

XV-K505GD/XV-K503TN
LET0143-003A
[2U, 3U, 4U, US, UB, UT]

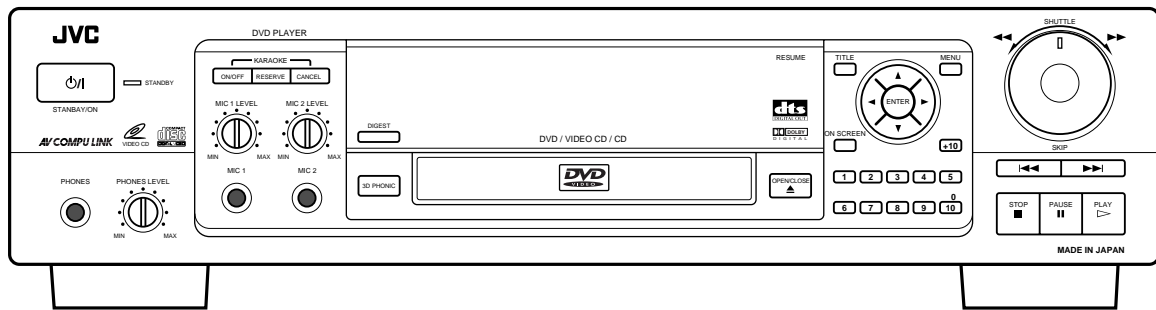
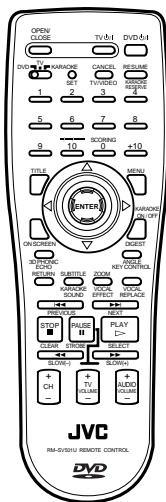


JVC



DVD PLAYER

XV-K505GD/XV-K503TN



INSTRUCTIONS

For Customer Use:

Enter below the Model No. and Serial No. which are located on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

LET0143-003A
[2U, 3U, 4U, US, UB, UT]



Warnings, Cautions and Others
Avisos, precauciones y otras notas
Advertências, precauções e outras notas
警告，注意及其他須知事項
تحذيرات وتنبيهات وغير ذلك

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.

PRECAUCIÓN

Para reducir riesgos de choques eléctricos, incendio, etc.:

1. No extraiga los tornillos, los cubiertas ni la caja.
2. No exponga este aparato a la lluvia o a la humedad.

ATENÇÃO

Para reduzir riscos de choques eléctricos, incêndio, etc.:

1. Não retire parafusos nem desmonte as tampas ou o gabinete.
2. Não exponha este aparelho à chuva nem à umidade.

تنبيه

لتقليل خطر وقوع صدمات كهربائية أو حريق الخ:

١. لا تنزع البراغي أو الأغطية أو الهيكل.
٢. لا تعرض هذا الجهاز للمطر أو البلل.

注意

為了減低觸電，火災等危險：

1. 請勿擅自卸下螺絲釘，蓋子或機殼。
2. 切勿讓本機受雨淋或置潮濕環境中。

警告：

為了防止火災以及觸電，請勿讓本機淋雨受潮。

Caution — \odot/I button!

Disconnect the mains plug to shut the power off completely. The \odot/I button in any position does not disconnect the mains line. The power can be remote controlled.

¡Atención — botón \odot/I !

Desconectar el cable de alimentación para desactivar la alimentación totalmente. Cualquier que sea la posición de ajuste del botón \odot/I , la alimentación no es cortada completamente. La alimentación puede ser controlada remotamente.

Atenção — botão \odot/I !

Desconecte o plugue principal para interromper a energia completamente. O botão \odot/I em qualquer posição não desconecta a linha principal. A energia pode ser controlada remotamente.

تنبيه — الزر \odot/I !

إفصل قابس سلك التيار لفصل التيار تماماً.

الزر \odot/I في أي وضع كان لا يفصل التيار الكهربائي تماماً. يمكن التحكم في التيار عن بعد.

注意 — \odot/I 按鍵

無論 \odot/I 按鍵在任何位置，電源線的電源還是沒有被切斷，若要將電源完全關閉，應把電源插頭拔離插座。電源可用遙控器控制。

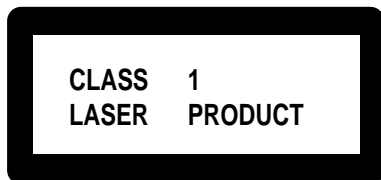


IMPORTANT FOR LASER PRODUCTS
IMPORTANTE PARA PRODUCTOS LÁSER
IMPOTANTE PARA PRODUTOS LASER
雷射產品的重要說明
هام بالنسبة لمنتجات الليزر

REPRODUCTION OF LABELS
REPRODUCCIÓN DE ETIQUETAS
REPRODUÇÃO DE ETIQUETAS
標籤內容說明
صور البطاقات

- ① CLASSIFICATION LABEL, PLACED ON REAR ENCLOSURE
① ETIQUETA DE CLASIFICACIÓN, PEGADA EN LA PARTE POSTERIOR DE LA CAJA
① ETIQUETA DE CLASSIFICAÇÃO LOCALIZADA NA PARTE POSTERIOR DA CAIXA DO APARELHO.
① 分類標籤，貼在機殼背後。
① بطاقة التصنيف، موضوعة على الهيكل من الخلف.

- ② WARNING LABEL, PLACED INSIDE THE UNIT
② ETIQUETA DE ADVERTENCIA, PEGADA EN EL INTERIOR DE LA UNIDAD
② ETIQUETA DE ADVERTÊNCIA LOCALIZADA NA PARTE INTERNA DA UNIDADE.
② 警告標籤，貼於機內。
② بطاقة تحذير، موضوعة داخل الجهاز.



CAUTION	-LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.
ATTENTION	-RAYONNEMENT LASER EN CAS D'OUVERTURE. NE PAS REGARDER DANS LE FAISCEAU.
VORSICHT	-LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT IN DEN STRAHL BLICKEN.
ADVARSEL	-LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN.
ADVARSEL	-LASERSTRÅLING NÅR DEKSEL ÅPNES. STIRR IKKE INN I STRÅLEN.
VARNING	-LASERSTRÅLNING NÅR DENNA DEL ÄR ÖPPNAD. STRÅRA EJ IN I STRÅLEN.
VARO!	AVATTAESSA OLET ALTTIINA LASERSÄTEILYLLE. ÄLÄ TUJOTA SÄTEESSEEN.
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まなしないでください。

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

1. PRODUCTO LÁSER CLASE 1
2. **PELIGRO:** En el interior hay radiación láser visible. Evite el contacto directo con el haz.
3. **PRECAUCIÓN:** No abra la tapa superior. En el interior de la unidad no existen piezas reparables por el usuario; deje todo servicio técnico en manos de personal calificado.

1. PRODUTO LASER CLASSE 1
2. **PERIGO:** O laser emite uma radiação visível que é perigosa, caso o aparelho esteja aberto e a trava inoperante ou danificada. Evite exposição direta ao feixe dos raios.
3. **CUIDADO:** Não abra a caixa do aparelho. Não existem peças reparáveis pelo usuário na parte interna da unidade. Solicite assistência técnica somente a pessoal técnico qualificado.

1. 一級雷射產品
2. 危險：當內部鎖定裝置失效或者損壞後，打開蓋板可能會產生可見的雷射輻射。應避免受到光束直接照射。
3. 注意：請勿打開頂蓋板。本機內部沒有用戶可自行維修的部件；所有維修工作應由有資格的人員完成。

1. جهاز ليزر من الفئة 1 CLASS 1 LASER PRODUCT
2. خطر: أشعة الليزر عرضة للرؤية عند الفتح وإخفاق التأمين الداخلي أو تعطله. تجنب التعرض المباشر للشعاع.
3. تنبيه: لا تفتح الغطاء العلوي. لا توجد أجزاء يمكن للمستخدم أن يصلحها بنفسه داخل الجهاز. اترك جميع أعمال الصيانة للفنيين المختصين.



Caution: Proper Ventilation

To avoid risk of electric shock and fire and to protect from damage. Locate the apparatus as follows:

- Front: No obstructions open spacing.
Sides: No obstructions in 3 cm from the sides.
Top: No obstructions in 5 cm from the top.
Back: No obstructions in 15 cm from the back.
Bottom: No obstructions, place on the level surface.

Precaución: Ventilación Adecuada

Para evitar el riesgo de choque eléctrico e incendio y para proteger el aparato contra daños.

Ubique el aparato de la siguiente manera:

- Frente: Espacio abierto sin obstrucciones
Lados: 3 cm sin obstrucciones a los lados
Parte superior: 5 cm sin obstrucciones en la parte superior
Parte trasera: 15 cm sin obstrucciones en la parte trasera
Fondo: Sin obstrucciones, colóquelo sobre una superficie nivelada

Precaução: ventilação apropriada

Para prevenir o risco de choque elétrico ou incêndio e para proteger o aparelho contra danos.

Localize-o da seguinte maneira:

- Frente: Espaço aberto, sem obstruções
Lados: Espaço de 3 cm sem obstruções nos lados
Topo: Espaço de 5 cm sem obstruções acima
Atrás: Espaço de 15 cm sem obstruções atrás
Parte inferior: Sem obstruções. Coloque o aparelho em superfície nivelada.

注意：正確的通風方法

爲了防止觸電、火災以及避免損壞，

按如下要求放置機器：

- 前面：留下空間不要放置障礙物。
側面：側面的 3cm之內不要放置障礙物。
上面：上面的 5cm之內不要放置障礙物。
背面：背面的 15cm之內不要放置障礙物。
底部：不要放置障礙物，水平放置。

تنبيه: التهوية الكافية

لتفادي خطر الصدمات الكهربائية والحريق وللحماية من التلف،

قم باختيار موضع تركيب الجهاز كما يلي:

- الأمم: حينئذٍ مفتوح مع عدم وجود عوائق.
الجانبان: عدم وجود عوائق حتى مسافة 3 سم من كل جانب.
الأعلى: عدم وجود عوائق حتى مسافة 5 سم من أعلى.
الخلف: عدم وجود عوائق حتى مسافة 15 سم من الخلف.
الأسفل: ضعه على سطح مستوٍ مع عدم وجود عوائق.



Using the instructions

The instructions basically explain operations as follows:

The number indicates the procedural step. The on-screen display displayed during the operation.

DVD VIDEO Operations

Changing the language and sound

You can operate from the front panel.

You can operate with the remote control unit.

Short cuts:
Procedures that you can shorten.

Short cuts
Press and select the desired subtitle by using .

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

Hints
When you select the language, if the abbreviation appears on the TV screen, select the abbreviation corresponding to the desired language. For details on abbreviations, see the end of this instruction.

To select the subtitle language [SUBTITLE]

■ During playback

- 1 Press .
- 2 Use to move to [SUBTITLE].
- 3 Use to select the desired Subtitle.

Each time you use , the subtitle changes.

Example:

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

DVD CONTROL

Total number

Selected subtitle number

Selected subtitle

NOTE

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

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Introduction



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Notes on care and handling

Important cautions

Installation of the unit

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

Power cord

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

To prevent malfunction of the unit

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

Note about copyright laws

- Please check the copyright laws in your country to record from DVD VIDEO, Audio CD, Video CD discs. Recording of copyrighted material may infringe copyright laws.

Note about the copyguard system

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

Safety precautions

Avoid moisture, water and dust

Do not place your player in moist or dusty places.

Avoid high temperatures

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

When you're away

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

Do not insert foreign objects into the unit

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

Do not block the vents

Blocking the vents may damage the unit.

Care of the cabinet

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

If water gets inside the unit

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

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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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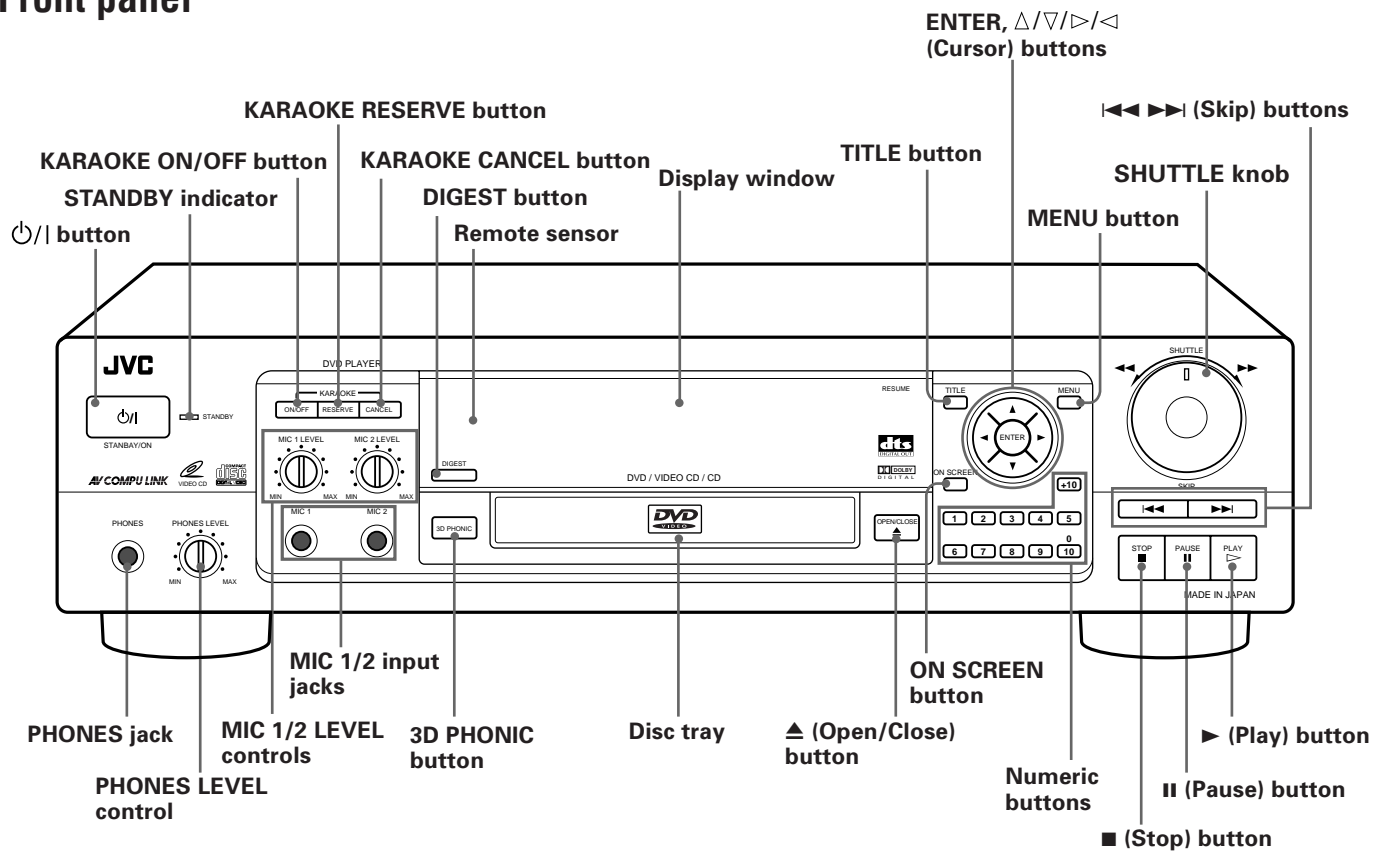


Preliminary knowledge

Names of parts and controls

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

Front panel



3D PHONIC button (29)

Get a simulated surround effect.

Disc tray (25)

Used to load discs.

Display window

Indicates the current status of the unit.

DIGEST button (37, 74)

Display beginning scenes of each title, chapter, or track on the TV screen.

ENTER button

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

KARAOKE CANCEL button (87)

Cancel reserved songs.

KARAOKE ON/OFF button (for Karaoke) (86)

Turns the Karaoke function on/off.

KARAOKE RESERVE button (87)

Reserve the songs for karaoke.

MENU button (32)

Displays a menu of DVD on the TV screen or monitor.

MIC 1/2 input jacks (86)

Connection jacks for microphones.

MIC 1/2 LEVEL control (91)

Adjusts the volume level of microphones connected to the MIC 1/2 input jacks.

Numeric buttons (30)

Reserve songs for karaoke.

ON SCREEN button (10)

Displays an on-screen display of the unit on the TV screen or monitor.

PHONES jack

Connection jack for headphones.

PHONES LEVEL control

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

Remote sensor

Senses the signal from the remote control unit.

SHUTTLE knob (27, 38, 75)

Performs fast forward/backward and slow motion playback.

STANDBY indicator

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

TITLE button (32)

Displays a title menu on the TV screen or monitor.

Δ/∇/▷/◁ (Cursor) buttons

Selects an item in on-screen displays or menus.

▲ (Open/Close) button (25)

Opens and closes the disc tray.

▶ (Play) button (26)

Starts playback. Also, used as a SELECT button for PBC of Video CD.

▬ (Pause) button (27)

Pauses during playback.

◀▶ (Skip) button (27, 60, 71)

Performs skip or previous/next.

■ (Stop) button (26)

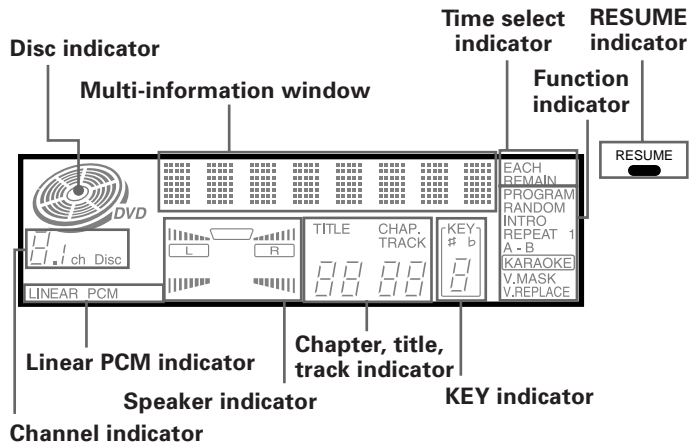
Stops playback.

⏻/⏻ (Standby/On) button (21)

Turns the unit on or off (standby).



Display window



Channel indicator

Displays number of channels in the currently selected audio Playback format.

Chapter, title, track indicator

Displays chapter, title, or track number.

Disc indicator

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

Function indicator (PROGRAM, RANDOM, INTRO, REPEAT, KARAOKE, V.MASK, V.REPLACE)

Activated function indicators light up.

KEY indicator

Displays the selected key number.

Multi-information window

Displays time, text, and additional information.

RESUME indicator

Lights when a point to be resumed from is stored.

Linear PCM indicator

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

Speaker indicator

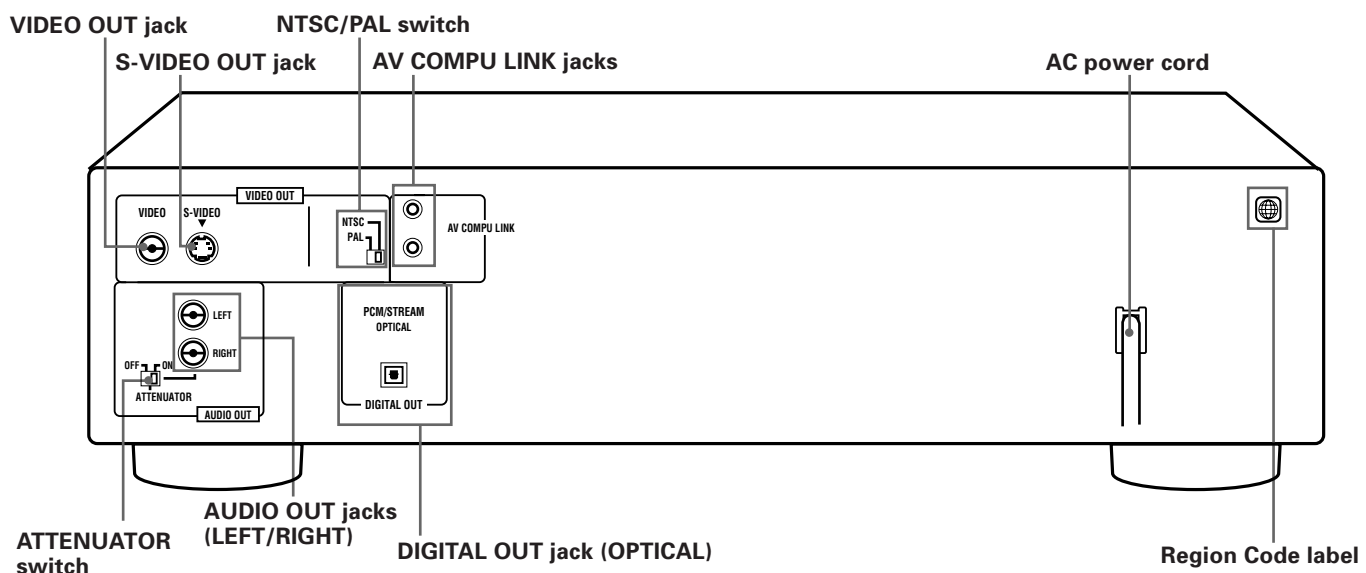
Lights during disc playback. lights when signals are output from the video output jacks. When the 3D PHONIC function is ON, also lights.

Time select indicator

Shows what the time information in the Multi-information window means.

Preliminary knowledge

Rear panel



AC power cord (19)

Connects to the wall outlet.

ATTENUATOR switch (16)

Attenuates the output level when it is set to ON.

AUDIO OUT jacks (LEFT/RIGHT) (16, 17, 18)

Outputs stereo analog audio signals.

AV COMPU LINK jacks (98)

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

DIGITAL OUT jack (OPTICAL) (18)

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

NTSC/PAL switch

Select NTSC or PAL according to the color system of your TV.

Region Code label (13)

Shows Region Code number.

S-VIDEO OUT jack (16)

Outputs an S-video signal.

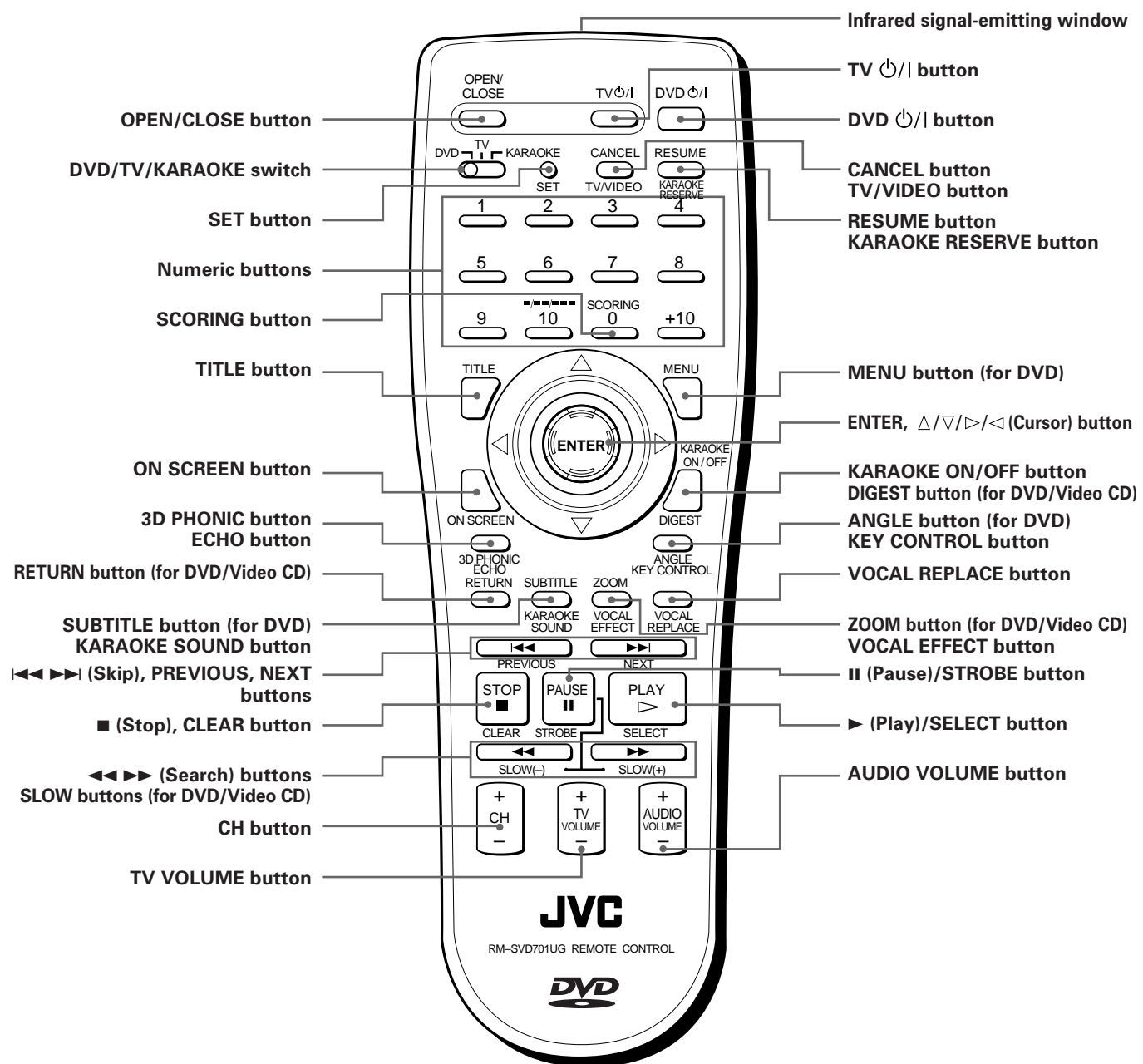
VIDEO OUT jack (16)

Outputs a composite video signal.



Preliminary knowledge

Remote control unit





3D PHONIC button (29)

Produces a simulated surround effect.

ANGLE button (for DVD) (42)

Changes camera angles during playback of a DVD containing multiple camera angles.

AUDIO VOLUME button (26)

Adjusts the volume of a JVC AV amplifier or receiver.

CANCEL button (62, 87)

Cancels the previous settings.

CH button (22)

Changes the channels of TV or CATV converter/satellite tuner.

CLEAR button


Clears the selected item.

DIGEST button (for DVD/Video CD) (37, 34)

Display beginning scenes of each title, chapter, or track on the TV screen.

DVD/TV/KARAOKE switch (24)

Selects the function of the buttons on the remote control unit to control the corresponding one.

DVD  button (24)

Turns the unit on or off (standby).

ECHO button (91)

Adds the echo effects to your voice.

ENTER, //▶/◀ (Cursor) button

Executes a selected item in a menu or on-screen display when pressing the button. Selects an item in the on-screen display or title menus or menus of DVD when tilting.

Infrared signal-emitting window

Point this window toward the remote sensor on the front panel when pressing buttons.

KARAOKE ON/OFF button (86)

Turns the Karaoke function on/off.

KARAOKE RESERVE button (87)

Reserve the songs for karaoke.

KARAOKE SOUND button (89)

Select the KARAOKE sound.

KEY CONTROL button (93)

Change the key of songs.

MENU button (for DVD) (32)

Displays a menu of DVD on the TV screen or monitor.

NEXT button (for DVD/Video CD) (27)

Performs "next" operation.

Numeric buttons (30)

Depending on the selection of the DVD/TV/KARAOKE switch, they are used for entering a title, track or chapter number, selecting a TV channel, reserving songs for karaoke.

ON SCREEN button (10)

Displays an on-screen display of the player on the TV screen or monitor.

OPEN/CLOSE button (25)

Opens and closes the disc tray.

PREVIOUS button (27)

Performs "previous" operation.

RESUME button (28)

Stores the location to resume playback from later.

RETURN button (for DVD/Video CD)

Returns to the previous menu.

SCORING button (for KARAOKE) (94)

Scores your voice.

SELECT button (for Video CD)

Selects the item.

SET button (22)

Used to set the manufacturer's code for operating another manufacturer's TV from the remote control unit.

SLOW button (for DVD/Video CD) (38, 75)

Starts slow-motion playback.

STROBE button (for DVD/Video CD) (38, 75)

Displays 9 still pictures on the TV screen.

SUBTITLE button (for DVD) (44)

Turns subtitles on or off.

TITLE button (32)

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 (22, 26)

Adjusts the TV volume.

TV  button (24)

Turns the TV on or off.

VOCAL EFFECT button (92)

Takes various effects on your voice.

VOCAL REPLACE button (90)

Masks the vocal part from the recorded source.

ZOOM button (for DVD/Video CD) (39, 76)

Scene in a close-up view.

|| (Pause) button (27)

Pauses during playback.

▶ (Play) button (26)

Starts playback.

◀◀▶▶ (Search) buttons (27)

Performs fast forward/backward playback operations.

◀◀▶▶ (Skip) buttons (27, 60, 71)

Performs skipping.

■ (Stop) button (26)

Stops playback.



Preliminary knowledge

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.

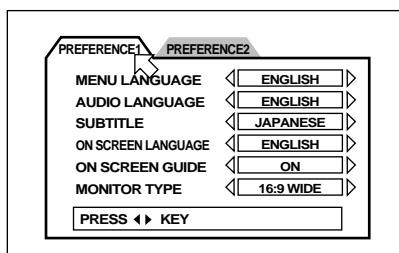
Basic operations in on-screen display

- With an item like , you can change the setting by placing on .
- - type item works when you place on the item and press .
- In the message box, the operation to be done is displayed according to the item pointed by .
- Numbers are entered using to , .
- Some functions become effective by pressing after specifying necessary entries.
- Pressing again exits the on-screen display.



Opening display

Appears when the unit turns on.

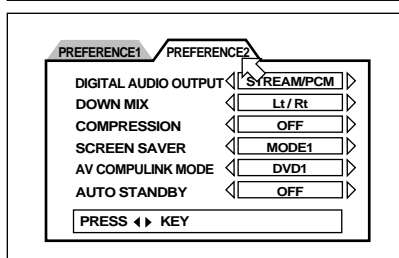


Preference displays (see page 48)

You can set preferences on these displays.

To display the Preference display

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



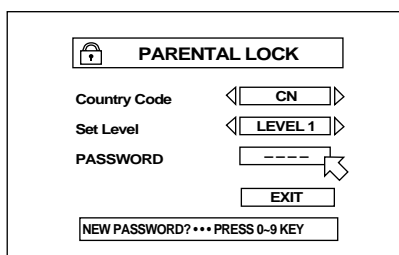
Parental Lock on-screen display (see page 56)

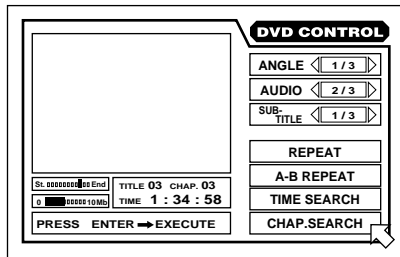
You can set the parental lock from this display.

To display the Parental Lock on-screen display

Press while holding down .

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






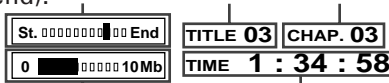
The DVD on-screen display during playback

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

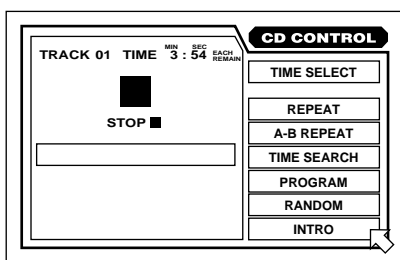
To display the DVD on-screen display

During DVD playback, press  .

Current relative position the title (St: start, End: end).
 Current title number
 Current chapter number
 Transmission rate
 Elapsed time from the beginning of the current title




Preliminary knowledge



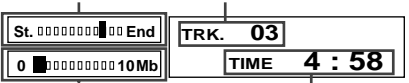
The CD on-screen display

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

To display the CD on-screen display

During Audio CD playback or stop mode, press  .


Current relative position of the track (St: start, End: end).
 Current track number
 Transmission rate
 Elapsed time from the beginning of the current track

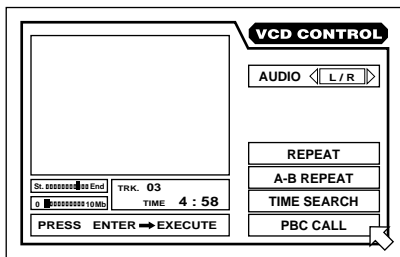


The Video CD on-screen display during playback

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

To display the Video CD on-screen display

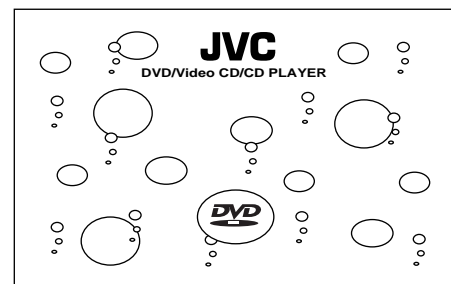
During Video CD playback or stop mode, press  .





To prevent the monitor from burning out [SCREEN SAVER]

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



- Pressing any button on the unit or the remote control unit will release the screen saver function and return to the previous display.
- You can select one of several screen saver pictures available (see page 54).
- When this function is set to "DIMMER", the display window on the panel always gets dark (FL Dimmer) in addition to the screen saver function (see page 54).

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 42.)





: Displayed at the beginning of a scene recorded with multiple audio languages. (See page 45.)



: Displayed at the beginning of a scene recorded with multiple subtitles language. (See page 44.)

You can set the unit not to display on-screen icons above via the preference settings described on page 51.

About invalid operation icon

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





Note that some operations may not be accepted. For example, some discs may not allow fast forward, fast backward or slow-motion playback.



Preliminary knowledge about discs

Playable disc types

Playable and non-playback disc types are as follows:

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

Preliminary knowledge

- Playing back discs listed as “Non-playable discs” in the table above may generate noise and damage speakers.

About the Region Code

- DVD players and DVD discs have their own Region Code numbers. The unit only can play back DVD discs whose Region Code numbers includes the unit’s Region Code, which is indicated on the region code symbol on the rear panel.



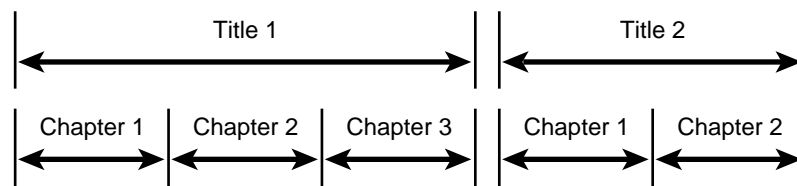
Disc construction

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

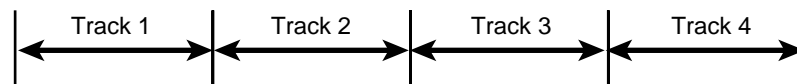
In the case of a DVD disc, "titles" and "chapters" are the units. a disc comprises "titles," and each title may be divided into some "chapters." Each title has an independent content, while each chapter in the same title has continuity. For example, if a disc contains some movies, each movie may have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

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

(Example: DVD disc)



(Example: Audio CD/Video CD)





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	16
To connect to a TV, monitor, or projector with the audio input and video input jacks	16
To connect to an audio amplifier or receiver	17
To connect to audio equipment with a digital input	18
■ Turn on the unit	
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Getting started

Connections

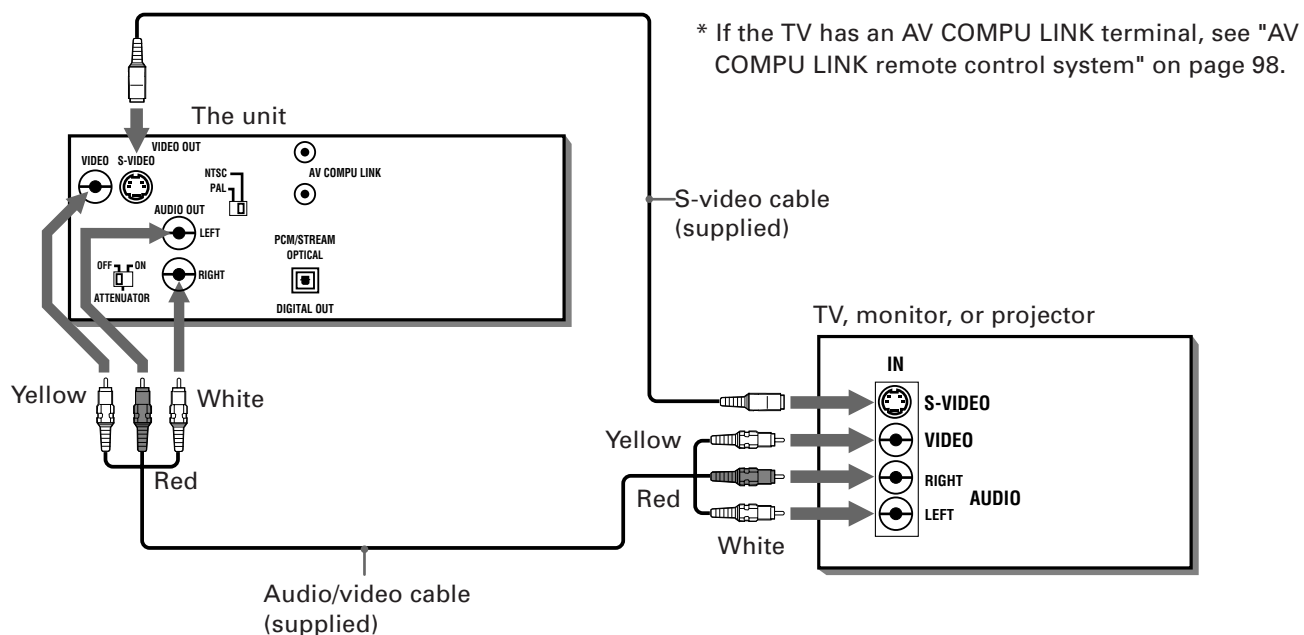
Before using the unit, you have to connect the unit to a TV or amplifier. By connecting to an amplifier which has a digital terminal or Dolby digital capability, you can enhance the sound quality.

Before making any connections

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



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



You can enjoy using the unit by simply connecting it to a television set. To hear improved audio sound quality, connect the audio outputs to your audio equipment. (See the following pages.)



Connect the unit to a television set equipped with stereo audio input and video input jacks using the supplied audio/video cables.

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

The unit is compatible with the PAL and NTSC color systems. Set  according to the color system of your TV, monitor, or projector. (Make sure the color system of the DVD disc labeled of the package. If you play the disc recorded on the different color system, the unit play it incorrectly. Use the disc recorded of the same color system.) When you use the multi-system TV, monitor, or projector, you can play the disc recorded on both the PAL and NTSC color systems. Set  according to the color system of the disc.

The  beside the AUDIO OUT jacks should be normally set to OFF. If you hear the audio distorted because the sensitivity of the TV's audio input is too high, set  to ON.

NOTE

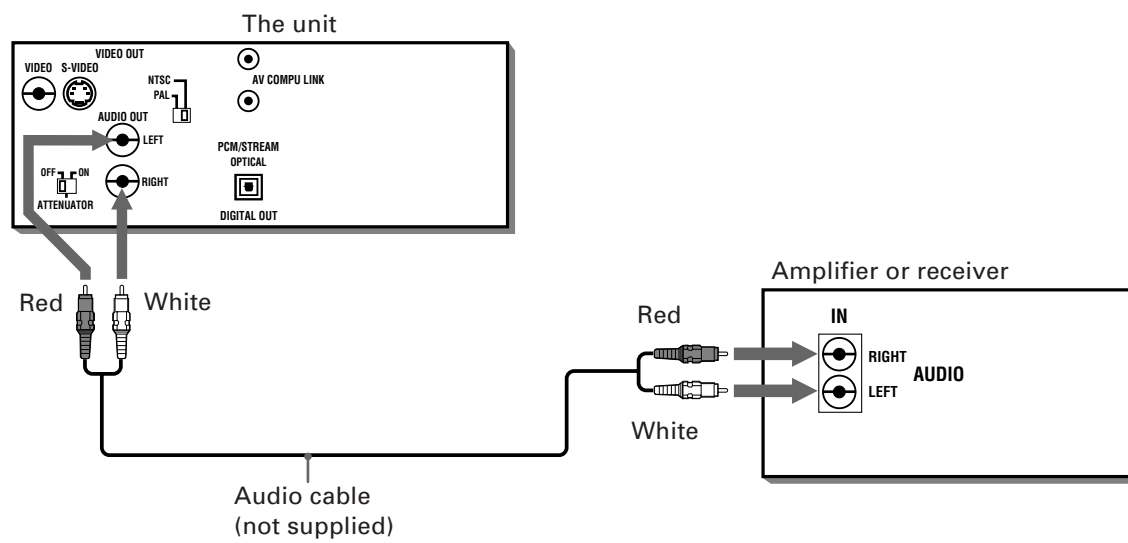
- Connect VIDEO OUT of the unit to the video input of a television set. Connecting VIDEO OUT of the unit to a TV via a VCR may cause a monitor problem when playing back a copy-protected disc.



To connect to 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.



Getting started

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

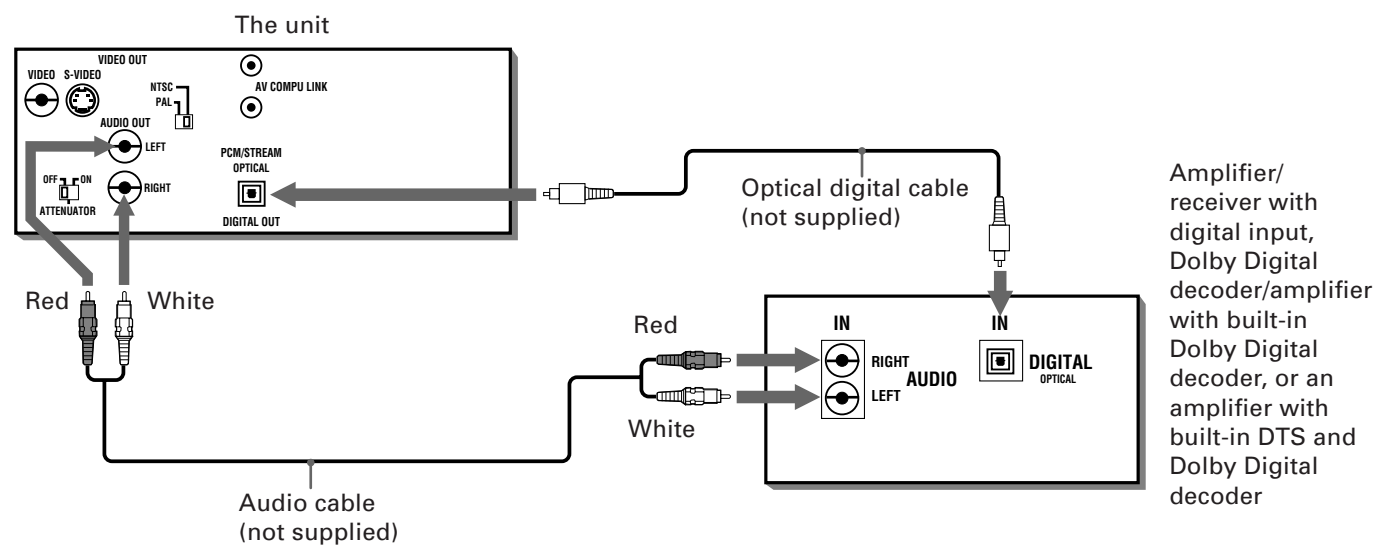


Getting started

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

- **DTS (Digital Theater System)**
DTS is a newly-developed surround system which can handle more amount of data than Dolby Digital, providing better audio quality.
Though the number of audio channels is 5.1 which is same as Dolby Digital, DTS provides fat sound and better signal-to-noise ratio, thanks to the lower audio compression ratio format. It also provides wide dynamic range and better separation, resulting magnificent sound.
- When you connect the audio equipment with a digital input, before using, change the "DIGITAL AUDIO OUTPUT" setting in the "PREFERENCE 2" on-screen display according to the connected audio equipment with a digital input. When the "DIGITAL AUDIO OUTPUT" setting is not set correctly, loud noise may be played back from speakers, and it cause of the breakdown of your speakers. See "DIGITAL AUDIO OUTPUT" on page 52.
- With this connection, the unit's settings for "COMPRESSION" and "DOWN MIX" in the "PREFERENCE 2" on screen display 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.

Warning

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

Caution

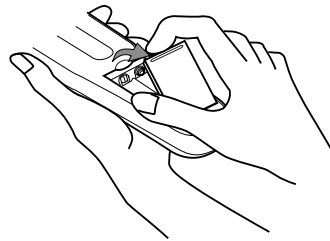
- Do not damage, remodel, twist, or pull the power cord, as this may cause fire, electric shock, or other accidents.
- Contact a dealer and get a new power cord if the cord is damaged. A damaged cord may cause fire, electric shock, or other accidents.
- Do not put anything heavy or the unit on the power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



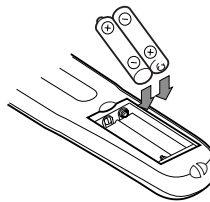
To install batteries in the remote control unit

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

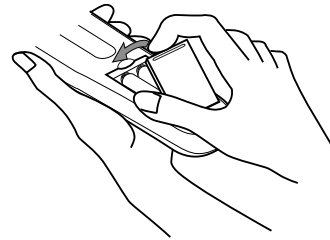
- 1 Press down on the point shown by the arrow at the top of the compartment cover, and pull up the cover to open the compartment.



- 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.

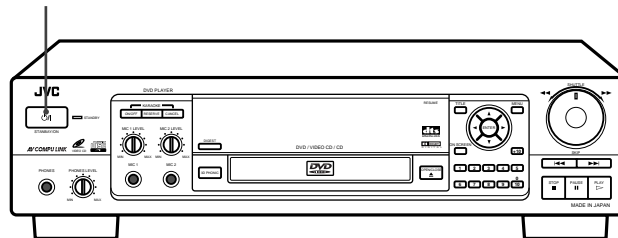






To turn on/off the unit



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

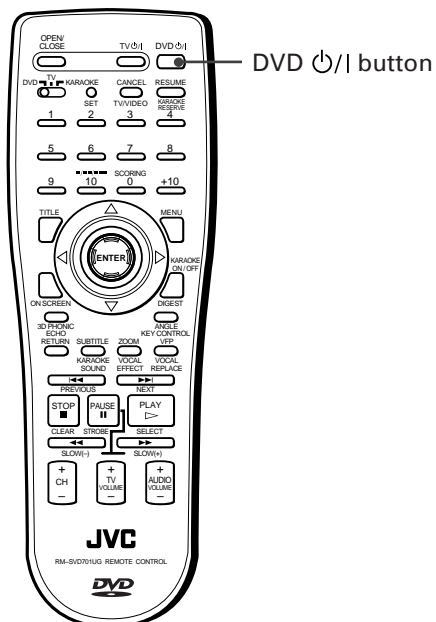
Power button





Hints

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

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



NOTE

- Even if you press  or  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.



Getting started

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 manufacturer'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 on the remote control unit to TV.
- 2 Press and hold , then press . Do not release . Keep holding until the next step is completed.
- 3 Holding , enter the manufacturer's code (two digits) using to . See the lists on the left to find the manufacturer's code.
- 4 Release .

The following buttons can be used for operating the TV:

	Turns the TV on or off.
	Change the TV channels. (with set to TV only)
	Adjusts the TV volume.
	Selects the TV channels. (with set to TV only)
	You can switch input mode (either TV or VIDEO). (with set to TV only)

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

Manufacturer code list

No.	Manufacturer
01	JVC
02	PANASONIC
03	SONY
04	SHARP
05	TOSHIBA
06	MITSUBISHI
07	HITACHI
08	SANYO
09	FUNAI
10	AIWA
11	DAEWOO
12	SAMSUNG
13	LG (GOLDSTAR)
14	THOMSON
15	FERGUSON
16	PHILIPS
17	GRUNDIG
18	ITT
19	MIVER
20	FINLUX
21	NOKIA
22	NEC
23	JINXING/PEONY1
24	PEONY2
25	PEONY3
26	KONKA
27	PEWIN/NOBLEX
28	TCL

NOTE

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



Basic operations

This chapter explains how to perform basic common DVD, Audio CD and Video CD playback operations.
 For more advanced operations, see page 31 for DVD operations, page 59 for Audio CD, page 69 for Video CD.

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Video CD operations

KARAOKE operations

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DVD Audio CD Video CD Basic 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 22).

1 Press  to turn on your TV.

2 Press  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.

- To operate the unit, set  on the remote control unit to DVD.

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

- To operate the TV, set  on the remote control unit to TV.

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




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



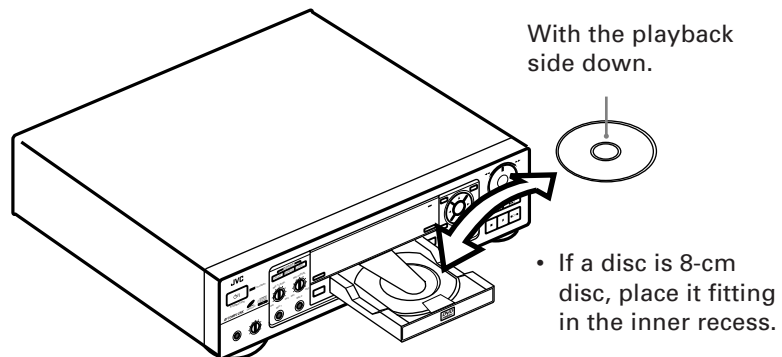
Inserting and removing discs



To insert or remove discs

1 Press  to open the disc tray.









2 Place the disc in the tray.



3 Press  to close the disc tray.



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

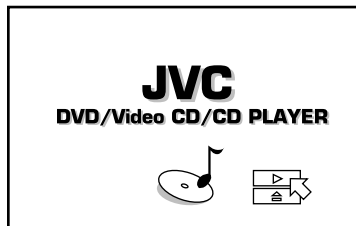
1. Use  to move  to , then press  to open the disc tray.
2. Place or remove the disc.
3. Use  to move  to , then press  to close the disc tray.

Information about the opening display

When you insert a DVD VIDEO disc



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.



DVD **Audio CD** **Video CD** **Basic operations**

Playing back a DVD VIDEO or CD disc

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







To playback a disc from the beginning

Short cuts

Press .

The unit starts playback from the beginning.

1 Use  to move  to , then press .



■ The unit starts playback from the beginning.









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

For the operation using the menu of DVD, see page 32.

For the operation using the menu of Video CD, see page 70.

To adjusting the volume level

- **For TV**
Press  to increase the volume, and  to decrease the volume.
- **For JVC amplifier**
Press  to increase the volume, and  to decrease the volume.
- **For other amplifier or receiver**
Adjust the volume level of the connected amplifier or receiver. See the instructions of the amplifier or receiver.
- **For headphones**
To increase the volume, turn  to the right. To decrease the volume, turn  to the left.



To stop playback completely

1 Press .

■ The unit stops playback.



To stop playback temporarily

1 Press .




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



To advance or reverse play rapidly while monitoring

- During playback

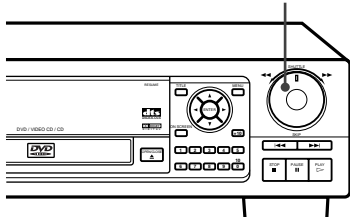
1 Press  or .

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 .



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 locate the beginning of the scene or song



- During playback

1 Press  or .

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

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.



Keep pressing  or  to advance or reverse play rapidly. When you release the button, the unit returns to normal playback.



DVD Audio CD Video CD Basic operations



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  instead of .

■ During playback

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]



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

■ During stop mode

1 Press .

The unit starts playback from the stored position.

NOTES

- **When you resume playback during playback of a Video CD disc with PBC function, the unit may resume playback from a point slightly earlier than the point you stored.**
- **To clear the memory**
Take out the disc from the unit.



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.



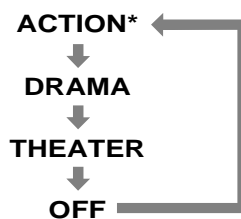
To simulate the surround sound [3D PHONIC]

■ During playback

1 Press .

2 Within 10 seconds, select the desired effect mode by pressing .

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

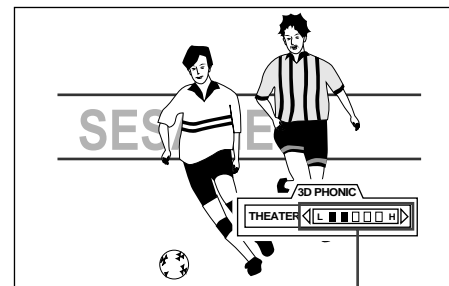


Selected effect mode

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

3 Press to adjust the effect level.

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



Effect level



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

NOTES

- The sound effect (3D PHONIC) is possible only on discs which are recorded in DOLBY SURROUND or DOLBY DIGITAL. However, some DOLBY SURROUND or DOLBY DIGITAL discs do not contain the rear sound signal, in this case, the setting can be changed but the sound effect cannot be obtained.
- You can change the setting of the discs which do not contain the rear sound signal, but the sound effect cannot be obtained.
- The sound effect is not possible, and will not work even if set when the unit outputs the DTS or Dolby Digital bitstream signal from the DIGITAL OUT jack.
- The sound effect will not be set or operate, even if is pressed, on the sound of DVD discs recorded in Linear PCM.
- When you set the 3D PHONIC function to on, the DOWN MIX and COMPRESSION setting in the PREFERENCE 2 display are disabled.



Summary of basic operations

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

To	Press
Turn on/off the unit	DVD⏻/I
Play	PLAY
Stop	STOP
Pause	PAUSE
Advance or reverse play rapidly while monitoring	/ or turn the shuttle knob and hold.
Locate the beginning of the scene or song	/ until it clicks.

To	Press
Turn on your TV	TV⏻/I
Adjust the volume of your TV	
Move the cursor on the TV screen	
Decide the cursor position	

How to use numeric buttons on the remote control unit

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

To use to , (described as "press to , ").

- Set to DVD.
- 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 .

Example :

To select 13 →

To select 34 → → →

To select 40 → → →

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

- Set to DVD.
- Select the time.

Example (for DVD VIDEO):

1 hour 20 minutes → → → →

3 minutes 20 seconds → → → →

Example (for Audio CD/Video CD):

3 minutes 20 seconds → → →

65 minutes 30 seconds → → →



To enter 10 or 0 using the numeric buttons on the front panel, press .



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.

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DVD DVD VIDEO Operations

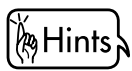
Playing a specific scene on a DVD disc

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





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.



About and

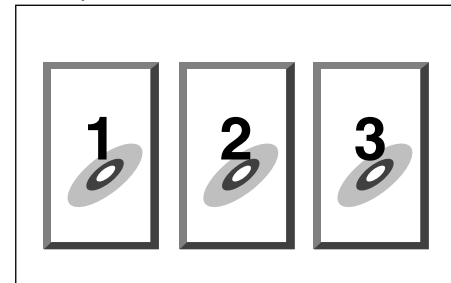
A DVD disc which contains more than one title may have the menu like as a list of the title. In this case, the menu appears on the TV screen by pressing . On the other hand, a DVD disc which contains only one title may have the menu. In this case, the menu appears on the TV screen by pressing .

- Insert the DVD disc.

1 Press or .

The menu appears on the TV screen.

Example







2 Use to select the desired item, then press .

- The unit starts playback of the selected item.



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

NOTES

- When  appears on the TV screen by pressing  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 data.



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 $\leftarrow 1$ to $\leftarrow 10$, $\leftarrow +10$ to select the desired title number.

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

Example:

To select title number 8: Press $\leftarrow 8$.

To select title number 37: Press $\leftarrow +10$, $\leftarrow +10$, $\leftarrow +10$, $\leftarrow 7$.

■ The unit begins playback from the selected title.

NOTE

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



DVD DVD VIDEO Operations



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

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

■ During playback

1 Press .

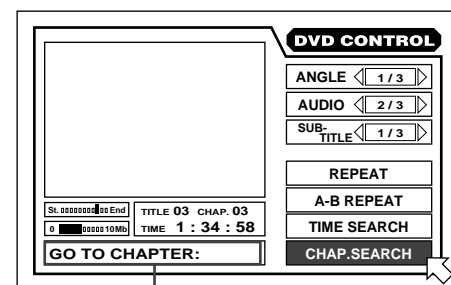
The on-screen display appears on the TV screen.

2 Use to move to [CHAP. SEARCH], then press



<GO TO CHAPTER> appears in the message area.

The color of [CHAP. SEARCH] changes.



Message area

3 Use to to select the desired chapter number, then press .

Selected chapter number appears in the message area.

Example:

To select chapter number 8: Press > .

To select chapter number 37: Press > > .

■ The unit begins playback from the selected chapter.

Hints

- To enter 0 on the front panel, press .
- and on the remote control unit or on the front panel are not used in this function.

NOTES

- **When the chapter number is incorrect in step 3:**
Press to erase the number previously selected, and select the desired number using the numeric buttons.
- **When is displayed in the TV screen in step 3:**
The chapter you have selected is not contained in the disc, or chapter search does not work on the disc.
- **To return to the regular display:**
Press .



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

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

■ During playback

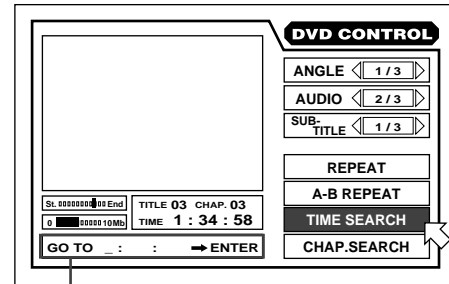
1 Press .

The on-screen display appears on the TV screen.

2 Use to move to [TIME SEARCH], then press .

<GO TO> appears in the message area.

The color of [TIME SEARCH] changes.



Message area

3 Use to to select the time (hour, minute, and second) then press .

Example 1:

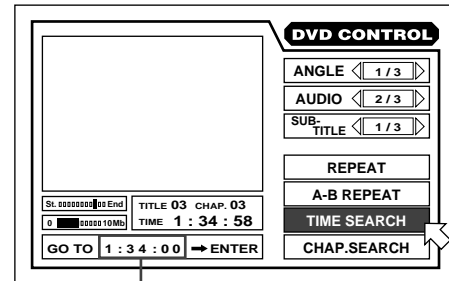
To playback from the 1 hour point.

GO TO _ : _ :

↓ Press .

GO TO 1 : _ :

↓ Press .



Selected time

Hints

- To enter 0 on the front panel, press .
- and on the remote control unit or on the front panel are not used in this function.



DVD DVD VIDEO Operations

Short cuts

After pressing **4**, press



You can input the time by pressing **ENTER** without pressing **0** twice to input the second position.

Example 2:

To select playback from 2 hour 34 minutes:

GOTO _ : _ :

↓ Press **2**.

GOTO 2 : _ :

↓ Press **3**.

GOTO 2 : 3 _ :

↓ Press **4**.

GOTO 2 : 3 4 : _

↓ Press **0**.

GOTO 2 : 3 4 : 0

↓ Press **0**.

GOTO 2 : 3 4 : 0 0

↓
Press **ENTER**

■ The unit starts playback from the selected time.

NOTES

● **When you make a mistake in step 3:**

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

GOTO 2 : 3 5 : _

↓ Press **←**.

GOTO 2 : 3 5 :

↓ Press **4**.

GOTO 2 : 3 4 : _

● **When  appears in the TV screen in step 2:**

The time you select is not contained on the disc, or time search does not work on the disc.

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

Press .




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



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



1 Press .

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

The up to nine opening scenes are displayed.



2 Use to select the desired title.

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





Selected title

3 Press .

■ The unit begins playback from the selected title.



- When the selected title is in the lower right-hand corner of the screen, press  to check next scenes.
- When the selected title is in the upper left-hand corner of the screen, press  to return to previous scenes.

NOTE



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



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.



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

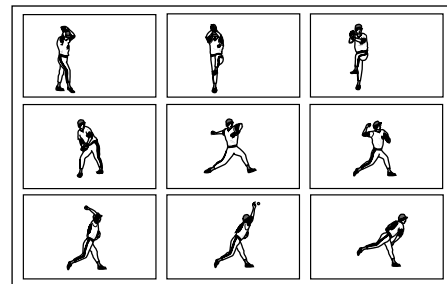
To display still pictures [STROBE]

■ During playback

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

2 Press and hold  for more than 1 seconds.



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



To cancel strobe play


Press and hold  more than 1 second.



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






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

1. Press  to pause playback.
2. Turn the SHUTTLE knob to the right to play in slow-motion, 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 , then press  or .

To play in slow-motion, press , and to play in slow motion in reverse, press . First, the unit play the slowest speed, and each time you press these buttons, the playback speed increases. To return to normal playback, press .

To pause slow-motion play

Press .

NOTES

- **To cancel slow-motion play**
Press .
- **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.

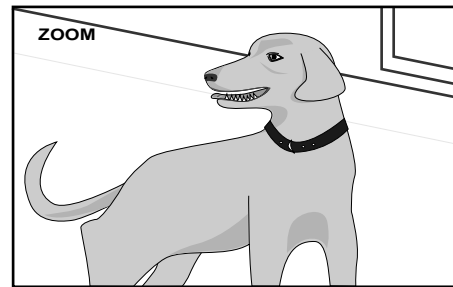
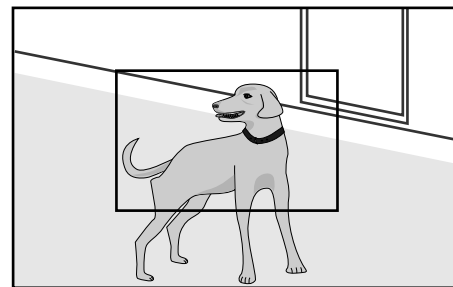


To playback a scene close-up [ZOOM]

■ During playback or pause

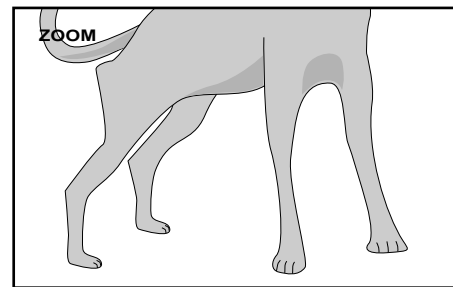
1 Press .

[ZOOM] appears on the TV screen.
The unit zooms in to the center part of the scene to produce a double-sized image.




DVD VIDEO operations

2 Use  to move the zoomed-in scene.



To pause zoom play

Press .

To resume zoom play, press .

NOTE

- To cancel zoom play
Press .



DVD DVD VIDEO Operations

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.



To repeat a title or chapter [REPEAT]

■ During playback

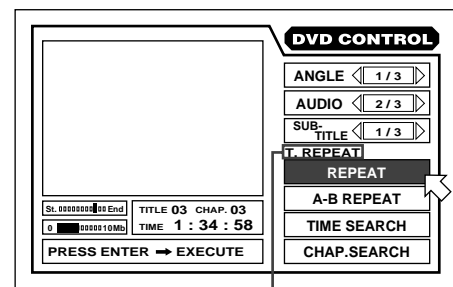
1 Press .

The on-screen display appears on the TV screen.

2 Use to move to [REPEAT], then press .

Each time you press , the repeat 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.

NOTES

- **To turn off the on screen display**
Press .
- **To cancel repeat playback**
Move to [REPEAT] in the on screen display and press repeatedly until [REPEAT] returns to its original color.
- **If appears when pressing ENTER in step 2**
You cannot repeat the title because of the disc contents.





To repeat a desired part [A-B REPEAT]

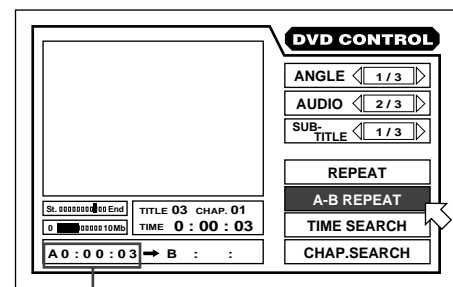
■ During playback

1 Press .

The on-screen display appears on the TV screen.

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

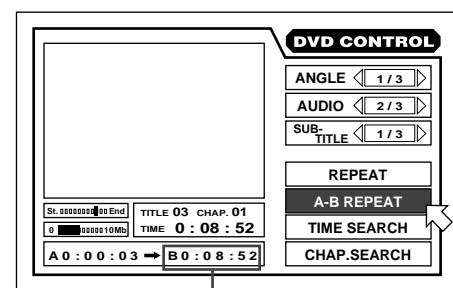
The color of "A-B REPEAT" changes.



Point A

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

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



Point B

■ The selected portion will be repeated.

NOTES

- **To turn off the on screen display**
Press .
- **To cancel A-B repeat playback**
Move to [A-B REPEAT] in the on screen display and press until [A-B REPEAT] returns to its original color.
- **If appears when pressing ENTER in step 2**
You cannot repeat the selected portion because of the disc contents.

DVD VIDEO operations



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 .

2 Press or to select the desired angle.

Each time you press or , the scene changes.



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

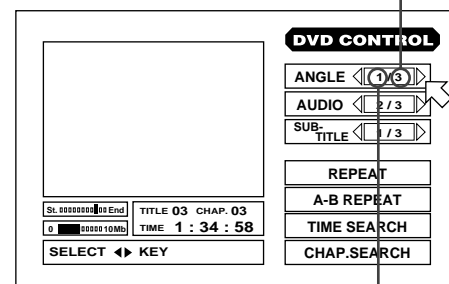
■ During playback

1 Press .

The on-screen display appears on the TV screen.

2 Use to move to [ANGLE].

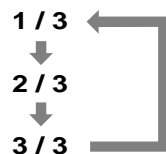
The total number of recorded angles



The current angle number

3 Use to select the desired angle number.

Example:



NOTES

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

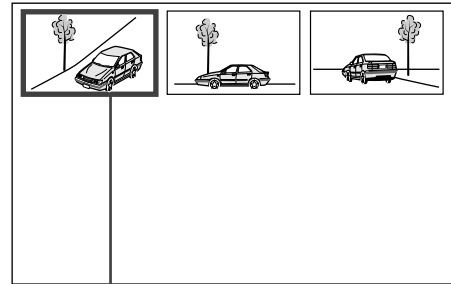


To select a scene angle from the angle list display [ANGLE]

■ During playback

1 Press and hold  for more than 1 seconds.

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



The selected scene angle

2 Use  to select desired angle.

3 Press .

■ The selected angle appears on the TV screen.

NOTE

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



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 and select the desired subtitle by using .



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



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 the end of this instruction.

To select the subtitle language [SUBTITLE]

■ During playback

1 Press .

The on-screen display appears on the TV screen.

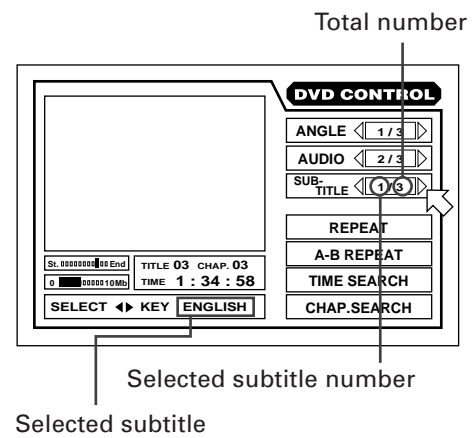
2 Use to move to [SUBTITLE].

3 Use to select the desired subtitle.

Each time you use , the subtitle changes.

Example:

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



NOTE

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



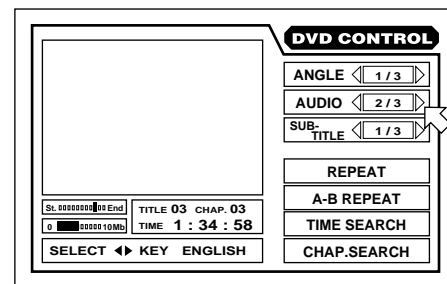
To change the audio language or sound selection [AUDIO]

■ During playback

1 Press ON SCREEN.

The on-screen display appears on the TV screen.

2 Use to move to [AUDIO].

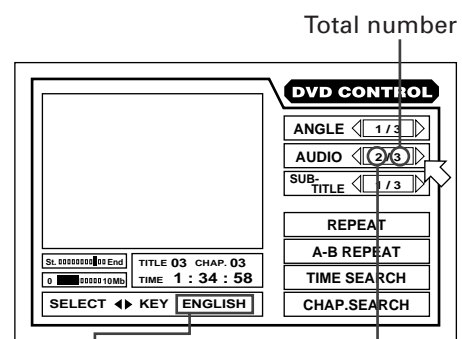


3 Use to select desired audio language or sound.

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

Example:

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



Selected audio number
Selected audio language

DVD VIDEO operations

NOTE

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



DVD DVD VIDEO Operations





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 .

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Selecting preferences

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



How to set preferences on the "PREFERENCE" display

1 Press to stop the unit.

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



For details of each setting, see the following pages:

PREFERENCE 1

- MENU LANGUAGE (49)
- AUDIO LANGUAGE (49)
- SUBTITLE (50)
- ON SCREEN LANGUAGE (50)
- ON SCREEN GUIDE (51)
- MONITOR TYPE (51)

PREFERENCE 2

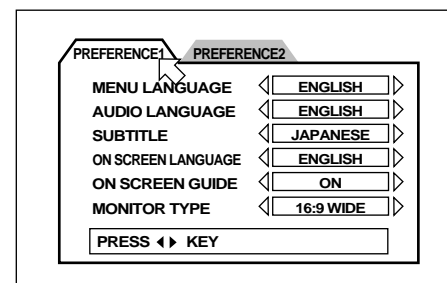
- DIGITAL AUDIO OUTPUT (52)
- DOWN MIX (53)
- COMPRESSION (53)
- SCREEN SAVER (54)
- AV COMPULINK MODE (55)
- AUTO STANDBY (55)

2 Press .

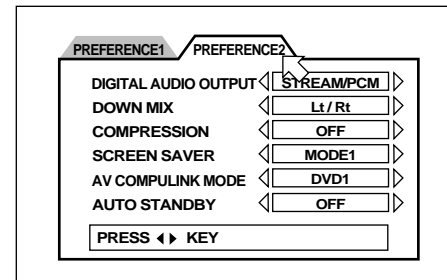
The "PREFERENCE" display appears on the TV screen.

The "PREFERENCE" display consists of two pages. To turn the page, move to the desired tab using .

Preference 1



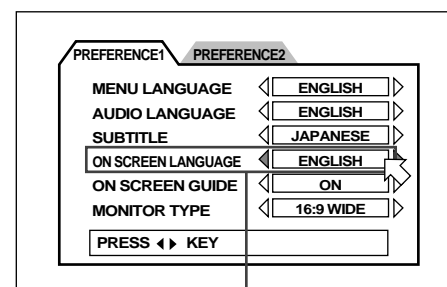
Preference 2



3 Move to select the item you want to set by using



To return to the normal screen, press .



Selected item

4 Press to select the setting you want.





To set the language and display preference items


The PREFERENCE 1 can be set as follows:

MENU LANGUAGE

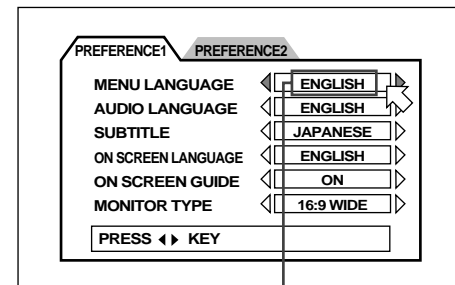
You can select a default "display" language to be displayed if it is contained on the disc.

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

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

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

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



Selected language

AUDIO LANGUAGE

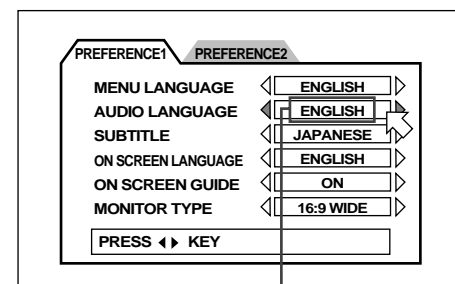
You can select the default audio language to be played if it is contained on the disc.

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

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

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

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



Selected language



SUBTITLE

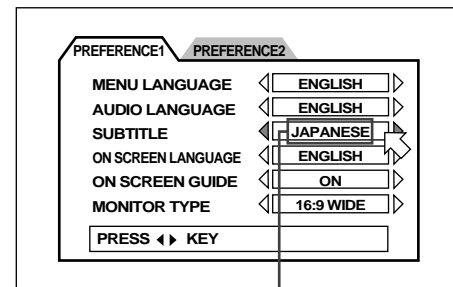
You can select the default subtitle language to be displayed when it is contained on a playback disc.

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

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

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


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

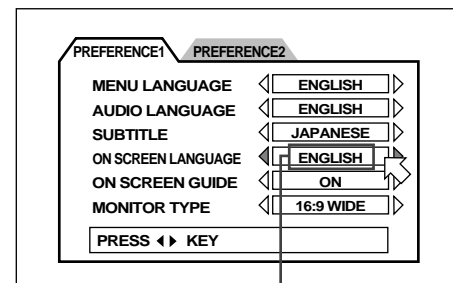
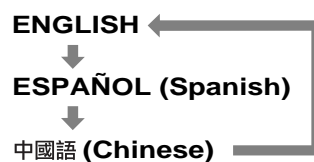


Selected language

ON SCREEN LANGUAGE

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

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



Selected language

English	ON SCREEN LANGUAGE < ENGLISH >
Spanish	IDIOMA EN PANTALLA < ESPAÑOL >
Chinese	字幕語言 < 中國語 >

NOTE

- If Chinese is selected for the on-screen language, some complex Chinese characters on the on-screen display may not look clear because of the resolution of the television. This is not a malfunction of the unit. If you cannot read such characters, see the corresponding illustration of the on-screen display shown in this instructions.

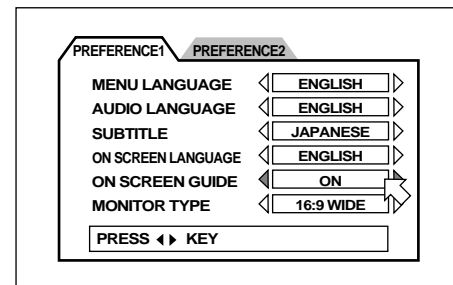




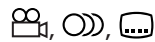
ON SCREEN GUIDE

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



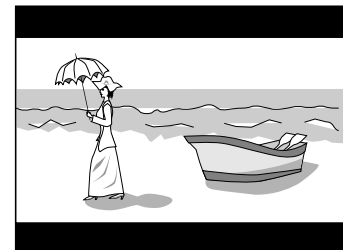
Examples of "On-screen guide" icons or characters to be off:



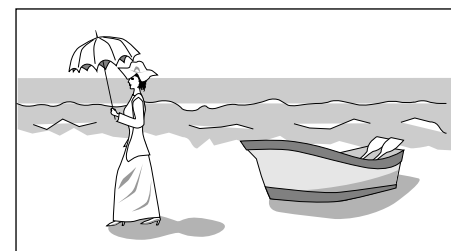
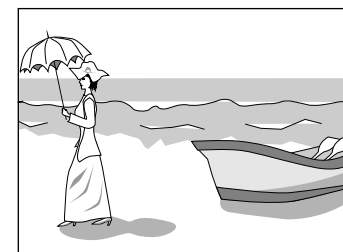
MONITOR TYPE

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

- **4:3 LB** (Letter Box Conversion)
When you connect a normal TV to the unit.
When you play a wide picture recorded on a DVD VIDEO, the picture is displayed with bands across the upper and lower portions of the screen.
- **4:3 PS** (Pan scan Conversion)
When you connect a normal TV to the unit.
When you play a wide picture recorded on a DVD VIDEO, a portion of the picture is automatically cut off from the left and right sides of the image. According to the disc, it is prohibited to playback on this mode. In this case, the picture is played back like as the picture on 4:3 LB mode.
- **16:9 WIDE** (Wide Television screen)
When you connect a wide-screen TV to the unit.



Setting 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:**

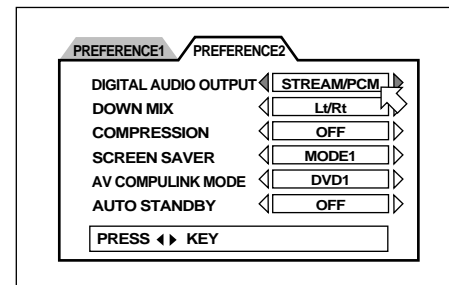
When you connect the DIGITAL OUT jack of the unit and the linear PCM digital input of an audio equipment.

- **STREAM/PCM:**

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

- **DOLBY DIGITAL/PCM:**

When you connect to the Dolby digital input of a Dolby Digital decoder, an amplifier with built-in Dolby Digital decoder



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

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

NOTES

- When you play a CD disc with DTS, unnecessary audio signal output from the AUDIO OUT (analog) jack. Adjust the volume level of an amplifier connected to the AUDIO OUT jack of the unit to minimum.
- When you do not connect the unit to the DTS decoder, a CD disc with DTS cannot be played back. Do not play a CD disc with DTS when the unit is connected to the DIGITAL jack other than it of the DTS decoder. If you do so, loud noise may be played back from speakers, and it cause of the breakdown of your speakers.



DOWN MIX

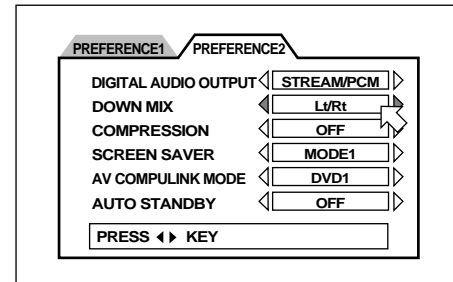
By setting DOWN MIX correctly, you can get the optimum stereo mix for your audio system from DVD discs recorded with Dolby Digital surround multichannel audio.

- **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

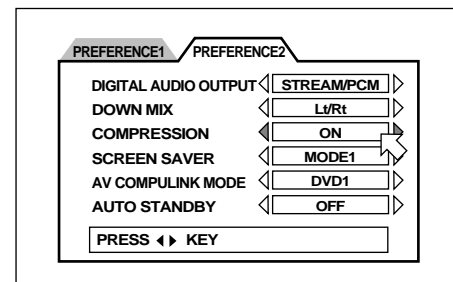
You can compress the dynamic range of the sound if you need. Using this function, you can listen to sound in small volume easily.

- **ON**

Audio is played back with the dynamic range compressed.

- **OFF**

Audio is played back as it was recorded.



NOTES

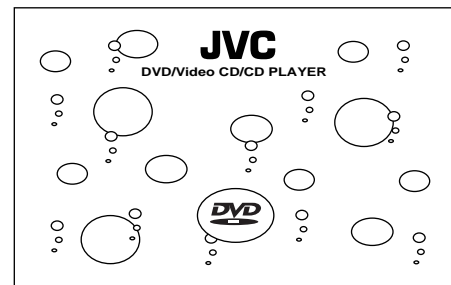
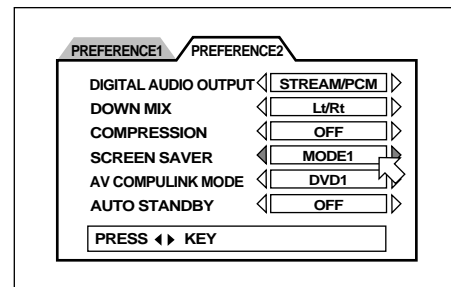
- The compression function works only when playing back the disc recorded on DOLBY DIGITAL 1 CH or 2CH. The setting is not effective on other discs.
- The compression function does not work when the 3D PHONIC function is activated.
- The downmix function does not work when the 3D PHONIC function is activated.



SCREEN SAVER

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

- **MODE 1**
The picture is scrolled.
- **MODE 2**
The picture is not scrolled.
- **DIMMER**
The picture gets dark.
- **OFF**
The screen saver function is off.



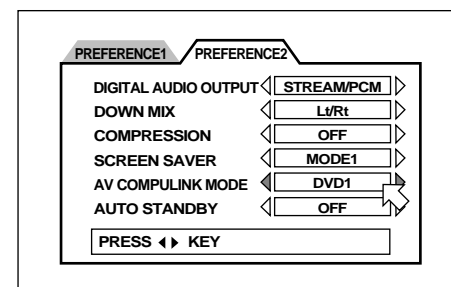
NOTES

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



AV COMPULINK MODE

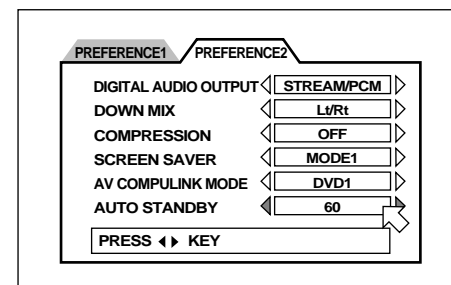
If you use the AV Compulink system, you must set this item correctly. Select from the three options: "DVD1," "DVD2" and "DVD3" according to the equipment to be connected. See page 98.



AUTO STANDBY

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

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





Limiting playback by children

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



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

- 1 Press while holding down .

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

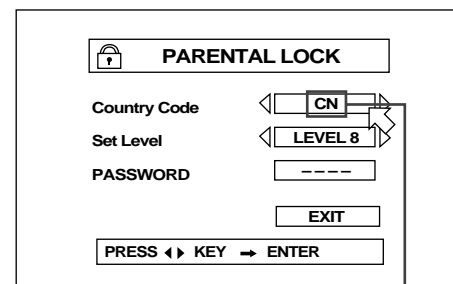
The Parental Lock on-screen display appears on the TV screen.

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



For details of the country code, see "Country code list for parental lock" at the end of this instruction.

- 2 Use to select the country code of your area and press .



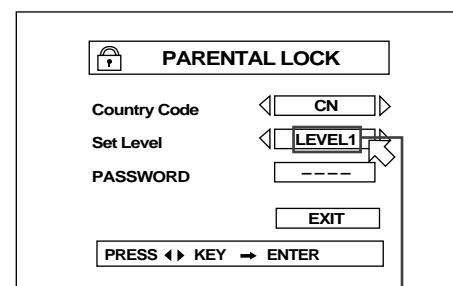
Country code



"LEVEL1" is the strictest level.

- 3 Use to select the parental lock level.

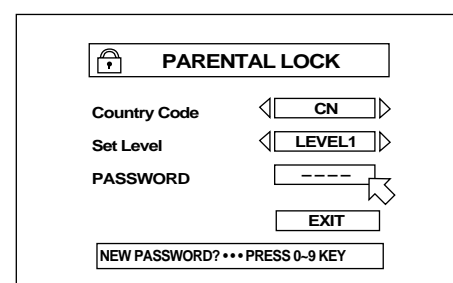
Each time you press , the parental level changes from LEVEL 1 to LEVEL 8.



Selected level

- 4 Press .

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



■ The parental level and password are set.



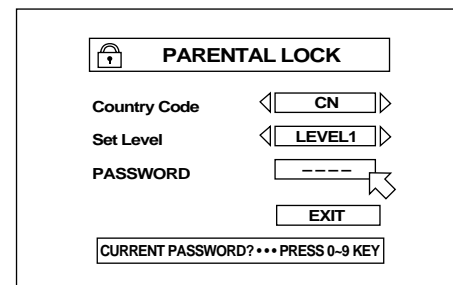


To change the settings [PARENTAL LOCK]

- 1** Press while holding down .

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

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



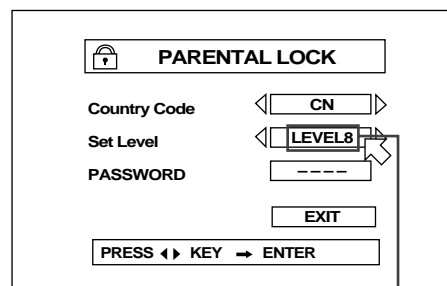
- 2** Enter your current 4-digit password using to and press .

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



"LEVEL1" is the strictest level.

- 3** Use to move to [Set Level], then use to select the parental lock level.



Setting the unit

- 4** Press .

- 5** Enter your new 4-digit password using to and press .

■ The new setting is effective.

NOTES

- When you enter the wrong password more than 3 times in step 2 above, moves to <EXIT> automatically and does not work.
- If you forget your password in step 2 Enter "8888."



DVD Setting and adjustment



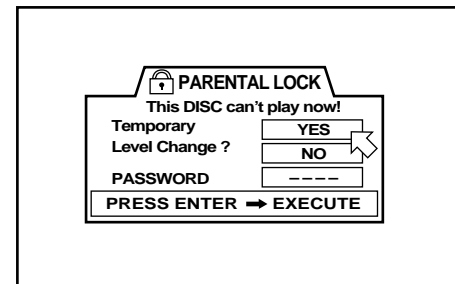
To temporarily release the Parental lock [PARENTAL LOCK]

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

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

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

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



2 Enter your 4-digit password using to .

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.

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

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Introduction

Preliminary
knowledge

Getting started

Basic
operations

DVD VIDEO
operations

Setting and
adjustment

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operations

Video CD
operations

KARAOKE
operations

Additional
information



Audio CD Audio CD operations

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.






To locate a desired track using or

■ During playback



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

1 Press or .

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

Display window



Selected track number




To locate a desired track directly



■ During playback or stop mode

1 Select a desired track number using to , .

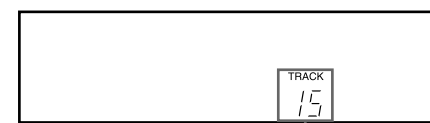
Example:

To select track number 8: Press .

To select track number 37: Press , , , .

To select track number 15: Press , .

Display window



Selected track number

■ The unit starts playback from the selected track.



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

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

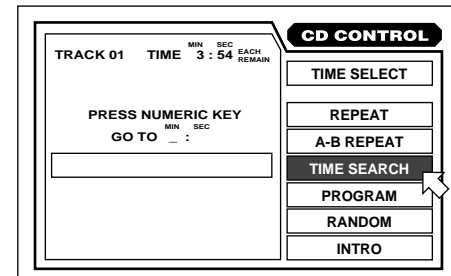
1 Press .

The on-screen display appears on the TV screen.

2 Use to move to [TIME SEARCH] and press



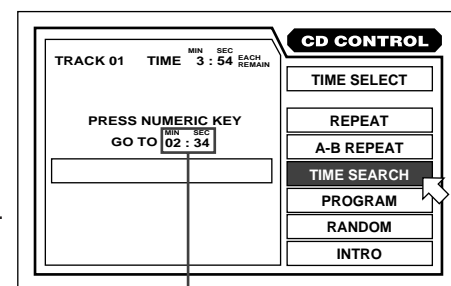
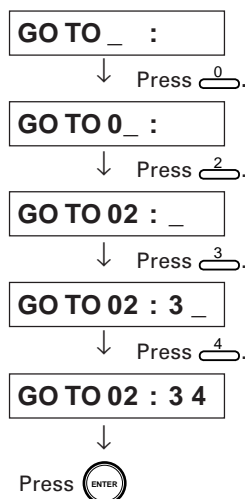
The color of "TIME SEARCH" changes.



3 Use to to select the time (minute and second) then press .

Example:

To playback from 2 minutes 34 seconds.



Selected time

Hints

- To enter 0 on the front panel, press .
- and on the remote control unit or on the front panel are not used in this function.

NOTE

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



■ The unit starts playback from the selected time.



Audio CD operations

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.



To playback in the desired order [PROGRAM]

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

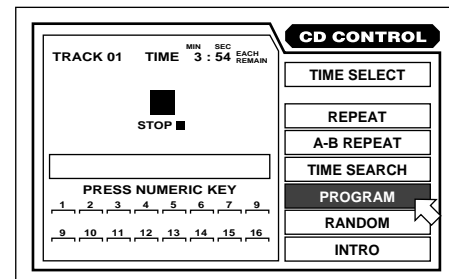
■ During stop only

1 Press ON SCREEN.

The on screen display appears on the TV screen.

2 Use to move to [PROGRAM] and press .

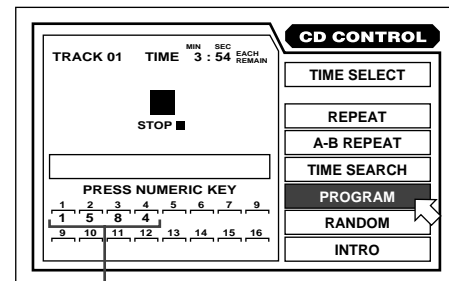
The color of "PROGRAM" changes.



3 Select the tracks in the desired order using to

, .

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



Selected track number

4 Press to start program play.



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



You can program tracks during program playback.

NOTES

- **When you make a mistake in step 3:**
Press . The last track programmed is erased.
- **To clear program play**
Press to stop playback, then press 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]

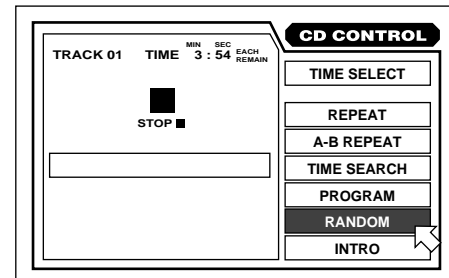
The unit can play tracks in random order.


■ During stop mode

1 Press .

The on screen display appears on the TV screen.

2 Use  to move  to [RANDOM].



3 Press .




The color of "RANDOM" changes.

■ Random play begins.



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

NOTES

- **To stop random play**
Press .
- **To quit random play**
Move  to [RANDOM], then press . "RANDOM" returns to its original color.



Repeat playback

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



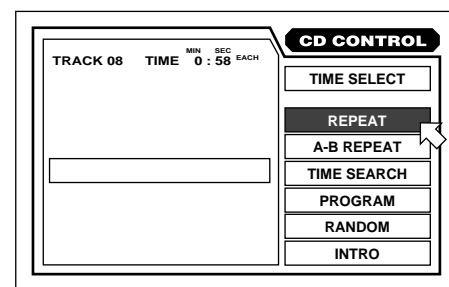
To repeat a current track or all tracks [REPEAT]

■ During playback

1 Press ON SCREEN.

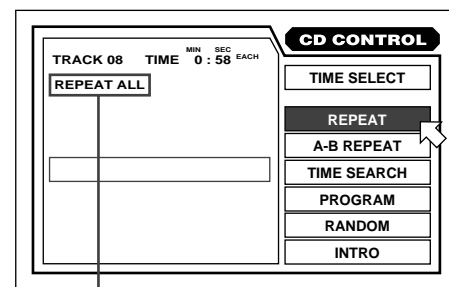
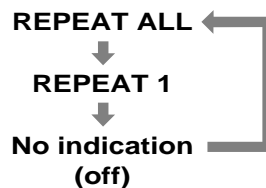
The on-screen display appears on the TV screen.

2 Use to move to [REPEAT].



3 Press .

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



Selected repeat mode

REPEAT ALL:
All the tracks are played repeatedly.

REPEAT 1:
The current track is played repeatedly.

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

NOTES

- **To quit repeat playback**
Press . The unit stops but remains in repeat play mode.
- **To cancel repeat playback**
Move to [REPEAT] in the on screen display and press repeatedly until [REPEAT] returns to its original color.








To repeat a desired part [A-B REPEAT]

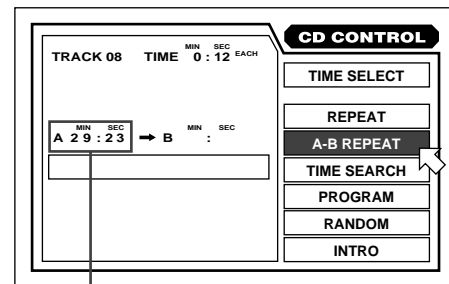
■ During playback

1 Press .


The on-screen display appears on the TV screen.

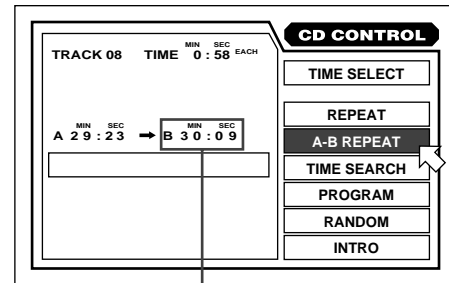
2 Use  to move  to [A-B REPEAT], then press  at the beginning of the part you want to repeat (point A).

The color of "A-B REPEAT" changes.



Point A

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





Point B

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

NOTE

● To cancel A-B repeat playback

Move  to [A-B REPEAT] in the on screen display and press  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.



To playback only the beginning of each track [INTRO]



■ During stop

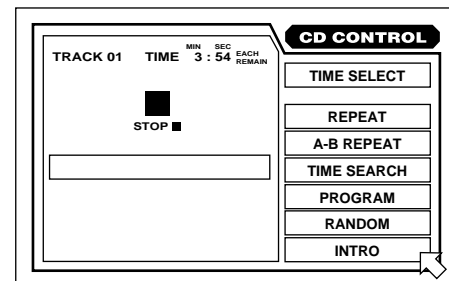
1 Press  ON SCREEN.

The on-screen display appears on the TV screen.



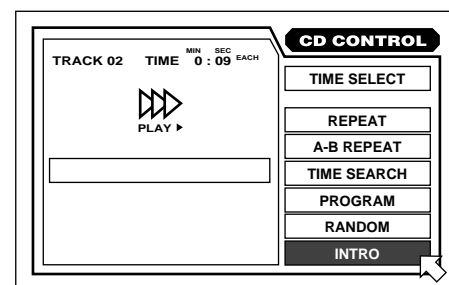
- When all tracks have been played once, INTRO scan stops.

2 Use  to move  to [INTRO].






3 Press .

The color of "INTRO" changes.



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

NOTE

- **To stop INTRO scan**
Press  or move  to [INTRO], then press .



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]

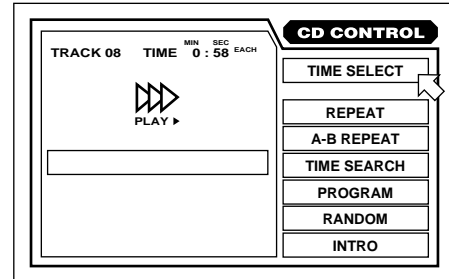
You can choose the time mode in the display on the front panel and in the on-screen display.

■ During playback

1 Press .

The on-screen display appears on the TV screen.

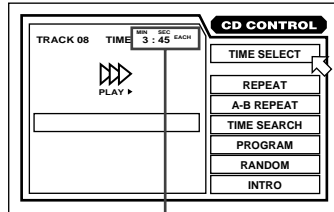
2 Use to move to [TIME SELECT].



3 Press .

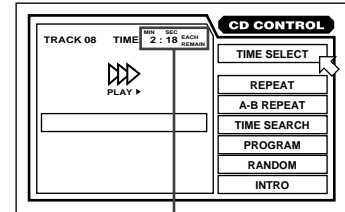
Each time you press , the time mode changes as follows:

EACH



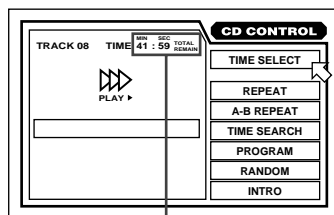
Elapsed time of the current track

EACH REMAIN



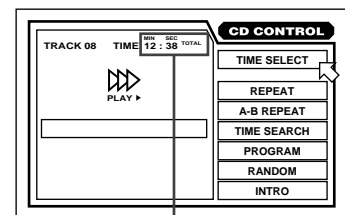
Remaining time of the current track

TOTAL REMAIN



Total remaining time of the disc

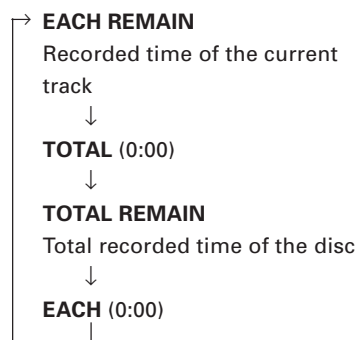
TOTAL



Total elapsed time of the disc



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




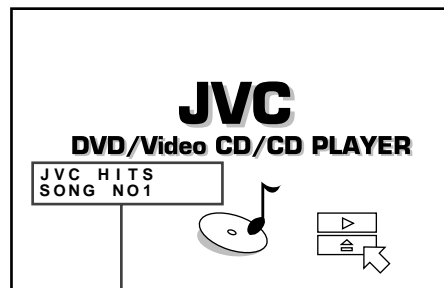


Information about CD TEXT

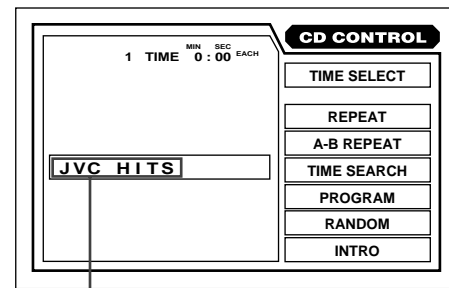
The unit is compatible with the CD TEXT function. CD TEXT discs have information, such as the album title, artist names, and track names. If the played disc is a CD TEXT disc, CD text data appears on the TV screen.



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



CD TEXT



CD TEXT

What is CD TEXT?



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



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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Playing a specific scene on a Video CD

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



To use the menu of the Video CD recorded on PBC

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

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



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 , then press to activate the PBC function. You can also operate from the on-screen display as follows:

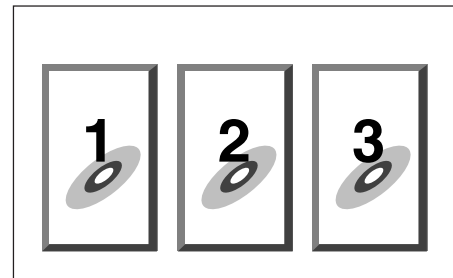
1. Press .
2. Use to move to [PBC CALL], then press .



When you want to set to off the PBC function, press the numeric buttons to play a disc. See page 71.

- 1 Use to , to to select the desired number of the item.

Example:



Playback starts from the selected item.

You can return to the menu by pressing .

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

- succeeding to the next page by pressing .
- return to the previous page by pressing .




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



To locate a desired track using or

■ During playback without the PBC function

1 Press  or .

- 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  once.
- To skip to preceding tracks, press  repeatedly until the desired track appears in the display.

NOTE

- This function does not work when playback with the PBC function.




To locate a desired track directly

■ During playback without the PBC function or stop mode

1 Select a desired track number using  to , .

Example:

To select track number 8: Press .

To select track number 37: Press  ,  ,  , .

■ The unit starts playback from the selected track.

NOTE

- This function does not work 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.

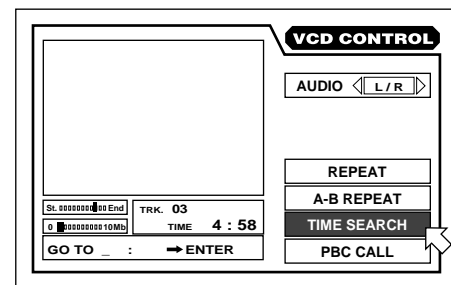
■ During playback without the PBC function

1 Press ON SCREEN.

The on-screen display appears on the TV screen.

2 Use to move to [TIME SEARCH] and press .

The color of "TIME SEARCH" changes.



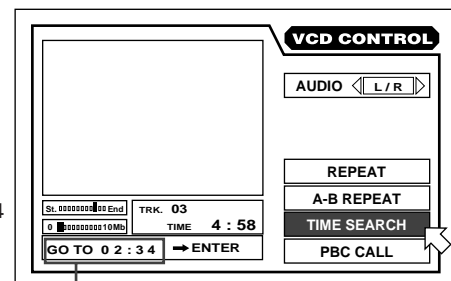
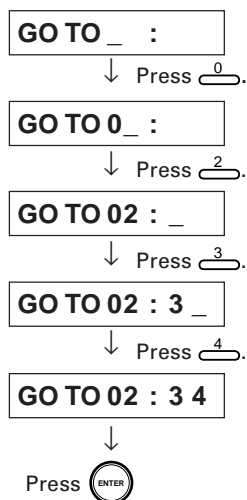
Hints

- To enter 0 on the front panel, press .
- and on the remote control unit or on the front panel are not used in this function.

3 Use to to select the time (minute and second) then press .

Example:

To select playback from 2 minutes 34 seconds.



Selected time

■ The unit starts playback from the selected time.



NOTES

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

GO TO 02 : _

↓ Press

GO TO 02 :

↓ Press

GO TO 04 : _

- **When appears in the TV screen in step 2:**
The time you selected is not contained on the disc, or time search does not work for the part you selected. When you play a Video CD disc with the PBC function, there is a part where time search does not work.
- **To return to the regular display:**
Press and the on-screen display will return to the regular display.
- **The time search function does not work during PBC playback.**



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



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

■ During stop mode or playback without PBC function



1 Press .

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

2 Use to select the desired track.

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



Selected track

3 Press .

■ The unit begins playback from the selected track.





Playing in slow-motion

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





To display still pictures [STROBE]



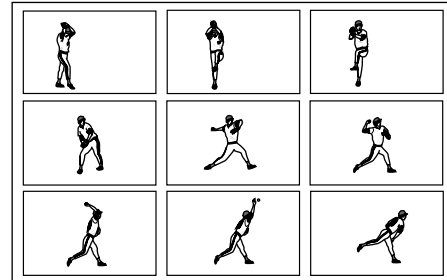
During this function, when you press , next nine still pictures appear on the TV screen and playback pauses. When you press , nine still pictures continuously appear on the TV screen.

■ During playback

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

2 Press and hold  for more than 1 seconds.

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



To cancel strobe play



Press and hold  more than 1 second.




To playback in slow-motion [SLOW]

■ During playback



1 Press , then press .

The unit play the slowest speed, and each time you press , the playback speed increases. To return to normal playback, press .

To pause slow-motion play


Press .




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



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

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

NOTES

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

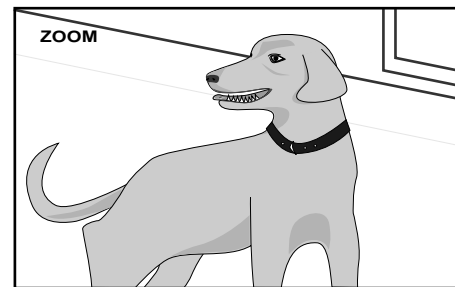
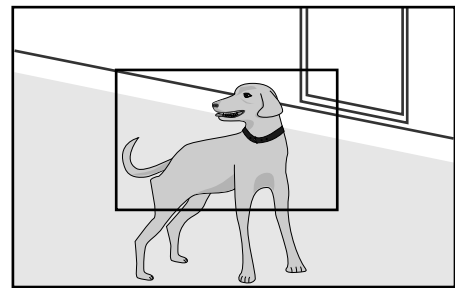


To playback a scene close-up [ZOOM]

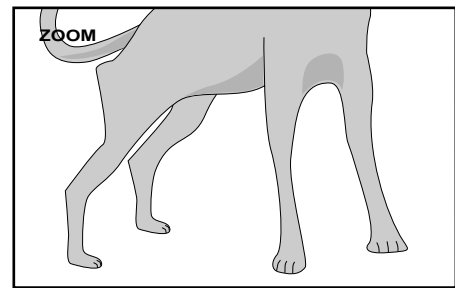
■ During playback or pause

1 Press .


[ZOOM] appears on the TV screen.
The unit zooms in to the center part of the scene to produce a double-sized image.




2 Use to move the zoomed-in scene.




To pause zoom play

Press .

To resume zoom play, press .

NOTE

- To cancel zoom play
Press .



Changing the track order

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



To playback in the desired order [PROGRAM]

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

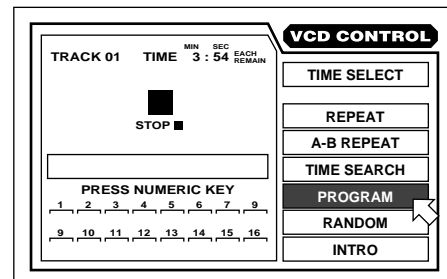
■ During stop mode only

1 Press ON SCREEN.

The on screen display appears on the TV screen.

2 Use to move to [PROGRAM] and press .

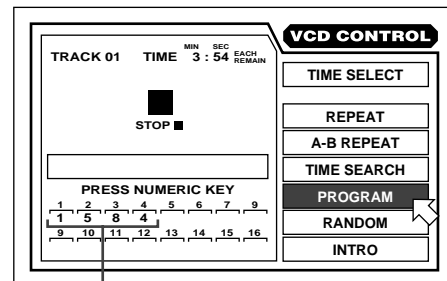
The color of "PROGRAM" changes.



3 Select the tracks in the desired order using to

, .

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



Selected track number

4 Press to start program play.



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



You can program tracks during playback.

NOTES

- **When you make a mistake in step 3:**
Press . The last track programmed is erased.
- **To clear program play**
Press to stop playback, then press 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]

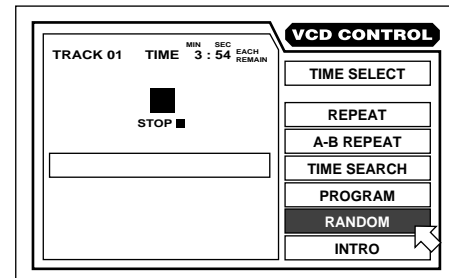
The unit can play tracks in random order.

■ During stop

1 Press .

The on screen display appears on the TV screen.

2 Use  to move  to [RANDOM].



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

3 Press .

■ Random play begins.

NOTE

- To stop random play
Press .



Repeat playback

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



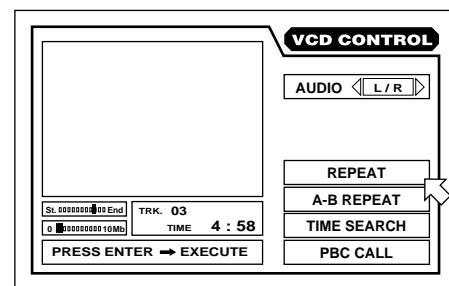
To repeat a current track or all tracks [REPEAT]

■ During playback without PBC function

1 Press ON SCREEN.

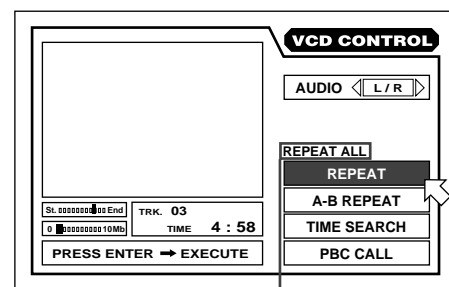
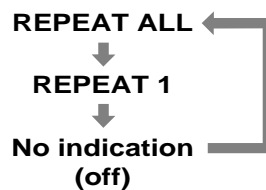
The on-screen display appears on the TV screen.

2 Use to move to [REPEAT].



3 Press .

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



Selected repeat mode

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 to stop playback and then specify any track number by using the numeric buttons.
- 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]

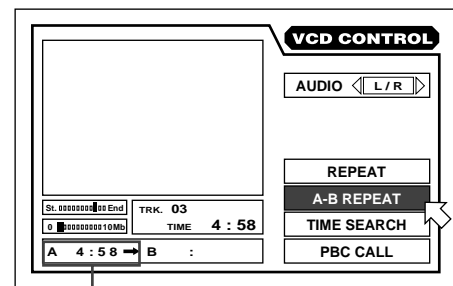
■ During playback

1 Press .

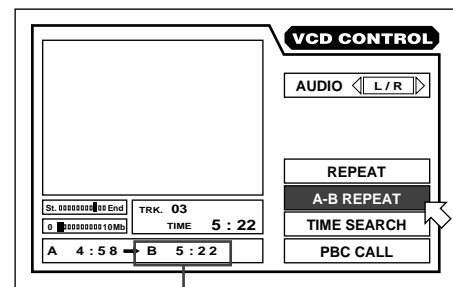
The on-screen display appears on the TV screen.

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

The color of "A-B REPEAT" changes.



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



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

NOTES

- **To turn off the on-screen display**
Press .
- **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.



To playback only the beginning of each track [INTRO]



■ During stop mode

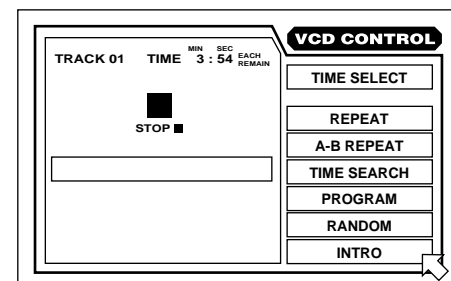
1 Press  ON SCREEN.

The on-screen display appears on the TV screen.



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

2 Use  to move  to [INTRO].



3 Press .

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

NOTE

- To stop INTRO scan
Press .



Adjusting the sound to suit preferences

You can select the preferred audio channel.





To change the audio channel [AUDIO]

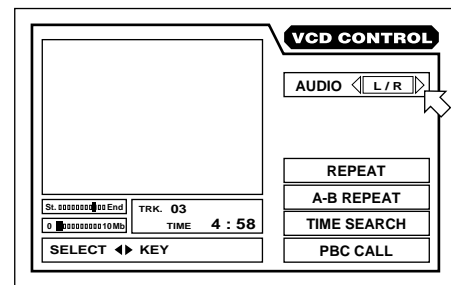
In some karaoke discs, one of the audio channels includes a vocal while the other does not. With such discs, you can choose to enjoy karaoke without the vocal or with the vocal by selecting the audio channel to be played back.


■ During playback

1 Press .

The on-screen display appears on the TV screen.

2 Use  to move  to [AUDIO].

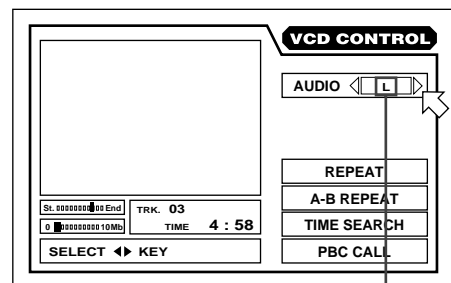


3 Select the audio channel(s) to be played back using .

L/R: You hear normal stereo playback.

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

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



Selected audio channel

NOTE

- To turn off the on-screen display

Press .



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.



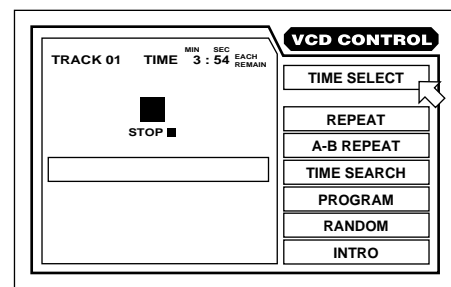
To select the time display mode [TIME SELECT]

■ During stop mode

1 Press ON SCREEN.

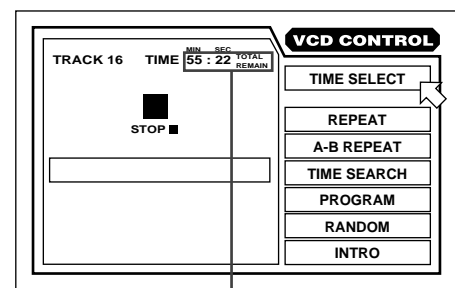
The on-screen display appears on the TV screen.

2 Use to move to [TIME SELECT].



3 Press until [TOTAL REMAIN] appears on the TV screen.

Total disc time appears on the TV screen.



Total disc time of the disc



When you press repeatedly until [EACH REMAIN] appears on the TV screen, the recorded time of the displayed track appears on the TV screen. You can change the track by pressing

or .





KARAOKE operations

This chapter explains KARAOKE functions of the unit. You can enjoy singing Karaoke using various functions including echo and chorus effects. In addition, the unit can score your performances.

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DVD Audio CD Video KARAOKE operations

Preparation



Set the remote control unit to KARAOKE mode

- 1 Set on the remote control unit to KARAOKE.



Turning on the KARAOKE function

- When the switch above is at the KARAOKE position,

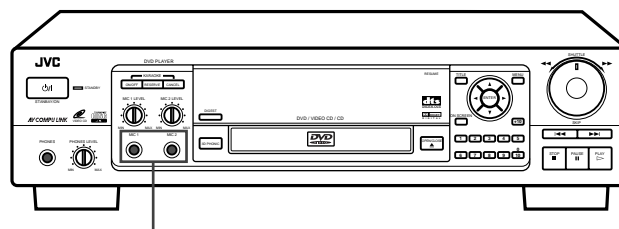
- 1 Press to turn on the KARAOKE function.

Each press of toggles ON and OFF. When ON, "KARAOKE" appears in the display on the front panel.



Connecting microphones

- 1 Connect microphone(s) to the MIC 1/2 jack(s) on the front panel.



MIC 1/2 jacks



When you connect the microphone(s) to the unit, the KARAOKE function turns on automatically. When disconnecting the microphone(s), it turns off automatically.

To enjoy Karaoke using a menu screen:

- Insert a DVD Karaoke disc, then
 1. Press or .
 - The menu appears on the TV screen.
 2. Use to select the desired song, then press .
 - The unit starts playback from the selected song. See page 38 for detailed information.

NOTES

- To play back the disc, press .
- To stop playback, press .
- To pause playback, press .
- When playing back a DVD recorded with linear PCM audio, you cannot turn on the KARAOKE function.
- To adjust the microphone volume, use .
- Turning it clockwise raises the level, while turning it counter-clockwise drops the level.



Reserving songs

You can reserve songs to play in the order you want while the disc is stopped. Up to 12 songs can be reserved.

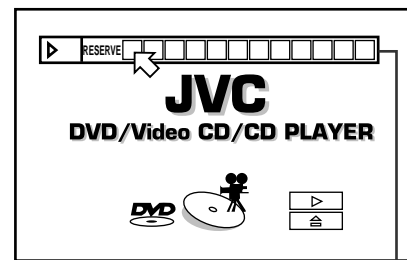


■ When the KARAOKE function is on,

1 Press .

2 Press .

The reservation bar appears in the TV screen.

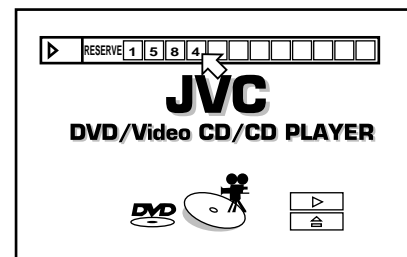


Reservation bar

3 Press to , and to select the song number you want to reserve.

The song you entered is reserved and moves to the next box in the bar.

Repeat step 3 to make more reservations.



4 Press .

■ The unit starts playback of reserved songs in the order you entered.

To cancel the reserved song(s)

Use to the song number you want to cancel, then press .

To hide the reservation bar

Press .



To check the reserved songs

Press so that the reservation bar appears on the TV screen. The reserved songs appears on the bar.

To add song(s) to be reserved

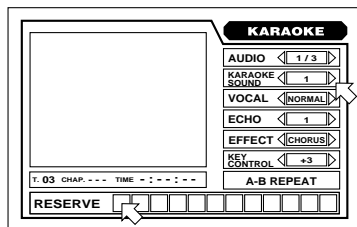
Press so that the reservation bar appears in the TV screen. Then press to , and to select the song number you want to reserve.

To insert a song to be reserved

When the reservation bar appears in the TV screen, move to the position you want to insert a song using , then press to , and to select the song number you want to reserve.

When the on-screen display appears on the TV screen

you can also reserve song(s). Pressing move to the reservation bar. Pressing again returns to the previous position.



NOTES

- When appears on the TV screen in step 3: 12 songs are reserved.
- To cancel all songs
Press when reservation bar appears on the TV screen during stop mode.
- When playing back a DVD recorded with linear PCM audio, you cannot turn on the KARAOKE function.
- For Audio CDs, the A-B repeat function cannot be operated while playing back a reserved song.



DVD Audio CD Video CD KARAOKE operations

Selecting audio

Most Karaoke discs have the capability of adding "Guide vocal" or "Guide melody" to the Karaoke accompaniment.



Selecting audio track(s) [AUDIO]

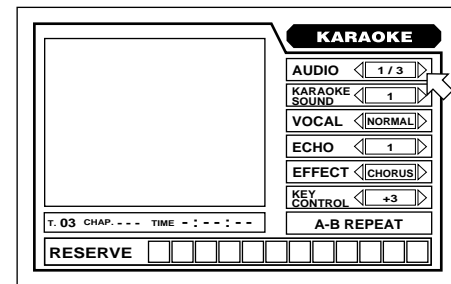
With most DVD Karaoke discs, you can choose audio track(s) from some options such as "with guide vocal", "with guide melody" and "accompaniment only". You can select "AUDIO" only for DVD discs.

■ During playback, when the KARAOKE function is on

1 Press .

The on-screen display for KARAOKE appears on the TV screen.

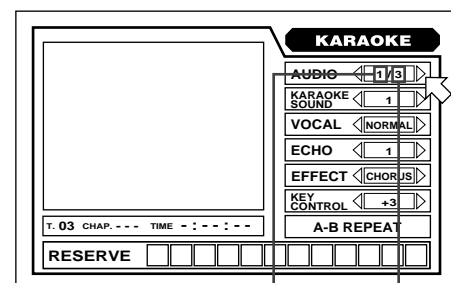
2 Use to move to [AUDIO].



3 Use to select the desired audio to be played back.

Example:

- 1/3 Multi audio karaoke
- ↓
- 2/3 With guide vocal
- ↓
- 3/3 Accompaniment only



Total number of Audio track
 Selected sound or channel

NOTE

- When appears on the TV screen
 The disc does not contain multi audio tracks. Or the disc inhibits the audio selection.



Selecting Karaoke sound [KARAOKE SOUND]

Among "Karaoke" DVD discs, there are "Multi-sound Karaoke" discs. With such a disc, for example, you can duet with the other vocal part recorded in a disc.

■ During playback, when the KARAOKE function is on,

1 Press ON SCREEN.

The on-screen display for KARAOKE appears on the TV screen.

When playing back a "Multi-sound Karaoke" disc, [AUDIO] should be set to 1 (See page 88).

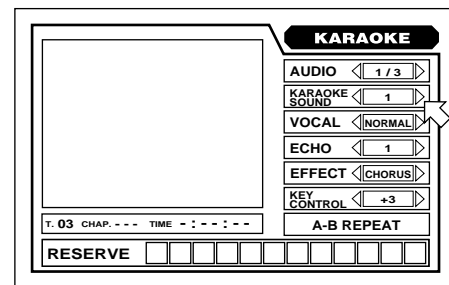


1. Press during playback.
2. Use to select the desired sound to be played back within 10 seconds.

KARAOKE SOUND ◀ OFF ▶



2 Use to move to [KARAOKE SOUND].



3 Use to select the desired sound to be played back.

Example 1: a multi-sound Karaoke DVD

- 1 With guide vocal (1)
- ↓
- 2 With guide vocal (2)
- ↓
- 1+2 With guide vocal (1+2)
- ↓
- PRO Only accompaniment
- ↓
- OFF With guide melody

"2" and "1+2" above appear only with materials for vocal duet.

Example 2: a video or audio CD with Karaoke

- L/R Stereo audio
- ↓
- L Left channel audio
- ↓
- R Right channel audio

NOTE

- With a DVD disc which does not contain "Multi-sound Karaoke", [KARAOKE SOUND] cannot be changed.



DVD Audio CD Video CD KARAOKE operations



Masking the vocal recorded on a disc [VOCAL MASK]

Using the Voice cancel function, you can mask the vocal recorded on the normal disc which is not for Karaoke.

When playing back a Karaoke disc, such as a disc with the multiplex audio and multi-sound Karaoke, eliminate the vocal by selecting "KARAOKE SOUND", instead of "VOCAL MASK"

■ During playback, when the KARAOKE function is on,



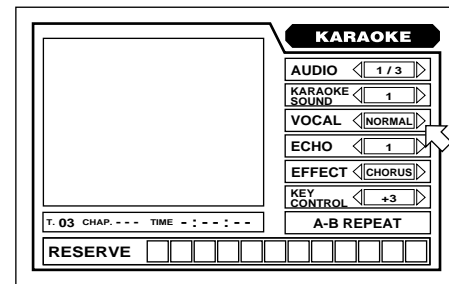
1. Press during playback.
2. Use to select [MASK] within 10 seconds.

1 Press .

The on-screen display for KARAOKE appears on the TV screen.

If [KARAOKE SOUND] is set to L or R, the voice cancel function does not work correctly. Change the setting to L/R (See page 89).

2 Use to move to [VOCAL].



3 Use to select [MASK].

Pressing cycled the mode as shown below.



NOTES

- If [KARAOKE SOUND] is set to L or R, the vocal mask function does not work correctly.
- With some materials, such as recorded in monaural and sung by duet, the voice may not be satisfactorily masked.



Playing back the guide vocal only when you stop singing [VOCAL REPLACE]

You may have experiences that you could not sing in the middle of Karaoke because you forgot the melody, etc. In such case, using the vocal replace function, the guide vocal automatically replaces your voice when you stop singing. It may be useful for practicing Karaoke.

■ During playback, when the KARAOKE function is on,



1. Press during playback.
2. Use to select [REPLACE] within 10 seconds.

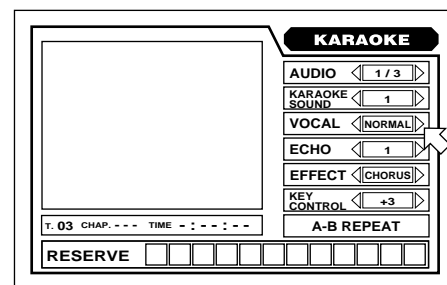
1 Press .

The on-screen display for KARAOKE appears on the TV screen.

If the disc is recorded by the multiplex audio, set [KARAOKE SOUND] to L or R for playing back the guide vocal.

If the disc is not recorded for Karaoke, set [KARAOKE SOUND] to L/R (See page 88).

2 Use to move to [VOCAL].



3 Use to select [REPLACE].

Pressing cycled the mode as shown below.



■ The recorded voice (guide vocal) is played back only when no sound is fed to the microphone(s).

NOTE

- When playing back a disc with the multiplex audio or with multi-sound Karaoke, the guide vocal is not played back at all. With other discs, the voice may not be satisfactorily masked.



DVD Audio CD Video CD KARAOKE operations

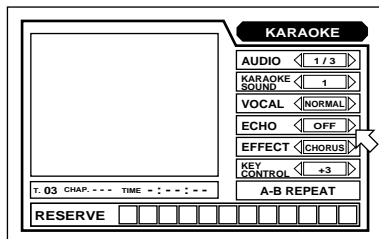
Adding an effect to your voice

You can add various effects to your voice using the Echo and Vocal Effect functions.



You can also adjust the echo level via the on-screen display.

1. Press .
2. Use to move to [ECHO].
3. Use to adjust the echo level.



Adding an echo effect [ECHO]

■ When the KARAOKE function is on,

1 Press .

2 Use to adjust the echo level.

Each time you press , the echo level changes as follows.

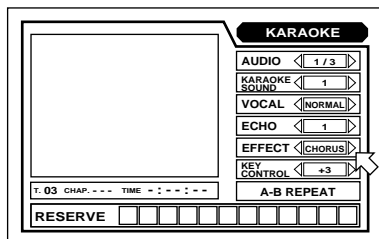
The bigger number is the stronger echo.

OFF → 1 → 2 → 3



You can also select the vocal effect via the on-screen display.

1. Press .
2. Use to move to [EFFECT].
3. Use to select the vocal effect.



Adding various effects to vocal [VOCAL EFFECT]

■ When the KARAOKE function is on,

1 Press .

2 Use to select the vocal effect.

Each time you press , the vocal effect changes as follows.

OFF → CHORUS → FLANGER → HARMONY

CHORUS: Produces a doubling effect on your vocal, as if another person sings in unison.

FLANGER: Adds a wet, metallic sweeping sound to your voice, similar to some electric guitar sound.

HARMONY: Add a harmony vocal to your voice.

NOTE

- When playing back an Audio CD, the ECHO and VOCAL EFFECT functions can be controlled only when the on-screen display appear on the TV screen.



Shifting the musical key

You can shift the musical key of a song recorded on a disc in halftone steps to fit to your voice.



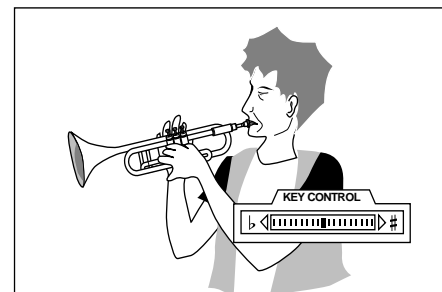
■ When the KARAOKE function is on,

1 Press .

2 Use to shift the key within 10 seconds.

To heighten the key, press .

To lower the key, press .

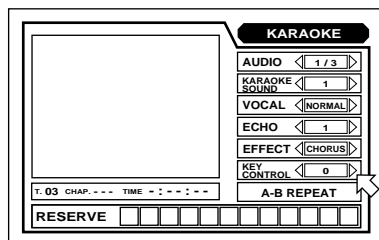


The key selected is also displayed on the display of the unit.



You can also shift the key via the on-screen display.

1. Press .
2. Use to move to [KEY CONTROL].
3. Use to shift the key.



NOTES

- To disappear the key control display, press .
- When starting playback of a song with , the key returns to the normal key (zero) after the song ends.



DVD Audio CD Video CD KARAOKE operations


Rating your voice

The unit can rate your voice by the scoring function.




■ When the KARAOKE function is on,


1 Start playback of the desired song.

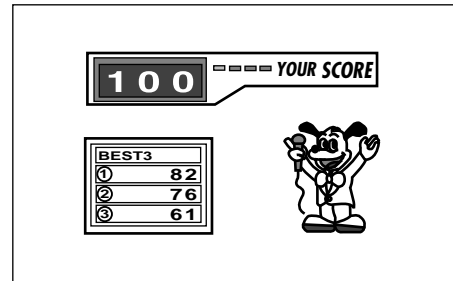
2 Press  at the point of the song to start scoring.



3 Sing.



4 Press  when you finish singing.

Your score appears on the TV screen.
To play the next song, press .







When starting playback using the karaoke reserve function, the score automatically appears on the TV screen after a song ends.



If you press  in the middle of a song, the score appears. Pressing  starts scoring again.

NOTE

- To cancel scoring, press  while the score appears on the TV screen.
- While scoring,  and  do not function. To activate these buttons, press  to display the on-screen display.
- The unit rates your vocal by comparing it with a part of the recorded sound. Note that the rating may differ from the general rating.



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	96
■ Troubleshooting	97
■ AV COMPU LINK remote control system	
Connection and setup	98
Operation	99
■ Specifications	100

Introduction

Preliminary knowledge

Getting started

Basic operations

DVD VIDEO operations

Setting and adjustment

Audio CD operations

Video CD operations

KARAOKE operations

Additional information



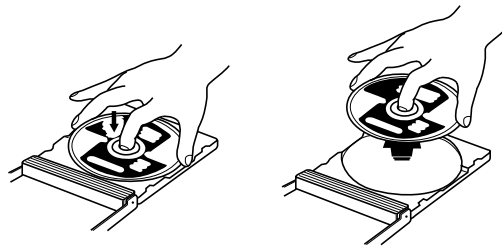
Additional information

Care and handling of discs

How to handle discs

When handling a disc, do not touch the surface of the disc.

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



Even on label side

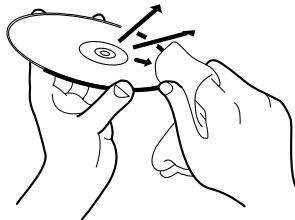
Do not damage the label side, stick paper to or use any adhesive on its surface.

Storage

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

Maintenance of discs

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



CAUTION

Sometimes during play noise or images may be garbled. This is sometimes due to the disc. (It may not be up to industry standards.)

These symptoms are caused by the discs, not by the malfunction of the unit.



Troubleshooting

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

Symptom	Possible case	Remedy
Power does not come on.	Power plug is not inserted securely.	Plug in securely.
Remote control does not work.	Too far from the unit.	Come closer to the unit.
	The tip of the remote unit is not pointed in the right direction.	Point the infrared light- emitting window toward the remote sensor on the front panel.
	Batteries are exhausted.	Replace the batteries with new ones.
	Battery polarity is incorrect.	Take out the batteries and insert them again in the correct direction.
No picture is displayed on the monitor.	Connection of video cable is incorrect.	Connect the cable correctly.
	Input selection of TV is incorrect.	Select correctly.
	Disc is not playable.	Use a playable disc. (See page 13.)
Picture is noisy.	The unit is connected to a VCR directly and the copyguard function is activated.	Connect the unit so that the picture signal flow directly to the TV.
No audio is reproduced.	Connection to stereo system is incorrect.	Check connections.
	Input selection of amplifier is incorrect.	Select correctly.
	The unit is connected only using DIGITAL OUT jack.	Connect the unit using AUDIO OUT jack also.
No sound from headphones.	PHONES LEVEL is too low.	Adjust the PHONES LEVEL.
The microphone signal cannot be monitored.	The microphone switch is set to off.	Turn the switch on.
	The microphone level control is set to minimum (fully left).	Set the control to an appropriate position.
	The Karaoke function is not activated.	Activate the Karaoke function.
Sound is distorted or noise is generated.	Disc is dirty.	Wipe the disc surface.
Picture is garbled.	The screen saver mode is set to MODE 1, and the screen saver function is activated.	Set the screen saver mode to the other mode.
Picture does not fit with the television screen.	MONITOR TYPE is not correctly set.	Select monitor type correctly. (See page 51).
	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.



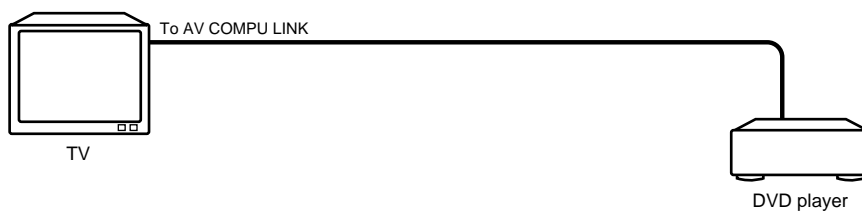
Additional information

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.

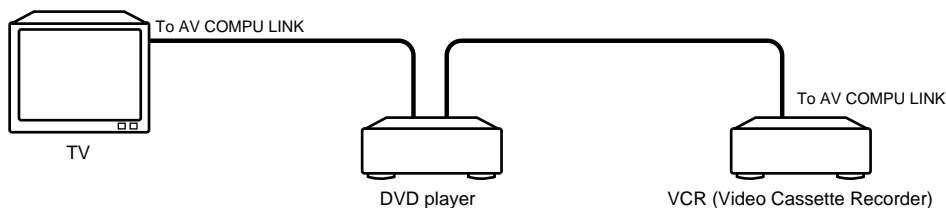
Connection and Setup

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



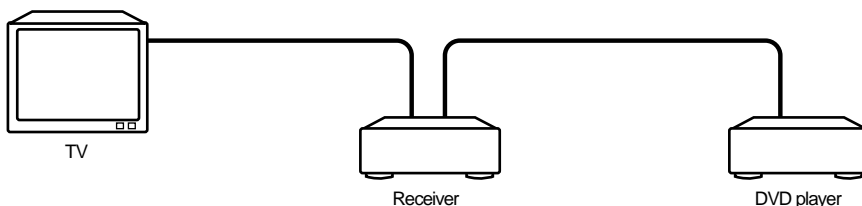
- If you connect a DVD player with a television via AV COMPU LINK, set the DVD player's AV COMPU LINK setting as follows.

- 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 55 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.
- 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.

Operation

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

1 Turn on the main power of the television.

2 Insert a disc into the source component.

3 Press ► of the source component.

The following actions are performed automatically:

- Turning on the power for the television.
- Setting the source of the television to the external input (VIDEO-1 or VIDEO-2).
- Turning on the power for the receiver.
- Setting the source of the receiver to the component which has just started playback.



Additional information

Specifications

General

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

Other

Power requirements: AC 110 – 240V ~ , 50/60Hz
Power consumption: 27 W (POWER ON), 2 W (STANDBY mode)
Mass: 4.5 kg (10.0 lbs)
Dimensions (W x H x D): 435 x 112 x 335 mm
17-3/16 x 4-7/16 x 13-1/4 inch

Video output

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

Audio output

ANALOG OUT (pin jack): ATTENUATOR OFF: 2.0 Vrms (10 k ohms)
ATTENUATOR ON: 1.0 Vrms (10 k ohms)
DIGITAL OUT (optical): - 21 to -15 dBm (Peak)

Audio input

MIC1/MIC2 2 mVrms (8.2 k ohms)

Audio characteristics

Frequency response: CD (sampling frequency 44.1 kHz): 2 Hz to 20 kHz
DVD (sampling frequency 48 kHz): 2 Hz to 22 kHz
DVD (sampling frequency 96 kHz): 2 Hz to 44 kHz
Dynamic range: 16 bit: More than 98 dB
20 bit: More than 106 dB
24 bit: More than 106 dB
Wow and flutter: Unmeasurable (less than $\pm 0.002\%$)
Total harmonic distortion: Less than 0.002%

Supplied accessories

Audio/video cable: x 1
R6P (SUM-3)/AA(15F) batteries: x 2 (for Remote control unit)
Remote Control Unit: x 1
S-video cable: x 1
AC plug adaptor: x 1 (Except Hong Kong and China)
AV COMPU LINK cable: x 1

* 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	Irish
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
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	Albanian
SR	Serbian
SS	Siswati
ST	Sesotho
SU	Sundanese
SV	Swedish
SW	Swahili
TA	Tamil
TE	Telugu
TG	Tajik
TH	Thai
TI	Tigrinya
TK	Turkmen
TL	Tagalog
TN	Setswana
TO	Tonga
TR	Turkish
TS	Tsonga
TT	Tatar
TW	Twi
UK	Ukrainian
UR	Urdu
UZ	Uzbek
VI	Vietnamese
VO	Volapuk
WO	Wolof
XH	Xhosa
YO	Yoruba
ZU	Zulu



Country code list for parental lock

This list is used for the parental Lock operation. For details, see page 56.

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
CA	Canada
CC	Cocos (Keeling) Islands
CF	Central African Republic
CG	Congo
CH	Switzerland
CI	Côte d'Ivoire
CK	Cook Islands
CL	Chile

CM	Cameroon
CN	China
CO	Colombia
CR	Costa Rica
CU	Cuba
CV	Cape Verde
CX	Christmas Island
CY	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	Greece
GS	South Georgia and the South Sandwich Islands
GT	Guatemala
GU	Guam
GW	Guinea-Bissau
GY	Guyana
HK	Hong Kong
HM	Heard Island and McDonald Islands
HN	Honduras
HR	Croatia
HT	Haiti
HU	Hungary
ID	Indonesia
IE	Ireland
IL	Israel
IN	India
IO	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
KH	Cambodia
KI	Kiribati
KM	Comoros
KN	Saint Kitts and Nevis
KP	Korea, Democratic People's Republic of
KR	Korea, Republic of
KW	Kuwait
KY	Cayman Islands
KZ	Kazakhstan
LA	Lao People's Democratic Republic
LB	Lebanon
LC	Saint Lucia



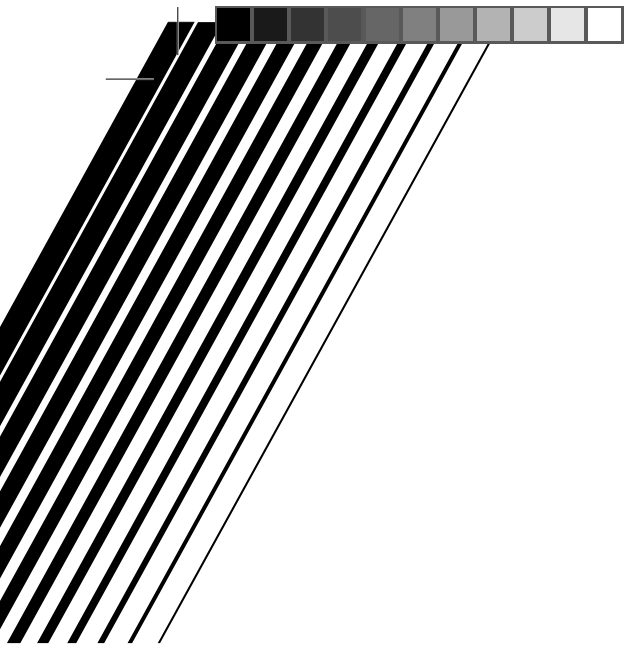
LI	Liechtenstein
LK	Sri Lanka
LR	Liberia
LS	Lesotho
LT	Lithuania
LU	Luxembourg
LV	Latvia
LY	Libyan Arab Jamahiriya
MA	Morocco
MC	Monaco
MD	Moldova, Republic of
MG	Madagascar
MH	Marshall Islands
ML	Mali
MM	Myanmar
MN	Mongolia
MO	Macau
MP	Northern Mariana Islands
MQ	Martinique
MR	Mauritania
MS	Montserrat
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

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	Swaziland
TC	Turks and Caicos Islands
TD	Chad
TF	French Southern Territories
TG	Togo
TH	Thailand

TJ	Tajikistan
TK	Tokelau
TM	Turkmenistan
TN	Tunisia
TO	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




XV-K505GD/XV-K503TN
LET0143-003A
[2U, 3U, 4U, US, UB, UT]



JVC
VICTOR COMPANY OF JAPAN, LIMITED



 EN

 Printed in Japan
0199TTMUBNPRI



XV-K505GD/XV-K503TN
LET0143-003A
[2U, 3U, 4U, US, UB, UT]



JVC Instructions

DVD PLAYER

XV-K505GD/XV-K503TN



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<http://myh66.com>

<http://usermanuals.us>

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