)
Outputs a composite video signal.

Remote control unit

CATV/SAT POWER button

OPEN/CLOSE button

DVD/TV/CATV switch

SET button

Numeric buttons

CH RETURN button

TITLE button

ON SCREEN button

3D PHONIC button

RETURN button (for DVD/Video CD)

SUBTITLE button (for DVD)

⏮ ⏭ (Skip), PREVIOUS, NEXT buttons

■ (Stop), CLEAR button

**◀◀ ▶▶ (Search) buttons
SLOW buttons (for DVD/Video CD)**

CH button

TV VOLUME button

Infrared signal-emitting window

TV POWER button

DVD POWER button

RESUME button

**CANCEL button
TV/VIDEO button**

MENU button (for DVD)

ENTER, △/▽/▷/◁ (Cursor) button

DIGEST button (for DVD/Video CD)

ANGLE button (for DVD)

VFP button

ZOOM button (for DVD/Video CD)

Ⅱ (Pause), STROBE button

▶ (Play), SELECT button

AUDIO VOLUME button

OPEN/CLOSE   CATV/SAT POWER   TV POWER   DVD POWER

DVD TV CATV   SET   CANCEL TV/VIDEO   RESUME

1   2   3   4
5   6   7   8
9   CH RETURN 10   0   100+ +10

TITLE   MENU

ENTER

ON SCREEN   3D PHONIC   DIGEST   ANGLE

RETURN   SUBTITLE   ZOOM   VFP

⏮ PREVIOUS   ⏭ NEXT

STOP ■   PAUSE Ⅱ   PLAY ▶
CLEAR   STROBE   SELECT

◀◀ SLOW(−)   ▶▶ SLOW(+)

+ CH −   + TV VOLUME −   + AUDIO VOLUME −

JVC

RM–SVD701U REMOTE CONTROL

DVD

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3D PHONIC button (33)
Produces a simulated surround effect.

ANGLE button (for DVD) (46)
Changes camera angles during playback of a DVD containing multiple camera angles.

AUDIO VOLUME button (30)
Adjusts the volume of a JVC AV amplifier or receiver.

CANCEL button (71)
Cancels the previous settings.

CATV/SAT POWER button (25)
Turns the CATV converter or satellite tuner on or off.

CH button (24, 25)
Changes the channels of TV or CATV converter/satellite tuner.

CH RETURN button (24)
Returns to the previous channel (only valid for JVC TVs).

CLEAR button
Clears the selected item.

DIGEST button (for DVD/Video CD) (41, 84)
Display beginning scenes of each title, chapter, or track on the TV screen.

DVD/TV/CATV switch (24, 28)
Selects the function of the numeric buttons to control the corresponding device.

DVD POWER button (23)
Turns the unit on or off (standby).

ENTER, △/▽/▷/◁ (Cursor) button
Executes a selected item in a menu or on-screen display when pressing the button. Selects an item in the on-screen display or title menus or menus of DVD when tilting.

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

MENU button (for DVD) (36)
Displays a menu of DVD on the TV screen or monitor.

NEXT button (for DVD/Video CD) (31)
Performs "next" operation.

Numeric buttons (34)
Depending on the selection of the DVD/TV/CATV switch, they are used for entering a title, track or chapter number, or selecting a TV channel.

ON SCREEN button (10)
Displays an on-screen display of the player on the TV screen or monitor.

OPEN/CLOSE button (29)
Opens and closes the disc tray.

PREVIOUS button (for DVD/Video CD) (31)
Performs "previous" operation.

RESUME button (32)
Stores the location to resume playback from later.

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

SELECT button (for Video CD)
Selects the item.

SET button (24)
Used to set the manufacturer's code for operating another manufacturer's TV, CATV or satellite tuner from the remote control unit.

SLOW button (for DVD/Video CD) (42, 85)
Starts slow-motion playback.

STROBE button (for DVD/Video CD) (42)
Displays 9 still pictures on the TV screen.

SUBTITLE button (for DVD) (48)
Turns subtitles on or off.

TITLE button (36)
Displays a title menu of DVD on the TV screen or monitor. Switches the display in the display window (for Audio CD).

TV/VIDEO button
Switches input of the TV (either TV or VIDEO).

TV VOLUME button (24, 30)
Adjusts the TV volume.

TV POWER button (24)
Turns the TV on or off.

VFP button (50, 92)
Changes the picture quality.

ZOOM button (for DVD/Video CD) (43, 86)
Scene in a close-up view.

❚❚ (Pause) button (31)
Pauses during playback.

► (Play) button (30)
Starts playback.

◄◄ ►► (Search) buttons (31)
Performs fast forward/backward playback operations.

❙◄◄ ►►❙ (Skip) buttons (31, 68)
Performs skipping.

■ (Stop) button (30)
Stops playback.

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Display information

The unit provides several on-screen displays and on-screen guide icons to help you operate the unit.

On-screen displays

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

Basic operations in on-screen display

- With an item like ◁ 1 / 3 ▷ , you can change the setting by placing ↖ on ⊚.
- ◁ REPEAT ▷ - type item works when you place ↖ on the item and press (ENTER).
- In the message box, the operation to be done is displayed according to the item pointed by ↖.
- Numbers are entered using 0 to 10, +10.
- Some functions become effective by pressing (ENTER) after specifying necessary entries.
- Pressing ON SCREEN again exits the on-screen display.

Opening display

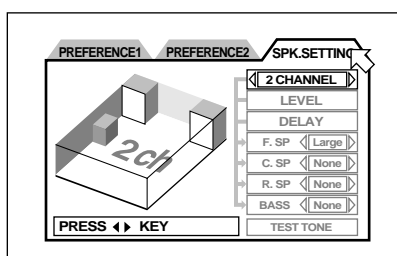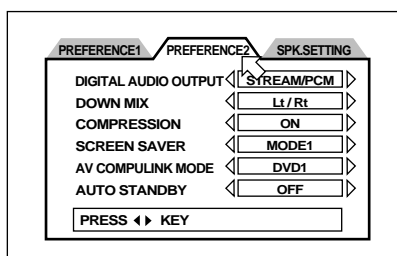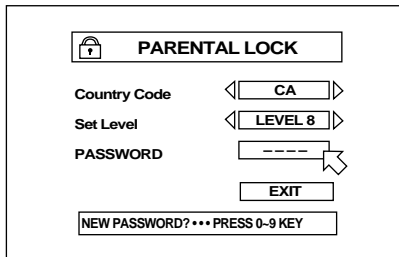Appears when the unit turns on.
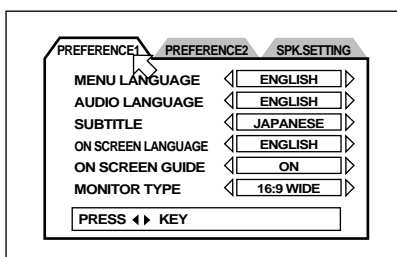
Preference (1 and 2) and Speaker setting displays (see page 52)

You can set preferences and speaker setting via these displays.

To display the Preference 1/Preverence 2/Speaker setting display

1 Press (STOP) to stop the unit.
   If the current disc is not a DVD disc, you have to remove the disc from the tray.

2 Press ON SCREEN .

```
┌──────────────────────────────┐
│  🔒  PARENTAL LOCK            │
│                              │
│  Country Code      ◁  CA  ▷  │
│  Set Level         ◁ LEVEL 8 ▷│
│  PASSWORD            – – – –  │
│                      EXIT     │
│  NEW PASSWORD? • • • PRESS 0–9 KEY │
└──────────────────────────────┘
```
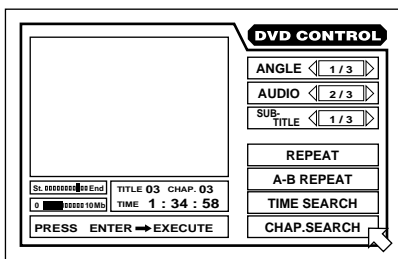
Parental Lock on-screen display (see page 64)

You can set the parental lock from this display.

To display the Parental Lock on-screen display

Press ⊙ENTER while holding down [STOP ■].
The Parental Lock on-screen display appears on the TV screen.

```
┌──────────────────────────────┐
│                    DVD CONTROL│
│                              │
│              ANGLE   ◁ 1 / 3 ▷│
│              AUDIO   ◁ 2 / 3 ▷│
│              SUB-    ◁ 1 / 3 ▷│
│              TITLE           │
│                    REPEAT    │
│ St.□□□□□□■□□End  TITLE 03 CHAP. 03│
│ 0 ■□□□□□10Mb  TIME 1 : 34 : 58│
│                  A-B REPEAT  │
│ PRESS ENTER ➡ EXECUTE  TIME SEARCH│
│                  CHAP.SEARCH │
└──────────────────────────────┘
```

The DVD on-screen display during playback

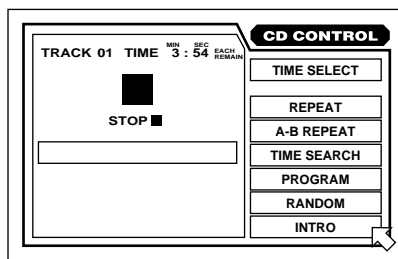You can select and set various function for DVD playback from this display.

To display the DVD on-screen display

During DVD playback, press ⊡ON SCREEN.

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

Current title number   Current chapter number

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

Transmission rate   Elapsed time from the beginning of the current title

```
┌──────────────────────────────┐
│                    CD CONTROL │
│                   MIN SEC EACH│
│ TRACK 01 TIME 3 : 54 REMAIN  │
│                    TIME SELECT│
│         ■          REPEAT    │
│       STOP ■       A-B REPEAT│
│                    TIME SEARCH│
│ ┌──────────────┐   PROGRAM   │
│ └──────────────┘   RANDOM    │
│                    INTRO     │
└──────────────────────────────┘
```
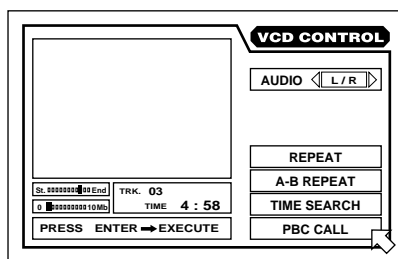
The CD on-screen display

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

To display the CD on-screen display

During Audio CD playback or stop mode, press ⊡ON SCREEN.

```
┌──────────────────────────────┐
│                    VCD CONTROL│
│                              │
│              AUDIO  ◁ L / R ▷│
│                              │
│                    REPEAT    │
│ St.□□□□□□■□□End  TRK. 03      │
│ 0 ■□□□□□□□□□10Mb  TIME 4 : 58 │
│                  A-B REPEAT  │
│ PRESS ENTER ➡ EXECUTE  TIME SEARCH│
│                  PBC CALL    │
└──────────────────────────────┘
```

The Video CD on-screen display during playback

You can select and set various function for Video CD playback on this display. When a Video CD disc is stopped, the same on-screen display which appears when an Audio CD disc is stopped appears.

To display the Video CD on-screen display

During Video CD playback or stop mode, press ⊡ON SCREEN.

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

Current track number

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

Transmission rate   Elapsed time from the beginning of the current track

11

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.
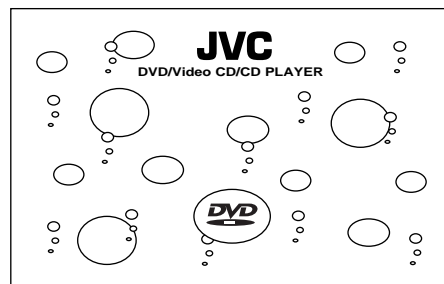
- Pressing any button on the unit or the remote control unit will release the screen saver function and return to the previous display.
- You can select one of several screen saver modes available (see page 58).
- When this function is set to "DIMMER", the display window on the panel always gets dark (FL Dimmer) in addition to the screen saver function (see page 58).

On-screen guide icons

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

: Displayed at the beginning of a scene recorded from multiple angles. (See page 46.)

: Displayed at the beginning of a scene recorded with multiple audio languages. (See page 49.)

: Displayed at the beginning of a scene recorded with multiple subtitles language. (See page 48.)

You can set the unit not to display on-screen icons above via the preference settings described on page 55.

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 fast forward, fast backward or slow-motion playback.

Preliminary knowledge about discs

Playable disc types

Playable and non-playback disc types are as follows:

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

Notes on DVD VIDEO discs

• DVD players and DVD discs have their own Region Code numbers. This player only can play back DVD discs whose Region Code numbers includes "1". Examples of playable DVD discs:

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

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Disc construction

In general, a disc comprises of units which separate recorded audio and/or video materials.

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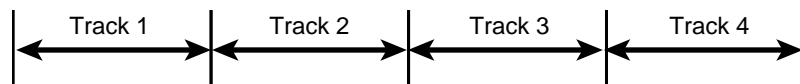
In the case of an audio or video CD, "tracks" are the units. Each song usually has a track number.

Each unit described above has a continuous number, which helps you to find the desired position in a disc.

(Example: DVD disc)

Title 1			Title 2	
Chapter 1	Chapter 2	Chapter 3	Chapter 1	Chapter 2
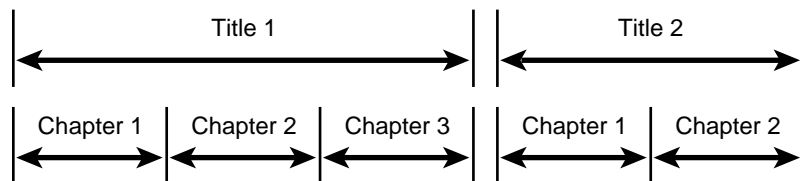
(Example: audio CD/video CD)

Track 1	Track 2	Track 3	Track 4

14

English

Getting started

Before you can enjoy DVD VIDEO, Audio CD, and Video CD playback, you have to prepare the unit. This chapter explains how to get started, including connecting to a variety of components, turning on the unit, and using the remote control unit.

Table of contents of this chapter

Introduction

Preliminary knowledge

Getting started

Basic operations

DVD VIDEO operations

Setting and adjustment

Audio CD operations

Video CD operations

Additional information

15

Connections

Before using the unit, you have to connect the unit to a TV or amplifier. By connecting to an amplifier which has a digital terminal or Dolby digital capability, you can enhance the sound quality.

Before making any connections

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

To connect to a TV, monitor, or projector with the audio input and video input jacks

You can enjoy using the unit by simply connecting it to a television set. To hear improved audio sound quality, connect the audio outputs to your audio equipment. (See the following pages.)
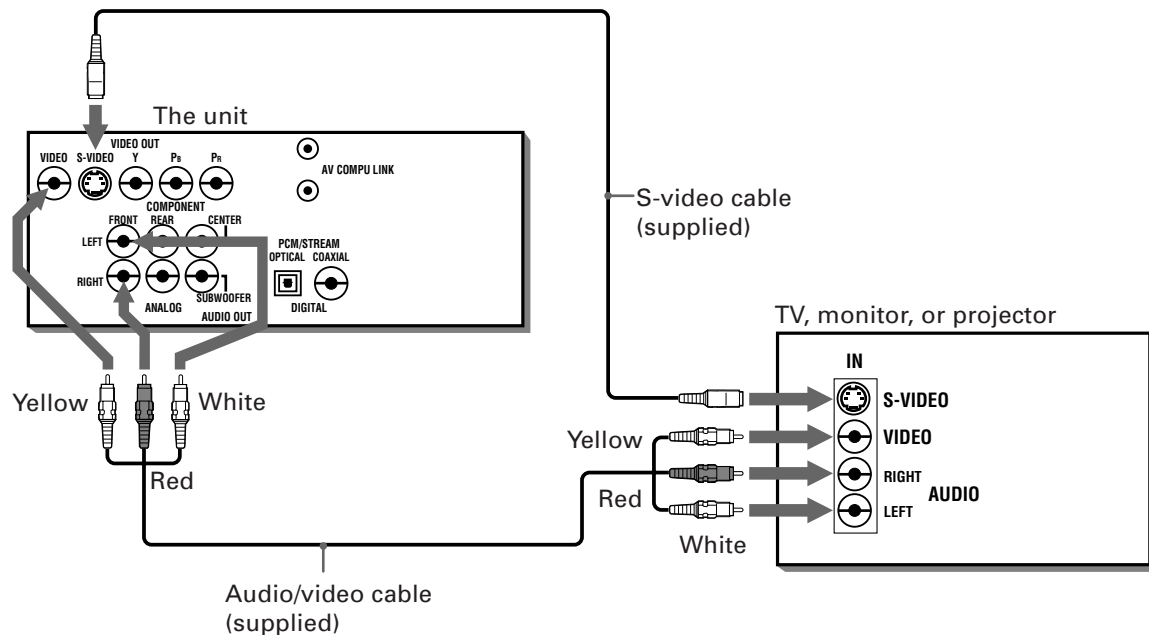
Connect the unit to a television set equipped with stereo audio input and video input jacks using the supplied audio/video cables.

- If your television set 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 television set has an S-video input, you should connect it with the S-VIDEO output of the unit using the supplied S-video cable in addition to the (standard) video connection to get better picture quality.

NOTE

● **Connect VIDEO OUT of the unit to the video input of a television set. Connecting VIDEO OUT of the unit to a TV via a VCR may cause a monitor problem when playing back a copy-protected disc.**

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To connect to a TV, monitor, or projector with the component video input jacks

You can enjoy high picture quality by connecting the unit's COMPONENT VIDEO OUT jacks to the COMPONENT VIDEO IN jacks of your TV, monitor, or projector with the video cables.
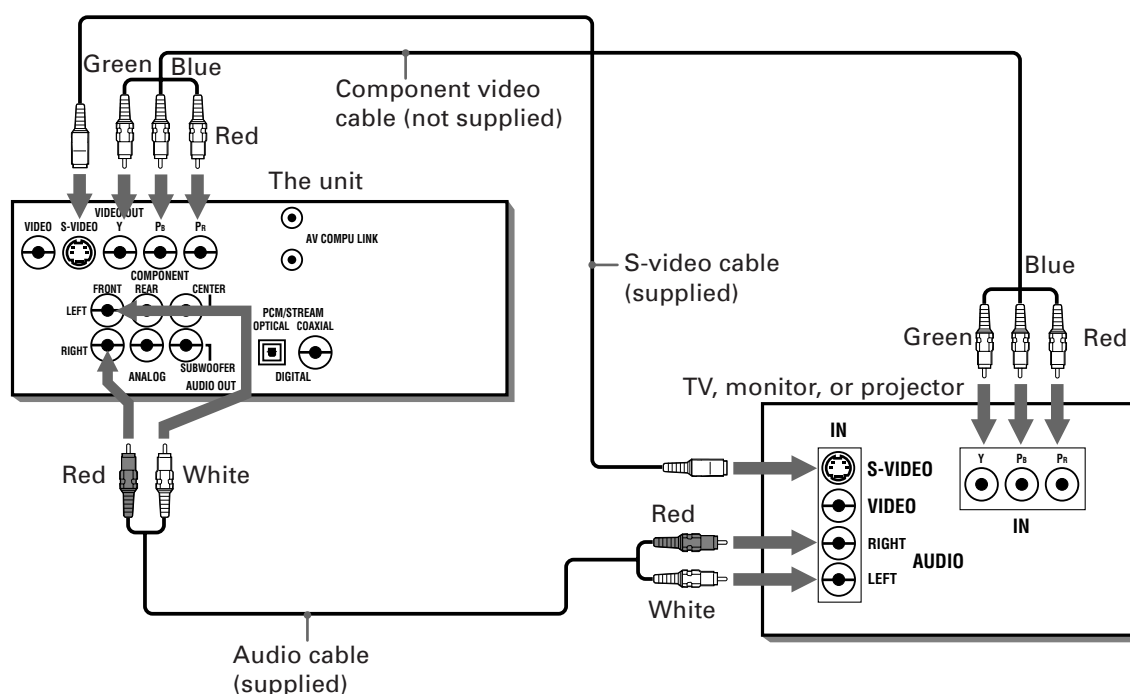
• Connect "Y" to "Y," "PB" to "PB," "PR" to "PR."

NOTES

● **When the component video input jacks of the other source is of the BNC type, use an adapter to convert a pin jack to a BNC jack (optional).**

● **If you do not connect the unit with the S-video cable, some functions of your TV may not work.**

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To connect to an audio amplifier or receiver

Connection to an audio amplifier or receiver

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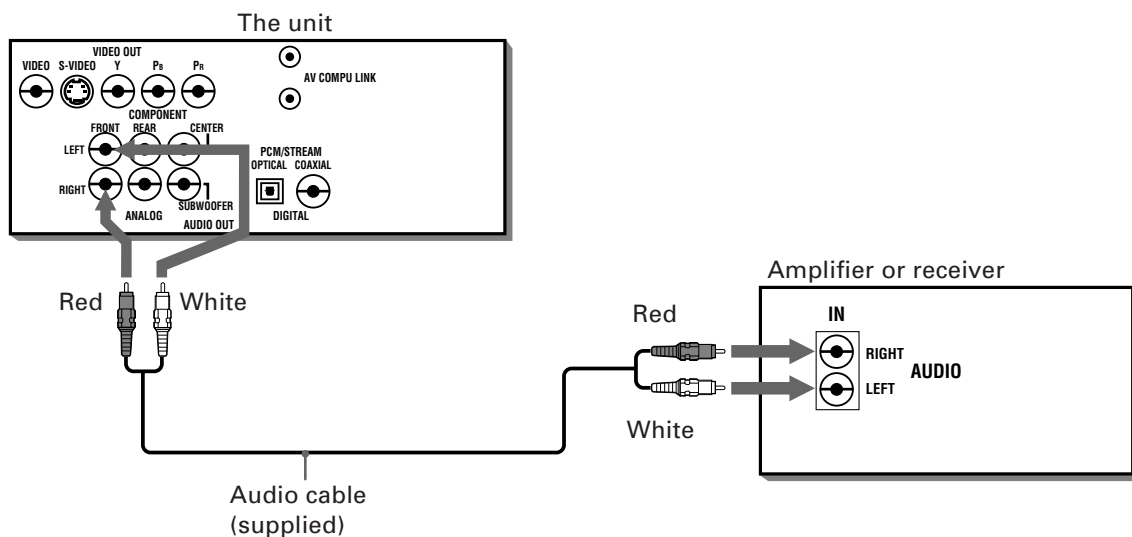
• Connect the unit's FRONT to any line-level inputs (such as AUX, DVD, CD, etc.) of an audio amplifier or receiver.


NOTE

● **To playback a disc containing Dolby Digital 5.1-channel format with this connection, set the "DOWN MIX" in the "PREFERENCE 2" on screen display to "Lt/Rt" or "L0/R0" according to the connected amplifier or receiver. See "DOWN MIX" on page 57.**

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To connect to an amplifier/receiver equipped with Dolby Digital 5.1-channel inputs

The Dolby Digital decoder is built in the unit, so you can enjoy the Dolby digital surround sound without the need of an external decoder.
Connect the unit's 5.1-channel outputs to the Dolby Digital 5.1-channel inputs of an amplifier or receiver using the supplied audio cables.

The unit

Amplifier or receiver

Audio cable (supplied)

Audio/video cable (supplied)

Audio cable (supplied)
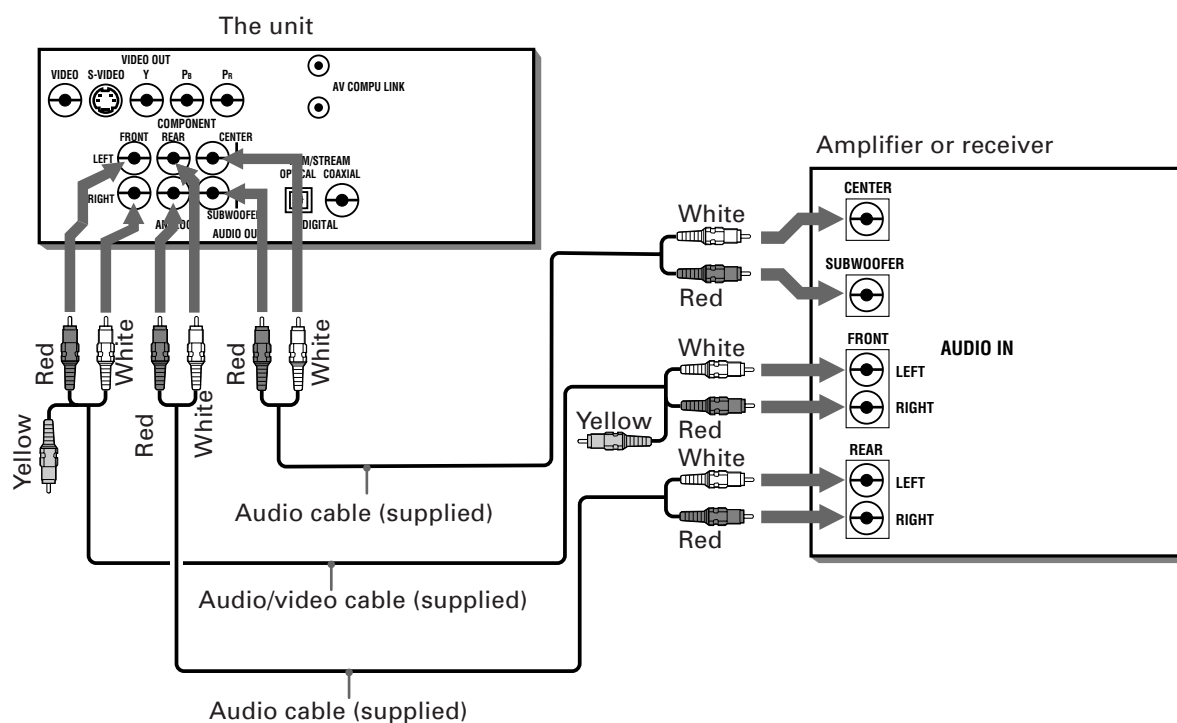
- Be sure to connect correctly between corresponding terminals. The order of the 5.1-channel terminals depend on units.
- An Audio/video cable is recommended for connection to the FRONT terminal (Yellow jack (for Video Signal) is not used in this connection).
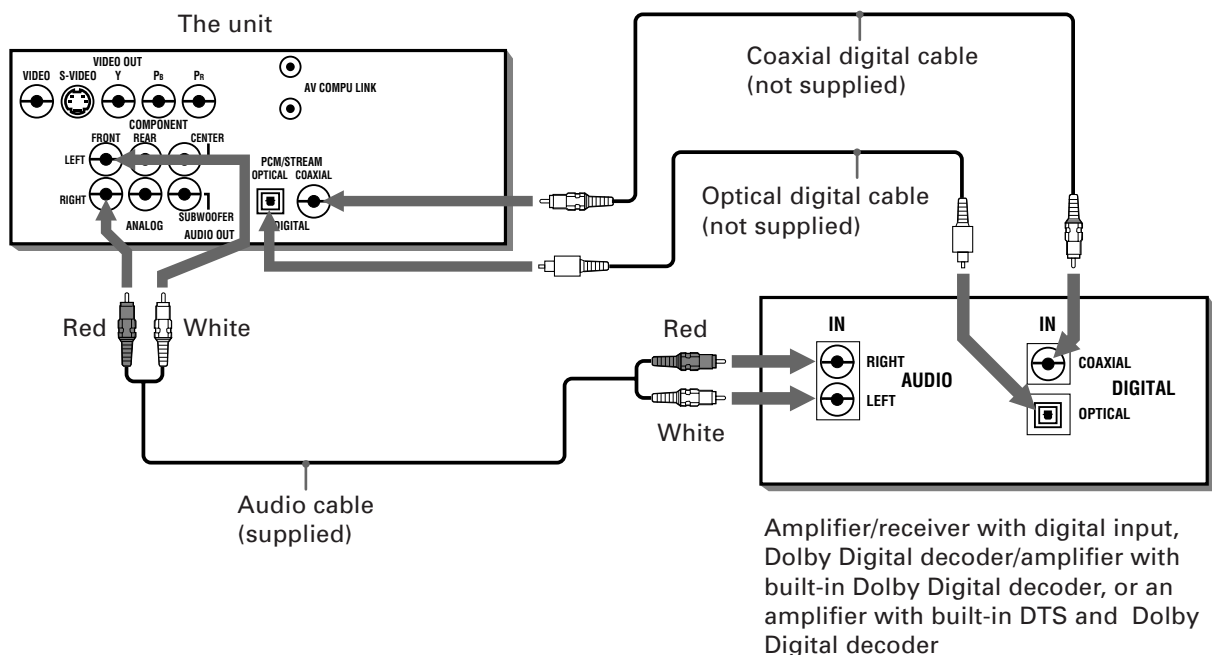

NOTE

● **When using the 5.1-channel outputs of the unit, set the "DOWN MIX" in the "PREFERENCE 2" on-screen display to "OFF" and select "5.1 CHANNEL" or "EXPERT" in the "SPK.SETTING" on-screen display. If the "EXPERT" is selected, you can control the audio output balance of the speakers (see pages 57 and 60).**

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To connect to audio equipment with a digital input

Connection to an amplifier/receiver with digital input, Dolby Digital decoder/amplifier with built-in Dolby Digital decoder, or an amplifier with built-in DTS and Dolby Digital decoder

You can enhance the sound quality by connecting the unit's DIGITAL OUT (coaxial or optical) with the digital input of an amplifier, DAT or MD by using a digital cable. The digital stereo audio signal from a disc is directly transferred. And, if you connect with a Dolby Digital decoder or an amplifier with built-in Dolby Digital decoder by using a coaxial or optional digital cable, you can enjoy high-quality audio and surround sound. The unit also is compatible with the DTS function. When you make a digital connection, leave the 2 channel analog audio connection as it is. Otherwise, depending on the disc type, no audio may be reproduced.

The unit

VIDEO OUT
VIDEO S-VIDEO   Y   P$_B$ P$_R$
AV COMPU LINK
COMPONENT
FRONT REAR CENTER
LEFT
PCM/STREAM
OPTICAL COAXIAL
RIGHT
SUBWOOFER
ANALOG
AUDIO OUT
DIGITAL

Coaxial digital cable (not supplied)

Optical digital cable (not supplied)

Red   White

Red

White

IN
RIGHT
AUDIO
LEFT

IN
COAXIAL
DIGITAL
OPTICAL

Audio cable (supplied)

Amplifier/receiver with digital input, Dolby Digital decoder/amplifier with built-in Dolby Digital decoder, or an amplifier with built-in DTS and Dolby Digital decoder

• For digital connection, connect the unit's DIGITAL out (coaxial or optical) to the digital input of a Dolby Digital decoder or an amplifier with built-in Dolby Digital decoder using an optional digital cable.

NOTES

● **DTS (Digital Theater System)**
DTS is a newly-developed surround system which can handle more amount of data than Dolby Digital, providing better audio quality.
Though the number of audio channels is 5.1 which is same as Dolby Digital, DTS provides fat sound and better signal-to-noise ratio, thanks to the lower audio compression ratio format. It also provides wide dynamic range and better separation, resulting magnificent sound.

● **When you connect the audio equipment with a digital input, before using, change the "DIGITAL AUDIO OUTPUT" setting in the "PREFERENCE 2" on-screen display according to the connected audio equipment with a digital input. When the "DIGITAL AUDIO OUTPUT" setting is not set correctly, loud noise may be played back from speakers, and it cause of the breakdown of your speakers. See "DIGITAL AUDIO OUTPUT" on page 56.**

● **With this connection, the unit's settings for "COMPRESSION" and "DOWN MIX" in the "PREFERENCE 2" on-screen display and the "SPK.SETTING" on screen display are invalid. Settings for these items must be made from the decoder.**

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Turn on the unit

To connect the power cord

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

⚠ Warning

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

⚠ Caution

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

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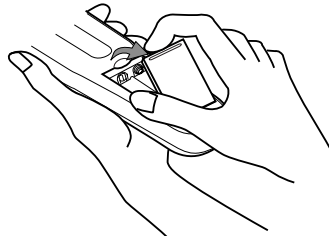
2 Place the two accessory R6P (SUM-3)/AA(15F) batteries in the remote control according to the polarity markings ("+" and "−") inside the compartment and on the batteries.
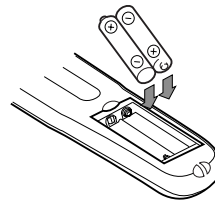
3 Place the cover over the compartment, and press down lightly.
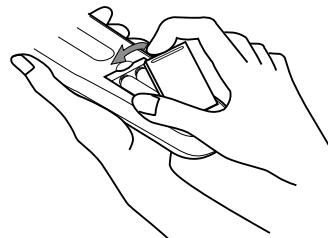
• The batteries will last about six months with normal use. If the functions of the remote control become erratic, replace the batteries. See "Precautions for the safe use of batteries" below for more information.

Precautions for the safe use of batteries

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

Precaution

● **Remove the batteries from the remote control if it is not going to be used for a long period of time.**

● **Remove dead batteries and dispose of them properly.**

● **Never leave dead batteries lying around, take them apart, mix them with other refuse, or throw them into an incinerator.**

● **Never touch liquid that has leaked out of a battery.**

● **Do not mix new and old batteries, or batteries of different types, when replacing them.**

To turn on/off the unit

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

POWER

DVD POWER

Hints
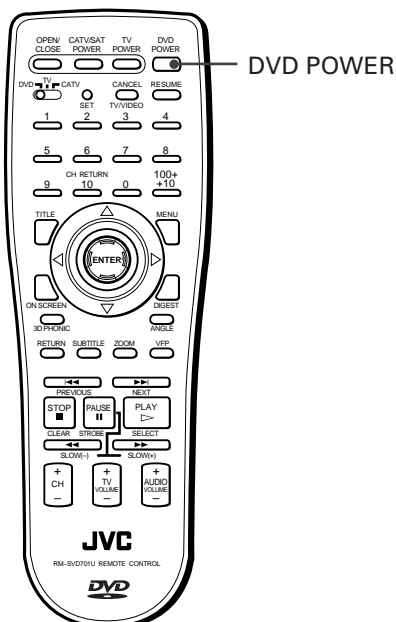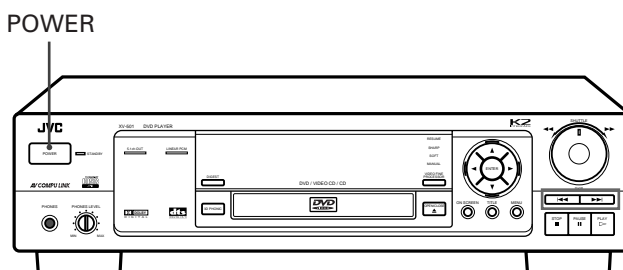
You can turn on the unit by pressing [PLAY] on the front panel or [PLAY] on the Remote control unit. In this operation, the unit starts playback when the disc is set. If not set, the disc tray opens.

You can also turn on the unit by pressing [OPEN/CLOSE] on the front panel or [OPEN/CLOSE] on the remote control unit. In this case, the disc tray opens.

NOTE

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

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Using the remote control unit

You can operate the unit with the remote control unit, and you can also operate your TV or other components with the remote control unit.

To use the remote control unit for TV operation

You can operate a JVC TV with the remote control unit. To operate another manufacture's TV, you have to change the remote control signal. Also refer to the manual supplied with your TV.
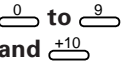
Changing the remote control signal

1 Set ᴰᵛᴰ⌐ᵀⱽ⌐ᶜᴬᵀⱽ on the remote control unit to TV.

2 Press and hold ᵀⱽ POWER, then press ○SET.
Do not release ᵀⱽ POWER. Keep holding ᵀⱽ POWER until the next step is completed.

3 Holding ᵀⱽ POWER, enter the manufacturer's code (two digits) using ⁰ to ⁹.
See the lists on the right to find the manufacturer's code.

4 Release ᵀⱽ POWER.

The following buttons can be used for operating the TV:

| TV POWER	Turns the TV on or off.
+ CH −	Changes the TV channels. (with ᴰᵛᴰ⌐ᵀⱽ⌐ᶜᴬᵀⱽ set to TV only)
+ TV VOLUME −	Adjusts the TV volume.
⁰ to ⁹ and +10	Selects the TV channels. +10 will function as the ENTER button if your TV requires pressing the ENTER button after selecting a channel number. (with ᴰᵛᴰ⌐ᵀⱽ⌐ᶜᴬᵀⱽ set to TV only)
CANCEL TV/VIDEO	You can switch input mode (either TV or VIDEO). (with ᴰᵛᴰ⌐ᵀⱽ⌐ᶜᴬᵀⱽ set to TV only)
CH RETURN 10	Returns to the previous channel. (only valid for JVC TVs)

5 Try to operate your TV by pressing ᵀⱽ POWER.
If your TV turns on or off, you have entered the correct code.

Manufacturer code list

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

NOTE

● **If there is more than one code listed for your brand of TV, try each one until the correct one is entered.**

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To use the remote control unit for CATV converter or satellite tuner operation

You can operate the CATV converter or satellite tuner with the remote control unit. To operate them, you have to change the remote control signal. Also refer to the manual supplied with them.

Changing the remote control signal

1 Set ^{DVD}⌐TV⌐^{CATV} on the remote control unit to CATV.

2 Press and hold $^{CATV/SAT}_{POWER}$, then press $^{O}_{SET}$.
Do not release $^{CATV/SAT}_{POWER}$. Keep holding $^{CATV/SAT}_{POWER}$ until the next step is completed.

3 Holding $^{CATV/SAT}_{POWER}$, enter the manufacturer's code (two digits) using ^{0} to ^{9}.
See the lists on the right to find the manufacturer's code.

4 Release $^{CATV/SAT}_{POWER}$.

The following buttons can be used for operating the CATV converter or satellite tuner (with ^{DVD}⌐TV⌐^{CATV} set to CATV):

$^{CATV/SAT}_{POWER}$	Turns the CATV converter or satellite tuner on or off.
+ CH −	Changes the channels.
^{0} to ^{9}	Selects the TV channels.

5 Try to operate he CATV converter or satellite tuner by pressing $^{CATV/SAT}_{POWER}$.
If the CATV converter or satellite tuner turns on or off, you have entered the correct code.

Manufacturer's code list

No.	Manufacturer
01	GI JERROLD
02	GI JERROLD
03	GI JERROLD
04	GI JERROLD
05	GI JERROLD
06	GI JERROLD
07	GI JERROLD
08	GI JERROLD
09	SCIENTIFIC ATRANTA
10	SCIENTIFIC ATRANTA
11	ZENITH
12	ZENITH
13	PIONEER
14	PIONEER
15	HAMLIN/REGAL
16	HAMLIN/REGAL
17	HAMLIN/REGAL
18	HAMLIN/REGAL
19	OAK/SIGMA
20	OAK/SIGMA
21	OAK/SIGMA
22	TOCOM
23	TOCOM
24	RCA/PANASONIC
25	RCA/PANASONIC
26	RCA/PANASONIC
27	RCA(SAT)
28	SONY(SAT)

NOTE

● **If there is more than one code listed for your brand of he CATV converter or satellite tuner, try each one until the correct one is entered.**

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Basic operations

This chapter explains how to perform basic common DVD, Audio CD and Video CD playback operations.
For more advanced operations, see page 35 for DVD operations, page 67 for Audio CD, page 79 for Video CD.

Table of contents of this chapter

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Before operation

To turn on your TV and the unit

To operate your TV from the remote control unit, you have to set the remote control unit to operate your TV (see page 24).

1 Press ⎕ᵀⱽ POWER to turn on your TV.

2 Press ⎕ᴰⱽᴰ POWER to turn on the unit.

To select the source you want to operate

You can operate the unit with the remote control unit and operate some functions of your TV or the CATV unit.

Hints

You can adjust the volume level, select the TV channel, and change the input source of your TV from the remote control unit.

● To operate the unit, set DVD–TV–CATV on the remote control unit to DVD.

   To operate the unit, point the remote control unit at the remote sensor of the unit.

● To operate the TV, set DVD–TV–CATV on the remote control unit to TV.

   To operate the TV, point the remote control unit at the remote sensor of the TV.

● To operate the CATV unit, set DVD–TV–CATV on the remote control unit to CATV.

   To operate the CATV unit, point the remote control unit at the remote sensor of CATV unit.

Inserting and removing discs

Remote Control | Front Panel

To insert or remove discs

1 Press $\overset{\text{OPEN/}}{\underset{\text{CLOSE}}{\square}}$ to open the disc tray.

2 Place the disc in the tray.

Place a disc with the label face up

• If a disc is 8-cm disc, place it fitting in the inner recess.
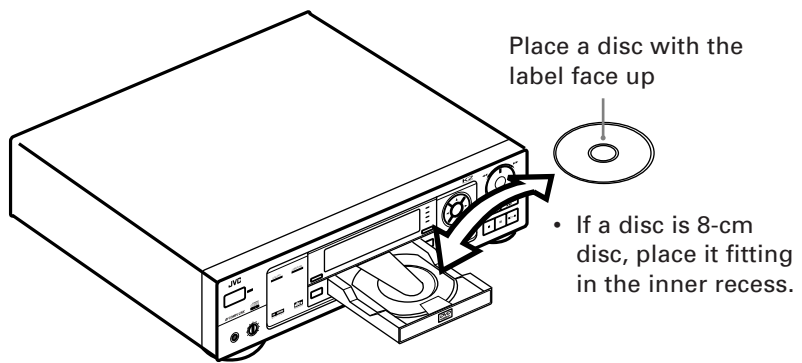
3 Press $\overset{\text{OPEN/}}{\underset{\text{CLOSE}}{\square}}$ to close the disc tray.

Hints

You can also insert and remove the disc from the on-screen display.

1. Use ⊙ to move ↖ to (⏏), then press ⬤ENTER to open the disc tray.

2. Place or remove the disc.

3. Use ⊙ to move ↖ to (⏏), then press ⬤ENTER to close the disc tray.

Information about the opening display

When you insert a DVD VIDEO disc

JVC
DVD/Video CD/CD PLAYER

When you insert an Audio CD disc

JVC
DVD/Video CD/CD PLAYER

When you insert a Video CD disc

JVC
DVD/Video CD/CD PLAYER

Basic operations
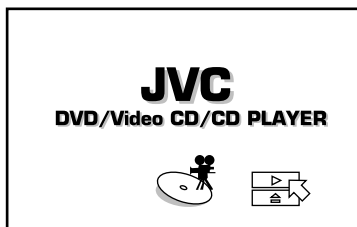
NOTES

● The unit can playback DVD VIDEO, Audio CD, and Video CD discs only. Do not load other disc types. For details, see page 13.

● When loading a disc in the tray, be sure to position the disc inside the recess. Otherwise, the disc may be damaged when the tray is closed, and the disc may not be removed from the unit.

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Playing back a DVD VIDEO or CD disc

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

To playback a disc from the beginning

Remote Control **Front Panel**

Short cuts

Press PLAY ▷.

The unit starts playback from the beginning.

1 Use ◎ to move ◁ to [▷], then press ⓔⓝⓣⓔⓡ.

JVC
DVD/Video CD/CD PLAYER

■ The unit starts playback from the beginning.

Hints

When you play a Video CD disc with PBC function or DVD disc, the menu display may appears on the TV screen. In this case, you can operate some functions such as playback from the selected one by viewing the menu displayed on the TV screen.

To adjusting the volume level

• **For TV**
Press
[+ TV VOLUME] to increase the volume, and [TV VOLUME −] to decrease the volume.

• **For JVC amplifier**
Press [+ AUDIO VOLUME] to increase the volume, and [AUDIO VOLUME −] to decrease the volume.

• **For other amplifier or receiver**
Adjust the volume level of the connected amplifier or receiver.
See the instructions of the amplifier or receiver.

• **For headphones**
To increase the volume, turn [PHONES LEVEL MIN MAX] to the right. To decrease the volume, turn [PHONES LEVEL MIN MAX] to the left.

To stop playback completely

Remote Control **Front Panel**

---

1 Press STOP ■.

■ The unit stops playback.

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To stop playback temporarily

1 Press ⏸.

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

Hints

You can also advance or reverse play rapidly with the SHUTTLE knob on the front panel. To advance play rapidly, turn the shuttle knob to the right and hold, and to reverse play rapidly, turn the shuttle knob to the left and hold. When you release the shuttle knob, the unit returns to normal playback. The playback speed changes according to the amount you turn the shuttle knob.

SHUTTLE knob
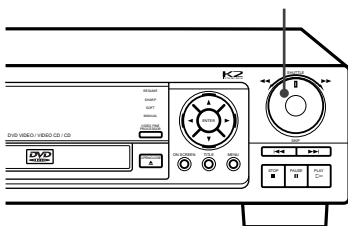
To advance or reverse play rapidly while monitoring

■ During playback

1 Press ▶▶ SLOW(+) or ◀◀ SLOW(−).

Press ▶▶ SLOW(+) to advance playback rapidly, and ◀◀ SLOW(−) to reverse playback rapidly. Each time you press the button, advance playback or reverse playback speed increases. To return to the normal playback, press ▷ PLAY.

To locate the beginning of the scene or song

■ During playback

1 Press ▶▶❘ NEXT or ❘◀◀ PREVIOUS.

Press ❘◀◀ PREVIOUS to locate the beginning of the current chapter, title, or track, and press ▶▶❘ NEXT to locate the beginning of the next chapter, title, or track.

The unit locates the beginning of the track when you play a Video CD disc without the PBC function or Audio CD disc. When you play a Video CD disc with the PBC function or DVD VIDEO disc, the unit may locate anywhere, but mostly it locates on the beginning of the title or chapter or track.

Basic operations

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Resuming playback

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

To store the point where you want to resume playback from [RESUME]

■ During playback

1 Press ⌷ᴿᴱˢᵁᴹᴱ.

The unit stores the current playback position of the disc, and the RESUME indicator on the front panel lights.

The last stored memory overrides the previous memory.

To resume playback from the stored point [RESUME]

■ During stop mode

1 Press ⌷ᴿᴱˢᵁᴹᴱ.

The unit starts playback from the stored position.

NOTES

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

● **To clear the memory**
Take out the disc from the unit.

English

Adjusting the surround sound

You can select the simulated surround effect depending on the disc contents. If you connect the unit to your stereo system, you can enhance sound quality and produce a greater surround effect.

| Remote Control | Front Panel |

To simulate the surround sound [3D PHONIC]

■ During playback

1 Press ⌷ 3D PHONIC.

2 Within 10 seconds, select the desired effect mode by pressing ⌷ 3D PHONIC.

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

ACTION*
↓
DRAMA
↓
THEATER
↓
OFF
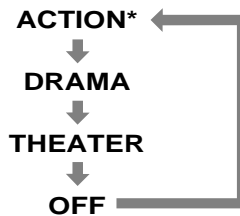
Selected effect mode

* When you play the DVD disc recorded in Dolby Digital and contains more than 3 channel sound, ACTION does not appears.

3 Press ◎ to adjust the effect level.

You can adjust the effect level in 5 steps.
Toward L : Reduce the effect
Toward H : Enhance the effect

Effect level

☞ Hints

To erase the 3D PHONIC screen, press ⌷ENTER. The 3D PHONIC screen disappears if there are no operations for more than 10 seconds.

NOTES

● The sound effect (3D PHONIC) is possible only on discs which are recorded in **DOLBY SURROUND** or **DOLBY DIGITAL**. However, some **DOLBY SURROUND** or **DOLBY DIGITAL** discs do not contain the rear sound signal, in this case, the setting can be changed but the sound effect cannot be obtained.

● You can change the setting of the discs which do not contain the rear sound signal, but the sound effect cannot be obtained.

● The sound effect is not possible, and will not work even if set when the unit outputs 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, on the sound of DVD discs recorded in Linear PCM.

● When you set the 3D PHONIC function to on, the DOWN MIX and COMPRESSION setting in the PREFERENCE 2 display and settings in the SPK.SETTING are disabled.

Basic operations

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Summary of basic operations

The basic operation and buttons for basic operation are shown in table below:

To	Press
Turn on/off the unit	DVD POWER
Play	PLAY ▷
Stop	STOP ■
Pause	PAUSE ‖
Advance or reverse play rapidly while monitoring	◀◀ SLOW(–) / ▶▶ SLOW(+) or turn the shuttle knob and hold.
Locate the beginning of the scene or song	◀◀ PREVIOUS / ▶▶ NEXT until it clicks.

To	Press
Turn on your TV	TV POWER
Adjust the volume of your TV	+ TV VOLUME –
Move the cursor on the TV screen	
Decide the cursor position	ENTER

How to use numeric buttons

The numeric buttons are used to select a track or title number.

To use 1 to 10, +10 (described as "press 1 to 10, +10").

1. Set DVD / TV / CATV to DVD.

2. Select the desired track or 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 +10.

     Example :

     To select 13   +10 → 3

     To select 34   +10 → +10 → +10 → 4

     To select 40   +10 → +10 → +10 → 10

To use 0 to 9 (usually used for time search and described as "press 0 to 9").

1. Set DVD / TV / CATV to DVD.

2. Select the time.

   Example (for DVD VIDEO):

   1 hour 20 minutes   1 → 2 → 0 → 0 → 0

   3 minutes 20 seconds   0 → 0 → 3 → 2 → 0

   Example (for Audio CD/Video CD):

   3 minutes 20 seconds   0 → 3 → 2 → 0

   65 minutes 30 seconds   6 → 5 → 3 → 0

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English

DVD VIDEO operations

This chapter explains all the functions of the player for playing back DVD discs. You can enjoy DVD in various ways such as selecting the subtitle and audio languages, viewing from multiple angle, some of which only DVD can offer.

Introduction

Preliminary knowledge

Getting started

Basic operations

DVD VIDEO operations

Setting and adjustment

Audio CD operations

Video CD operations

Additional information

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Playing a specific scene on a DVD disc

You can play a from a selected scene. You can locate the desired scene on a DVD disc by selecting the title, chapter number, or time. You can also select it from the menu recorded on a DVD disc.

Remote Control **Front Panel**

To locate the desired scene from the menu

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

■ Insert the DVD disc.

1 Press ⬒ MENU or ⬒ TITLE.

The menu appears on the TV screen.

Example
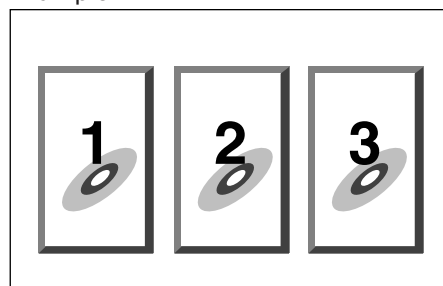
2 Use ◉ to select the desired item, then press ENTER.

■ The unit starts playback of the selected item.

Hints

With some discs, you can select the item by entering the corresponding number using the numeric buttons, causing the unit to automatically start playback.

NOTES

● **When** ⃠ **appears on the TV screen by pressing** ⬒ TITLE **in step 1:**
The disc does not have the menu such as a list of the title.

● **When** ⃠ **appears on the TV screen by pressing** ⬒ MENU **in step 1:**
The disc does not have the menu.

Remote Control

To locate the desired scene by specifying the title number

Each title is usually assigned a title number on DVD discs. You can play the desired title by selecting the title number.

■ During stop mode

1 Use ⏚ to ⏚, ⏚ to select the desired title number.

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

Example:
To select title number 8:   Press ⏚.
To select title number 37:   Press ⏚ › ⏚ › ⏚ › ⏚.

■ The unit begins playback from the selected title.

<div style="text-align:right;">

DVD VIDEO
operations

</div>

NOTE

● When ⃠ is displayed in the TV screen
   The title you have selected is not contained in the disc.

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Remote Control

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

Each chapter is usually assigned a chapter number on DVD discs (except Karaoke discs). You can play the desired chapter by selecting the chapter number from the on-screen display.

■ During playback

1 Press ⬜.
ON SCREEN

The on-screen display appears on the TV screen.

2 Use ◎ to move ⤢ to [CHAP. SEARCH], then press (ENTER).

<GO TO CHAPTER> appears in the message area.
The color of [CHAP. SEARCH] changes.

```
                                 DVD CONTROL
                              ANGLE ◁ 1 / 3 ▷
                              AUDIO ◁ 2 / 3 ▷
                              SUB- ◁ 1 / 3 ▷
                              TITLE
                                 REPEAT
St. 00000000 End  TITLE 03  CHAP. 03    A-B REPEAT
0     00000 10Mb  TIME  1 : 34 : 58    TIME SEARCH
GO TO CHAPTER:                         CHAP.SEARCH
```
Message area

Hints

¹⁰ and ⁺¹⁰ are not used in this function.

3 Use ⁰ to ⁹ to select the desired chapter number, then press (ENTER).

Selected chapter number appears in the message area.

Example:
  To select chapter number 8: Press ⁸ › (ENTER).
  To select chapter number 37: Press ³ › ⁷ › (ENTER).

■ The unit begins playback from the selected chapter.

NOTES

● **When the chapter number is incorrect in step 3:**
  Press ⁰ to erase the number previously selected, and select the desired number using the numeric buttons.

● **When ⃠ is displayed in the TV screen in step 3:**
  The chapter you have selected is not contained in the disc, or chapter search does not work on the disc.

● **To return to the regular display:**
  Press ⬜.
  ON SCREEN

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Remote Control

To locate the desired scene by specifying the time [TIME SEARCH]

If the DVD disc contains time information, elapsed time appears on the TV screen. You can play the desired scene by selecting the time from the on-screen display.

■ During playback

1 Press ⬜.
ON SCREEN

The on-screen display appears on the TV screen.

2 Use 🔘 to move ⬦ to [TIME SEARCH], then press ⒺⓃⓉⒺⓇ.

<GO TO> appears in the message area.

The color of [TIME SEARCH] changes.

DVD CONTROL

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

REPEAT
A-B REPEAT
TIME SEARCH
CHAP.SEARCH

St. 00000000⬛00 End | TITLE **03** CHAP. **03**
0 ⬛00000010Mb | TIME **1 : 34 : 58**
GO TO _ :   : ➡ ENTER

Message area

Hints

¹⁰̲ and ±¹⁰̲ are not used in this function.
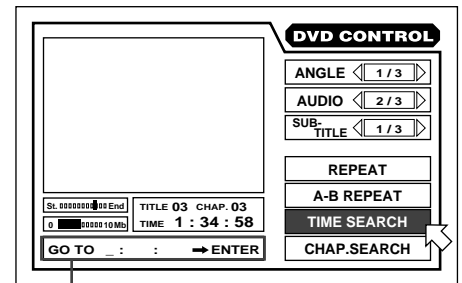
3 Use ⁰̲ to ⁹̲ to select the time (hour, minute, and second) then press Ⓔ.

Example 1:
To playback from the 1 hour point.

DVD CONTROL

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

REPEAT
A-B REPEAT
TIME SEARCH
CHAP.SEARCH

St. 00000000⬛00 End | TITLE **03** CHAP. **03**
0 ⬛00000010Mb | TIME **1 : 34 : 58**
GO TO **1 : 3 4 : 0 0** ➡ ENTER

Selected time

GO TO _ :   :

↓ Press ¹̲.

GO TO 1 : _ :

↓

Press Ⓔ.

DVD VIDEO operations

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Example 2:
 To select playback from 2 hour 34 minutes:

| GO TO _ :   : |

↓ Press ⌒2.

| GO TO 2 : _ : |

↓ Press ⌒3.

| GO TO 2 : 3 _ : |

↓ Press ⌒4.

| GO TO 2 : 3 4 : _ |

↓ Press ⌒0.

| GO TO 2 : 3 4 : 0 |

↓ Press ⌒0.

| GO TO 2 : 3 4 : 0 0 |

↓
Press (ENTER)

■ The unit starts playback from the selected time.
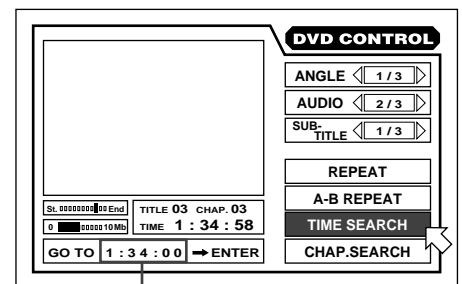
Short cuts

After pressing ⌒4, press (ENTER).

You can input the time by pressing (ENTER) without pressing ⌒0 twice to input the second position.

NOTES

● **When you make a mistake in step 3:**
 Move the cursor to the mistaken value, then press the correct value to re-select the value.

| GO TO 2 : 3 5 : _ |

↓ Press (C.

| GO TO 2 : 3 5 : |

↓ Press ⌒4.

| GO TO 2 : 3 4 : _ |

● **When ⊘ appears in the TV screen in step 2:**
 The time you select is not contained on the disc, or time search does not work on the disc.

● **To return to the regular display:**
 Press ⬜ .
 ON SCREEN

Remote Control **Front Panel**

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

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

■ During stop mode

Hints

When you press ⬜ during playback, the unit displays the opening scene of each chapter and you can select the desired chapter. In this case, opening scenes are displayed from chapter 1.

1 Press ⬜.
DIGEST

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

The up to nine opening scenes are displayed.

2 Use ⬤ to select the desired title.

When you want to check more scenes, press ⬛. Additional
NEXT
scenes appear on the TV screen. When you want to return to previous scenes, press ⬛.
PREVIOUS

Selected title

Hints

• When the selected title is in the lower right-hand corner of the screen, press 𝄞 to check next scenes.

• When the selected title is in the upper left-hand corner of the screen, press 𝄞 to return to previous scenes.

3 Press ⬤ .
ENTER

■ The unit begins playback from the selected title.

DVD VIDEO operations

┌─ **NOTE** ───

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

└──

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Playing in slow-motion

The unit can display a list of the still pictures, and playback a disc in slow-motion. You can view video in more detail using these functions.

To display still pictures [STROBE]

Remote Control **Front Panel**

Hints

During this function, when you press [PAUSE II], next nine still pictures appear on the TV screen and playback pauses. When you press [PLAY ▷], nine still pictures continuously appear on the TV screen.

■ During playback

1 Press [PAUSE II] at the point you want to view like as a continuous photograph.

2 Press and hold [PAUSE II] for more than 1 seconds.

The nine still pictures appear on the TV screen and playback pauses.

To cancel strobe play
Press and hold [PAUSE II] more than 1 second.

To playback in slow-motion [SLOW]

Remote Control **Front Panel**

Hints

You can enjoy advancing the picture frame-by-frame by pressing [PAUSE II] during pause. Each time you press [PAUSE II], the picture advances one frame.

Hints

You can also use the SHUTTLE knob for slow-motion play.

1. Press [PAUSE II] to pause playback.

2. Turn the SHUTTLE knob to the right to play in slow-motion, and turn the SHUTTLE knob to the left to play in slow-motion in reverse. You can adjust the playback speed by turning the SHUTTLE knob.

■ During playback

1 Press [PAUSE II], then press [▶▶ SLOW(+)] or [◀◀ SLOW(−)].

To play in slow-motion, press [▶▶ SLOW(+)], and to play in slow motion in reverse, press [◀◀ SLOW(−)]. First, the unit play the slowest speed, and each time you press these buttons, the playback speed increases. To return to normal playback, press [PLAY ▷].

To pause slow-motion play
Press [PAUSE II].

> **NOTES**
> - **To cancel slow-motion play**
>   Press [PLAY ▷].
> - **The sound is muted during slow-motion play.**

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Playing a scene close-up

The unit can zoom in a part of the scene. You can view any part of the scene close-up.

Remote Control

To playback a scene close-up [ZOOM]

■ During playback or pause

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 🎛 to move the zoomed-in scene.

To pause zoom play

Press ⌷PAUSE⌷.
To resume zoom play, press ⌷PLAY ▷⌷.

┌─ **NOTE** ─────────────────────
● **To cancel zoom play**
  Press ⊂ZOOM⊃.
└──────────────────────────────

DVD VIDEO operations

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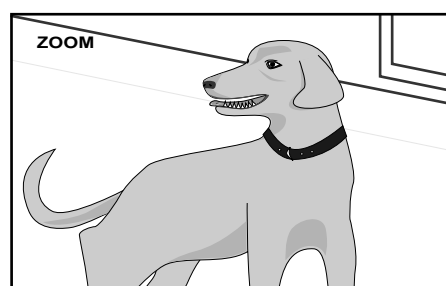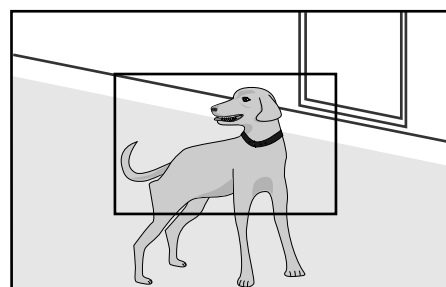
Repeat playback

The unit can repeat playback of the current title or current chapter and you can also select the desired part for repeat playback.

Remote Control **Front Panel**

To repeat a title or chapter [REPEAT]

■ During playback

1 Press ▢ .
ON SCREEN

The on-screen display appears on the TV screen.

2 Use ◎ to move ↖ to [REPEAT], then press (ENTER).

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

T. REPEAT (title repeat)
↓
C. REPEAT (chapter repeat)
↓
No indication (off)

```
                                    DVD CONTROL
                              ANGLE  ◁ 1 / 3 ▷
                              AUDIO  ◁ 2 / 3 ▷
                              SUB-   ◁ 1 / 3 ▷
                              TITLE
                            T. REPEAT
                                REPEAT
  St. 00000000 00 End  TITLE 03  CHAP. 03    A-B REPEAT
  0 ▮▮▮▮ 0000010Mb  TIME  1 : 34 : 58
  PRESS ENTER ➡ EXECUTE                 TIME SEARCH
                                         CHAP.SEARCH
```
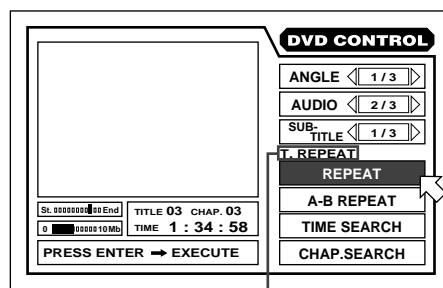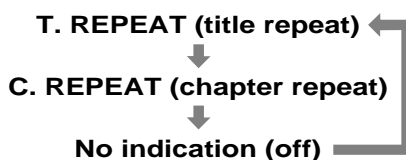
Selected repeat mode appears on the TV screen.

■ The current title or chapter will be repeated.

┌─ **NOTES** ─────────────────────────────────────┐
│   │
│ ● **To turn off the on screen display**   │
│   Press ▢ .   │
│   ON SCREEN   │
│   │
│ ● **To cancel repeat playback**   │
│   Move ↖ to [REPEAT] in the on screen display and press (ENTER) repeatedly │
│   until [REPEAT] returns to its original color. │
│   │
│ ● **If ⊘ appears when pressing ENTER in step 2** │
│   You cannot repeat the title because of the disc contents. │
│   │
└──┘

Remote Control   **Front Panel**

To repeat a desired part [A-B REPEAT]

■ During playback

1 Press ⬜ .
ON SCREEN

The on-screen display appears on the TV screen.

2 Use ◎ to move ⬍ to [A-B REPEAT], then press (ENTER) at the beginning of the part you want to repeat (point A).

The color of "A-B REPEAT" changes.

```
                          DVD CONTROL
                    ANGLE  ◁ 1 / 3 ▷
                    AUDIO  ◁ 2 / 3 ▷
                    SUB-   ◁ 1 / 3 ▷
                    TITLE
                         REPEAT
 St. 00000000000End  TITLE 03  CHAP. 01    A-B REPEAT
 0        0000010Mb   TIME  0 : 00 : 03    TIME SEARCH
 A 0 : 0 0 : 0 3 ➡ B  :  :                 CHAP.SEARCH
```
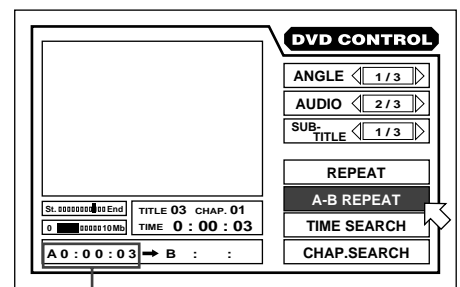
Point A

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."

```
                          DVD CONTROL
                    ANGLE  ◁ 1 / 3 ▷
                    AUDIO  ◁ 2 / 3 ▷
                    SUB-   ◁ 1 / 3 ▷
                    TITLE
                         REPEAT
 St. 00000000000End  TITLE 03  CHAP. 01    A-B REPEAT
 0        0000010Mb   TIME  0 : 08 : 52    TIME SEARCH
 A 0 : 0 0 : 0 3 ➡ B 0 : 0 8 : 5 2         CHAP.SEARCH
```
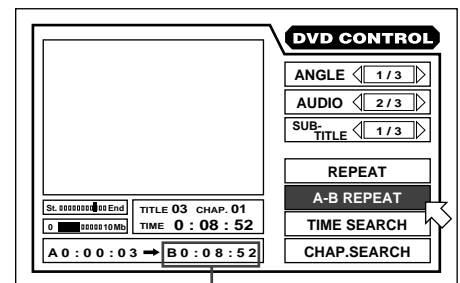
Point B

■ The selected portion will be repeated.

DVD VIDEO operations

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

● **To turn off the on screen display**
Press ⬜ .
ON SCREEN

● **To cancel A-B repeat playback**
Move ⬍ to [A-B REPEAT] in the on screen display and press (ENTER) until [A-B REPEAT] returns to its original color.

● **If ⊘ appears when pressing ENTER in step 2**
You cannot repeat the selected portion because of the disc contents.

└───┘

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Viewing from multiple angles

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

Remote Control

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

■ During playback

1 Press ▱ ANGLE.

2 Press ▱ ANGLE or ◉ to select the desired angle.

Each time you press ▱ ANGLE or ◉, the scene changes.

Remote Control   **Front Panel**

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

■ During playback

1 Press ▢ ON SCREEN.

The on-screen display appears on the TV screen.

2 Use ◉ to move ↘ to [ANGLE].

The total number of recorded angles

```
DVD CONTROL
ANGLE     ◁ 1 3 ▷
AUDIO     ◁ 2 / 3 ▷
SUB-
TITLE     ◁ 1 / 3 ▷

        REPEAT
       A-B REPEAT
      TIME SEARCH
      CHAP.SEARCH

St. 00000000 00 End   TITLE 03  CHAP. 03
0 ■■ 00000 10Mb   TIME  1 : 34 : 58

SELECT ◀▶ KEY
```
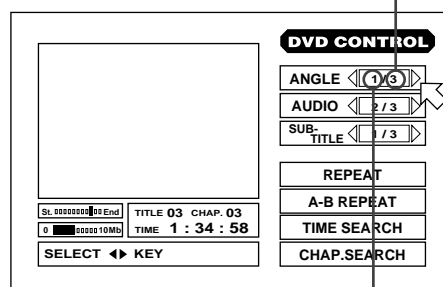
The current angle number

3 Use ◉ to select the desired angle number.

Example:

1 / 3
↓
2 / 3
↓
3 / 3
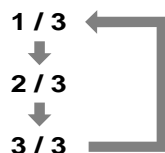
┌── **NOTES** ──────────────────────────┐

● **To turn off the on screen display**
  Press ▢ ON SCREEN.

● **When ⃠ appears on the TV screen**
  The current scene is not recorded from multiple angles.

└────────────────────────────────────┘

Remote Control

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

■ During playback

1 Press and hold 🔲 for more than 1 seconds.

Up to 9 angle scenes recorded on a disc appear on the TV screen.
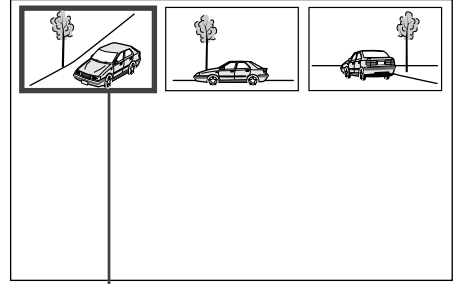
The selected scene angle

2 Use 🔘 to select desired angle.

3 Press ⊙.

■ The selected angle appears on the TV screen.

DVD VIDEO operations

NOTE

● **When ⊘ appears on the TV screen in step 1:**
  The current scene is not recorded from multiple angles.

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Changing the language and sound

You can choose the sub-title or audio language from among the languages included on a disc and select the sound from a variety of sounds included on a disc.

Remote Control **Front Panel**

🖐**Hints**

You can turn ON/OFF the subtitle by pressing ⏏. Each time you press ⏏, the ON/OFF status is switched. When the subtitle function is ON, the subtitle language appears on the TV screen.

🖐**Hints**
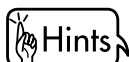
When you select the language, if the abbreviation appears on the TV screen, select the abbreviation corresponding to the desired language. See "Table of languages and their abbreviations" at the end of this instructions.

To select the subtitle language [SUBTITLE]

■ During playback

1 Press ⌂.
   ON SCREEN

The on-screen display appears on the TV screen.

2 Use (◉) to move ⬡ to [SUBTITLE].

3 Use (◉) to select the desired subtitle.

Each time you use (◉), the subtitle changes.

Example:

   1/3 ENGLISH
   ⬇
   2/3 FRENCH
   ⬇
   3/3 SPANISH
   ⬇
   –/3 (off)

Total number

DVD CONTROL

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

St. 00000000 End   TITLE **03** CHAP. **03**
0 ■■ 0000010Mb   TIME **1 : 34 : 58**
SELECT ◀▶ KEY ENGLISH

Selected subtitle number
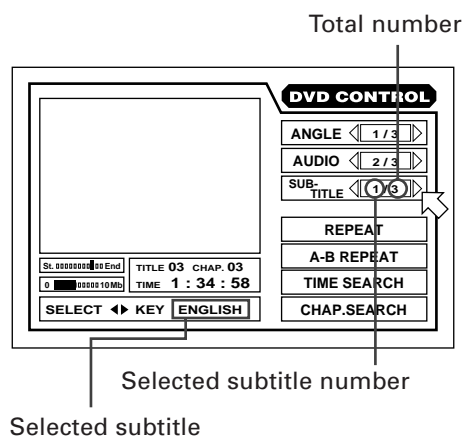
Selected subtitle

NOTE

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

To change the audio language or sound selection [AUDIO]

■ During playback

1 Press ⬜ .
ON SCREEN

The on-screen display appears on the TV screen.

2 Use 🎛 to move ↘ to [AUDIO].

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

St. 0000000 End   TITLE **03** CHAP. **03**
0 █████ 10Mb   TIME **1 : 34 : 58**
SELECT ◀▶ KEY   ENGLISH
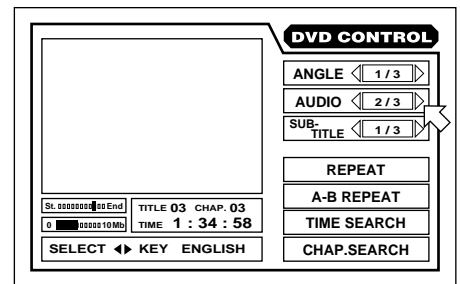
3 Use 🎛 to select desired audio language or sound.

Each time you use 🎛, the audio language or sound changes.

Example:

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

Total number

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

St. 0000000 End   TITLE **03** CHAP. **03**
0 █████ 10Mb   TIME **1 : 34 : 58**
SELECT ◀▶ KEY   ENGLISH

Selected audio number

Selected audio language

DVD VIDEO operations
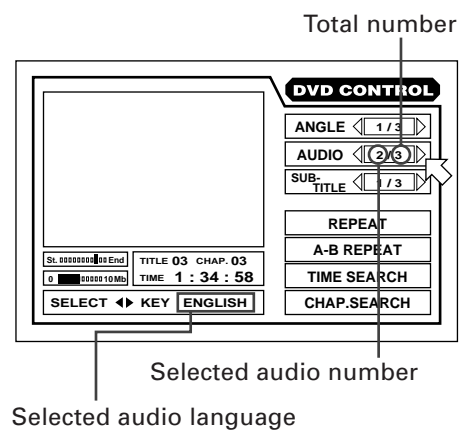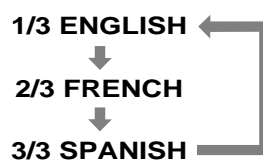
NOTE

● **When ⊘ appears on the TV screen:**
You cannot select the audio or sound because the disc contains only one of audio language or sound selection (1/1 appears on the display).

49

Adjusting the picture to suit preferences

You can adjust the picture quality depending on the disc contents.

Remote Control **Front Panel**

To adjust the picture quality [VFP]

■ During playback

1 Press ⌣ VFP or ⌣ VIDEO FINE PROCESSOR on the front panel.

2 Within 10 seconds, select the desired picture quality by pressing ⌣ VFP or ⌣ VIDEO FINE PROCESSOR on the front panel.
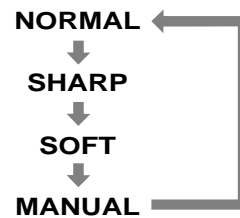
The selected picture quality tab lights up in yellow.

Each time you press the button, the picture quality changes as follows:

NORMAL
↓
SHARP
↓
SOFT
↓
MANUAL

| NORMAL | SHARP | SOFT | MANUAL |

SHARPNESS L|⫿⫿⫿⫿⫿⫿⫿⫿⫿⫿⫿⫿|H
NR LEVEL L|⫿⫿⫿⫿⫿⫿⫿⫿⫿⫿|H

Adjusting bar

Hints
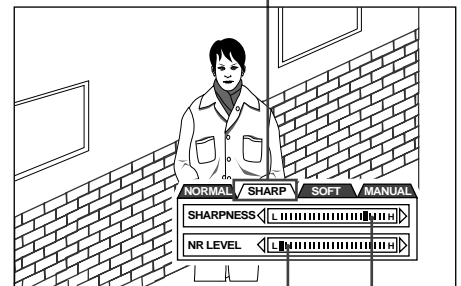
If you select [MANUAL], you can adjust the level of picture sharpness and noise reduction.

1. Use ◎ to select SHARPNESS or NR LEVEL.

2. Use ◉ to adjust the level.

Toward L : Reduce the effect.
Toward H : Enhance the effect.

NOTES

● To erase the VFP screen, press ⬤ ENTER.

● The VFP screen disappears if there are no operations for more than 10 seconds.

English

Setting and adjustment

This chapter explains unit settings for playing back DVD discs. You can change the initial settings in various ways, for example, selecting the subtitle and audio language, type of monitor, and the cutting out violent scenes with the Parental lock function in order not to be viewed by children .

Table of contents of this chapter

Introduction

Preliminary knowledge

Getting started

Basic operations

DVD VIDEO operations

Setting and adjustment

Audio CD operations

Video CD operations

Additional information

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Selecting preferences

You can set various preferences for DVD via the Preference and Speaker setting display. Select desired items on the Preference 1, Preference 2 and Speaker setting displays, and set them appropriately.

Remote Control **Front Panel**

How to set preferences on the "PREFERENCE1/2" and "SPK.SETTING" display

1 Press 🔲 to stop the unit.

If the current disc is not a DVD disc, you have to remove the disc from the tray before setting up.

Hints

For details of each setting, see the following pages:

PREFERENCE 1

MENU LANGUAGE (53)
AUDIO LANGUAGE (53)
SUBTITLE (54)
ON SCREEN LANGUAGE (54)
ON SCREEN GUIDE (55)
MONITOR TYPE (55)

PREFERENCE 2

DIGITAL AUDIO OUTPUT (56)
DOWN MIX (57)
COMPRESSION (57)
SCREEN SAVER (58)
AV COMPULINK MODE (59)
AUTO STANDBY (59)

SPK.SETTING (60)

2 Press 📄.

The on-screen display appears on the TV screen. The Preference 1, Preference 2 and Speaker setting displays are available. Use ⊚ to move 🔽 to the desired tab.

Preference 1

PREFERENCE1	PREFERENCE2	SPK.SETTING
MENU LANGUAGE	◁	ENGLISH	▷
AUDIO LANGUAGE	◁	ENGLISH	▷
SUBTITLE	◁	JAPANESE	▷
ON SCREEN LANGUAGE	◁	ENGLISH	▷
ON SCREEN GUIDE	◁	ON	▷
MONITOR TYPE	◁	16:9 WIDE	▷

PRESS ◀▶ KEY

Preference 2

PREFERENCE1	PREFERENCE2	SPK.SETTING
DIGITAL AUDIO OUTPUT	◁	STREAM/PCM	▷
DOWN MIX	◁	Lt / Rt	▷
COMPRESSION	◁	ON	▷
SCREEN SAVER	◁	MODE1	▷
AV COMPULINK MODE	◁	DVD1	▷
AUTO STANDBY	◁	OFF	▷

PRESS ◀▶ KEY

Speaker setting

PREFERENCE1	PREFERENCE2	SPK.SETTING

2 CHANNEL
LEVEL
DELAY
F. SP ◁ Large ▷
C. SP ◁ None ▷
R. SP ◁ None ▷
BASS ◁ None ▷

PRESS ◀▶ KEY   TEST TONE

Hints

To return to the normal screen, press 📄.

3 Move 🔽 to select the item you want to set by using ⊚.

PREFERENCE1	PREFERENCE2	SPK.SETTING
MENU LANGUAGE	◁	ENGLISH	▷
AUDIO LANGUAGE	◁	ENGLISH	▷
SUBTITLE	◁	JAPANESE	▷
ON SCREEN LANGUAGE	◁	ENGLISH	▷
ON SCREEN GUIDE	◁	ON	▷
MONITOR TYPE	◁	16:9 WIDE	▷

PRESS ◀▶ KEY
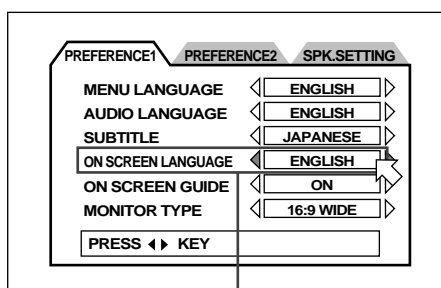
Selected item

4 Press ⊚ to select the setting you want.

To set the language and display preference items

The PREFERENCE 1 can be set as follows:

MENU LANGUAGE

You can select a default "display" language to be displayed if it is contained on the disc.

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

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

PREFERENCE1	PREFERENCE2	SPK.SETTING
MENU LANGUAGE	◁	ENGLISH ▷
AUDIO LANGUAGE	◁	ENGLISH ▷
SUBTITLE	◁	JAPANESE ▷
ON SCREEN LANGUAGE	◁	ENGLISH ▷
ON SCREEN GUIDE	◁	ON ▷
MONITOR TYPE	◁	16:9 WIDE ▷
PRESS ◀▶ KEY		

Selected language

Pressing ⏪ changes the language setting in the reverse order of the above.

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

AUDIO LANGUAGE

You can select the default audio language to be played if it is contained on the disc.

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

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

PREFERENCE1	PREFERENCE2	SPK.SETTING
MENU LANGUAGE	◁	ENGLISH ▷
AUDIO LANGUAGE	◁	ENGLISH ▷
SUBTITLE	◁	JAPANESE ▷
ON SCREEN LANGUAGE	◁	ENGLISH ▷
ON SCREEN GUIDE	◁	ON ▷
MONITOR TYPE	◁	16:9 WIDE ▷
PRESS ◀▶ KEY		

Selected language

Pressing ⏪ changes the language setting in the reverse order of the above.

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

Setting and adjustment

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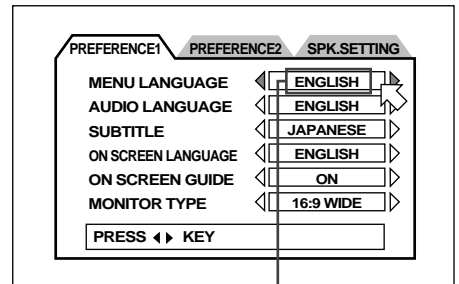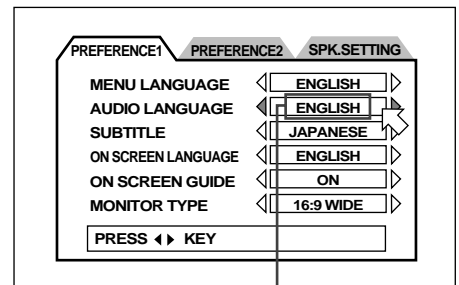
SUBTITLE

You can select the default subtitle language to be displayed when it is contained on a playback disc.

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

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

Pressing (((changes the language setting in the reverse order of the above.

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

```
PREFERENCE1   PREFERENCE2   SPK.SETTING
MENU LANGUAGE      ◁ ENGLISH   ▷
AUDIO LANGUAGE     ◁ ENGLISH   ▷
SUBTITLE           ◁ JAPANESE  ▷
ON SCREEN LANGUAGE ◁ ENGLISH   ▷
ON SCREEN GUIDE    ◁ ON        ▷
MONITOR TYPE       ◁ 16:9 WIDE ▷
PRESS ◀▶ KEY
```
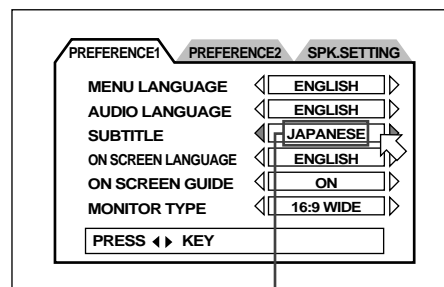
Selected language

ON SCREEN LANGUAGE

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

Each time you press (((O))), the language setting changes as follows:

ENGLISH
↓
ESPAÑOL (Spanish)
↓
FRANCAIS (French)

```
PREFERENCE1   PREFERENCE2   SPK.SETTING
MENU LANGUAGE      ◁ ENGLISH   ▷
AUDIO LANGUAGE     ◁ ENGLISH   ▷
SUBTITLE           ◁ JAPANESE  ▷
ON SCREEN LANGUAGE ◁ ENGLISH   ▷
ON SCREEN GUIDE    ◁ ON        ▷
MONITOR TYPE       ◁ 16:9 WIDE ▷
PRESS ◀▶ KEY
```
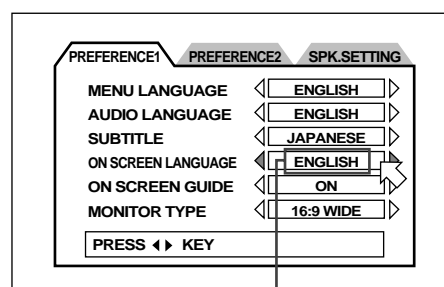
Selected language

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

ON SCREEN GUIDE

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

```
PREFERENCE1    PREFERENCE2    SPK.SETTING

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

PRESS ◀▶ KEY
```

• **ON**
The guide display turns on.

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

Examples of "On-screen guide" icons or characters to be off:
🎥, ◉⟩⟩, ▭
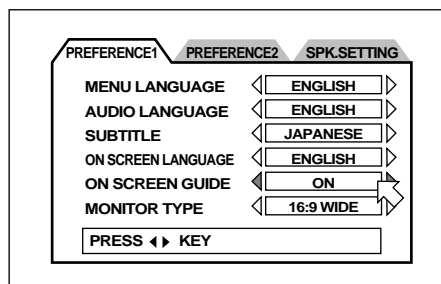
MONITOR TYPE

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

• **4:3 LB** ▭ (Letter Box Conversion)
When you connect a normal TV to the unit.
When you play a wide picture recorded on a DVD VIDEO, 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, a portion of the picture is automatically cut off from the left and right sides of the image. According to the disc, it is prohibited to playback on this mode. In this case, the picture is played back like as the picture on 4:3 LB ▭ mode.

• **16:9 WIDE** (Wide Television screen)
When you connect a wide-screen TV to the unit.

Setting and adjustment

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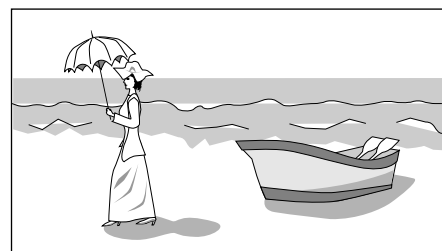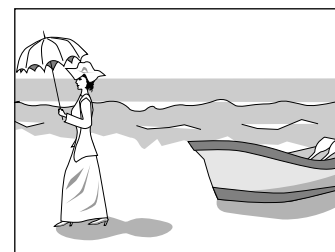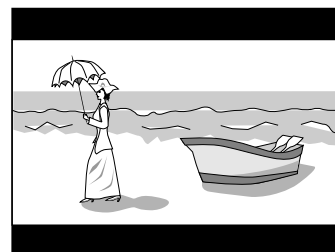
To set other preference items

The PREFERENCE 2 can be set as follows:

DIGITAL AUDIO OUTPUT

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

PREFERENCE1	PREFERENCE2	SPK.SETTING
DIGITAL AUDIO OUTPUT	STREAM/PCM	
DOWN MIX	Lt/Rt	
COMPRESSION	ON	
SCREEN SAVER	MODE1	
AV COMPULINK MODE	DVD1	
AUTO STANDBY	OFF	

PRESS ◀▶ KEY

- **PCM ONLY:**
  When you connect the DIGITAL OUT jack of the unit and the linear PCM digital input of an audio equipment.

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

- **DOLBY DIGITAL/PCM:**
  When you connect to the Dolby digital input of a Dolby Digital decoder, an amplifier with built-in Dolby Digital decoder
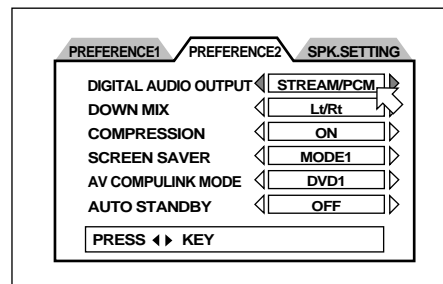
The following chart shows the relationship between types of playback discs and output signals.

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-bit linear PCM	←	←
DVD with 96-kHz, linear PCM	No output	←	←
DVD with DTS	DTS bitstream	No output	No output
DVD with Dolby Digital	Dolby Digital bitstream	←	48-kHz, 16-bit linear PCM
DVD with MPEG audio	MPEG bitstream	48-kHz, 16-bit linear PCM	←
Video CD	44.1-kHz, 16-bit linear PCM	←	←
Audio CD	44.1-kHz, 16-bit linear PCM	←	←
Audio CD with DTS	DTS bitstream	←	←

NOTES

● **When you play a CD disc with DTS, unnecessary audio signal output from the AUDIO OUT (analog) jack. Adjust the volume level of an amplifier connected to the AUDIO OUT jack of the unit to minimum.**

● **When you do not connect the unit to the DTS decoder, a CD disc with DTS cannot be played back. Do not play a CD disc with DTS when the unit is connected to the DIGITAL jack other than it of the DTS decoder. If you do so, loud noise may be played back from speakers, and it cause of the breakdown of your speakers.**

DOWN MIX

By setting DOWN MIX correctly, you can get the optimum stereo mix for your audio system from DVD discs recorded with Dolby Digital surround multichannel audio.

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

- **Lt/Rt:**
  You can monitor the unit's audio output signals via an amplifier with built-in Dolby Pro Logic Decoder.

- **L0/R0:**
  You can monitor the unit's audio output signals via a TV, an amplifier with no built-in Dolby Pro Logic Decoder, or the unit's headphone jack. Also for recording DVD audio output to a cassette tape, MD, etc.

- **OFF**
  When you monitor the unit's 5.1-channel audio output signals via an amplifier equipped with Dolby Digital 5.1-channel inputs.
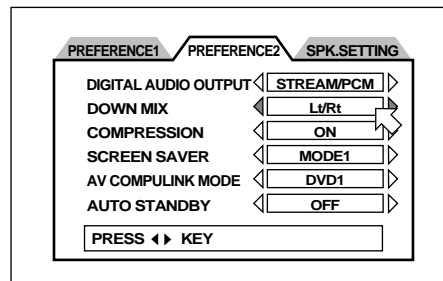
COMPRESSION

You can compress the dynamic range of the sound if you need. Using this function, you can listen to sound in small volume easily.

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

Setting and adjustment

- **ON**
  Audio is played back with the dynamic range compressed.

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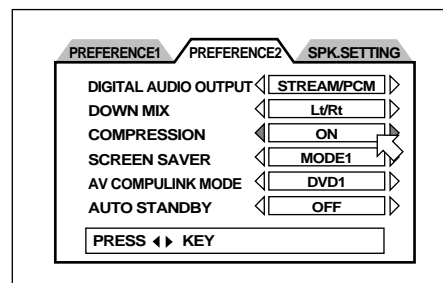
NOTES

● The compression function works only when playing back the disc recorded on DOLBY DIGITAL 1 CH or 2CH. The setting is not effective on other discs.

● The compression function is automatically set to ON when the downmix function is set to Lt/Rt or L0/R0.

● The compression function does not work when the 3D PHONIC function is activated.

● The downmix function does not work when the 3D PHONIC fucntion is activated.

SCREEN SAVER

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

• **MODE 1**
  The picture is scrolled.

• **MODE 2**
  The picture is not scrolled.

• **DIMMER**
  The picture gets dark.

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

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

JVC
DVD/Video CD/CD PLAYER

DVD
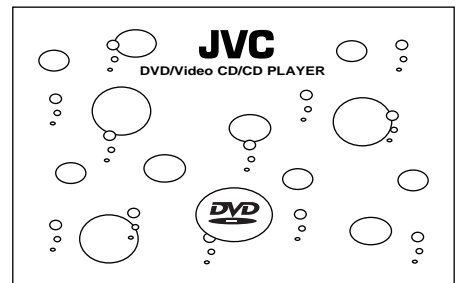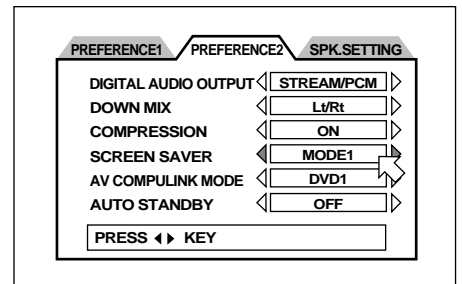
NOTES

● When screen saver mode is set to DIMMER, the display window on the front panel also gets dark (FL Dimmer). To return to normal brightness, set to the other mode.

● The monitor screen of a projector or projection TV is easily to burned out if a static picture is displayed for a long time. Be careful not to allow the monitor screen to be burned out when you set the screen saver mode to OFF.

● The TV screen may be noisy when you set the screen saver mode to MODE 1. In this case, set to the other mode.

AV COMPULINK MODE

If you use the AV Compulink system, you must set this item correctly.
Select from the three options: "**DVD1**," "**DVD2**" and "**DVD3**" according to the equipment to be connected.
See page 98.

```
┌──────────────────────────────────────────┐
│  PREFERENCE1 / PREFERENCE2 \ SPK.SETTING  │
│                                           │
│  DIGITAL AUDIO OUTPUT ◁ STREAM/PCM ▷      │
│  DOWN MIX              ◁    Lt/Rt    ▷     │
│  COMPRESSION          ◁     ON      ▷     │
│  SCREEN SAVER         ◁    MODE1    ▷     │
│  AV COMPULINK MODE    ◁    DVD1     ▷     │
│  AUTO STANDBY         ◁    OFF      ▷     │
│                                           │
│      PRESS ◀▶ KEY                         │
└──────────────────────────────────────────┘
```
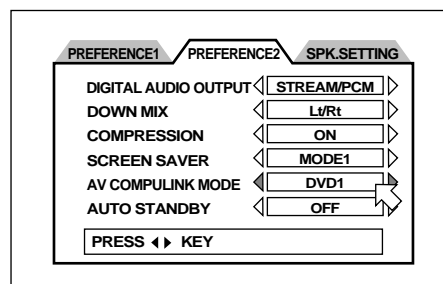
AUTO STANDBY

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

• **60**
  Time is set to 60 minutes.

• **30**
  Time is set to 30 minutes.

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

```
┌──────────────────────────────────────────┐
│  PREFERENCE1 / PREFERENCE2 \ SPK.SETTING  │
│                                           │
│  DIGITAL AUDIO OUTPUT ◁ STREAM/PCM ▷      │
│  DOWN MIX              ◁    Lt/Rt    ▷     │
│  COMPRESSION          ◁     ON      ▷     │
│  SCREEN SAVER         ◁    MODE1    ▷     │
│  AV COMPULINK MODE    ◁    DVD1     ▷     │
│  AUTO STANDBY         ◁     60      ▷     │
│                                           │
│      PRESS ◀▶ KEY                         │
└──────────────────────────────────────────┘
```

Setting and adjustment

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Remote Control **Front Panel**
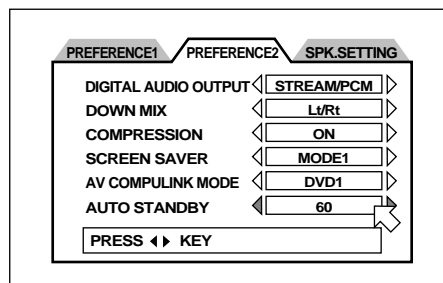
Speaker setting

You can make speaker setting according to your system. Normally, simply select "5.1 CHANNEL" or "2 CHANNEL". However, if you select "EXPERT", you can set various settings to match your speakers.

SPEAKER CHANNELS

You can select the speaker channels according to the speaker system connected to

PREFERENCE1	PREFERENCE2	**SPK.SETTING**

◁ **5.1 CHANNEL** ▷
LEVEL
DELAY
F. SP ◁ Large ▷
C. SP ◁ Small ▷
R. SP ◁ Small ▷
BASS ◁ S.woofer ▷

5.1ch

PRESS ◀ ▶ KEY | TEST TONE

• **2 CHANNEL**
When you connect to a 2-channel amplifier, or use 2 speakers.

• **5.1 CHANNEL**
When you connect to a 5.1-channel amplifier and use the front, rear , center and sub-woofer speakers.

• **EXPERT**
When you want to set the various settings to match your speakers. The following five setting items are available.
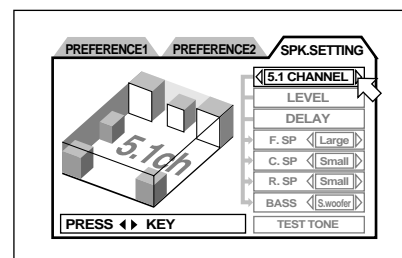
NOTES

● **When selecting 5.1 CHANNEL or EXPERT, set DOWN MIX to OFF (see page 57).**

● **Dolby Digital LFE (Low Frequency Effect) signals are always fed from the SUBWOOFER output on the rear panel of the unit regardless of speaker setting.**

● **When playing back digital audio output signals of the unit using an external decoder, speaker setting above is invalid. Make setting of the external decoder properly.**

60

1 Speaker size (available only when selecting EXPERT)

Sets the speaker size according to your speakers.

1 Select the speaker to be set using ⊚ .
   • **F.SP:**   front speakers
   • **C.SP:**   center speaker
   • **R.SP:**   rear speakers
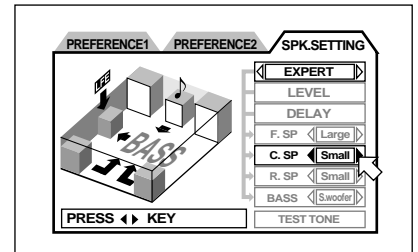
2 Select the size using (⊚).
   • **Large:**   large speaker(s) which can fully reproduce the low-frequency range.
   • **Small:**   small speaker(s) which can not fully reproduce the low-frequency range.
   • **None:**   No speaker(s) connected.

   If you set the front speakers to "Small", you cannot set the other speakers to "Large".

2 Bass redirect (available only when selecting EXPERT)

When you use small speakers which do not fully reproduce the low-frequency range, you can boost up the low-frequency signals of the sub-woofer or front speakers

1 Select [BASS] using ⊚ .

2 Select Sub-woofer or L/R using (⊚).
   • **S.woofer:**   the low-frequency signals fed from the sub-woofer output are boosted up.
   • **L/R:**   the low-frequency signals fed from the front speaker output are boosted up.
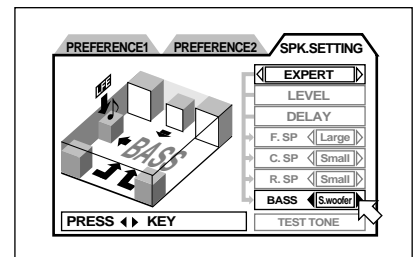
   The "Bass redirect" setting is effective only when at least any one of the speaker sizes is set to "Small". If none of them is set to "Small", this setting is not activated ("None" appears in the setting field).
   Please note that when playing back a Dolby Digital disc, LFE (Low Frequency Effect) signals are fed from the SUBWOOFER output even if "BASS" shows "None" or "L/R". So you may use a sub-woofer even in such case.
   If the front speaker size is set to "Small", the Bass redirect setting is fixed to "S.woofer".

Setting and adjustment

3 Speaker level (available only when selecting EXPERT)

You can adjust the output level of each speaker.

1 Select [LEVEL] using ⊚ , then press ⊙.
The color of "LEVEL" changes.

2 Select the desired speaker(s) to be set using ⊚ .
• **F.SP:** front speakers. the level is fixed to 0db.
• **C.SP:** center speaker
• **R.SP:** rear speakers
• **S.WOOFER:** sub-woofer
The setting range is -6 db to +6 db in 1 db units.

3 Set the level using ⊚.
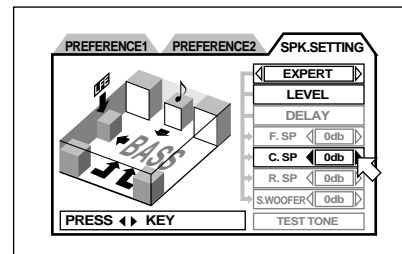
4 Delay (available only when selecting EXPERT)

You can adjust the delay time of each speakers.

1 Select [DELAY] using ⊚ , then press ⊙.
The color of "DELAY" changes.

2 Select the desired speaker(s) to be set using ⊚ .
• **F.SP:** front speakers. the delay is fixed to 0ms.
• **C.SP:** center speaker (selectable from 0 to -5 mS in 1 mS units)
• **R.SP:** rear speakers (selectable from 0 mS, -5mS, -10 mS, and -15 mS)

3 Set the delay time using ⊚.

☞ Hints

For the speaker(s) whose size is set to "None", Speaker level and Delay cannot be set ("——" appears in the setting field).

However, when playing back a Dolby Digital disc, LFE singal is output from SUBWOOFER output even if S. WOOFER shows "——", allowing to activate a sub-woofer connected. In such case, adjust the output level using the level control on the sub-woofer.

☞ Hints

Delay of S.WOOFER cannot be set.

NOTES

● **To exit the speaker level (or delay) setting mode**
Move ⬦ to [LEVEL] (or [DELAY]) in the on-screen display and press ⊙ until [LEVEL] (or [DELAY]) returns to its original color.

62

5 Test tone (available only while setting LEVEL or DELAY)

You can check the level or delay setting by monitoring the test tone.

1 Select [TEST TONE] using ⊚ , then press ⊙ENTER .
The color of "TEST TONE" changes.

2 Select the desired speaker(s) using ⊚ .
• **F.SP:** front speakers
• **C.SP:** center speaker
• **R.SP:** rear speakers
After selecting the Test tone, if you do not move the cursor, the test tone is output from each speaker one by one.
In Test tone mode, if you move ↗ down from "R.SP" position, the test tone continues to output from the rear speakers as long as ↗ is any position other than "F.SP" and "C.SP". Similarily, if you move ↗ up from "F.SP" position, the test tone continues to output from the front speakers as long as ↗ is any position other than "C.SP" and "R.SP".

3 Set the level or delay using ⊚ again, if necessary.

☞Hints

In Test tone mode, you hear pink noise, which includes all frequencies in the audible range, from the speakers. This is not a malfunction.

☞Hints

The test tone is not output from the SUBWOOFER output.

┌─ **NOTES** ─────────────────────────
● **To exit the test tone mode**
Move ↗ to [TEST TONE] in the on-screen display and press ⊙ENTER until [TEST TONE] returns to its original color.

Limiting playback by children

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

Remote Control

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

1 Press ⊙ while holding down ◾.

If the current disc is not a DVD disc, you have to remove the disc from the tray before setting up.

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

(The parental lock function is operated with the remote control unit only.)

2 Use ⊙ to select the [CA] for country code and press ⊙.

```
🔒  PARENTAL LOCK

Country Code      ◁ CA ▷
Set Level         ◁ LEVEL 8 ▷
PASSWORD          ────
                  EXIT
PRESS ◀▶ KEY  →  ENTER
```
Country code

Hints

"LEVEL 1" is the strictest level.
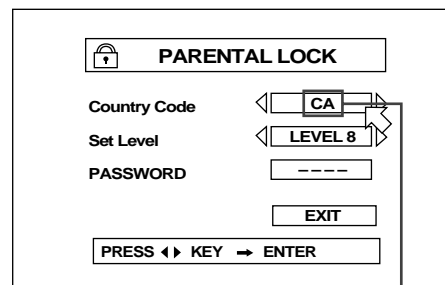
3 Use ⊙ to select the parental lock level.

Each time you press 》), the parental level changes from LEVEL 1 to LEVEL 8.
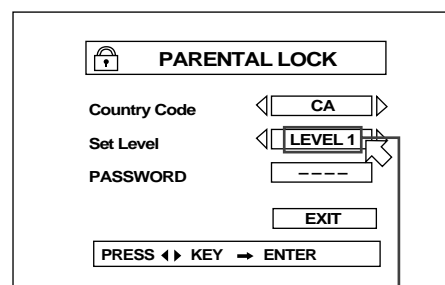
```
🔒  PARENTAL LOCK

Country Code      ◁ CA ▷
Set Level         ◁ LEVEL 1 ▷
PASSWORD          ────
                  EXIT
PRESS ◀▶ KEY  →  ENTER
```
Selected level

4 Press ⊙.

5 Enter your 4-digit password using 0 to 9 and press ⊙.

```
🔒  PARENTAL LOCK

Country Code      ◁ CA ▷
Set Level         ◁ LEVEL 1 ▷
PASSWORD          ────
                  EXIT
NEW PASSWORD? • • • PRESS 0–9 KEY
```
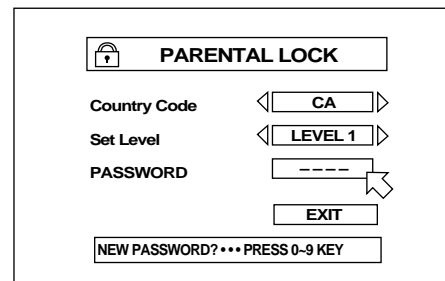
■ The parental level and password are set.

Remote Control

To change the settings [PARENTAL LOCK]

1 Press (ENTER) while holding down (STOP).

If the current disc is not a DVD disc, you have to remove the disc from the tray before setting up.

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

```
┌─────────────────────────────────────┐
│  🔒    PARENTAL LOCK                  │
│                                       │
│  Country Code      ◁  CA   ▷          │
│  Set Level         ◁ LEVEL 1 ▷        │
│  PASSWORD            ────              │
│                                       │
│                    ┌──────┐           │
│                    │ EXIT │           │
│                    └──────┘           │
│  CURRENT PASSWORD? ••• PRESS 0–9 KEY  │
└─────────────────────────────────────┘
```

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

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

3 Use (🎛) to move 🔍 to [Set Level], then use (🎛) to select the parental lock level.

```
┌─────────────────────────────────────┐
│  🔒    PARENTAL LOCK                  │
│                                       │
│  Country Code      ◁  CA   ▷          │
│  Set Level         ◁ LEVEL 1 ▷        │
│  PASSWORD            ────              │
│                                       │
│                    ┌──────┐           │
│                    │ EXIT │           │
│                    └──────┘           │
│  PRESS ◀▶ KEY  ➡  ENTER              │
└─────────────────────────────────────┘
```
Selected level

4 Press (ENTER).

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

■ The new setting is effective.

┌─ **NOTES** ───┐

● **When you enter the wrong password more than 3 times in step 2 above,** 🔍 **moves to <EXIT> automatically and** (🎛) **does not work.**

● **If you forget your password in step 2**
Enter "8888."

└──┘

Setting and adjustment

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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 Parental Lock on-screen display appears on the TV screen, and the unit will ask you whether you want the parental lock to be released temporarily or not.

1 Use the ⦾ to select [YES] or [NO], then press ⦿.

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

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

```
┌──🔒 PARENTAL LOCK ──┐
   This DISC can't play now!
  Temporary      ┌─────────┐
  Level Change ? │   YES   │
                 ├─────────┤
                 │   NO    │
  PASSWORD       │ ─ ─ ─ ─ │
  ┌──────────────────────────┐
  │ PRESS ENTER ➡ EXECUTE    │
  └──────────────────────────┘
```
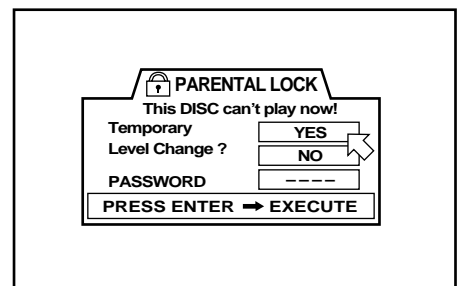
2 Enter your 4-digit password using ⓪ to ⑨.

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

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

NOTE

● When you enter the wrong password more than 3 times in step 2 above, ⬔ moves to <NO> automatically and ⦾ does not work.

English

Audio CD operations

This chapter explains all the unit functions for playing back Audio CD discs. You can enjoy Audio CDs in various ways such as listening to only the desired track, changing the track order, and repeating tracks.

Introduction

Preliminary knowledge

Getting started

Basic operations

DVD VIDEO operations

Setting and adjustment

Audio CD operations

VIDEO CD operations

Additional information

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Playing a specific track on a disc

You can play a specific track on a disc by selecting the track number or time. You can select it from the on-screen display on the TV screen, or using remote control.

Remote Control **Front Panel**

To locate a desired track using ⏭ NEXT or ⏮ PREVIOUS

■ During playback

Hints

You can display the desired track number on the TV screen. In this case, press ☐ ON SCREEN to display the Audio CD on-screen display, then select the desired track.

1 Press ⏭ NEXT or ⏮ PREVIOUS.

- To skip to a succeeding track, press ⏭ NEXT once or repeatedly until the desired track appears in the display.
- To skip to beginning of the current track, press ⏮ PREVIOUS once.
- To skip to a preceding track, press ⏮ PREVIOUS repeatedly until the desired track appears in the display.

Display window

TRACK
15

Selected track number

Remote Control

To locate a desired track directly

■ During playback or stop mode

1 Select a desired track number using 1 to 10, +10.

Example:
To select track number 8:   Press 8.
To select track number 37:   Press +10 › +10 › +10 › 7.
To select track number 15:   Press +10 › 5.

Display window
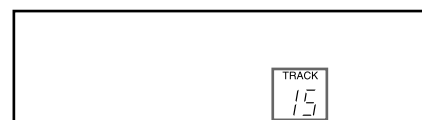
TRACK
15

Selected track number

■ The unit starts playback from the selected track.

Remote Control

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

You can playback a disc from the desired position by specifying the elapsed time from the beginning of the disc.

1 Press ⌂.
ON SCREEN

The on-screen display appears on the TV screen.

2 Use ⊙ to move ⬡ to [TIME SEARCH] and press ⊙.
ENTER

The color of "TIME SEARCH" changes.

```
┌──────────────────────────────────────┐
│                          CD CONTROL   │
│ TRACK 01   TIME  3 : 54 EACH          │
│                MIN SEC  REMAIN        │
│                          TIME SELECT  │
│   PRESS NUMERIC KEY      REPEAT       │
│      GO TO _ :           A-B REPEAT   │
│          MIN SEC                      │
│                          TIME SEARCH  │
│  ┌────────────┐          PROGRAM      │
│  └────────────┘          RANDOM       │
│                          INTRO        │
└──────────────────────────────────────┘
```
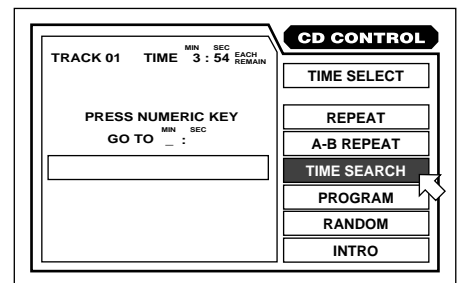
3 Use ⓪ to ⑨ to select the time (minute and second) then press ⊙.
ENTER

Example:

To playback from 2 minutes 34 seconds.

```
┌──────────────────────────────────────┐
│                          CD CONTROL   │
│ TRACK 01   TIME  3 : 54 EACH          │
│                MIN SEC  REMAIN        │
│                          TIME SELECT  │
│   PRESS NUMERIC KEY      REPEAT       │
│      GO TO 02 : 34       A-B REPEAT   │
│          MIN SEC                      │
│                          TIME SEARCH  │
│  ┌────────────┐          PROGRAM      │
│  └────────────┘          RANDOM       │
│                          INTRO        │
└──────────────────────────────────────┘
              Selected time
```

GO TO _ :

↓ Press ⓪.

GO TO 0_ :

↓ Press ②.

GO TO 02 : _

↓ Press ③.

GO TO 02 : 3 _

↓ Press ④.

GO TO 02 : 3 4

↓

Press ⊙
ENTER

Hints
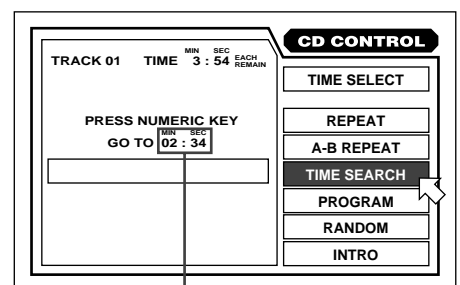
⑩ and ⁺¹⁰ are not used for this function.

■ The unit starts playback from the selected time.

Audio CD operations

___

NOTES

● **When you make a mistake in step 3:**
Move the cursor to the mistaken value, then press the correct value to re-select the value.

GO TO 02 : _

↓ Press ◀

GO TO 0_2_ :

↓ Press ⁴⊏⊐

GO TO 04 : _

● **When ⊘ appears in the TV screen in step 3:**
The time you selected is not contained on the disc, or time search does not work on the disc.

___

Changing the track order

You can listen to CD tracks in the desired order, or in random order. You can program up to 16 tracks.

Remote Control

To playback in the desired order [PROGRAM]

By creating a program, you can enjoy listening to your favorite tracks in any order.

■ During stop only

1 Press ⬜ .
ON SCREEN

The on screen display appears on the TV screen.

2 Use ◎ to move ⬦ to
[PROGRAM] and press (ENTER).

The color of "PROGRAM" changes.

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

3 Select the tracks in the
desired order using ⬣ to
¹⁰⬣, ⁺¹⁰⬣.

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

```
┌─────────────────────────────────┬──────────────┐
│                      MIN  SEC    │  CD CONTROL  │
│ TRACK 01   TIME  3 : 54 EACH REMAIN│             │
│                                  │ TIME SELECT  │
│            ■                     │   REPEAT     │
│          STOP ■                  │  A-B REPEAT  │
│                                  │ TIME SEARCH  │
│  PRESS NUMERIC KEY               │   PROGRAM    │
│  1  5  8  4  5  6  7  9          │   RANDOM     │
│  9 10 11 12 13 14 15 16          │    INTRO     │
└─────────────────────────────────┴──────────────┘
```
Selected track number

Hints

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

4 Press ⬜ to start program play.
PLAY ▷

Hints
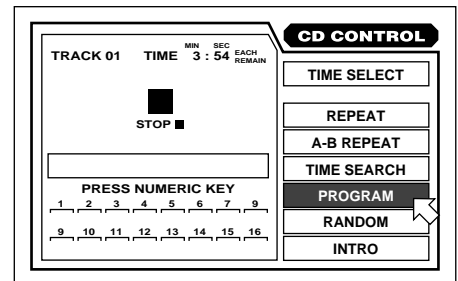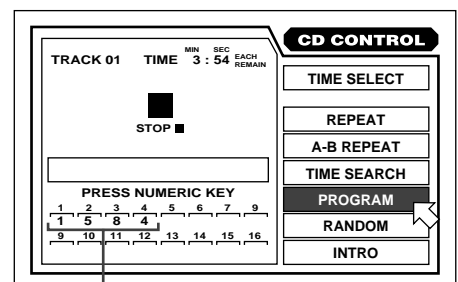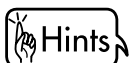
You can program tracks during
program playback.

Audio CD operations

┌─ **NOTES** ──────────────────────────────────────┐
│ ● **When you make a mistake in step 3:**   │
│   Press ⬜ . The last track programmed is erased. │
│   CANCEL   │
│   │
│ ● **To clear program play**   │
│   Press ⬜ to stop playback, then press ⬜ again. All the programmed │
│   STOP   STOP   │
│   tracks are erased.   │
│   │
│ ● **To quit the program play**   │
│   Move ⬦ to [PROGRAM] in the display using ◎ and press (ENTER). │
│   "PROGRAM" returns to its original color.   │
└───┘

To playback tracks in random order [RANDOM]

The unit can play tracks in random order.

■ During stop mode

1 Press □ .
 ON SCREEN

The on screen display appears on the TV screen.

2 Use ◎ to move ↘ to [RANDOM].

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

Hints

• When all tracks have been played once, random play ends.

• The same track will not be played back more than once during random play.
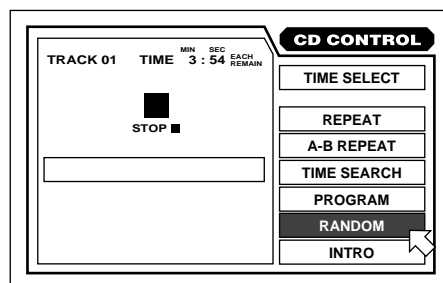
3 Press ⓔⓝⓣⓔⓡ .

The color of "RANDOM" changes.

■ Random play begins.

┌─ **NOTES** ─────────────────────────────────────┐
│   │
│ ● **To stop random play**   │
│   Press ⌷.   │
│   STOP   │
│ ● **To quit random play**   │
│   Move ↘ to [RANDOM], then press ⓔⓝⓣⓔⓡ . "RANDOM" returns to its │
│   original color.   │
│   │
└──┘

Repeat playback

The unit can repeat playback of all tracks or the current track and you can also select a desired section for repeat playback.

Remote Control   **Front Panel**

To repeat a current track or all tracks [REPEAT]

■ During playback

1 Press ⬜ .
ON SCREEN

The on-screen display appears on the TV screen.

2 Use ◎ to move ⬐ to [REPEAT].

```
                                    CD CONTROL
TRACK 08    TIME  MIN  SEC           TIME SELECT
                  0 : 58 EACH
                                    REPEAT
                                    A-B REPEAT
                                    TIME SEARCH
                                    PROGRAM
                                    RANDOM
                                    INTRO
```

3 Press ENTER .

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

REPEAT ALL ←
 ↓
REPEAT 1
 ↓
No indication (off) →
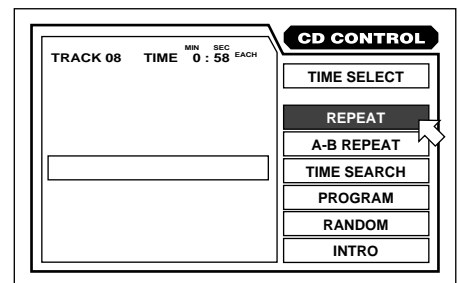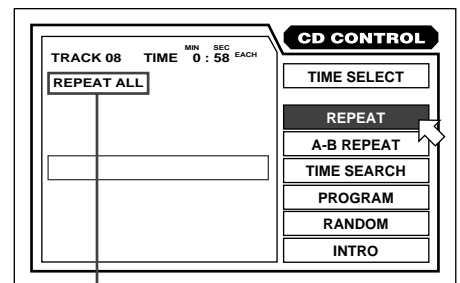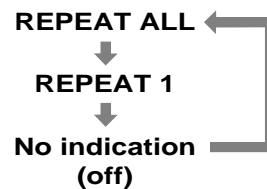
```
                                    CD CONTROL
TRACK 08    TIME  MIN  SEC           TIME SELECT
                  0 : 58 EACH
REPEAT ALL                          REPEAT
                                    A-B REPEAT
                                    TIME SEARCH
                                    PROGRAM
                                    RANDOM
                                    INTRO
```
Selected repeat mode

REPEAT ALL:
All the tracks are played repeatedly.

REPEAT 1:
The current track is played repeatedly.

■ The current track or all the tracks is/are played repeatedly.

Audio CD operations

┌ **NOTES** ┐

● **To quit repeat playback**
Press ⬛ . The unit stops but remains in repeat play mode.

● **To cancel repeat playback**
Move ⬐ to [REPEAT] in the on screen display and press ENTER repeatedly until [REPEAT] returns to its original color.

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To repeat a desired part [A-B REPEAT]

■ During playback

1 Press ⌒.
ON SCREEN

The on-screen display appears on the TV screen.

2 Use ◎ to move ↖ to [A-B REPEAT], then press (ENTER) at the beginning of the part you want to repeat (point A).

The color of "A-B REPEAT" changes.

```
                                    MIN   SEC
TRACK 08      TIME  0 : 12 EACH          CD CONTROL
                                         TIME SELECT
  MIN   SEC          MIN   SEC           REPEAT
A 0 0 : 1 2  ➡  B      :                 A-B REPEAT
                                         TIME SEARCH
                                         PROGRAM
                                         RANDOM
                                         INTRO
```
Point A

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

```
                                    MIN   SEC
TRACK 08      TIME  0 : 58 EACH          CD CONTROL
                                         TIME SELECT
  MIN   SEC        MIN   SEC             REPEAT
A 0 0 : 1 2  ➡  B 0 1 : 3 5              A-B REPEAT
                                         TIME SEARCH
                                         PROGRAM
                                         RANDOM
                                         INTRO
```
Point B
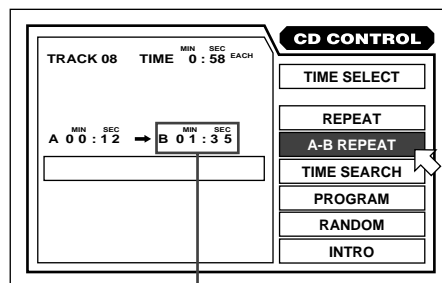
■ The unit locates "A" and starts repeat playback between "A" and "B."

┌─ **NOTE** ─────────────────────────────────────┐
│   │
│ ● **To cancel A-B repeat playback**   │
│   Move ↖ to [A-B REPEAT] in the on screen display and press (ENTER) until │
│   [A-B REPEAT] returns to its original color.   │
│   │
└───┘

Sampling all tracks

You can sample the tracks by listening to a short segment of each track in order. The unit plays the first 10 seconds of each track.

Remote Control **Front Panel**

To playback only the beginning of each track [INTRO]

■ During stop

Hints

• When all tracks have been played once, INTRO scan stops.

1 Press ⬜ .
ON SCREEN

The on-screen display appears on the TV screen.

2 Use ◎ to move ⬐ to [INTRO].

TRACK 01	TIME	MIN SEC 3 : 54	EACH REMAIN

STOP ■

CD CONTROL
TIME SELECT
REPEAT
A-B REPEAT
TIME SEARCH
PROGRAM
RANDOM
INTRO
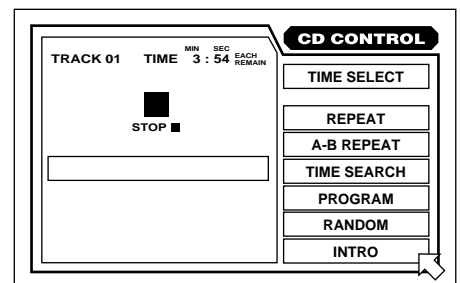
3 Press ⊙ .
ENTER

The color of "INTRO" changes.
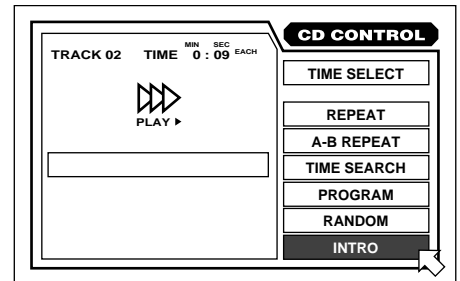
TRACK 02	TIME	MIN SEC 0 : 09	EACH

▷▷▷
PLAY ▶

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

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

Audio CD operations

┌─ **NOTE** ─────────────────────────────────

● **To stop INTRO scan**
Press [STOP] or move ⬐ to [INTRO], then press ⊙ .

└──

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Checking the elapsed time or remaining time

You can check the elapsed time of the current track or entire disc, and check remaining time of the current track or entire disc from the on-screen display on the TV screen or the display window on the front panel.

Remote Control **Front Panel**

To select the time display mode [TIME SELECT]

You can choose the time mode in the display on the front panel and in the on-screen display.

■ During playback

1 Press ⬠ .
ON SCREEN

The on-screen display appears on the TV screen.

2 Use ◎ to move ⬡ to [TIME SELECT].

	CD CONTROL
TRACK 08 TIME MIN SEC 0 : 58 EACH	TIME SELECT
	REPEAT
▷▷▷ PLAY ▶	A-B REPEAT
	TIME SEARCH
	PROGRAM
	RANDOM
	INTRO

Hints
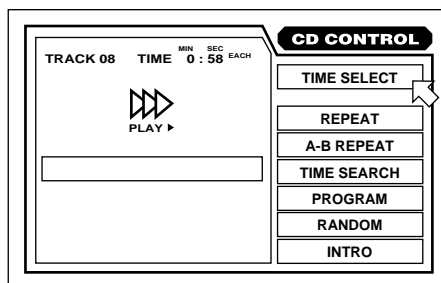
When you select the time mode during stop mode, the time mode changes as follows:

→ **EACH REMAIN**
  Recorded time of the current track
  ↓
TOTAL (0:00)
  ↓
TOTAL REMAIN
  Total recorded time of the disc
  ↓
EACH (0:00)
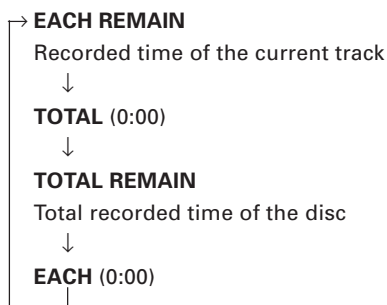
3 Press ⊙ .
ENTER

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

EACH

	CD CONTROL
TRACK 08 TIME MIN SEC 3 : 45 EACH	TIME SELECT
	REPEAT
▷▷▷ PLAY ▶	A-B REPEAT
	TIME SEARCH
	PROGRAM
	RANDOM
	INTRO
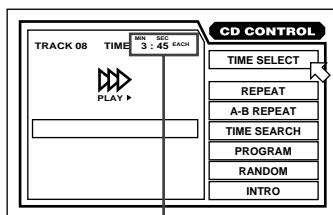
Elapsed time of the current track

EACH REMAIN

	CD CONTROL
TRACK 08 TIME MIN SEC 2 : 18 EACH REMAIN	TIME SELECT
	REPEAT
▷▷▷ PLAY ▶	A-B REPEAT
	TIME SEARCH
	PROGRAM
	RANDOM
	INTRO
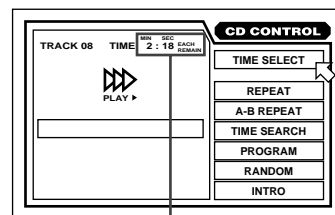
Remaining time of the current track

TOTAL REMAIN

	CD CONTROL
TRACK 08 TIME MIN SEC 41 : 59 TOTAL REMAIN	TIME SELECT
	REPEAT
▷▷▷ PLAY ▶	A-B REPEAT
	TIME SEARCH
	PROGRAM
	RANDOM
	INTRO
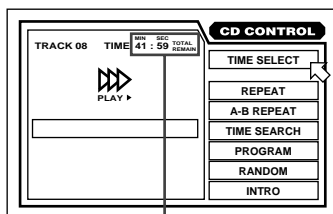
Total remaining time of the disc

TOTAL

	CD CONTROL
TRACK 08 TIME MIN SEC 12 : 38 TOTAL	TIME SELECT
	REPEAT
▷▷▷ PLAY ▶	A-B REPEAT
	TIME SEARCH
	PROGRAM
	RANDOM
	INTRO
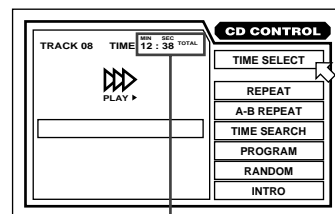
Total elapsed time of the disc

Information about CD TEXT

The unit is compatible with the CD TEXT function. CD TEXT discs have information, such as the album title, artist names, and track names. If the played disc is a CD TEXT disc, CD text data appears on the TV screen.

JVC
DVD/Video CD/CD PLAYER

JVC HITS
SONG NO1

▷
⏏

CD TEXT

CD CONTROL

1 TIME MIN SEC 0 : 00 EACH

JVC HITS

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

CD TEXT

Hints
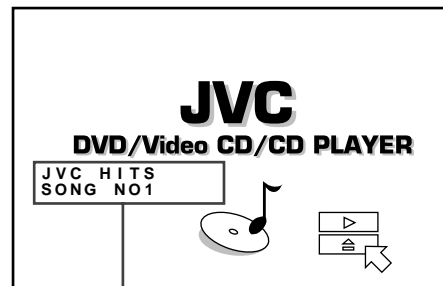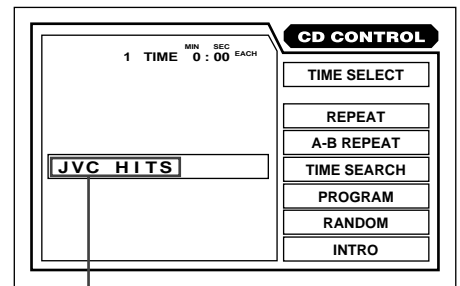
CD TEXT data also appears in the display window. In this case, each time you press ⌐ᵀᴵᵀᴸᴱ, CD TEXT data and time appears alternately.

What is CD TEXT?

COMPACT
disc
DIGITAL AUDIO
TEXT

CD TEXT, a new feature of audio CD discs, includes text information for album title, song titles, artist names, etc. in addition to audio information.

CD TEXT

Audio CD operations

┌ NOTES ┐

● The album title, artist names, or track names may not be displayed with some CD TEXT discs.

● When you insert a CD TEXT disc which contains many tracks, the time until the unit is ready for playback is longer than usual. The time is necessary for the unit to read the CD TEXT information, and this is not a malfunction.

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English

Video CD operations

This chapter explains all the functions of the unit for playing back Video CD discs. You can also enjoy Video CDs in various ways such as enjoying only a desired track, changing the track order, and repeating track playback.

Table of contents of this chapter

Introduction

Preliminary knowledge

Getting started

Basic operations

DVD VIDEO operations

Setting and adjustment

Audio CD operations

Video CD operations

Additional information

Playing a specific scene on a Video CD

You can play a specific scene on a Video CD disc by selecting the time, the track number, the opening scene digest display, or the item on the menu displayed on the TV screen.

To use the menu of the Video CD recorded on PBC

Some Video CD discs are compatible with the PBC function. PBC is an abbreviation of "PlayBack Control." Video CD disc recorded on PBC have own menus such as the list of the songs of the disc and items recorded in a disc. You can also locate the specific scene by using the menu.

■ When the menu appears on the TV screen during playback with PBC

Hints

When you play a Video CD disc using the PBC function, "PBC" appears in the display window on the front panel. When the PBC function is not activate, Press [STOP], then press [PLAY] to activate the PBC function. You can also operate from the on-screen display as follows:

1. Press ON SCREEN.
2. Use to move to [PBC CALL], then press ENTER.

Hints

When you want to set to off the PBC function, press the numeric buttons to play a disc. See page 81.

1 Use 1 to 10, +10 to select the desired number of the item.
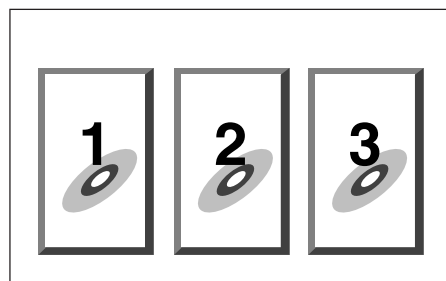
Playback starts from the selected item.

You can return to the menu by pressing RETURN.

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

• succeeding to the next page by pressing NEXT.
• return to the previous page by pressing PREVIOUS.

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

Example:

1 2 3

English

To locate a desired track using NEXT or PREVIOUS

■ During playback without the PBC function

1 Press NEXT or PREVIOUS.

- To skip to succeeding tracks, press NEXT once or repeatedly until the desired track appears in the display.
- To skip to beginning of the current track, press PREVIOUS once.
- To skip to preceding tracks, press PREVIOUS repeatedly until the desired track appears in the display.

NOTE

● **This function does not works when playback with the PBC function.**

To locate a disired track directly

■ During playback without the PBC function or stop mode

1 Select a desired track number using 1 to 10, +10.

Example:
To select track number 8:   Press 8.
To select track number 37:   Press +10 › +10 › +10 › 7.

■ The unit starts playback from the selected track.

NOTE

● **This function does not works when playback with the PBC function.**

Video CD
operations

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Remote Control

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

You can playback a disc from the desired position by specifying the elapsed time from the beginning of the disc.

■ During playback without the PBC function

1 Press ⬜.
ON SCREEN

The on-screen display appears on the TV screen.

2 Use ◉ to move ⬐ to [TIME SEARCH] and press ⊙ ENTER.

The color of "TIME SEARCH" changes.

```
                          VCD CONTROL
                          AUDIO ◁ L / R ▷
                          ─────────────
                          REPEAT
                          A-B REPEAT
St. ▣▣▣▣▣ End  TRK.  03   TIME SEARCH
0 ▣▣▣▣▣ 10Mb   TIME  4 : 58
GO TO _  :    ➡ ENTER     PBC CALL
```
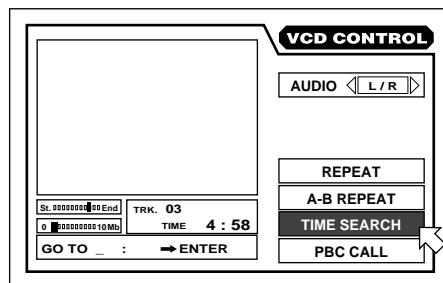
3 Use 0 to 9 to select the time (minute and second) then press ⊙ ENTER.

Example:
To select playback from 2 minutes 34 seconds.

```
┌──────────────┐
│ GO TO _  :   │
└──────────────┘
      ↓ Press 0.
┌──────────────┐
│ GO TO 0_  :  │
└──────────────┘
      ↓ Press 2.
┌──────────────┐
│ GO TO 02 : _ │
└──────────────┘
      ↓ Press 3.
┌──────────────┐
│ GO TO 02 : 3 _│
└──────────────┘
      ↓ Press 4.
┌──────────────┐
│ GO TO 02 : 3 4│
└──────────────┘
      ↓
   Press ⊙ ENTER
```
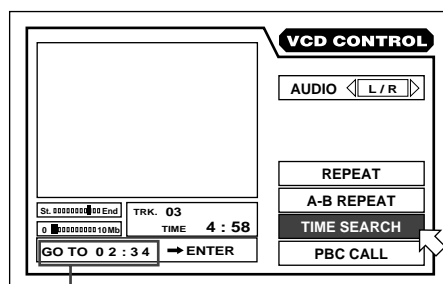
```
                          VCD CONTROL
                          AUDIO ◁ L / R ▷
                          ─────────────
                          REPEAT
                          A-B REPEAT
St. ▣▣▣▣▣ End  TRK.  03   TIME SEARCH
0 ▣▣▣▣▣ 10Mb   TIME  4 : 58
GO TO 0 2 : 3 4 ➡ ENTER   PBC CALL
```
Selected time

■ The unit starts playback from the selected time.

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

● **When you make a mistake in step 3:**
  Move the cursor to the mistaken value, then press the correct value to re-select the value.

  │ **GO TO 02 : _** │

  ↓ Press (((

  │ **GO TO 0<u>2</u> :** │

  ↓ Press ⁴⌐

  │ **GO TO 04 : _** │

● **When ⊘ appears in the TV screen in step 2:**
  The time you selected is not contained on the disc, or time search does not work for the part you selected. When you play a Video CD disc with the PBC function, there is a part where time search does not work.

● **To return to the regular display:**
  Press ⌐⌐ and the on-screen display will return to the regular display.
  ON SCREEN

● **The time search function does not work during PBC playback.**

└──┘

Video CD operations

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Remote Control **Front Panel**

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

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

■ During stop mode or playback without PBC function

1 Press 🔲.
DIGEST

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

Up to nine opening scenes are displayed.

Hints

• When the selected track is in the lower right-hand corner of the screen, press ⏵) to check next scenes.

• When the selected track is in the upper left-hand corner of the screen, press (⏴ to return to previous scenes.

2 Use 🔘 to select the desired track.

When you want to check more scenes, press ▶▶. Additional scenes appear on the TV screen. When you want to return to previous scenes, press ◀◀.
NEXT / PREVIOUS

Selected track

3 Press (ENTER) .

■ The unit begins playback from the selected track.

Playing in slow-motion

The unit can display a list of the still pictures, and playback a disc in slow-motion. You can view video in more detail using these functions.

To display still pictures [STROBE]

■ During playback

1 Press 𝄆 at the point you want to view like as a continuous photograph.

2 Press and hold 𝄆 for more than 1 seconds.

The nine still pictures appear on the TV screen and playback pauses.
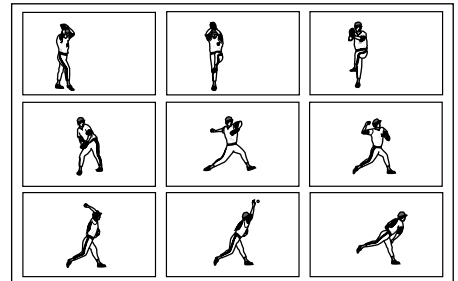
To cancel strobe play
Press and hold 𝄆 more than 1 second.

Hints

During this function, when you press 𝄆, next nine still pictures appear on the TV screen and playback pauses. When you press ▷ PLAY, nine still pictures continuously appear on the TV screen.

To playback in slow-motion [SLOW]

■ During playback

1 Press 𝄆, then press ▶▶ SLOW(+).

The unit play the slowest speed, and each time you press ▶▶ SLOW(+), the playback speed increases. To return to normal playback, press ▷ PLAY.

To pause slow-motion play
Press 𝄆.

Hints

You can enjoy advancing the picture frame-by-frame by pressing 𝄆 during pause. Each time you press 𝄆, the picture advances one frame.

Hints

You can also use the SHUTTLE knob for slow-motion play.

1. Press 𝄆 to pause playback.

2. Turn the SHUTTLE knob to the right to play in slow-motion. You can adjust the playback speed by turning the SHUTTLE knob.

NOTES
- **The sound is muted during slow-motion play.**
- **To cancel slow-motion play**
  Press ▷ PLAY.
- **Reverse slow playback is not possible on a Video CD disc.**

Video CD operations

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Playing a scene close-up

The unit can zoom in a part of the scene. You can view any part of the scene close-up.

Remote Control

To playback a scene close-up [ZOOM]

■ During playback or pause

1 Press ⊂⊃.

[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 ◉ to move the zoomed-in scene.

To pause zoom play

Press │PAUSE│.
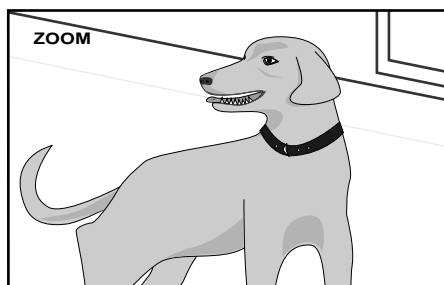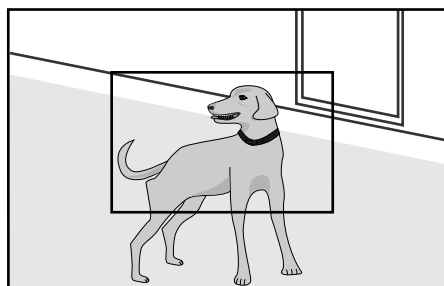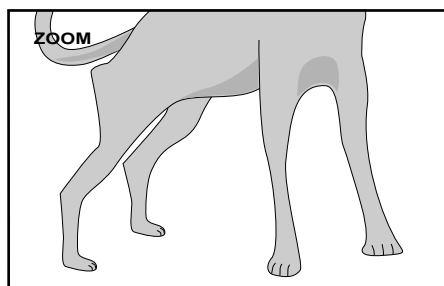
To resume zoom play, press │PLAY │.

┌─ **NOTE** ─────────────────────
● **To cancel zoom play**
   Press ⊂⊃.
└──────────────────────────────

Changing the track order

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

To playback in the desired order [PROGRAM]

By creating a program, you can enjoy listening to your favorite tracks in any order.

■ During stop mode only

1 Press ⬜.
ON SCREEN

The on screen display appears on the TV screen.

2 Use 🔘 to move 🖱 to [PROGRAM] and press ⏎.
ENTER

The color of "PROGRAM" changes.

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

3 Select the tracks in the desired order using ⬆1 to ⬆10, +10.

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

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

Selected track number

Hints

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

4 Press ▷ to start program play.
PLAY

Hints
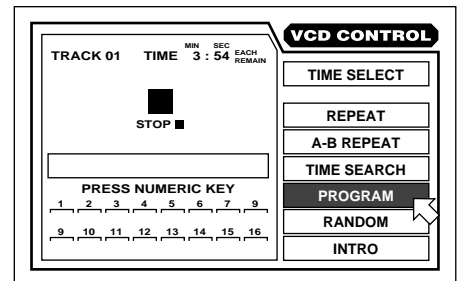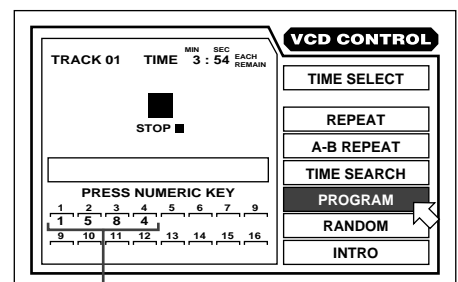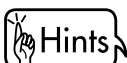
You can program tracks during playback.

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

● **When you make a mistake in step 3:**
Press ⬜. The last track programmed is erased.
CANCEL

● **To clear program play**
Press ⬜ to stop playback, then press ⬜ again. All the programmed
STOP   STOP
tracks are erased.

● **To quit the program play**
Move 🖱 to [PROGRAM] in the display using 🔘 and press ⏎.
                                                         ENTER
"PROGRAM" returns to its original color.

└──┘

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To playback tracks in random order [RANDOM]

The unit can play tracks in random order.

■ During stop

1 Press ⬜.
ON SCREEN

The on screen display appears on the TV screen.

2 Use ◎ to move ▷ to [RANDOM].

```
┌─────────────────────────────────────────────┐
│                              ┌──────────────┐ │
│                              │ VCD CONTROL  │ │
│              MIN  SEC EACH    ├──────────────┤ │
│ TRACK 01  TIME 3 : 54 REMAIN │ TIME SELECT  │ │
│           ┌───┐              ├──────────────┤ │
│           │ ■ │              │   REPEAT     │ │
│           └───┘              ├──────────────┤ │
│            STOP ■            │  A-B REPEAT  │ │
│                             ├──────────────┤ │
│  ┌───────────────────────┐  │ TIME SEARCH  │ │
│  └───────────────────────┘  ├──────────────┤ │
│                             │   PROGRAM    │ │
│                             ├──────────────┤ │
│                             │   RANDOM     │ │
│                             ├──────────────┤ │
│                             │    INTRO   ◁ │ │
│                             └──────────────┘ │
└─────────────────────────────────────────────┘
```
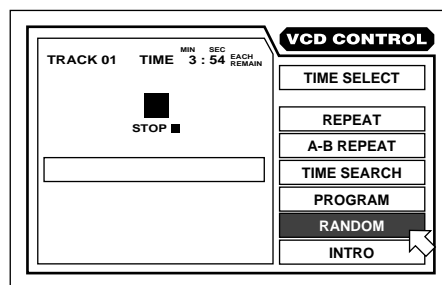
3 Press ⬭.
ENTER

■ Random play begins.

Hints

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

NOTE

● **To stop random play**
  Press ⬚.
  STOP

Repeat playback

The unit can repeat playback the current title or current chapter and you can also select a desired part for repeat playback.

Remote Control **Front Panel**

To repeat a current track or all tracks [REPEAT]

■ During playback without PBC function

1 Press ⬛ .
ON SCREEN

The on-screen display appears on the TV screen.

2 Use ◎ to move ◁ to [REPEAT].

```
                          VCD CONTROL
                    ┌─────────────────┐
                    │ AUDIO  ◁ L / R ▷ │
                    │                  │
                    │                  │
                    │     REPEAT       │
  St. 00000000 End  │   A-B REPEAT     │
  0  000000010Mb    │   TIME SEARCH    │  ▷
  TRK. 03           │                  │
  TIME   4 : 58     │                  │
  PRESS ENTER ➡ EXECUTE │ PBC CALL     │
                    └─────────────────┘
```

3 Press (ENTER).

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

REPEAT ALL
⬇
REPEAT 1
⬇
No indication (off)

REPEAT ALL:
All the tracks are played repeatedly.

REPEAT 1:
The current track is played repeatedly.

```
                          VCD CONTROL
                    ┌─────────────────┐
                    │ AUDIO  ◁ L / R ▷ │
                    │                  │
                    │  ┌REPEAT ALL┐    │
                    │  │  REPEAT  │    │  ▷
  St. 00000000 End  │   A-B REPEAT     │
  0  000000010Mb    │   TIME SEARCH    │
  TRK. 03           │                  │
  TIME   4 : 58     │                  │
  PRESS ENTER ➡ EXECUTE │ PBC CALL     │
                    └─────────────────┘
```
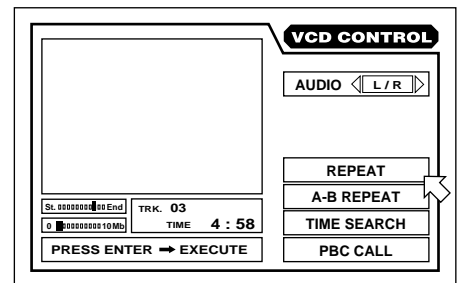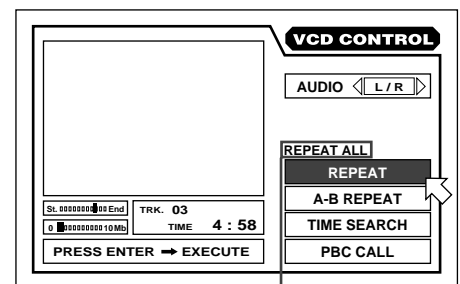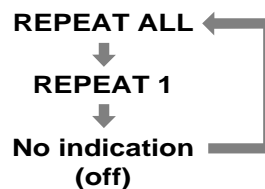
Selected repeat mode

■ The current track or all tracks is/are played repeatedly.

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

● **Repeat play function cannot be used during playback with PBC function. To use this function, press 【STOP】 to stop playback and then specify any track number by using the numeric buttons.**

● **To turn off the on-screen display**
Press ⬛ .
ON SCREEN

● **To quit repeat playback**
Press 【STOP】. The unit stops but remains in repeat play mode.

● **To cancel repeat playback**
Move ◁ to [REPEAT] in the on screen display and press (ENTER) repeatedly until [REPEAT] returns to its original color.

└──┘

Video CD operations

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Remote Control   Front Panel

To repeat a desired part [A-B REPEAT]

■ During playback

1 Press ⌂ .
ON SCREEN

The on-screen display appears on the TV screen.

2 Use ◎ to move ⟋⟍ to [A-B REPEAT], then press (ENTER) at the beginning of the part you want to repeat (point A).

The color of "A-B REPEAT" changes.

VCD CONTROL

AUDIO ◁ L / R ▷

REPEAT
A-B REPEAT
TIME SEARCH
PBC CALL

St. 00000000█00 End   TRK. 03
0 █0000000010Mb   TIME   4 : 58
A   4 : 58 ➡ B   :

Point A

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

VCD CONTROL

AUDIO ◁ L / R ▷

REPEAT
A-B REPEAT
TIME SEARCH
PBC CALL

St. 00000000█00 End   TRK. 03
0 █0000000010Mb   TIME   5 : 22
A   4 : 58 ➡ B   5 : 22
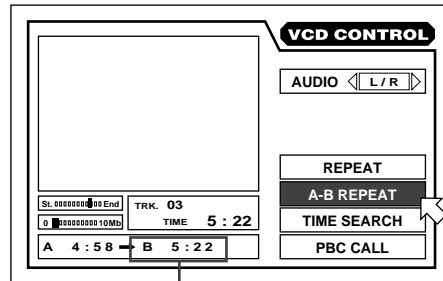
Point B

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

NOTES

● **To turn off the on-screen display**
Press ⌂ .
ON SCREEN

● **To cancel A-B repeat**
Move ⟋⟍ to [A-B REPEAT] in the on screen display and press (ENTER) until [A-B REPEAT] returns to its original color.

English

Sampling all tracks

You can sample the tracks by listening to a short segment of each track in order. The unit plays the first 10 seconds of each track.

To playback only the beginning of each track [INTRO]

■ During stop mode

1 Press ⌂.
ON SCREEN

The on-screen display appears on the TV screen.

2 Use ◎ to move ⟋ to [INTRO].

```
┌─────────────────────────────────────────┐
│  ┌──────────────────────┐ VCD CONTROL   │
│  │                MIN SEC │               │
│  │ TRACK 01   TIME  3 : 54 EACH  │ TIME SELECT │
│  │                    REMAIN │               │
│  │      ■              │   REPEAT      │
│  │    STOP ■            │  A-B REPEAT   │
│  │                    │  TIME SEARCH  │
│  │ ┌────────────────┐  │   PROGRAM     │
│  │ └────────────────┘  │   RANDOM      │
│  │                    │    INTRO  ⟋   │
│  └──────────────────────┘               │
└─────────────────────────────────────────┘
```
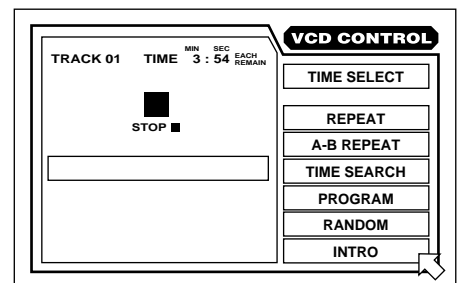
3 Press ⊙.
ENTER

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

┌─ **NOTE** ─────────────────────────────┐
│ ● **To stop INTRO scan**   │
│   Press ⊡.   │
│   STOP   │
└──┘

Video CD operations

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Adjusting the picture and sound to suit preferences

You can change the picture quality and select the prefered audio channel.

Remote Control **Front Panel**

To adjust the picture quality [VFP]

■ During playback

1 Press ⌷ᵛᶠᵖ or ⌷ᵛᴵᴰᴱᴼ ᶠᴵᴺᴱ ᴾᴿᴼᶜᴱˢˢᴼᴿ on the front panel.

2 Within 10 seconds, select the desired picture quality by pressing ⌷ᵛᶠᵖ or ⌷ᵛᴵᴰᴱᴼ ᶠᴵᴺᴱ ᴾᴿᴼᶜᴱˢˢᴼᴿ on the front panel.

Each time you press the button, the picture quality changes as follows:

NORMAL
↓
SHARP
↓
SOFT
↓
MANUAL
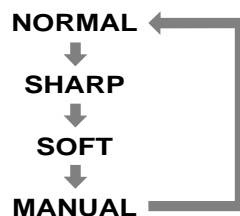
The selected of the picture quality tab lights up in yellow.

| NORMAL | SHARP | SOFT | MANUAL |

SHARPNESS
NR LEVEL

Adjusting bar

Hints
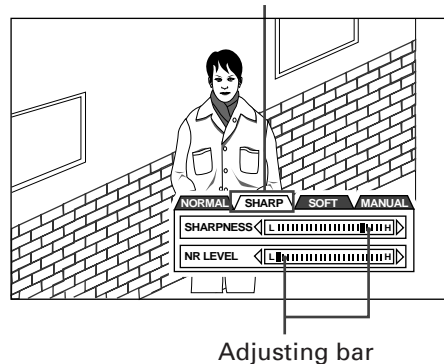
If you select [MANUAL], you can adjust the level of sharpness of the picture and noise reduction.

1. Use ⊚ to select SHARPNESS or NR LEVEL.

2. Use ⊚ to adjust the level.

Toward L : Reduce the effect.
Toward H : Enhance the effect.

NOTES

● To erase the VFP screen, press ⊙ᴱᴺᵀᴱᴿ.

● The VFP screen disappears if there are no operations for more than 10 seconds.

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Remote Control **Front Panel**

To change the audio channel [AUDIO]

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

■ During playback

1 Press ⬜.
ON SCREEN

The on-screen display appears on the TV screen.

2 Use ◎ to move ◁ to [AUDIO].

VCD CONTROL

AUDIO ◁ L / R ▷

REPEAT
A-B REPEAT

St. □□□□□□□□□□End   TRK. **03**
0 □□□□□□□□□□10Mb   TIME   **4 : 58**
SELECT ◀▶ KEY

TIME SEARCH
PBC CALL
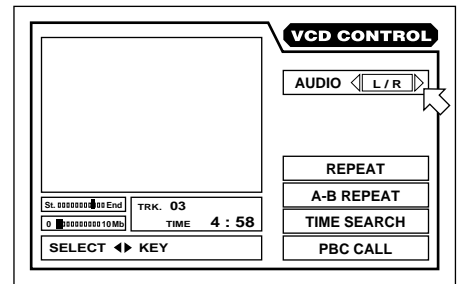
3 Select the audio channel(s) to be played back using ◎.

L/R: You hear normal stereo playback.

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

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

VCD CONTROL

AUDIO ◁ L ▷

REPEAT
A-B REPEAT

St. □□□□□□□□□□End   TRK. **03**
0 □□□□□□□□□□10Mb   TIME   **4 : 58**
SELECT ◀▶ KEY

TIME SEARCH
PBC CALL
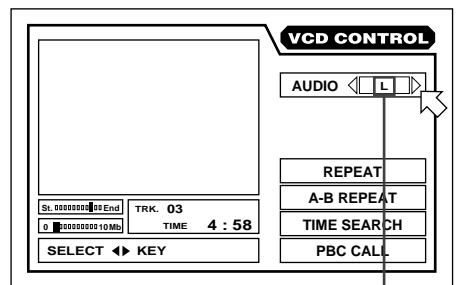
Selected audio channel

Video CD operations

┌─ **NOTE** ─────────────────────────────
│
│ ● **To turn off the on-screen display**
│   Press ⬜ .
│   ON SCREEN
└──

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Checking the total disc time

You can check the total and each time from the on screen display on the TV screen or display window on the front panel.

Remote Control **Front Panel**

To select the time display mode [TIME SELECT]

■ During stop mode

1 Press 🔲.
ON SCREEN

The on-screen display appears on the TV screen.

2 Use ◎ to move ⬠ to [TIME SELECT].

TRACK 01   TIME   MIN SEC 3 : 54 EACH REMAIN

STOP ■

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

Hints
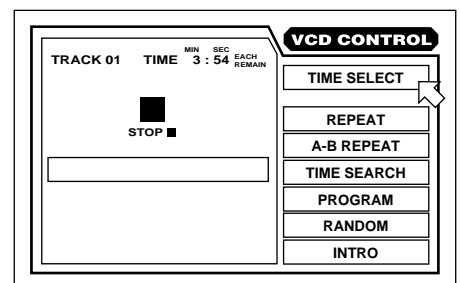
When you press (ENTER) repeatedly until [EACH REMAIN] appears on the TV screen, the recorded time of the displayed track appears on the TV screen. You can change the track by pressing PREVIOUS or NEXT.
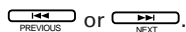
3 Press (ENTER) until [TOTAL REMAIN] appears on the TV screen.

Total disc time appears on the TV screen.

TRACK 16   TIME MIN SEC 55 : 22 TOTAL REMAIN

STOP ■

VCD CONTROL
TIME SELECT
REPEAT
A-B REPEAT
TIME SEARCH
PROGRAM
RANDOM
INTRO
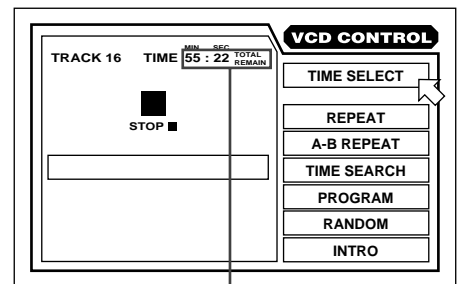
Total disc time of the disc

Additional information

This chapter explains additional information about the unit such as troubleshooting or how to take care of discs. Read this chapter as necessary.

Introduction

Preliminary knowledge

Getting started

Basic operations

DVD VIDEO operations

Setting and adjustment

Audio CD operations

Video CD operations

Additional information

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.
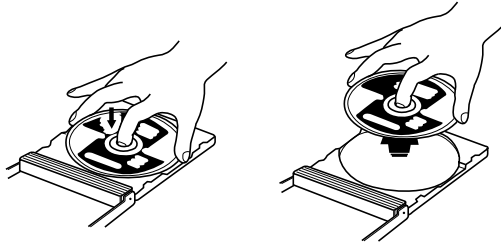
Even on label side

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

Storage

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

Maintenance of discs

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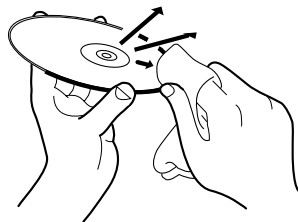
CAUTION

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

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.	Come closer to the unit.
	The tip of the remote unit is not pointed in the right direction.	Point the infrared light- emitting window toward the remote sensor on the front panel.
	Batteries are exhausted.	Replace the batteries with new ones.
	Battery polarity is incorrect.	Take out the batteries and insert them again in the correct direction.
No picture is displayed on the monitor.	Connection of video cable is incorrect.	Connect the cable correctly.
	Input selection of TV is incorrect.	Select correctly.
	Disc is not playable.	Use a playable disc. (See page 13.)
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 flow directly to the TV.
No audio is reproduced.	Connection to stereo system is incorrect.	Check connections.
	Input selection of amplifier is incorrect.	Select correctly.
	The unit is connected only using DIGITAL OUT jack.	Connect the unit using AUDIO OUT jack also.
No sound from headphones.	PHONES LEVEL is too low.	Adjust the PHONES LEVEL.
Sound is distorted or noise is generated.	Disc is dirty.	Wipe the disc surface.
Picture is garbled.	The screen saver mode is set to MODE 1, and the screen saver function is activated.	Set the screen saver mode to the other mode.
Picture does not fit with the television screen.	MONITOR TYPE is not correctly set.	Select monitor type correctly. (See page 55).
	Television is not correctly set.	Set the television correctly.
Operation is not possible	Microcomputer malfunctions due to lightning or static electricity.	Turn off the power and unplug the power cord, then connect the power cord again.
	Moisture condensation occurs by a sudden change of temperature or humidity.	Turn off the power, then turn it on a few hours later.

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AV COMPU LINK remote control system

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

Connection and Setup

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

To AV COMPU LINK (II or EX)

TV
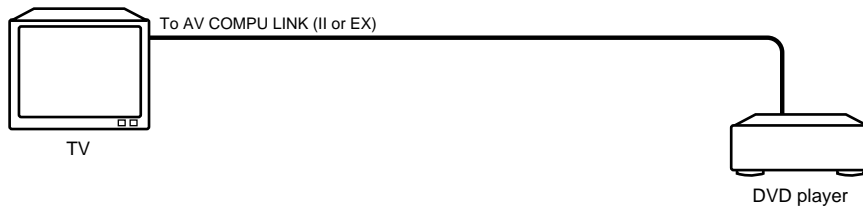
DVD player

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

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

To AV COMPU LINK (II or EX)

To AV COMPU LINK

TV

DVD player

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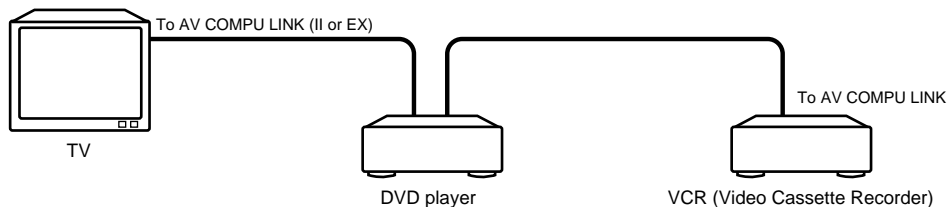
• If you connect a DVD player with a television and VCR via AV COMPU LINK, set the VCR's Remote Control Code and DVD player's AV COMPU LINK setting as follows.

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

TV

Receiver
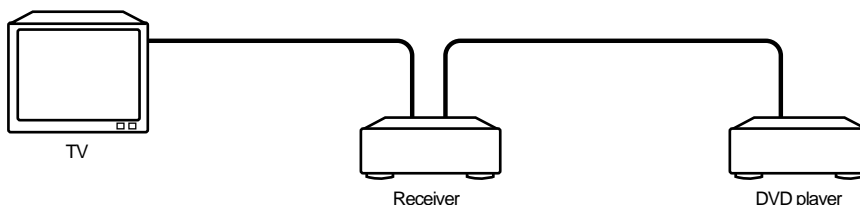
DVD player

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

• The DVD player's AV COMPU LINK setting is operated in the "PREFERENCE" display. See page 59 for operation.

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

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Notes for connection

● **If you connect a DVD player with a receiver via AV COMPU LINK in a system including a Dolby digital decoder, some functions may not be performed automatically.**

● **The AV COMPU LINK terminal on some televisions indicates "II". Do not connect the terminal indicating "II" with the AV COMPU LINK terminal on a receiver. If connected, the system will not work correctly.**

● **Connect the AUDIO OUT jacks of the DVD player to the audio input jacks of a receiver indicating "DVD". Otherwise, the system will not work correctly.**

● **There is no description about connections to a DVD player in the instruction manual of a television or VCR. But a television or VCR with AV COMPU LINK terminals indicating "II" or "EX" can be connected to a DVD player.**

Operation

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

1 Turn on the main power of the television.

2 Insert a disc into the source component.

3 Press ► of the source component.

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

Specifications

General

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

Other

Power requirements: AC 120V $\sim$, 60Hz
Power consumption: 26 W (POWER ON), 2 W (STANDBY mode)
Mass: 4.5 kg (10.0 lbs)
Dimensions (W x H x D): 435 x 112 x 335 mm
17-3/16 x 4-7/16 x 13-1/4 inch

Video output

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

Audio output

ANALOG OUT (pin jack):
FRONT 2.0 Vrms (10 k ohms)
REAR 2.0 Vrms (10 k ohms)
CENTER 2.0 Vrms (10 k ohms)
SUB WOOFER 1.0 Vrms (10 k ohms)
DIGITAL OUT:
OPTICAL – 21 to –15 dBm (Peak)
COAXIAL 0.5 Vp-p (75 ohms Terminate)

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 99 dB
20 bit: More than 108 dB
24 bit: More than 108 dB
Wow and flutter: Unmeasurable (less than ± 0.002%)
Total harmonic distortion: Less than 0.002%

Supplied accessories

Audio/video cable: 1
S-video cable: 1
Audio cable: 2
AV compulink cord: 1
Remote Control Unit: 1
R6P(SUM-3)/AA(15F) batteries: 2
Instructions: 1

* Specifications and appearance subject to change without prior notice.

Appendix A: Table of languages and their abbreviations
Annexe A: Tableau des langues de travail et de leurs sigles

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.

Lorsqu'on choisit la langue des sous-titre ou la langue parlée, les langues figurant au tableau ci-dessous apparaissent sous forme de sigle. Pour sélectionner la langue souhaitée, sélectionner le signe (abréviation) correspondant à la langue que l'on désire entendre.

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 code list for parental lock
Annexe B: Liste des Codes Pays pour la Censure Parentale

This list is used for the parental Lock operation. For details, see page 64.

Cette liste est utilisée pour l'exploitation de la Censure Parentale (ou Restriction Parentale). Voir le détail Page 64.

Code	Country		Code	Country		Code	Country
AD	Andorra		CM	Cameroon		GR	Greece
AE	United Arab Emirates		CN	China		GS	South Georgia and the South Sandwich Islands
AF	Afghanistan		CO	Colombia		GT	Guatemala
AG	Antigua and Barbuda		CR	Costa Rica		GU	Guam
AI	Anguilla		CU	Cuba		GW	Guinea-Bissau
AL	Albania		CV	Cape Verde		GY	Guyana
AM	Armenia		CX	Christmas Island		HK	Hong Kong
AN	Netherlands Antilles		CY	Cyprus		HM	Heard Island and McDonald Islands
AO	Angola		CZ	Czech Republic			
AQ	Antarctica		DE	Germany		HN	Honduras
AR	Argentina		DJ	Djibouti		HR	Croatia
AS	American Samoa		DK	Denmark		HT	Haiti
AT	Austria		DM	Dominica		HU	Hungary
AU	Australia		DO	Dominican Republic		ID	Indonesia
AW	Aruba		DZ	Algeria		IE	Ireland
AZ	Azerbaijan		EC	Ecuador		IL	Israel
BA	Bosnia and Herzegovina		EE	Estonia		IN	India
BB	Barbados		EG	Egypt		IO	British Indian Ocean Territory
BD	Bangladesh		EH	Western Sahara			
BE	Belgium		ER	Eritrea		IQ	Iraq
BF	Burkina Faso		ES	Spain		IR	Iran (Islamic Republic of)
BG	Bulgaria		ET	Ethiopia		IS	Iceland
BH	Bahrain		FI	Finland		IT	Italy
BI	Burundi		FJ	Fiji		JM	Jamaica
BJ	Benin		FK	Falkland Islands (Malvinas)		JO	Jordan
BM	Bermuda					JP	Japan
BN	Brunei Darussalam		FM	Micronesia (Fedelated States of)		KE	Kenya
BO	Bolivia					KG	Kyrgyzstan
BR	Brazil		FO	Faroe Islands		KH	Cambodia
BS	Bahamas		FR	France		KI	Kiribati
BT	Bhutan		FX	France, Metropolitan		KM	Comoros
BV	Bouvet Island		GA	Gabon		KN	Saint Kitts and Nevis
BW	Botswana		GB	United Kingdom		KP	Korea, Democratic People's Republic of
BY	Belarus		GD	Grenada			
BZ	Belize		GE	Georgia		KR	Korea, Republic of
CA	Canada		GF	French Guiana		KW	Kuwait
CC	Cocos (Keeling) Islands		GH	Ghana		KY	Cayman Islands
CF	Central African Republic		GI	Gibraltar		KZ	Kazakhstan
CG	Congo		GL	Greenland		LA	Lao People's Democratic Republic
CH	Switzerland		GM	Gambia			
CI	Côte d'Ivoire		GN	Guinea		LB	Lebanon
CK	Cook Islands		GP	Guadeloupe		LC	Saint Lucia
CL	Chile		GQ	Equatorial Guinea			

LI	Liechtenstein	PE	Peru	TJ	Tajikistan
LK	Sri Lanka	PF	French Polynesia	TK	Tokelau
LR	Liberia	PG	Papua New Guinea	TM	Turkmenistan
LS	Lesotho	PH	Philippines	TN	Tunisia
LT	Lithuania	PK	Pakistan	TO	Tonga
LU	Luxembourg	PL	Poland	TP	East Timor
LV	Latvia	PM	Saint Pierre and Miquelon	TR	Turkey
LY	Libyan Arab Jamahiriya	PN	Pitcairn	TT	Trinidad and Tobago
MA	Morocco	PR	Puerto Rico	TV	Tuvalu
MC	Monaco	PT	Portugal	TW	Taiwan, Province of China
MD	Moldova, Republic of	PW	Palau		
MG	Madagascar	PY	Paraguay	TZ	Tanzania, United Republic of
MH	Marshall Islands	QA	Qatar	UA	Ukraine
ML	Mali	RE	Réunion	UG	Uganda
MM	Myanmar	RO	Romania	UM	United States Minor Outlying Islands
MN	Mongolia	RU	Russian Federation		
MO	Macau	RW	Rwanda	US	United States
MP	Northern Mariana Islands	SA	Saudi Arabia	UY	Uruguay
		SB	Solomon Islands	UZ	Uzbekistan
MQ	Martinique	SC	Seychelles	VA	Vatican City State (Holy See)
MR	Mauritania	SD	Sudan		
MS	Montserrat	SE	Sweden	VC	Saint Vincent and the Grenadines
MT	Malta	SG	Singapore		
MU	Mauritius	SH	Saint Helena	VE	Venezuela
MV	Maldives	SI	Slovenia	VG	Virgin Islands (British)
MW	Malawi	SJ	Svalbard and Jan Mayen	VI	Virgin Islands (U.S.)
MX	Mexico	SK	Slovakia	VN	Viet Nam
MY	Malaysia	SL	Sierra Leone	VU	Vanuatu
MZ	Mozambique	SM	San Marino	WF	Wallis and Futuna Islands
NA	Namibia	SN	Senegal		
NC	New Caledonia	SO	Somalia	WS	Samoa
NE	Niger	SR	Suriname	YE	Yemen
NF	Norfolk Island	ST	Sao Tome and Principe	YT	Mayotte
NG	Nigeria	SV	El Salvador	YU	Yugoslavia
NI	Nicaragua	SY	Syrian Arab Republic	ZA	South Africa
NL	Netherlands	SZ	Swaziland	ZM	Zambia
NO	Norway	TC	Turks and Caicos Islands	ZR	Zaire
NP	Nepal	TD	Chad	ZW	Zimbabwe
NR	Nauru	TF	French Southern Territories		
NU	Niue	TG	Togo		
NZ	New Zealand	TH	Thailand		
OM	Oman				
PA	Panama				
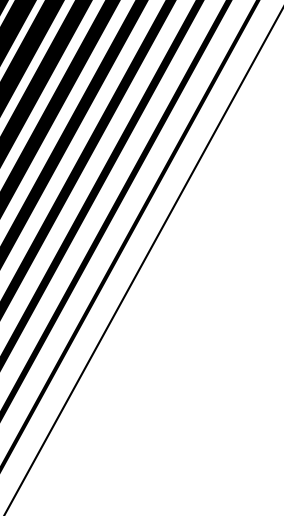
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VICTOR COMPANY OF JAPAN, LIMITED

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http://www.luxmanual.com

http://aubethermostatmanual.com

Golf course search by state

http://golfingnear.com

Email search by domain

http://emailbydomain.com

Auto manuals search

http://auto.somanuals.com

TV manuals search

http://tv.somanuals.com