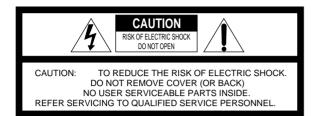
JVC



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DVD PLAYER		
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INSTRUCTIONS	Additional information	89
	For Customer Use: Enter below the Model No. and Serial No. which are located on the rear, bottom or side of the cabinet. Retain this informa- tion for future reference.	
	Model No.	
	Serial No.	
	LET0145-001A [J]	

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





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

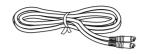
CAUTION	- LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.
ATTENTION	- RAYONNEMENT LASER EN CAS D'OUVERTURE. NE PAS REGARDER DANS LE FAISCEAU.
VORSICHT	- LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFENET NICHT IN DEN STRAHL BLICKEN.
ADVARSEL	- LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN.
ADVARSEL	- LASERSTRÅLING 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.
- CAUTION: Do not open the top cover. There are no user serviceable 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.
- 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.

Supplied accessories

- Audio/video cable (x 1)
- AV compulink cord (x 1)

• S-video cable (x 1)



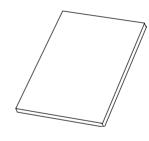
• Remote Control Unit (x 1)



Instructions (x 1)



• R6P(SUM-3)/AA(15F) batteries (x 2)



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Manufactured under license from Digital Theater Systems, Inc. US Pat. No. 5,451,942 and other world-wide patents issued and pending. "DTS", "DTS Digital Surround", are trademarks of Digital Theater System, Inc.

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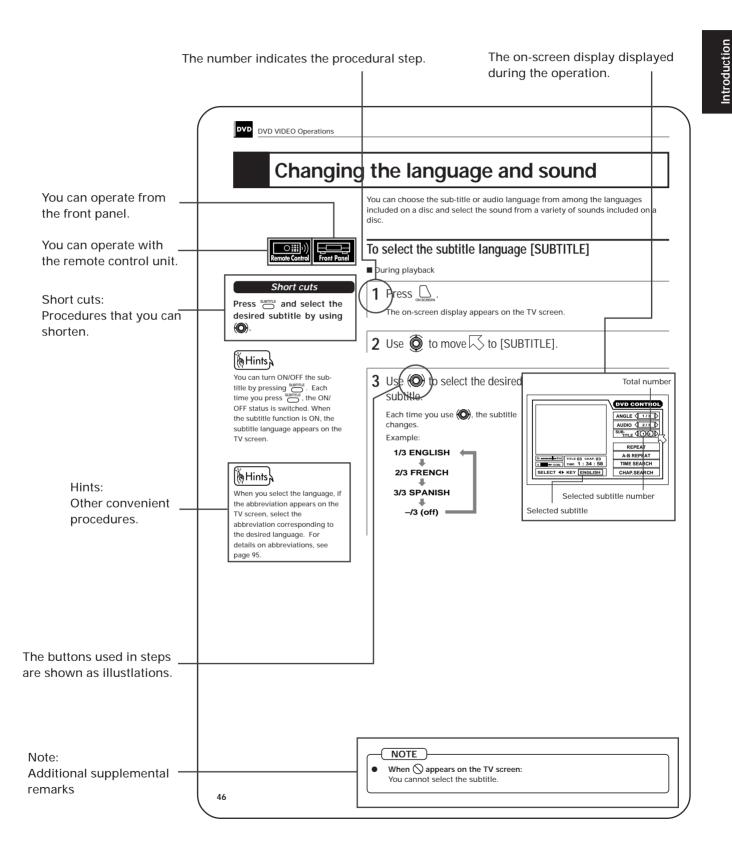
Features

Picture	Strobe function The unit can display a list of still pictures on the TV screen.
functions	 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	High quality digital sound You can enjoy high quality sound with Dolby Digital, or Linear-PCM.
variety of sound formats	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.

Using the instructions

The instructions basically explain operations as follows:



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.

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.

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Disc terms 1	4

Names of parts and controls

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

Front panel ENTER, $\triangle / \nabla / \triangleright / \lhd$ (Cursor) buttons **VIDEO FINE** PROCESSOR **STANDBY** indicator **DIGEST** button Idd ►►I (Skip) buttons button Display POWER button SHUTTLE knob window Remote sensor JVC XV-501 DVD PLAYER П DOLBY SOFT VIDEO FINE PROCESSOF DVD / VIDEO CD / CD AV COMPU LIN 44 Т 22P \bigcirc dts disc 3D PHONIC \bigcirc \bigcirc ·(D)· Ŭ ▲ (Open/Close) **PHONES** jack **3D PHONIC button** Disc tray (Play) button MENU button button II (Pause) button PHONES LEVEL **ON SCREEN button** control ■ (Stop) button TITLE button 3D PHONIC button (31) SHUTTLE knob (29) Get a simulated surround effect. Performs fast forward/backward and slow motion playback. Disc tray (27) STANDBY indicator Used to load discs. Lights when the power cord is connected and the unit is on standby. When the unit is turns on, the STANDBY indicator **Display window** goes off. Indicates the current status of the unit. TITLE button (34) DIGEST button (39, 78) Displays a title menu of DVD on the TV screen or monitor. Display beginning scenes of each title, chapter, or track on the VIDEO FINE PROCESSOR button (48, 86) TV screen. Change the picture quality. **ENTER button** $\triangle / \nabla / \triangleright / \lhd$ (Cursor) buttons Executes a selected item in a menu or on-screen display. Selects an item in on-screen displays or menus. MENU button (34) Displays a menu of DVD on the TV screen or monitor. ▲ (Open/Close) button (27) Opens and closes the disc tray. **ON SCREEN button (10)** Displays an on-screen display of the unit on the TV screen or ► (Play) button (28) monitor. Starts playback. Also, used as a SELECT button for PBC of Video CDs. **PHONES jack**

Connection jack for headphones.

PHONES LEVEL control

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

POWER button (22)

Turns the unit on or off (standby).

Remote sensor

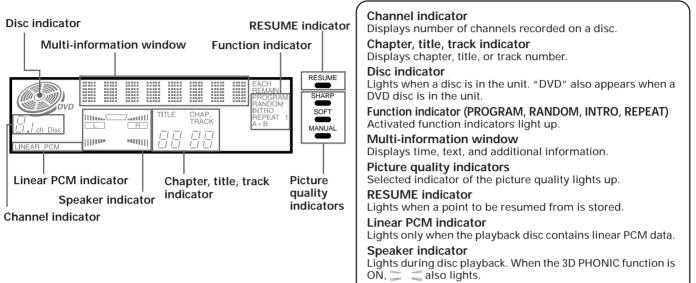
Recieves the signal from the remote control unit.

II (Pause) button (29) Pauses during playback.

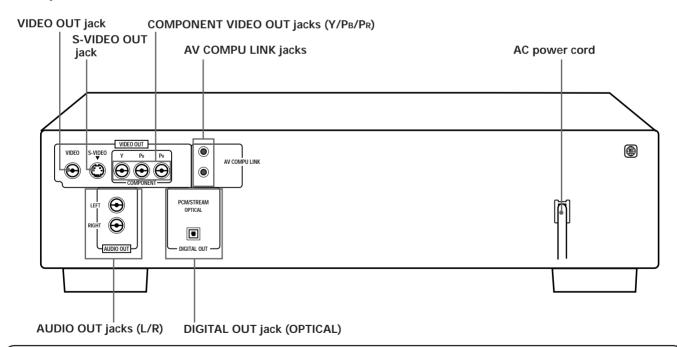
I (Skip) buttons (29, 62) Performs skip or previous/next.

(Stop) button (28) Stops playback.

Display window



Rear panel



AC power cord (20) Connects to the wall outlet.

AUDIO OUT jacks (L/R) (16, 17, 18, 19)

Outputs stereo analog audio signals.

AV COMPU LINK jacks (92)

Connects with other JVC equipment supporting the AV Compulink function to facilitate integrated operations.

COMPONENT VIDEO OUT jacks (Y/PB/PR) (17)

Outputs component video signals.

DIGITAL OUT jack (OPTICAL) (19)

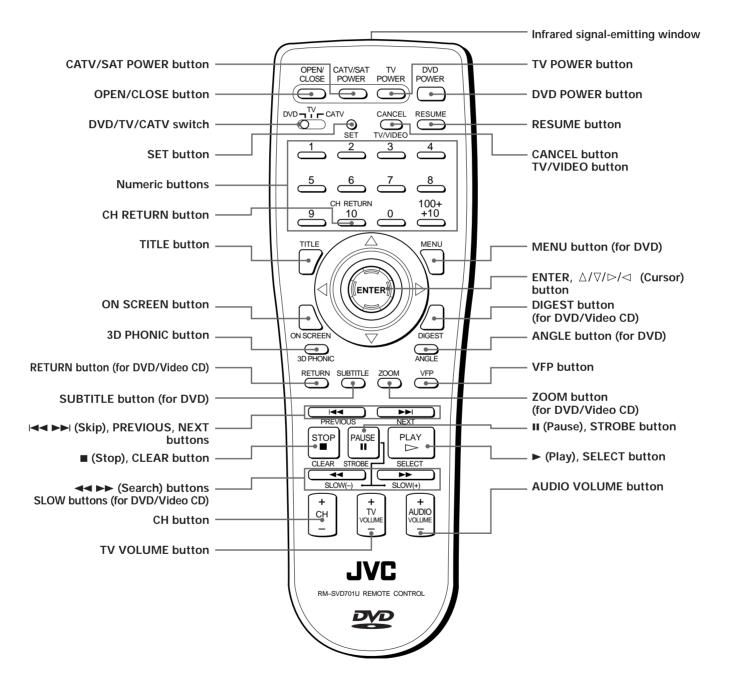
Outputs digital audio signals. Only an optical connector is provided.

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

VIDEO OUT jack (16)

Outputs a composite video signal.

Remote control unit



3D PHONIC button (31) Produces a simulated surround effect.

ANGLE button (for DVD) (44) Changes camera angles during playback of a DVD containing multiple camera angles.

AUDIO VOLUME button (28) Adjusts the volume of a JVC AV amplifier or receiver.

CANCEL button (65) Cancels the previous settings.

CATV/SAT POWER button (24) Turns the CATV converter or satellite tuner on or off.

CH button (23, 24) Changes the channels of TV or CATV converter/satellite tuner.

CH RETURN button (23) Returns to the previous channel (only valid for JVC TVs).

CLEAR button Clears the selected item.

DIGEST button (for DVD/Video CD) (39, 78) Display beginning scenes of each title, chapter, or track on the TV screen.

DVD/TV/CATV switch (23, 26) Selects the function of the numeric buttons to control the corresponding device.

DVD POWER button (22) Turns the unit on or off (standby).

ENTER, $\triangle / \nabla / \triangleright / \lhd$ (**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) (34) Displays a menu of DVD on the TV screen or monitor.

NEXT button (for DVD/Video CD) (29) Performs "next" operation.

Numeric buttons (32) 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, 50) Displays an on-screen display of the player on the TV screen or monitor. OPEN/CLOSE button (27)

Performs "previous" operation.

Opens and closes the disc tray. PREVIOUS button (for DVD/Video CD) (29)

RESUME button (30) 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 (23) 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) (40, 79) Starts slow-motion playback.

STROBE button (for DVD/Video CD) (40) Displays 9 still pictures on the TV screen.

SUBTITLE button (for DVD) (46) Turns subtitles on or off.

TITLE button (34) 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 (23, 28) Adjusts the TV volume.

TV POWER button (23) Turns the TV on or off.

VFP button (48, 86) Changes the picture quality.

ZOOM button (for DVD/Video CD) (41, 80) Scene in a close-up view.

II (Pause) button (29) Pauses during playback.

► (Play) button (28) Starts playback.

→ (Search) buttons (29)
Performs fast forward/backward playback operations.

I**⊲⊲** ►►I (Skip) buttons (29, 62) Performs skipping.

■ (Stop) button (28) Stops playback.

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 $\overline{\langle 1/3 \rangle}$, you can change the setting by placing $\overline{\langle}$ on $\overline{\langle}$.
- In the message box, indicates the operation to be done.
- Numbers are entered using ⁰ to ¹⁰, ⁺¹⁰.
- Some functions become effective by pressing after specifying necessary entries.
- Pressing $\bigcup_{\text{owscreen}}$ again exits the on-screen display.



Opening display

Appears when the unit turns on.

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

PREFERENCE1 PREFERE	NCE2
DIGITAL AUDIO OUTPUT	
DOWN MIX	Lt/Rt
COMPRESSION	
SCREEN SAVER	
AV COMPULINK MODE	
AUTO STANDBY	
PRESS () KEY	

PAREN	NTAL LOCK
Country Code	⊲⊂ us ⊃⊳
Set Level	⊲ NC-17
PASSWORD	
	EXIT

Preference displays (see page 50)

You can set preferences on these display.

To display the Preference display

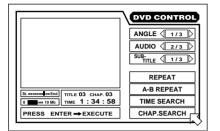
- Press ere to stop the unit.
 If the current disc is not a DVD disc, you have to remove the disc from the tray.
- 2 Press ON SCREEN.

Parental Lock on-screen display (see page 58)

You can set the parental lock from this display.

To display the Parental Lock on-screen display

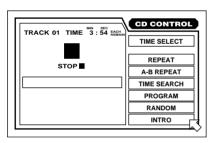
Press while holding down . The Parental Lock on-screen display appears on the TV screen.



Current relative position the title Current title Current chapter (St: start, End: number number end). St. End TITLE 03 CHAP. 03 TIME 1:34:58 0 💶 🚥 10 Mb

Transmission rate

Elapsed time from the beginning of the current title

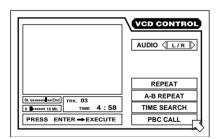


The CD on-screen display

You can select and set various function for Audio CD or Video CD (during stop mode) playback from this display.

To display the CD on-screen display

Insert a CD disc and press



Current relative position of the track Current track (St: start, End: number end). St. End TRK 03 4:58 0 ---- 10 Mb TIME Transmission rate

Elapsed time from the beginning of the current track

The DVD on-screen display during playback

To display the DVD on-screen display

During DVD playback, press

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

The Video CD on-screen display during playback

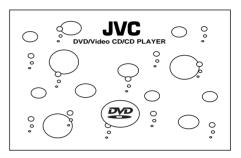
You can select and set various function for Video CD playback on this display.

To display the Video CD on-screen display

During Video CD playback, press

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 onscreen 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 pictures available (see page 56).

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 44.)



: Displayed at the beginning of a scene recorded with multiple audio languages. (See page 47.)



: Displayed at the beginning of a scene recorded with multiple subtitles language. (See page 46.)

You can set the unit not to display on-screen icons above via the preference settings described on pages 53.

About invalid operation icon

When you press a button, if the unit does not accept its operation, \bigotimes appears on your television screen. Operations are occasionally unacceptable even if \bigotimes 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 dis	SCS		Non-playable discs
DVD VIDEO			DVD-ROM
			DVD-RAM
			DVD Audio
Video CD			DVD-R
		LICOMPACT COMPACT	DVD-RW
VIUĽ			CD-G
Audio CD	DIGITAL AUDIO		CD-R
		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

Disc terms

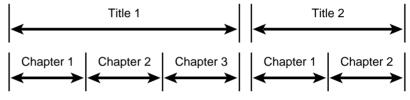
For a DVD

• Title

The longest sections of a picture or a music piece on a DVD VIDEO. Each title is assigned a title number, enabling you to locate the desired title. Each title may be divided into some "chapters."

Chapter

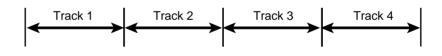
Sections of a picture or a music piece that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the desired chapter. Depending on the disc, no chapters may be recorded.



For a Video CD or Audio CD

Track

Sections of a picture or a music piece on a Video CD or Audio CD. Each track is assigned a track number enabling you to locate the desired track.



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

Connections
Before making any connections
To connect to a TV, monitor, or projector with the audio input and video input jacks
To connect to a TV, monitor, or projector with the component video input jacks
To connect to an audio amplifier or receiver
To connect to audio equipment with a digital input 19
Turn on the unit
To connect the power cord 20
To install batteries in the remote control unit
To turn on/off the unit
Lieine the second control with

Using the remote control unit

To use the remote control unit for TV operation	3
To use the remote control unit for CATV converter or satellite tuner	
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Connections

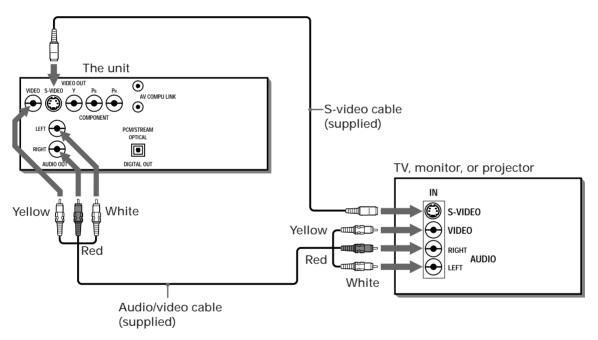
Before using the unit, you have to connect the unit to a TV or amplifier. By connecting to an amplifier which has a digital terminal or Dolby digital capability, you can enhance the sound quality.

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.

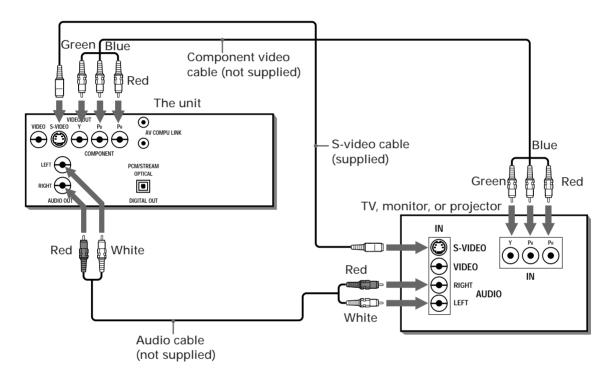
- If your television set has a monaural audio input instead of stereo, you need to use an optional audio cable which converts stereo audio output to monaural.
- If your television set has an S-video input, you should to connect it with the S-VIDEO output of the unit using the supplied S-video cable in 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.

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."

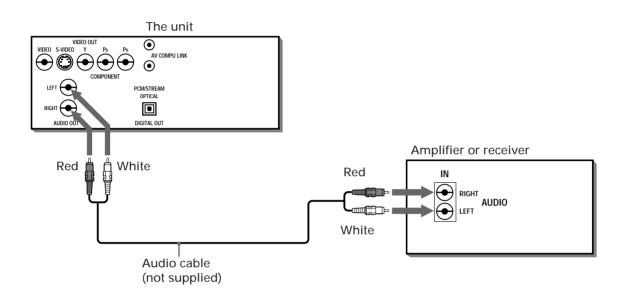
NOTES

- 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.

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.

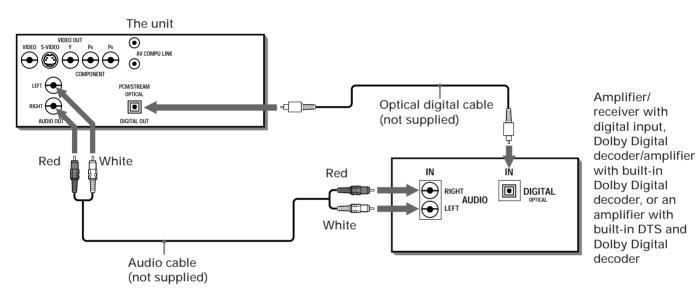


• Connect the unit's AUDIO OUT to any line-level inputs (such as AUX, DVD, CD, etc.) of an audio amplifier or receiver.

To connect to audio equipment with a digital input

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 (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 an 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.



• For digital connection, connect the unit's DIGITAL OUT (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

- 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 54.
- With this connection, the unit's settings for COMPRESSION, and DOWN MIX are invalid. Settings for these
 items must be made from the decoder.

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.

Marning

- 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.

A 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.

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.

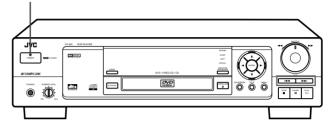
Precaution

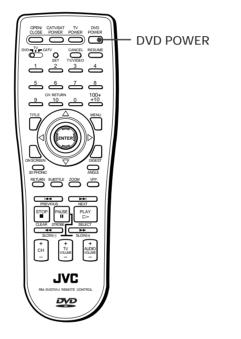
- Remove the batteries from the remote control if it is not going to be used for a long period of time.
- Remove dead batteries and dispose of them properly.
- Never leave dead batteries lying around, take them apart, mix them with other refuse, or throw them into an incinerator.
- Never touch liquid 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 \frown on the front panel or press \frown on the remote control unit.

POWER







• 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.

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 $\overset{\text{DVD}}{\longrightarrow}$ on the remote control unit to TV.
- **2** Press and hold $\stackrel{TV}{\underset{POWER}{\longrightarrow}}$, then press $\stackrel{O}{\underset{SET}{\otimes}}$. Do not release $\stackrel{TV}{\underset{POWER}{\longrightarrow}}$. Keep holding $\stackrel{TV}{\underset{POWER}{\longrightarrow}}$ until the next step is completed.
- 3 Holding [™]_{OVER}, 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 $\stackrel{\text{IV}}{\longrightarrow}$.

The following buttons can be used for operating the TV (with $\overset{\text{DVD}}{\bigcirc} \overset{\text{IV}}{\bigcirc} \overset{\text{CATV}}{\bigcirc}$ set to TV):

	Turns the TV on or off.
+ CH -	Changes the TV channels.
+ TV VOLUME -	Adjusts the TV volume.
$\stackrel{0}{\longrightarrow}$ to $\stackrel{9}{\Longrightarrow}$ and $\stackrel{\pm 10}{=}$	Selects the TV channels. $\stackrel{\pm 10}{\longrightarrow}$ will function as the ENTER button if your TV requires pressing the ENTER button after selecting a channel number.
	You can switch input mode (either TV or VIDEO).
CH RETURN	Returns to the previous channel. (only valid for JVC TVs)

5 Try to operate your TV by pressing $\stackrel{\text{POWER}}{\longrightarrow}$. If your TV turns on or off, you have entered the correct code.

- NOTE

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

Manufacturer code list

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

Getting started

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 TY carv on the remote control unit to CATV.
- 2 Press and hold $\stackrel{Catrusar}{\stackrel{OVER}{\longrightarrow}}$, then press $\stackrel{O}{\stackrel{SET}{\longrightarrow}}$. Do not release $\stackrel{Catrusar}{\stackrel{OVER}{\longrightarrow}}$. Keep holding $\stackrel{Catrusar}{\stackrel{OVER}{\longrightarrow}}$ until the next step is completed.
- 3 Holding ^{CATVEAT}/_{DOB}, enter the manufacturer's code (two digits) using ⁰ to ⁹/_D. See the lists on the right to find the manufacturer's code.

4 Release 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 [ூ]	Selects the TV channels.

5 Try to operate he CATV converter or satellite tuner by pressing OWER . If the CATV converter or satellite tuner turns on or off, you have entered the correct code.

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.

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	тосом	
23	тосом	
24	RCA/PANASONIC	
25	RCA/PANASONIC	
26	RCA/PANASONIC	
27	RCA(SAT)	
28	SONY(SAT)	

Basic operations

This chapter explains how to perform basic common DVD, Audio CD and Video CD playback operations.

For more advanced operations, see page 33 for DVD operations, page 61 for Audio CD, page 73 for Video CD.

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Before operation	
To turn on your TV and the unit	5
To select the source you want to operate)
Inserting and removing discs	
To insert or remove discs	7
Playing back a DVD VIDEO or CD disc	
To playback a disc from the beginning	3
To stop playback completely 28	
To stop playback temporarily	9
To advance or reverse play rapidly while monitoring 29)
To locate the beginning of the scene or song)
Resuming Playback	
To store the point where you want to resume playback from - RESUME 30)
To resume playback from the stored point – RESUME)
Adjusting the surround sound	
To simulate the surround sound – 3D PHONIC	
Summary of basic operations)

Introduction

Preliminary knowledge

Getting started

Basic operations

DVD VIDEO operations

Setting and adjustment

Audio CD operations



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 23).

1 Press $\stackrel{\text{TV}}{\cong}$ to turn on your TV.

2 Press $\stackrel{\text{POWER}}{\longrightarrow}$ to turn on the unit.



To select the source you want to operate

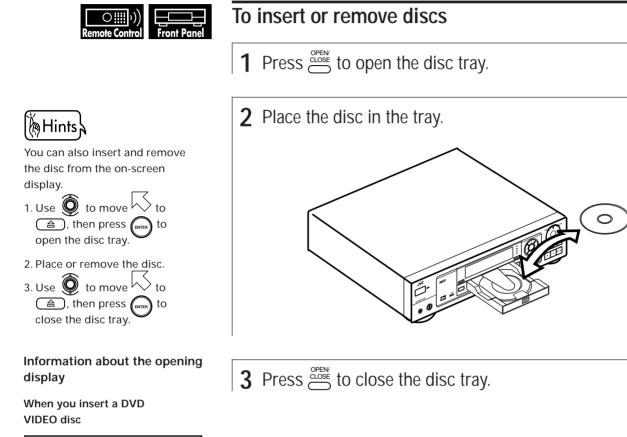
You can operate the unit with the remote control unit and operate some functions of your TV or the CATV unit.

(Hints)

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

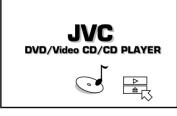
- To operate the unit, set of on the remote control unit to DVD.
- To operate the TV, set [™] T[™] on the remote control unit to TV.
- To operate the CATV unit, set *warty* on the remote control unit to CATV.

Inserting and removing discs





When you insert an Audio CD disc



When you insert a Video CD disc



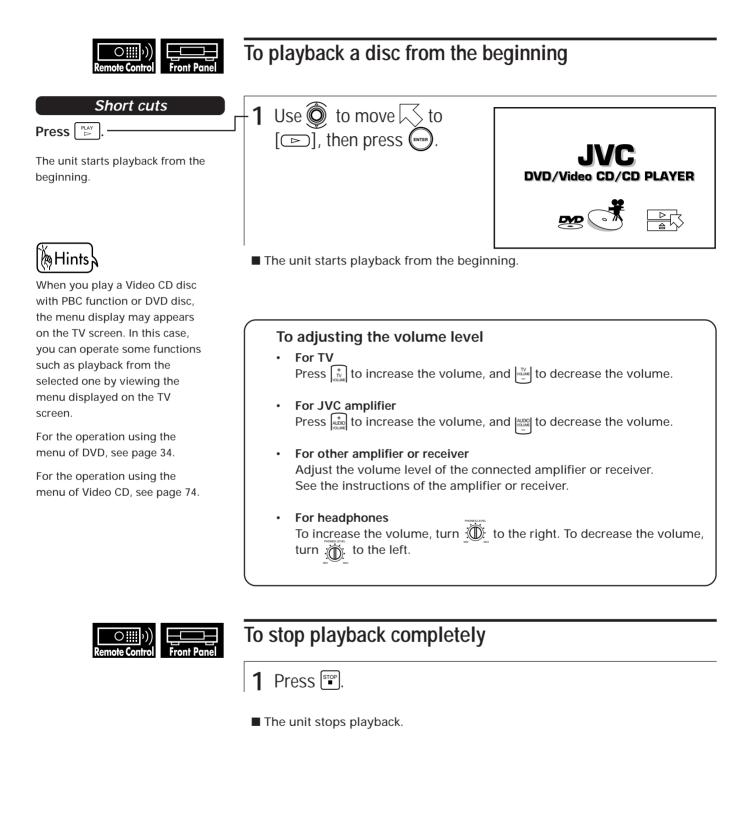
(NOTES)

- 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.



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 stop playback temporarily

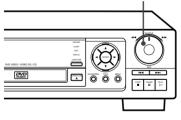
- 1 Press .
- The unit pauses playback. To continue playback, press [▷.





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 proven or end.

Press to advance playback rapidly, and to reverse playback rapidly. Each time you press the button, advance playback or reverse playback speed increases. To return to the normal playback, press

To locate the beginning of the scene or song

During playback

1 Press Prevous.

Press to locate the beginning of the current chapter, title, or track, and press \xrightarrow{PH} 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.



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]



You can store the position on a disc you want to interrupt playback at by pressing $\frac{DVD}{POWER}$ instead of $\stackrel{RESUME}{\longrightarrow}$.



1 Press .

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



The unit also starts resume playback by pressing *esume* during standby mode.



The unit starts playback from the stored position.

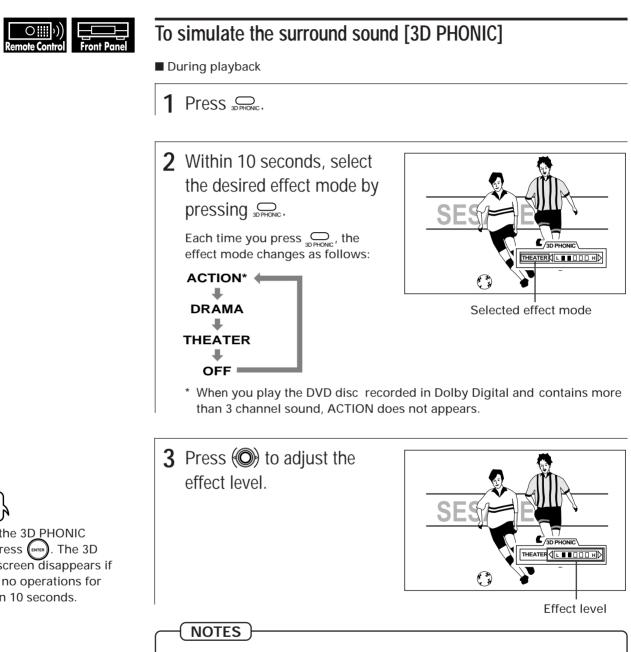


• When you resume playback during playback of a Video CD disc with PBC function, the unit may resume playback from a point slightly earlier than the point you stored.

• To clear the memory Take out the disc from the unit.

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.



- 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 $\bigcup_{3D PHONC}$ 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 display are disabled.



MHints

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

Summary of basic operations

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

То	Press
Turn on/off the unit	DVD POWER
Play	
Stop	STOP
Pause	PAISE
Advance or reverse play rapidly while monitoring	General State Action (State Action Content of State Action Content of State Action Content of Action
Locate the beginning of the scene or song	PREVIOUS / NEXT Until it Clicks.

То	Press
Turn on your TV	TV POWER
Adjust the volume of your TV	+ ™ Vulue −
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 $\stackrel{1}{\longrightarrow}$ to $\stackrel{10}{\longrightarrow}$, $\stackrel{\pm 10}{\longleftarrow}$ (described as "press $\stackrel{1}{\longrightarrow}$ to $\stackrel{10}{\longrightarrow}$, $\stackrel{\pm 10}{\longleftarrow}$ ").

- 1. Set DVD TIP 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 <u>+10</u>.

Example :

To select 13	$\stackrel{+10}{\longrightarrow}$ \rightarrow $\stackrel{3}{\longrightarrow}$
To select 34	$\stackrel{\texttt{+10}}{\longrightarrow} \rightarrow \stackrel{\texttt{+10}}{\longrightarrow} \rightarrow \stackrel{\texttt{+10}}{\longrightarrow} \rightarrow \stackrel{\texttt{4}}{\longleftarrow}$
To select 40	$\stackrel{\texttt{+10}}{\longrightarrow} \rightarrow \stackrel{\texttt{+10}}{\longrightarrow} \rightarrow \stackrel{\texttt{+10}}{\longrightarrow} \rightarrow \stackrel{\texttt{-10}}{\longleftarrow}$

To use $\stackrel{0}{\longrightarrow}$ to $\stackrel{9}{\longrightarrow}$ (usually used for time search and described as "press $\stackrel{0}{\longrightarrow}$ to $\stackrel{9}{\longrightarrow}$ ").

- 1. Set DVD THE CATV to DVD.
- 2. Select the time.

Example (for DVD VIDEO): 1 hour 20 minutes $1 \rightarrow 2 \rightarrow 0 \rightarrow 0 \rightarrow 0$ 3 minutes 20 seconds $0 \rightarrow 0 \rightarrow 3 \rightarrow 2 \rightarrow 0$ Example (for Audio CD/Video CD): 3 minutes 20 seconds $0 \rightarrow 3 \rightarrow 2 \rightarrow 0$ 65 minutes 30 seconds $6 \rightarrow 5 \rightarrow 3 \rightarrow 0$

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.

Table of contents of this chapter

Table of contents of this chapter	Preliminary knowledge
Playing a specific scene on a DVD disc To locate a desired scene from the menu 34 To locate a desired scene by specifying the title number 35 To locate a desired scene by specifying the chapter number - CHAP. SEARCH 36 To locate a desired scene by specifying the time - TIME SEARCH 37 To locate a desired scene by watching the opening scene digest display 30	ons Getting started
 DIGEST	Basic operations
Playing a scene close-up 40 To playback a scene close-up – ZOOM	DVD VIDEO operations
Repeat playback To repeat a title or chapter - REPEAT	Setting and adjustment
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Changing the language and sound To select the subtitle language – SUBTITLE	
Adjusting the picture to suit preferences To adjust the picture quality – VFP	Video CD operations

Introduction

Playing a specific scene on a DVD disc

You can play a specific scene on a DVD disc by selecting the title, chapter number, or time. You can select it from the menu on the TV screen (see page 34), or from the remote control (see page 35).



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.



A DVD disc which contains more than one title may have the menu like as a list of the title. In this case, the menu appears on the TV screen by pressing On the other hand, a DVD disc which contains only one title may have the menu. In this case, the menu appears on the TV screen by pressing ∑.

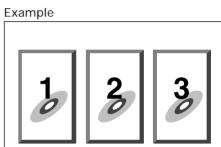


With some discs, you can select the item by entering the corresponding number using the numeric buttons, causing the unit to automatically start playback.





The menu appears on the TV screen.



2 Use O to select the desired item, then press O.

■ The unit starts playback of the selected item.



• When () appears on the TV screen by pressing [] 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 () in step 1: The disc does not have the menu.



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 a	appears in the display window on the front panel
	Example: To select title number 8: To select title number 37:	Press Press > > >
	he unit begins playback fron	n the selected title.

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



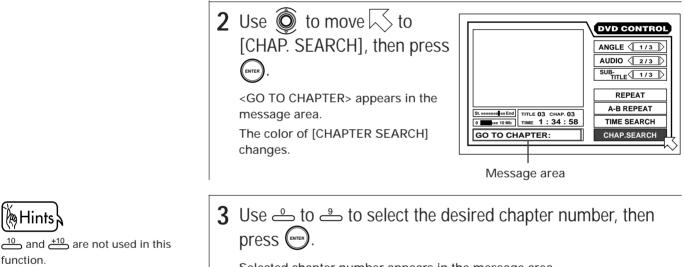
To locate the desired scene by specifying the chapter number [CHAP. SEARCH]

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



The on-screen display appears on the TV screen.



Selected chapter number appears in the message area.

Example:

To select chapter number 8: Press $\underset{3}{\overset{8}{\overset{}}}$, $\underset{7}{\overset{}{\overset{}}}$. To select chapter number 37: Press $\underset{3}{\overset{}{\overset{}}}$, $\underset{7}{\overset{}{\overset{}}}$, $\underset{8}{\overset{}{\overset{}}}$

■ The unit begins playback from the selected chapter.



- When the chapter number is incorrect in step 3: Press $\stackrel{0}{\longrightarrow}$ to erase the number previously selected, and select the desired number using the numeric buttons.
- When \bigcirc 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

Hints

function.



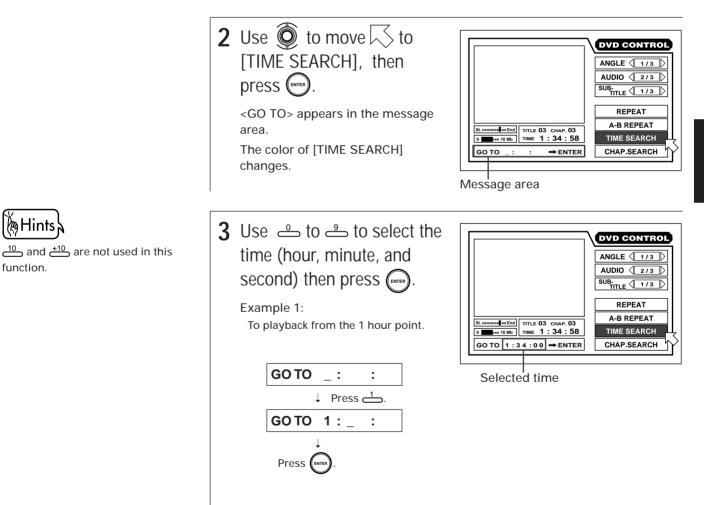
To locate the desired scene by specifying the time [TIME SEARCH]

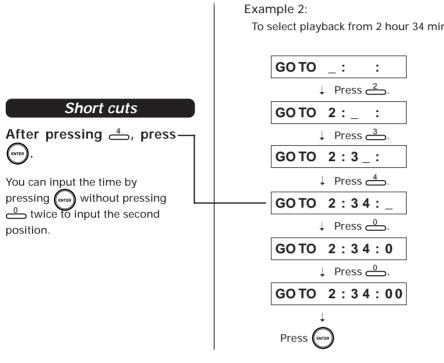
If the DVD disc contains time information, elapsed time appears on the TV screen. You can play the desired scene by selecting the time from the on-screen display.

During playback



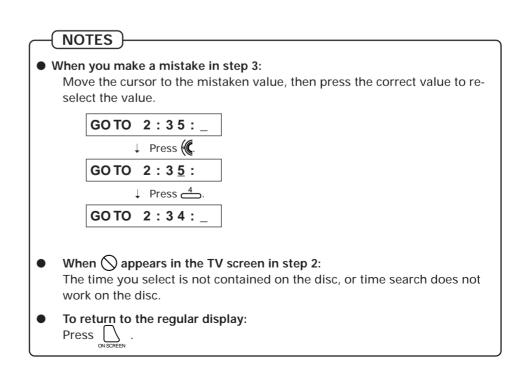
The on-screen display appears on the TV screen.





To select playback from 2 hour 34 minutes:

■ The unit starts playback from the selected time.





Hints }

chapter 1.

MHints

next scenes.

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

When the selected title is in

the lower right-hand corner of

the screen, press 🕥 to check

the screen, press 🕷 to return

When the selected title is in the upper left-hand corner of

to previous scenes.

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



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 <u>Her</u>. Additional scenes appear on the TV screen. When you want to return to previous scenes, press <u>Herrors</u>.



Selected title

3 Press (INTER) .

■ The unit begins playback from the selected title.

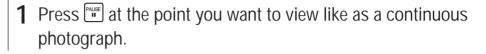
Playing in slow-motion

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



2 Press and hold for more than 1 seconds.

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

Â		
Å	- A	×
X	X	- P

To cancel strobe play

Press and hold $\operatorname{Puse}_{\mathbf{u}}$ more than 1 second.



Hints

と Hints と

screen.

During this function, when you

continuously appear on the TV

press $\mathbb{P}_{\mathbf{u}}^{\mathbb{P}_{\mathbf{v}}}$, next nine still pictures appear on the TV screen and playback pauses. When you press $\mathbb{P}_{\mathbf{v}}^{\mathbb{P}_{\mathbf{v}}}$, nine still pictures

You can enjoy advancing the picture frame-by-frame by pressing adving pause. Each time you press at the picture advances one frame.



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

1. Press Hause 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.

To playback in slow-motion [SLOW]

During playback

1 Press $\mathbb{P}_{\text{stowed}}$, then press $\mathbb{P}_{\text{stowed}}$ or $\mathbb{P}_{\text{stowed}}$.

To play in slow-motion, press $\xrightarrow[strifted]{strifted}$, and to play in slow motion in reverse, press $\xrightarrow[strifted]{strifted}$. First, the unit play the slowest speed, and each time you press these buttons, the playback speed increases. To return to normal playback, press $\left[\frac{play}{lay}\right]$.

To pause slow-motion play

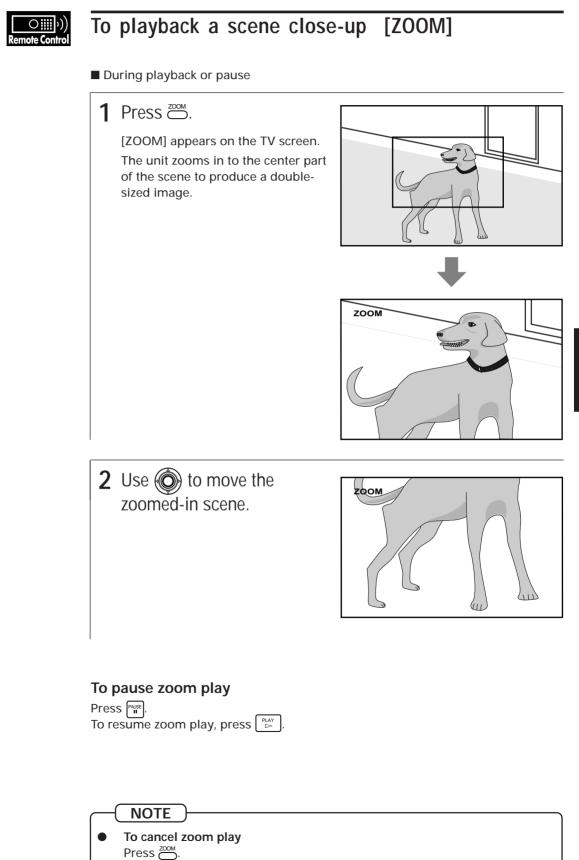


-(<u>NOTES</u>)-

- To cancel slow-motion play Press PLAY
 - The sound is muted during slow-motion play.

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.

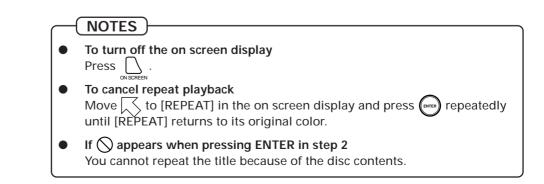


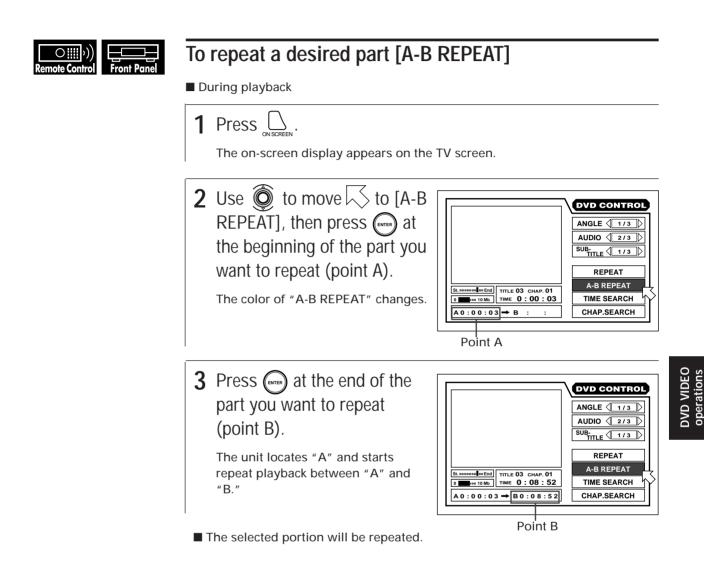
Repeat playback

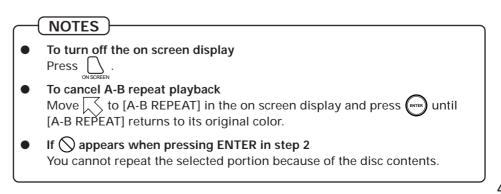
The unit can repeat playback of the current title or current chapter and you can also select the desired part for repeat playback.

Ciiii)) Remote Control Front Panel	To repeat a title or chapter [REPEAT]
	During playback
	The on-screen display appears on the TV screen.
	2 Use to move to [REPEAT], then press to [REPEAT], then press to mode changes as follows: T. REPEAT (title repeat) ↓ C. REPEAT (chapter repeat) ↓ No indication (off) Selected repeat mode appears on the TV screen.

■ The current title or chapter will be repeated.







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.



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

During playback

1 Press Que.

2 Press \bigoplus or \bigotimes to select the desired angle.

Each time you press \bigoplus_{ANGLE} or \bigotimes , the scene changes.

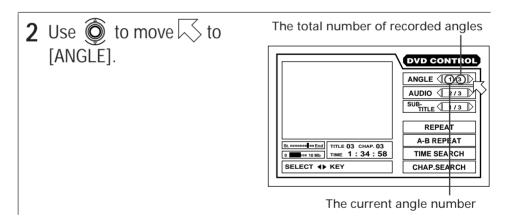


To select a scene angle from the on-screen display [ANGLE]

During playback

1 Press

The on-screen display appears on the TV screen.



3 Use ((**(C)**) to select the desired angle number.

Example: 1/3 2/3 3/3

- NOTES

- When Sappears on the TV screen
 The current scene is not recorded from multiple angles.

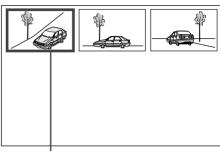


To select a scene angle from the angle list display [ANGLE]

During playback

1 Press and hold \bigoplus_{ANGLE} for more than 1 seconds.

Up to eight angle scenes recorded on a disc appear on the TV screen.

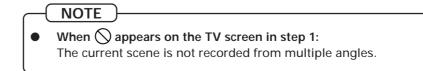


The selected scene angle





■ The selected angle appears on the TV screen.



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.



Short cuts

Press $\stackrel{\text{summe}}{\longrightarrow}$ and select the desired subtitle by using O.



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

MHints

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 page 95.

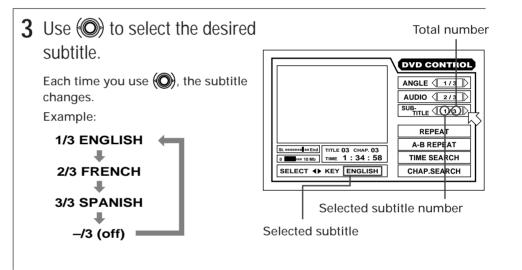
To select the subtitle language [SUBTITLE]

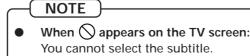
During playback



The on-screen display appears on the TV screen.

2 Use 0 to move \bigtriangledown to [SUBTITLE].







To change the audio language or sound selection [AUDIO]

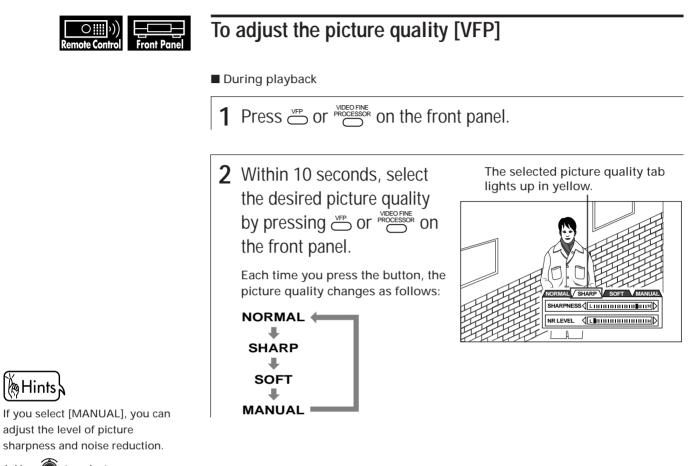
During playback

1		
	The on-screen display appears on the	e TV screen.
2	Use 🔘 to move ⊼ to [AUDIO].	BL CONTROL SL CONTROL SL CONTROL ANGLE ITTLE 03 CHAP.03 TITLE 03 CHAP.03 TITLE 03 CHAP.03 TITLE 03 CHAP.03 SUB- TITLE ITTLE 03 CHAP.03 SELECT + KEY ENGLISH
3	Use () to select desired	Total number
	audio language or sound.	
	Each time you use (O), the audio language or sound changes.	
	Example:	
	1/3 ENGLISH	Image: 10 Mbb TIME 1:34:58 TIME SEARCH SELECT Image: 10 Mbb CHAP.SEARCH
	2/3 FRENCH	Selected audio number
	3/3 SPANISH	Selected audio language

 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).

Adjusting the picture to suit preferences

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





adjust the level of picture sharpness and noise reduction.

 \bigcirc 1. Use to select SHARPNESS or NR LEVEL.

2. Use (O) to adjust the level.

NOTES

- To erase the VFP screen, press
- The VFP screen disappears if there are no operations for more than 10 seconds.

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

Selecting preferences

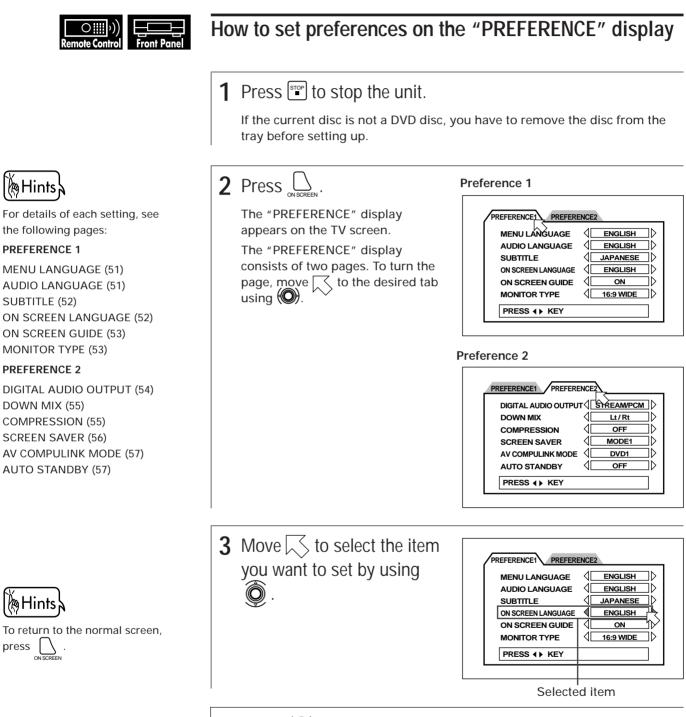
How to set preferences on the "PREFERENCE" display	50
To set the language and display preference items	51
To set other preference items	54

Limiting playback by children

To set Parental Lock for the first time – PARENTAL LOCK	58
To change the settings – PARENTAL LOCK	59
To temporarily release the Parental lock – PARENTAL LOCK	60

Selecting preferences

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



4 Press () to select the setting you want.

To set the language and display preference items

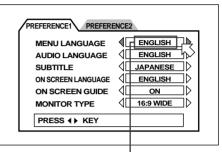
The PREFERENCE 1 can be set as follows:

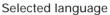
MENU LANGUAGE

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

Each time you press \mathfrak{Y} , the language setting changes in the following order:

ENGLISH \rightarrow SPANISH \rightarrow FRENCH \rightarrow CHINESE \rightarrow GERMAN \rightarrow ITALIAN \rightarrow JAPANESE \rightarrow language code from AA to ZU (See "Table of languages and their abbreviations" on page 95.)





Pressing K 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 \mathfrak{Y} , the language setting changes in the following order:

ENGLISH \rightarrow SPANISH \rightarrow FRENCH \rightarrow CHINESE \rightarrow GERMAN \rightarrow ITALIAN \rightarrow JAPANESE \rightarrow language code from AA to ZU (See "Table of languages and their abbreviations" on page 95.)

MENU LANGUAGE AUDIO LANGUAGE SUBTITLE ON SCREEN LANGUAGE MONITOR TYPE MENULANGUAGE ENGLISH ON SCREEN CON MONITOR TYPE ENGLISH AUDIO LANGUAGE ENGLISH AUDIO LANGUAGE AUDIO LANGU	PREFERENCE1 PREFERE	ENCE2
	AUDIO LANGUAGE SUBTITLE ON SCREEN LANGUAGE ON SCREEN GUIDE	ENGLISH JAPANESE ENGLISH ON
PRESS () KEY	PRESS () KEY	

oolootoa langaago	Se	lected	lang	uage
-------------------	----	--------	------	------

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

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

SUBTITLE

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

Each time you press \mathfrak{M} , the language setting changes in the following order:

ENGLISH \rightarrow SPANISH \rightarrow FRENCH \rightarrow CHINESE \rightarrow GERMAN \rightarrow ITALIAN \rightarrow JAPANESE \rightarrow language code from AA to ZU (See "Table of languages and their abbreviations" on page 95.)

PREFERENCE1 PREFERE	INCE2
MENU LANGUAGE	
AUDIO LANGUAGE	
SUBTITLE	
ON SCREEN LANGUAGE	
ON SCREEN GUIDE	
MONITOR TYPE	
PRESS () KEY	

Selected language

Pressing **((c**hanges the language setting in the reverse order of the above.

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

ON SCREEN LANGUAGE

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

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

÷ `
ESPAÑOL (Spanish)
+
FRANCAIS (French)

	MENU LANGUAGE AUDIO LANGUAGE SUBTITLE ON SCREEN LANGUAGE ON SCREEN GUIDE MONITOR TYPE PRESS () KEY	ENGLISH APANESE ON 16:9 WIDE	
'			•

English	ON SCREEN LANGUAGE \langle English \rangle	
Spanish	IDIOMA EN PANTALLA	
French	LANGUE D'ECRAN	

ON SCREEN GUIDE

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

• ON The guide display turns on.

The guide display turns off.

PREFERENCE1 PREFERENCE2 MENU LANGUAGE dΓ ENGLISH ٦b AUDIO LANGUAGE **Л** ٦Þ ENGLISH SUBTITLE 4 JAPANESE ON SCREEN LANGUAGE ENGLISH ٦Þ ON SCREEN GUIDE ON ኲ MONITOR TYPE 16:9 WIDE PRESS () KEY

Examples of "On-screen guide" icons or characters to be off:

MONITOR TYPE

• OFF

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.

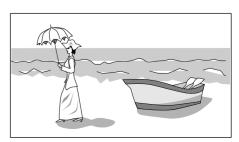
4:3 PS (Pan scan Conversion)
 When you connect a normal TV to the unit.

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.







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.

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

DIGITAL AUDIO OUTPU	JT STREAM/PCM
DOWN MIX	
COMPRESSION	
SCREEN SAVER	
AV COMPULINK MODE	
AUTO STANDBY	

- 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	<i>←</i>	\leftarrow
DVD with 48-kHz, 20/24-bit linear PCM	48-kHz, 20-bit linear PCM	\leftarrow	\leftarrow
DVD with 96-kHz, linear PCM	No output	\leftarrow	\leftarrow
DVD with DTS	DTS bitstream	No output	No output
DVD with Dolby Digital	Dolby Digital bitstream	Dolby Digital bitstream	48-kHz, 16- bit linear PCM
DVD with MPEG audio	MPEG bitstream	48-kHz, 16-bit linear PCM	48-kHz, 16-bit linear PCM
Video CD	44.1-kHz, 16-bit linear PCM	\leftarrow	\leftarrow
Audio CD	44.1-kHz, 16-bit linear PCM	\leftarrow	\leftarrow
Audio CD with DTS	DTS bitstream	\leftarrow	\leftarrow

-(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 amplifer 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.

PREFERENCE1 PREFERENCE2

AV COMPULINK MODE

DOWN MIX

COMPRESSION

SCREEN SAVER

AUTO STANDBY

PRESS () KEY

4[

4٢

٩C

Lt/Rt

OFF

MODE1

DVD1

OFF

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٦Þ

]0

DOWN MIX

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

• Lt/Rt:

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

• Lo/Ro:

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.

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.

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

PREFERENCE1 PREFERENCE2		
DIGITAL AUDIO OUTPUT	STREAM/PCM	
DOWN MIX 4	Lt/Rt	
COMPRESSION		
SCREEN SAVER		
AV COMPULINK MODE	DVD1	
AUTO STANDBY	OFF	
PRESS () KEY		

5
Ð
9

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 onscreen display or menu, is displayed for over 5 minutes.

MODE 1

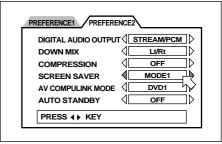
The picture is scrolled.

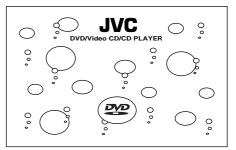
- MODE 2 The picture is not scrolled.
- **DIMMER** The picture gets dark.
- OFF

The screen saver function is off.

–(NOTES)

- When "SCREEN SAVER" is set to "DIMMER," the display window on the front panel also gets dark. To return to normal brightness, set "SCREEN SAVER" to a different 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 92.

DIGITAL AUDIO OUTPU	л⊲⊡	TREAM/PCM]Þ
DOWN MIX	$\triangleleft \square$	Lt/Rt]Þ
COMPRESSION	$\triangleleft \Box$	OFF]Þ
SCREEN SAVER	$\triangleleft \Box$	MODE1]Þ
AV COMPULINK MODE		DVD1	⊐Ę
AUTO STANDBY	$\triangleleft \Box$	OFF	ÌV

AUTO STANDBY

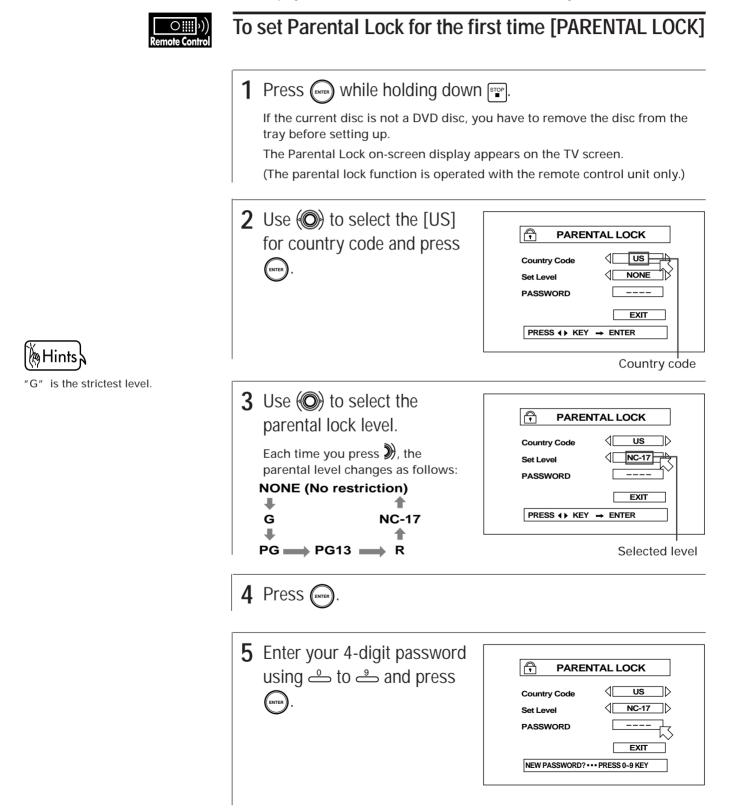
When the unit is not operated or in stop mode for more than 30 minutes or 60 minutes, the unit enters standby mode automatically.

- 60 Time is set to 60 minutes.
- 30 Time is set to 30 minutes.
- **OFF** The auto standby function is off.

PREFERENCE1 PREFERENCE2		
DIGITAL AUDIO OUTPUT		
DOWN MIX	 ↓ Lt/Rt 	
COMPRESSION		
SCREEN SAVER		
AV COMPULINK MODE		
AUTO STANDBY		
PRESS () KEY		

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, by setting the Parental level strictly, when a movie which includes violent scenes is played back, the scenes are cut or replayed with other scenes in order not to be viewed by children.



■ The parental level and password are set.

))	
Remote Control	

To change the settings [PARENTAL LOCK]

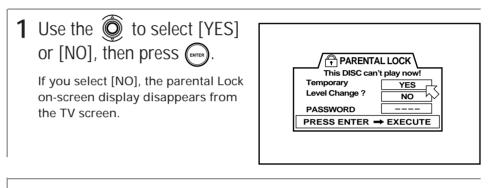
1	Press while holding down see. If the current disc is not a DVD disc, you have to remove the disc from the tray before setting up. The Parental Lock on-screen display appears on the TV screen.	PARENTAL LOCK Country Code US Set Level NC-17 PASSWORD EXIT CURRENT PASSWORD? ••• PRESS 0-9 KEY
2	Enter your current 4-digit pass press . If you enter the wrong password, <wr screen, and you cannot go to next step</wr 	ONG ENTRY> appears on the TV
3	Use () to move to [Set Level], then use () to select the parental lock level.	PARENTAL LOCK Country Code US Set Level PG13 PASSWORD
4	Press (INTER).	
5	Enter your new 4-digit passwo	rd using
	The new setting is effective.	
	NOTES When you enter the wrong password	

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



To temporarily release the Parental lock [PARENTAL LOCK]

When you set the parental level strictly, some discs may not be played back at all. When you insert such a disc and try to play it, the 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.



2 Enter your 4-digit password using rightarrow to rightarrow.

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.

Introduction

Preliminary knowledge

Getting started

Basic operations

DVD VIDEO operations

Setting and adjustment

Audio CD operations

VIDEO CD operations

Additional information

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.

Table of contents of this chapter

Playing a specific track on a disc
To locate the desired track using the metric or the metric of the desired track using the metric of
To locate the desired track directly 62
To locate the desired position by specifying the time – TIME SEARCH
Changing the track order
To playback in the desired order – PROGRAM
To playback tracks in random order – RANDOM
Repeat playback
To repeat a current track or all tracks – REPEAT
To repeat a desired part – A-B REPEAT
Sampling all tracks
To playback only the beginning of each track – INTRO
Checking the elapsed time or remaining time
To select the time display mode – TIME SELECT
Information about CD TEXT

61

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.





You can display the desired track number on the TV screen. In this case, press $\bigcap_{\text{on SCREEN}}$ to display the Audio CD on-screen display, then select the desired track.

To locate a desired track using is or is new or

During playback

Press Prevous To skip to a succeeding track, press Prevous press Prevous press Prevous press Prevous press Prevous press Prevous prevous

- the display.
 To skip to beginning of the current track, press reaction once.
- To skip to a preceding track, press
 repeatedly until the desired track appears in the display.

Display v	vindow
-----------	--------



Selected track number



To locate a desired track directly

During playback or stop mode

1	Select a desired track number using $\stackrel{1}{\longrightarrow}$ to $\stackrel{10}{\longrightarrow}$, $\stackrel{+10}{\longrightarrow}$.		
	Example: To select track number 8: To select track number 37: To select track number 15:	Press	
		Display window	
		ا Selected track number	

■ The unit starts playback from the selected track.



& Hints ∖

this function.

 $\stackrel{10}{\longrightarrow}$ and $\stackrel{+10}{\longleftarrow}$ are not used for

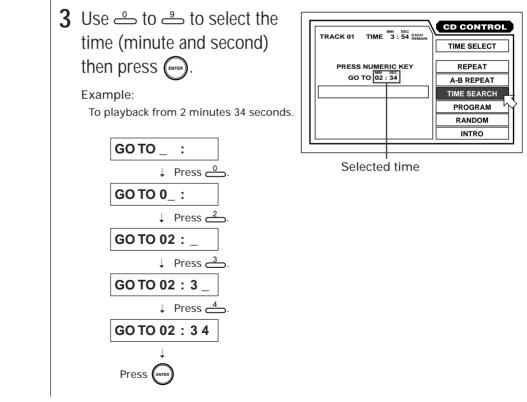
To locate a desired position by specifying the time [TIME SEARCH]

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



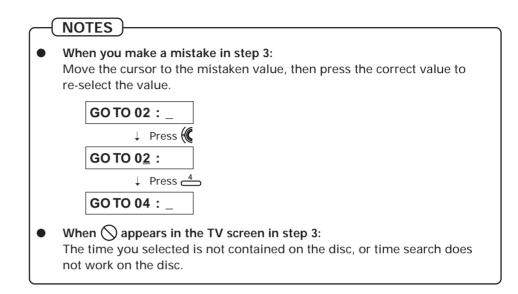
The on-screen display appears on the TV screen.





The unit starts playback from the selected time.





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				

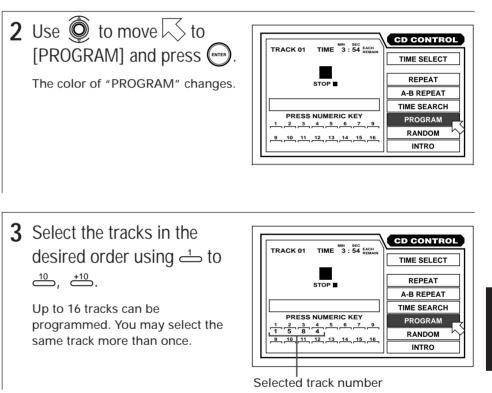
To playback in the desired order [PROGRAM]

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

During stop only



The on screen display appears on the TV screen.



4 Press $\stackrel{\text{PLAY}}{\rightarrowtail}$ to start program play.



BHints

You can program tracks during program playback.

When all of the programmed tracks have finished playback, the unit

stops but the program remains.

-(NOTES

- When you make a mistake in step 3:
 Press CANCEL. The last track programmed is erased.
 - To clear program play Press ^{STOP} to stop playback, then press ^{STOP} again. All the programmed tracks are erased.
 - To quit the program play Move to [PROGRAM] in the display using and press "PROGRAM" returns to its original color.





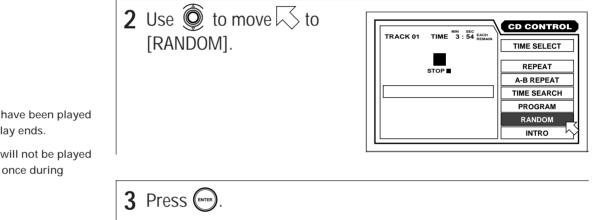
To playback tracks in random order [RANDOM]

The unit can play tracks in random order.

During stop mode

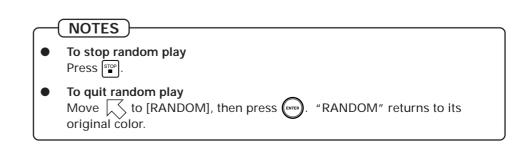


The on screen display appears on the TV screen.



The color of "RANDOM" changes.

Random play begins.



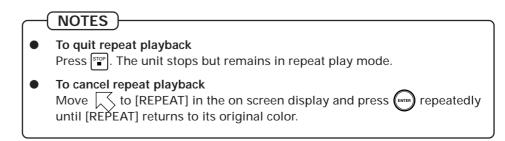
Hints

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

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.

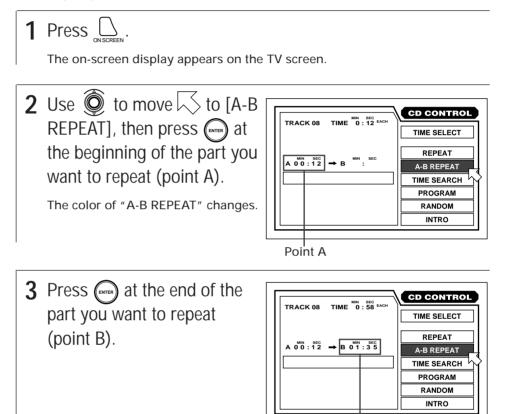
Control Front Panel	To repeat a current track or all tracks [REPEAT]		
	During playback		
	The on-screen display appears on th	The on-screen display appears on the TV screen.	
	2 Use () to move \square to [REPEAT].	TRACK 08 TIME 0:58 EACH TIME SELECT CD CONTROL TIME SELECT REPEAT A-B REPEAT TIME SEARCH PROGRAM RANDOM INTRO	
	3 Press . Each time you press . mode changes as follows: REPEAT ALL REPEAT 1 No indication (off)	CD CONTROL TRACK 08 TIME ^{WHI} SEC REPEAT ALL TIME SELECT 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 repeated	у.	
	■ The current track or all the tracks is/ar	e played repeatedly.	





To repeat a desired part [A-B REPEAT]

During playback



Point B

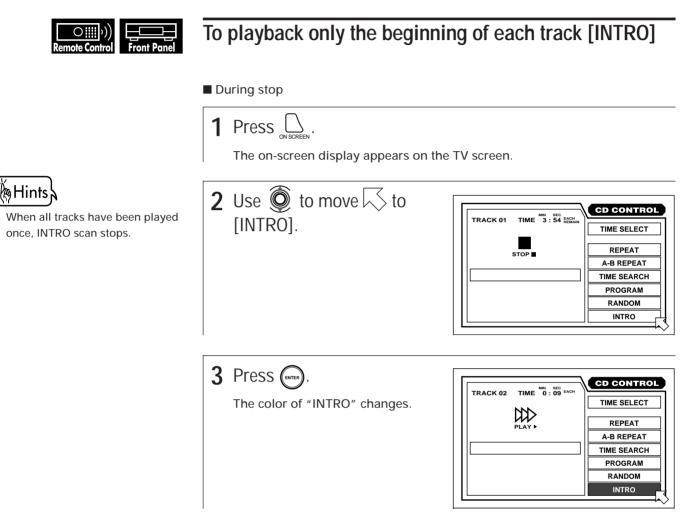
■ The unit locates "A" and starts repeat playback between "A" and "B."



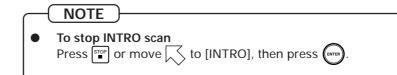
To cancel A-B repeat playback Move \int to [A-B REPEAT] in the on screen display and press and until [A-B REPEAT] returns to its original color.

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.



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



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.



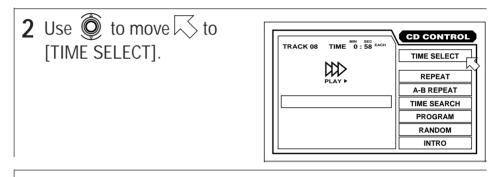
To select the time display mode [TIME SELECT]

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

During playback



The on-screen display appears on the TV screen.

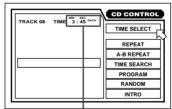




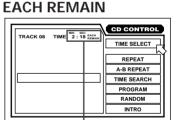
3 Press (ENTER).

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

EACH

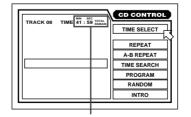






Elapsed time of the current track

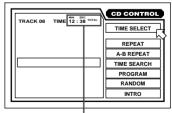
TOTAL REMAIN



Total remaining time of the disc

Remaining time of the current track

TOTAL



Total elapsed time of the disc

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

EACH (0:00)

.....

EACH REMAIN

Recorded time of the current track \downarrow

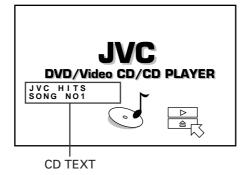
```
TOTAL (0:00)
```

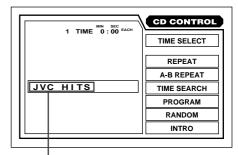
\downarrow TOTAL REMAIN

Total recorded 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.





CD TEXT

Hints

CD TEXT data also appears in the display window. In this case, each time you press $\prod_{i=1}^{\text{TILE}}$, CD TEXT data and time appears alternately.

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.



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.

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	To use the menu of the Video CD recorded on PBC	
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	To locate a desired scene by watching the opening scene digest display	
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	To display still pictures – STROBE	
	To playback in slow-motion – SLOW	
	Playing a scene close-up	
	To playback a scene close-up – ZOOM	
_	Changing the track order	
-	To playback in the desired order – PROGRAM	
	To playback tracks in random order – RANDOM	
_		
	Repeat playback	
	To repeat a current track or all tracks – REPEAT	
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	To adjust the picture quality – VFP	
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-	Checking the total disc time	
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	10 Select the time display mode - Tivie Select	

Introduction

Preliminary knowledge

Getting started

Basic operations

DVD VIDEO operations

Setting and adjustment

Audio CD operations

Video CD operations

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.

Example:

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

1 Use ^{___} to ^{___}, ^{___} to select the desired number of the item.

Playback starts from the selected item.

You can return to the menu by pressing $\stackrel{\text{RETURN}}{\longrightarrow}$.

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

succeeding to the next page by pressing

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



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 reprint press to activate the PBC function. You can also operate from the onscreen display as follows:



2. Use to move to [PBC CALL], then press (NTER).



When you want to set to off the PBC function, press the numeric buttons to play a disc. See page 75.

333



To locate a desired track using into or interval

During playback without the PBC function

- 1 Press Previous Or Previous.
 - To skip to succeeding tracks, press once or repeatedly until the desired track appears in the display.
 - To skip to beginning of the current track, press and once.
 - To skip to preceding tracks, press 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 $\frac{1}{2}$ to $\frac{10}{2}$, $\frac{10}{2}$.

Example:



■ The unit starts playback from the selected track.



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



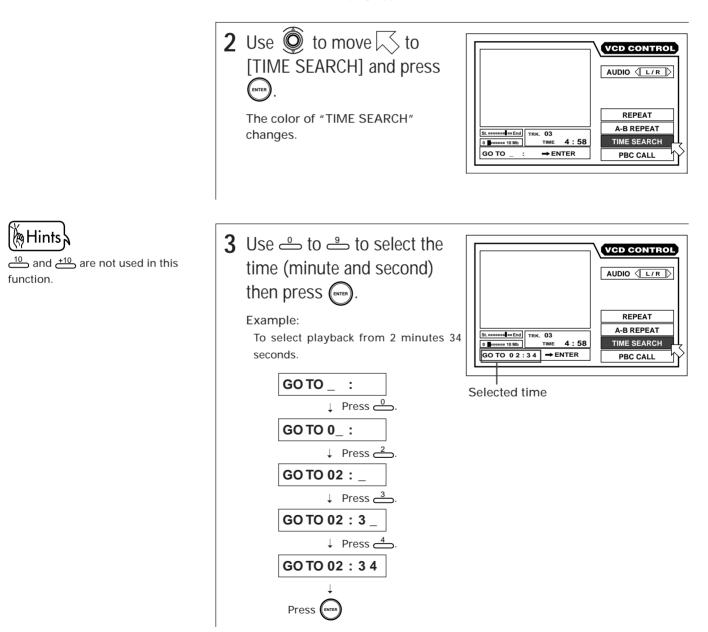
To locate a desired position by specifying the time [TIME SEARCH]

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

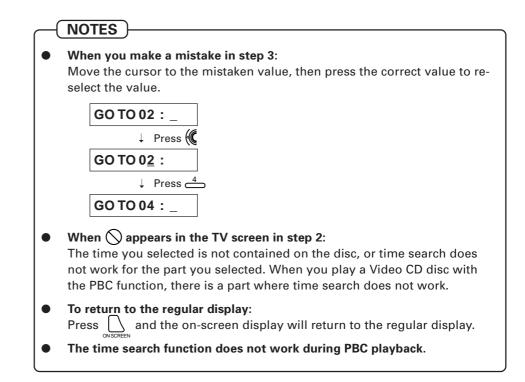
During playback without the PBC function



The on-screen display appears on the TV screen.



The unit starts playback from the selected time.

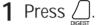




To locate a desired scene by watching the opening scene digest display [DIGEST]

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



The opening scene of each track appears on the TV screen. Up to nine opening scenes are displayed.





- When the selected track is in the lower right-hand corner of the screen, press b 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 were scenes appear on the TV screen. When you want to return to previous scenes, press previous scenes, press



Selected track

3 Press (INTER) .

■ 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.



screen.

During this function, when you

continuously appear on the TV

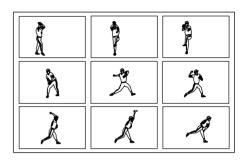
press $\mathbb{P}_{\mathbf{n}}$, next nine still pictures appear on the TV screen and playback pauses. When you press $\mathbb{P}_{\mathbf{n}}^{\mathsf{P}_{\mathbf{n}}}$, nine still pictures

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 $\operatorname{Press}_{\mathbf{u}}$ more than 1 second.



To playback in slow-motion [SLOW]

During playback

1 Press , then press .

The unit play the slowest speed, and each time you press $\xrightarrow{\text{slow}}$, the playback speed increases. To return to normal playback, press $\xrightarrow{\text{slow}}$.

To pause slow-motion play

Press

Hints

**と
Hints**

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

You can enjoy advancing the

time you press PAUSE, the picture

picture frame-by-frame by pressing Puse during pause. Each

- 1. Press ^{PAUSE} 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.

• The sound is muted during slow-motion play.

To cancel slow-motion play

Press

Reverse slow playback is not possible on a Video CD disc.

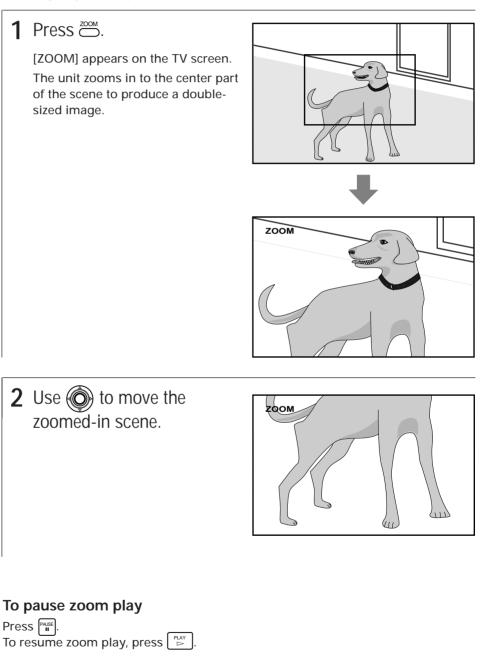
Playing a scene close-up

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



To playback a scene close-up [ZOOM]

During playback or pause





Changing the track order

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

O !!!! י))	
Remote Control	

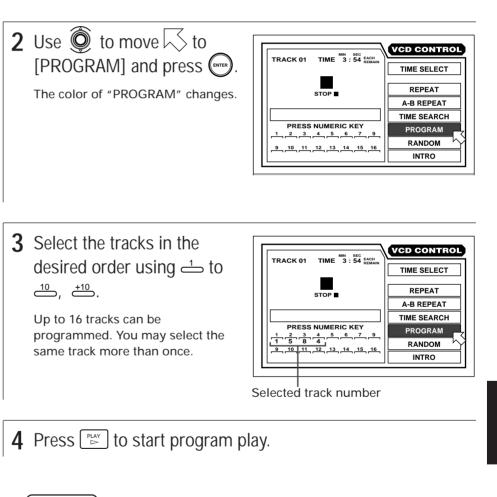
To playback in the desired order [PROGRAM]

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

During stop mode only



The on screen display appears on the TV screen.



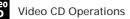


When all of the programmed tracks have finished playback, the unit stops but the program remains.

Hints

You can program tracks during playback.

- When you make a mistake in step 3:
 Press CANCEL. The last track programmed is erased.
 - To clear program play Press ^{STOP} to stop playback, then press ^{STOP} again. All the programmed tracks are erased.
- To quit the program play Move to [PROGRAM] in the display using and press "PROGRAM" returns to its original color.

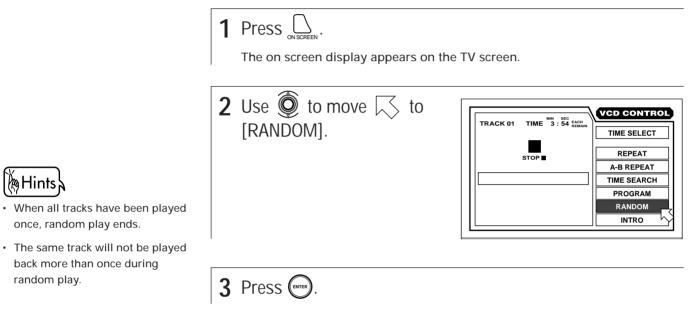




To playback tracks in random order [RANDOM]

The unit can play tracks in random order.

During stop



Random play begins.



Video

Repeat playback

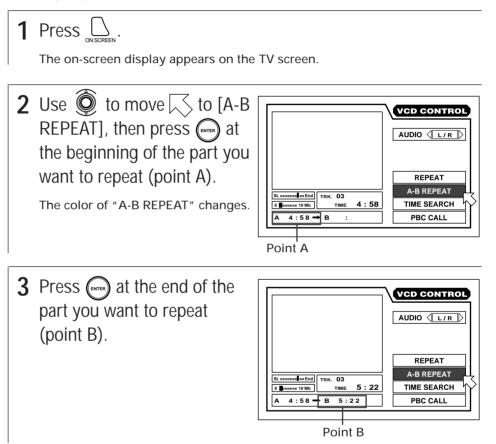
The unit can repeat playback the current title or current chapter and you can also select a desired part for repeat playback.

Ciiii)) Remote Control Front Panel	To repeat a current track or all tracks [REPEAT]
	During playback without PBC function
	1 Press $\bigcap_{\text{ON SCREEN}}$. The on-screen display appears on the TV screen.
	2 Use © to move to [REPEAT].
	3 Press . Each time you press . Each time you press . REPEAT ALL . REPEAT 1 No indication . (off) VCD CONTROL Image: 03 Image:
	REPEAT ALL: All the tracks are played repeatedly.
	REPEAT 1: The current track is played repeatedly.
	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 reprint to stop playback and then specify any track number by using the numeric buttons. To turn off the on encoded display.
	 To turn off the on-screen display Press 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 repeatedly until [REPEAT] returns to its original color.



To repeat a desired part [A-B REPEAT]

During playback



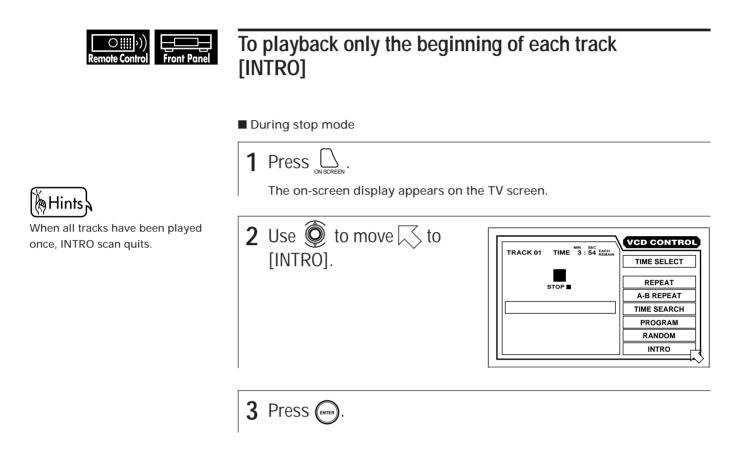
■ The unit locates "A" and starts repeat playback between "A" and "B."



- To turn off the on-screen display Press $\bigcap_{\text{ON SCREEN}}$.
- To cancel A-B repeat
 Move to [A-B REPEAT] in the on screen display and press 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.



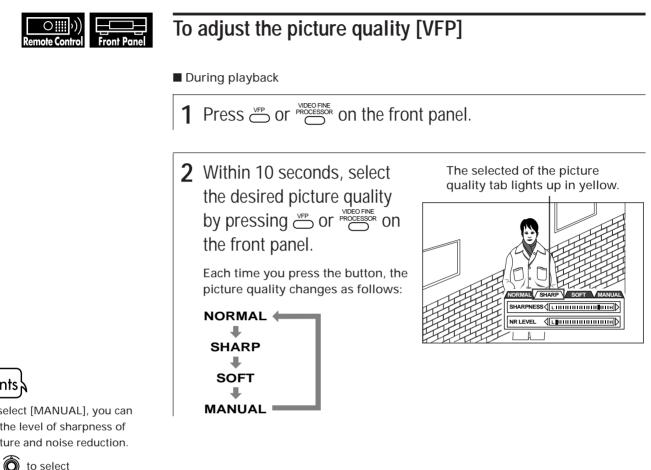
The first 10 seconds of each track on a disc are played back in numerical order from the first track.





Adjusting the picture and sound to suit preferences

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





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 (O) to adjust the level.

NOTES

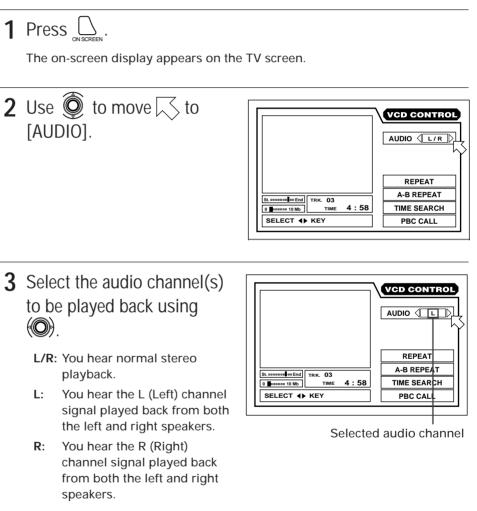
- To erase the VFP screen, press
- The VFP screen disappears if there are no operations for more than 10 seconds.



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



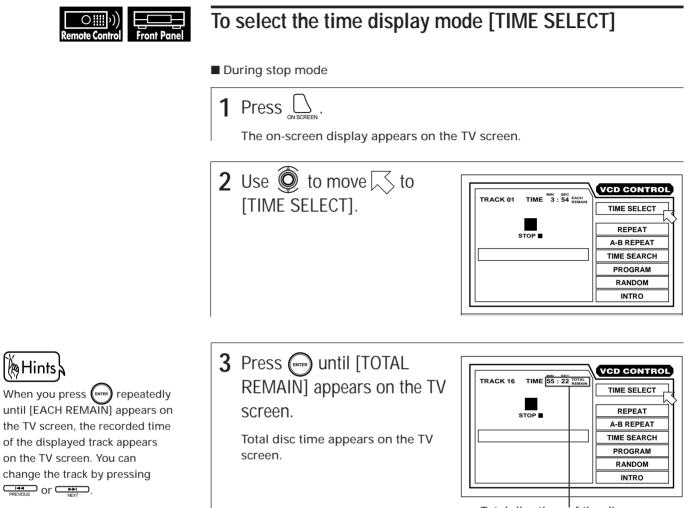






Checking the total disc time

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



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.

Table of contents of this chapter

Care and handling of discs	90
Troubleshooting	91
AV COMPU LINK remote control system	
Connection and setup	92
Operation	93
Specifications	94
Table of languages and their abbreviations	95

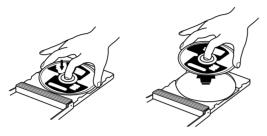
Introduction

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	MONITOR TYPE is not correctly set.	Select monitor type correctly. (See page 53).
television screen.	Television is not correctly set.	Set the television correctly.
Operation is not possible	Microcomputer malfunctions due to lightning or static electricity.	Turn off the power and unplug the power cord, then connect the power cord again.
	Moisture condensation occurs by a sudden change of temperature or humidity.	Turn off the power, then turn it on a few hours later.

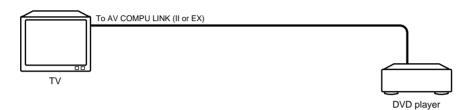
Additional information

AV COMPU LINK remote control system

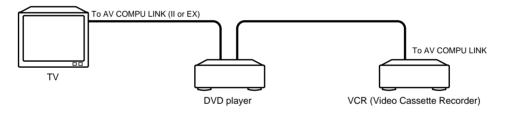
When you buy a separate TV, VCR, DVD player, receiver, or other components and connect them to each other, you have to operate each component individually. JVC's AV COMPU LINK remote control system meets the demand for a system made up of single components and has the ease of operation of a single unit.

Connection and Setup

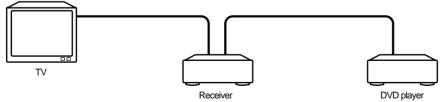
• Using the AV COMPU LINK cable, connect the AV COMPU LINK terminals of each component to one another.



- 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



- 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



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

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 \blacktriangleright 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: Video format: DVD VIDEO, Audio CD, Video CD NTSC color

Other

Power requirements:AC 120V \sim , 60HzPower 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 mm17-3/16 x 4-7/16 x 13-1/4 inch

Video output

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

Audio output

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

Audio characteristics

Frequency response:	CD	(sampling frequency 44.1 kHz):	2 Hz to 20 kHz
	DVD	(sampling frequency 48 kHz):	2 Hz to 22 kHz
	DVD	(sampling frequency 96 kHz):	2 Hz to 44 kHz
Dynamic range:	16 bit: N	Nore than 98 dB	
	20 bit: N	Nore than 106 dB	
	24 bit: N	Nore than 106 dB	
Wow and flutter:	Unmea	surable (less than ± 0.002%)	
Total harmonic distortion:	Less that	an 0.002%	

* Specifications and appearance subject to change without prior notice.

Table of languages and their abbreviations

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

AA	Afar
AB	Abkhazian
AF	Afrikaans
AM	Ameharic
AR	Arabic
AS	Assamese
AY	Aymara
AZ	Azerbaijani
BA	Bashkir
BE	Byelorussian
BG	Bulgarian
BH	Bihari
BI	Bislama
BN	Bengali, Bangla
BO	Tibetan
BR	Breton
CA	Catalan
CO	Corsican
CS	Czech
CY	Welsh
DA	Danish
DZ	Bhutani
EL	Greek
EO	Esperanto
ET	Estonian
EU	Basque
FA	Persian
FI	Finnish
FJ	Fiji
FO	Faroese
FY	Frisian
GA	lrish
GD	Scots Gaelic
GL	Galician
GN	Guarani
GU	Gujarati
HA	Hausa
HI	Hindi
HR	Croatian
HU	Hungarian
HY	Armenian
IA	Interlingua
IE	Interlingue

IK	Inupiak
IN	Indonesian
IS	Icelandic
IW	Hebrew
JI	Yiddish
JW	Javanese
KA	Georgian
KK	Kazakh
KL	Greenlandic
KM	Cambodian
KN	Kannada
KO	Korean (KOR)
KS	Kashmiri
KU	Kurdish
KY	Kirghiz
LA	Latin
LN	Lingala
LO	Laothian
LO LT	Lithuanian
LV	Latvian, Lettish
MG	Malagasy
MI	Maori
MK	Macedonian
ML	Malayalam
MN	Mongolian
MO	Moldavian
MR	Marathi
MS	Malay (MAY)
MT	Maltese
MY	Burmese
NA	Nauru
NE	Nepali
NL	Dutch
NO	Norwegian
OC	Occitan
OM	(Afan) Oromo
OR	Oriya
PA	Panjabi
PL	Polish
PS	Pashto, Pushto
PT	Portuguese
QU	Quechua
RM	Rhaeto-Romance

RN	Kirundi
RO	Rumanian
RU	Russian
RW	Kinyarwanda
SA	Sanskrit
SD	Sindhi
SG	Sangho
SH	Serbo-Croatian
SI	Singhalese
SK	Slovak
SL	Slovenian
SM	Samoan
SN	Shona
SO	Somali
SQ SQ	Albanian
SR	Serbian
SS	Siswati
ST	Sesotho
SU	Sundanese
SV	Swedish
SW	Swahili
TA	Tamil
TE	Telugu
TG	Tajik
ТН	Thai
TI	Tigrinya
ТК	Turkmen
TL	Tagalog
	Setswana
TO	
TR	Tonga Turkish
TS	Tsonga
TT	Tatar
TW	Twi
UK	Ukrainian
UR	Urdu
UZ	Uzbek
-	
VI VO	Vietnamese Volapuk
WO	Wolof
XH	Xhosa
YO	Yoruba
ZU	Zulu
	2010

Country code list for parental lock

This list is used for the parental Lock operation. For details, see page 58.

AD	Andorra
AE	United Arab Emirates
AF	Afghanistan
AG	Antigua and Barbuda
AI	Anguilla
AL	Albania
AM	Armenia
AN	Netherlands Antilles
AO	Angola
AQ	Antarctica
AR	Argentina
AS	American Samoa
AT	Austria
AU	Australia
AW	Aruba
AZ	Azerbaijan
BA	Bosnia and Herzegovina
BB	Barbados
BD	Bangladesh
BE	Belgium
BF	Burkina Faso
BG	Bulgaria
BH	Bahrain
BI	Burundi
BJ	Benin
BM	Bermuda
BN	Brunei Darussalam
BO	Bolivia
BR	Brazil
BS	Bahamas
BT	Bhutan
BV	Bouvet Island
BW	Botswana
BY	Belarus
BZ	Belize
СА	Canada
СС	Cocos (Keeling) Islands
CF	Central African Republic
CG	Congo
СН	Switzerland
CI	Côte d'Ivoire
СК	Cook Islands
CL	Chile

СМ	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CU	Cuba
CV	Cape Verde
СХ	Christmas Island
СҮ	Cyprus
CZ	Czech Republic
DE	Germany
DJ	Djibouti
DK	Denmark
DM	Dominica
DO	Dominican Republic
DZ	Algeria
EC	Ecuador
EE	Estonia
EG	Egypt
EH	Western Sahara
ER	Eritrea
ES	Spain
ET	Ethiopia
FI	Finland
FJ	Fiji
FK	Falkland Islands
	(Malvinas)
FM	Micronesia
	(Fedelated States of)
FO	Faroe Islands
FR	France
FX	France, Metropolitan
GA	Gabon
GB	United Kingdom
GD	Grenada
GE	Georgia
GF	French Guiana
GH	Ghana
GI	Gibraltar
GL	Greenland
GM	Gambia
GN	Guinea
GP	Guadeloupe
GQ	Equatorial Guinea

GR	Croose			
	Greece			
GS	South Georgia and the			
	South Sandwich Islands			
GT	Guatemala			
GU	Guam			
GW	Guinea-Bissau			
GY	Guyana			
НК	Hong Kong			
HM	Heard Island and			
	McDonald Islands			
HN	Honduras			
HR	Croatia			
HT	Haiti			
HU	Hungary			
ID	Indonesia			
IE	Ireland			
IL	Israel			
IN	India			
10	British Indian Ocean			
	Territory			
IQ	Iraq			
IR	Iran (Islamic Republic of)			
IS	Iceland			
IT	Italy			
JM	Jamaica			
JO	Jordan			
JP	Japan			
KE	Kenya			
KG	Kyrgyzstan			
КН	Cambodia			
KI	Kiribati			
KM	Comoros			
KN	Saint Kitts and Nevis			
KP	Korea, Democratic			
	People's Republic of			
KR	Korea, Republic of			
KW	Kuwait			
KVV				
KZ	Cayman Islands Kazakhstan			
	Lao People's Democratic			
	Republic			
	Lebanon			
LB LC	Saint Lucia			

LI	Liechtenstein			
LK	Sri Lanka			
LR	Liberia			
LS	Lesotho			
LT	Lithuania			
LU	Luxembourg			
LV	Latvia			
LY	Libyan Arab Jamahiriya			
MA	Morocco			
MC	Monaco			
MD	Moldova, Republic of			
MG	Madagascar			
MH	Marshall Islands			
ML	Mali			
MM	Myanmar			
MN	Mongolia			
MO	Macau			
MP	Northern Mariana			
	Islands			
MQ	Martinique			
MR	Mauritania			
MS	Montserrat			
MT	Malta			
MU	Mauritius			
MV	Maldives			
MW	Malawi			
MX	Mexico			
MY	Malaysia			
MZ	Mozambique			
NA	Namibia			
NC	New Caledonia			
NE	Niger			
NF	Norfolk Island			
NG	Nigeria			
NI	Nicaragua			
NL	Netherlands			
NO	Norway			
NP	Nepal			
NR	Nauru			
NU	Niue			
NZ	New Zealand			
OM	Oman			
PA	Panama			

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PE	Peru			
PF	French Polynesia			
PG	Papua New Guinea			
PH	Philippines			
PK	Pakistan			
PL	Poland			
PM	Saint Pierre and			
	Miquelon			
PN	Pitcairn			
PR	Puerto Rico			
PT	Portugal			
PW	Palau			
PY	Paraguay			
QA	Qatar			
RE	Réunion			
RO	Romania			
RU	Russian Federation			
RW	Rwanda			
SA	Saudi Arabia			
SB	Solomon Islands			
SC	Seychelles			
SD	Sudan			
SE	Sweden			
SG	Singapore			
SH	Saint Helena			
SI	Slovenia			
SJ	Svalbard and Jan Mayen			
SK	Slovakia			
SL	Sierra Leone			
SM	San Marino			
SN	Senegal			
SO	Somalia			
SR	Suriname			
ST	Sao Tome and Principe			
SV	El Salvador			
SY	Syrian Arab Republic			
SZ	Synan Arab Republic Swaziland			
TC	Turks and Caicos Islands			
TD	Chad			
TF	French Southern			
	Territories			
TG	Togo			
ТН	Thailand			
	manana			

TJ	Tajikistan			
ТК	Tokelau			
TM	Turkmenistan			
TN	Tunisia			
ТО	Tonga			
TP	East Timor			
TR	Turkey			
TT	Trinidad and Tobago			
TV	Tuvalu			
TW	Taiwan, Province of			
	China			
TZ	Tanzania, United			
	Republic of			
UA	Ukraine			
UG	Uganda			
UM	United States Minor			
	Outlying Islands			
US	United States			
UY	Uruguay			
UZ	Uzbekistan			
VA	Vatican City State			
	(Holy See)			
VC	Saint Vincent and the			
	Grenadines			
VE	Venezuela			
VG	Virgin Islands (British)			
VI	Virgin Islands (U.S.)			
VN	Viet Nam			
VU	Vanuatu			
WF	Wallis and Futuna			
	Islands			
WS	Samoa			
YE	Yemen			
YT	Mayotte			
YU	Yugoslavia			
ZA	South Africa			
ZM	Zambia			
ZR	Zaire			
ZW	Zimbabwe			
L	1			



HOW TO LOCATE YOUR JVC SERVICE CENTER

TOLL FREE : 1-800-537-5722 http://www.jvcservice.com

Dear customer:

In order to receive the most satisfaction from your purchase, read the instruction booklet before operating the unit. In the event that repair is necessary, or for the address nearest your location, please refer to the factory service center list below or within the Continental United States, Call 1-800-537—5722 for your authorized servicer. Remember to retain you Bill of Sale for Warranty Service.

—JVC

JVC SERVICE & ENGINEERING -COMPANY OF AMERICA DIVISION OF US JVC CORP.

FACTORY SERVICE CENTER LOCATIONS

107 Little Falls Road Fairfield, NJ 07004-2105 (973) 808-9279

5665 Corporate Avenue Cypress, CA 90630-0024 (714) 229-8011

230 Eliot Street Ashland, MA 01721-2377 (508) 881-5923 1500 Lakes Parkway Lawrenceville, GA 30243-5857 (770) 339-2522

2969 Mapunapuna Place Honolulu, HI 96819-2040 (808) 833-5828

8192 State Road 84 Davie, FL 33324 (954) 472-1960 705 Enterprise Street Aurora, IL 60504-8149 (630) 851-7855

10700 Hammerly, Suite 110 Houston, TX 77043 (713) 935-9331

890 Dubuque Avenue South San Francisco, CA 94080-1804 (650) 871-2666

Sophisticated electronic products may require occasional service. Just as quality is a keyword in the engineering and production of the wide array of JVC products, service is the key to maintaining the high level of performance for which JVC is world famous. The JVC service and engineering organization stands behind our products.

NATIONAL HEADQUARTERS JVC SERVICE & ENGINEERING COMPANY OF AMERICA DIVISION OF US JVC CORP. 107 Little Falls Road Fairfield, NJ 07004-2105

If you ship the product ••• -

Pack your JVC unit in the original carton or one of equivalent size and strength. Enclose, with the unit, a letter stating the problem or symptom that exists and also a copy of the receipt or bill of sale you received when you purchased your JVC unit. Print your home return address on the outside and the inside of the carton. Send to the appropriate JVC Factory Service Center as listed above.

Don't service it yourself.

CAUTION

To prevent electrical shock, do not open the cabinet. No user serviceable parts inside. Refer servicing to qualified service personnel.

ACCESSORIES

To purchase accessories for your JVC product, you may contact your local JVC Dealer. Or from the 48 Continental United States call toll free : 800-882-2345

JVC	LIMITED W	/ARRANTY	CONSUMER VIDEO 1-90
JVC COMPANY OF AMERICA warra PURCHASER AT RETAIL to be FREE burchase for the period as shown belo	FROM DEFECTIVE MAT	ERIAL AND WORKMANSH	
	PARTS 1 YRS	LABOR 90 DAYS	
HIS LIMITED WARRANTY IS VALID		UNITED STATES, THE DI	STRICT OF COLUMBIA AND IN
	all be rendered by JVC du ranted only for the remain e center on a carry-in basis	ring normal business hours der of the Warranty Period.	
VHAT YOU MUST DO FOR WARRAN Return your product to a JVC auth service center, please call toll free: If service is not available locally, bo your bill of sale plus and letter of ex of which will be given to you by the If you have any questions concernir	norized service center with (800)537-5722. x the product carefully, pre- planation of the problem to toll-free number.	eferably in the original carto the nearest JVC Factory	on, and ship, insured, with a copy of Service Center, the name and location
 VHAT IS NOT COVERED: This limited warranty provided by JN 1. Products which have been subjet installation, lack of reasonable crender such service, or if affixed been altered, tampered with, delivered. 	ect to abuse, accident, alte are, or if repaired or servic to any attachment not pro	ed by anyone other than a	ring, negligence, misuse, faulty service facility authorized by JVC to if the model or serial number has
2. Initial installation and installation	and removal for repair;		
3. Operational adjustments covered	d in the Owner's Manual, r	normal maintenance, video	and audio head cleaning;
4. Damage that occurs in shipment	, due to act of God, and co	osmetic damage;	
5. Signal reception problems and fa		-	
 Video Pick-up Tubes/CCD Imag 			00 days from the date of purchase:
 Accessories; 			
	ble Defferier en en en el		(much a s a)
8. Batteries (except the Rechargea		for 90 days from the date of	of purchase);
There are no express warranties ex	cept as listed above.		
THE DURATION OF ANY IMPLIE LIMITED TO THE DURATION OF T			RANTY OF MARCHANTABILITY, IS
	NCIDENTAL OR CONSEC SULTING FROM THE US	QUENTIAL (INCLUDING, W SE OF THIS PRODUCT, O ANTIES, INCLUDING THE	VITHOUT LIMITATION, DAMAGE TO R ARISING OUT OF ANY BREACH E WARRANTIES OF
Some states do not allow the excl warranty last, so these limitations o may also have other rights which va	r exclusions may not apply		
	PANY OF AMERICA OF US JVC CORP.	41 Slater D Elmwood Park, New	
* * * * * * * * * * * * * * REFURBISHED PRODUCTS CARR REFURBISHED PRODUCT WARRAN PACKAGED WITH EACH REFURBISH	TY, PLEASE REFER TO ⁻		
For customer use:			
Enter below the Model No. and S information for future reference.	Serial No. which is located	either on the rear, bottom	or side of the cabinet. Retain this
Model No.:		Serial No.:	
Purchase date: Name of dealer:			





