JVC

DVD PLAYER

XV-K505GD/XV-K503TN

DVD VIDEO · VIDEO CD · COMPACT DIGITAL AUDIO TEXT · DOLBY DIGITAL · 3D-PHONIC · dts DIGITAL OUT

INSTRUCTIONS

For Customer Use:

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

Model No.

Serial No.

Warnings, Cautions and Others
Avisos, precuciones y otras notas
Advertêcias, 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 تعرَض هذا الجهاز للمطر أو البلل.

注意
爲了減低觸電，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：
　　爲了防止火災以及觸電，請勿讓本機
淋雨受潮。

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

¡Atención — botón ⏻/|!
Desconectar el cable de alimentación para desactivar la alimentación totalmente. Cualquier que sea la posición de ajuste del botón ⏻/|, la alimentación no es cortada completamente. La alimentación puede ser controlada remotamente.

Atenção — botão ⏻/|!
Desconecte o plugue principal para interromper a energia completamente. O botão ⏻/| em qualquer posição não desconecta a linha principal. A energia pode ser controlada remotamente.

تنبيه ــــ الزر ⏻/| !
افصل قابس سلك التيار لفصل التيار تماماً.
الزر ⏻/| في أي وضع كان لا يفصل التيار الكهربائي تماماً. يمكن التحكم في التيار عن بعد.

注意 ── ⏻/|按鍵
無論 ⏻/|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
雷射產品的重要説明
هـام بـالنسبة لمنتجات الليزر

REPRODUCTION OF LABELS
REPRODUCCIÓN DE ETIQUETAS
REPRODUÇÃO DE ETIQUETAS
標籤內容説明
صور البطاقات

① CLASSIFICATION LABEL, PLACED ON REAR ENCLOSURE
① ETIQUETA DE CLASIFICACIÓN, PEGADA EN LA PARTE POSTE-RIOR DE LA CAJA
① ETIQUETA DE CLASSIFICAÇÃO LOCALIZADA NA PARTE POS-TERIOR DA CAIXA DO APARELHO.
① 分類標簽，貼在機殼背後。
① بطاقة التصنيف، موضوعة على الـهيكل 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 警告標簽，貼於機內。
② بطاقة تحذير، موضوعة داخل الجهاز.

CLASS 1
LASER PRODUCT
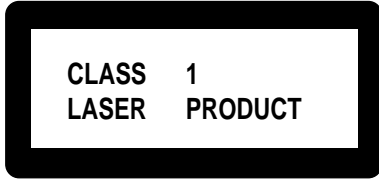
CAUTION	- LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.
ATTENTION	- RAYONNEMENT LASER EN CAS D'OUVERTURE. NE PAS REGARDER DANS LE FAISCEAU.
VORSICHT	- LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT IN DEN STRAHL BLICKEN.
ADVARSEL	- LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN.
ADVARSEL	- LASERSTRÅLING NÅR DEKSEL ÅPNES. STIRR IKKE INN I STRÅLEN.
VARNING	- LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STRRA EJ IN I STRÅLEN.
VARO!	AVATTAESSA OLET ALTTIINA LASERSÄTEILYLLE. ÄLÄ TUIJOTA SÄTEESEEN.
注意	- 当打开这里会出现激光， 请不要直视激光。
注意	- ここを開くとレーザー光が出ます。 レーザー光をのぞき込まないでください。

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

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 rediação 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幅射。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。

١. جهاز ليزر من الفئة ١ CLASS 1 LASER PRODUCT
٢. خطر: أشعة الليزر عرضة للرؤية عند الفتح وإخفاق التأمين الداخلي أو تعطله. تجنب التعرَض المباشر للشعاع.
٣. 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 avoide risk of electric shock and fire and to protect from damage.
Locate the apparatus as follows:
Front: No obstructions open spacing.
Sides: No obstructions in 3 cm from the sides.
Top: No obstructions in 5 cm from the top.
Back: No obstructions in 15 cm from the back
Bottom: No obstructions, place on the level surface.

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 الكهربية والحريق وللحماية من التلف،
قم باختيار موضع تركيب الجهاز كما يلي:
الأَمام: حيِّز مفتوح مع عدم وجود عوائق.
الجانبان: عدم وجود عوائق حتى مسافة ٣ سم من كل جانب.
الأَعلى: عدم وجود عوائق حتى مسافة ٥ سم من أعلى.
الخلف: عدم وجود عوائق حتى مسافة ١٥ سم من الخلف.
الأَسفل: 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 DVD VIDEO Operations

Changing the language and sound

You can operate from the front panel.

You can operate with the remote control unit.

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

Remote Control **Front Panel**

To select the subtitle language [SUBTITLE]

■ During playback

Short cuts

Press SUBTITLE and select the desired subtitle by using (◉).

Short cuts:
Procedures that you can shorten.

1 Press ON SCREEN .

The on-screen display appears on the TV screen.

Hints

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

2 Use (◉) to move ⬐ to [SUBTITLE].

3 Use (◉) to select the desired subtitle.

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

Total number

Hints:
Other convenient procedures.

Hints

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

1/3 ENGLISH

2/3 FRENCH

3/3 SPANISH

–/3 (off)

DVD CONTROL

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

TITLE 03 CHAP. 03
TIME 1 : 34 : 58

SELECT ◀▶ KEY ENGLISH

Selected subtitle number

Selected subtitle

The buttons used in steps are shown as illustlations.

Note:
Additional supplemental remarks

NOTE

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

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Introduction

Notes on care and handling

Important cautions

Installation of the unit

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

Power cord

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

To prevent malfunction of the unit

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

Note about copyright laws

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

Note about the copyguard system

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

Safety precautions

Avoid moisture, water and dust

Do not place your player in moist or dusty places.

Avoid high temperatures

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

When you're away

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

Do not insert foreign objects into the unit

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

Do not block the vents

Blocking the vents may damage the unit.

Care of the cabinet

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

If water gets inside the unit

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

Preliminary knowledge

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

Table of contents of this chapter

Introduction

Preliminary knowledge

Getting started

Basic operations

DVD VIDEO operations

Setting and adjustment

Audio CD operations

Video CD operations

KARAOKE operations

Additional information

Preliminary knowledge

Names of parts and controls

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

Front panel

ENTER, △/▽/▷/◁
(Cursor) buttons

KARAOKE RESERVE button

◄◄ ►►┃ (Skip) buttons

KARAOKE ON/OFF button   KARAOKE CANCEL button

TITLE button

SHUTTLE knob

STANDBY indicator   DIGEST button   Display window

MENU button

⏻/┃ button   Remote sensor

MIC 1/2 input
jacks

ON SCREEN
button

PHONES jack   MIC 1/2 LEVEL
controls

3D PHONIC
button

Disc tray   ▲ (Open/Close)
button

► (Play) button

PHONES LEVEL
control

Numeric
buttons

┃┃ (Pause) button

■ (Stop) button

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 turns on, the STANDBY indicator goes off.

TITLE button (32)
Displays a title menu on the TV screen or monitor.

△/▽/▷/◁ (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 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

Disc indicator

Multi-information window

Time select indicator

RESUME indicator

Function indicator

RESUME

DVD

LINEAR PCM

TITLE   CHAP.
TRACK

KEY
b

EACH
REMAIN
PROGRAM
RANDOM
INTRO
REPEAT 1
A - B
KARAOKE
V.MASK
V.REPLACE

ch Disc

L   R

Linear PCM indicator

Chapter, title, track indicator

Speaker indicator

KEY indicator

Channel indicator

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

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

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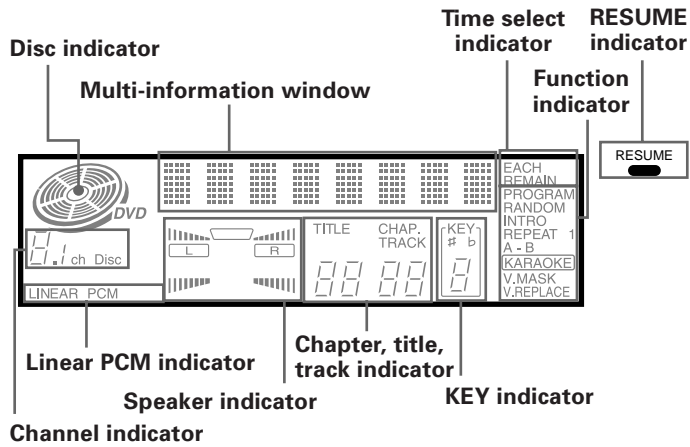Lights when a disc is in the unit. "DVD" also appears when a DVD disc is in the unit.

Function indicator (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.

Rear panel

VIDEO OUT jack

NTSC/PAL switch

S-VIDEO OUT jack

AV COMPU LINK jacks

AC power cord

VIDEO OUT

VIDEO   S-VIDEO

NTSC
PAL

AV COMPU LINK

LEFT

RIGHT

OFF   ON
ATTENUATOR

AUDIO OUT

PCM/STREAM
OPTICAL

DIGITAL OUT

ATTENUATOR switch

AUDIO OUT jacks (LEFT/RIGHT)

DIGITAL OUT jack (OPTICAL)

Region Code label
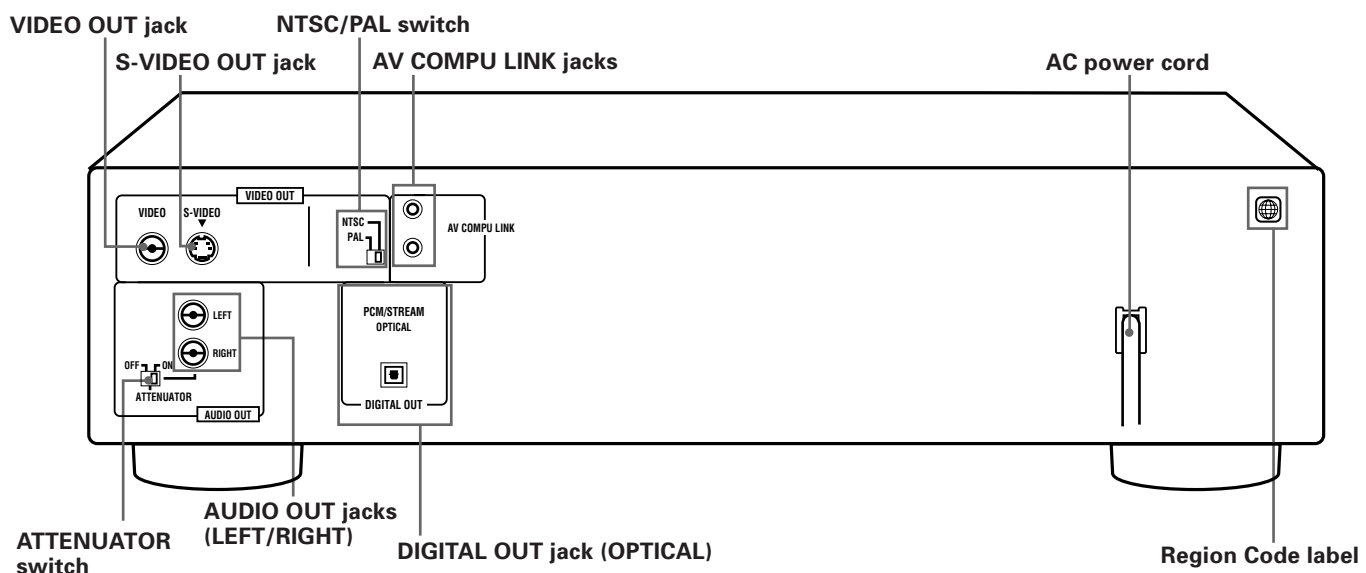
AC power cord (19)
Connects to the wall outlet.

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.

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Preliminary knowledge

Remote control unit

Infrared signal-emitting window

TV ⏻/❘ button

DVD ⏻/❘ button

OPEN/CLOSE button

DVD/TV/KARAOKE switch

CANCEL button
TV/VIDEO button

SET button

RESUME button
KARAOKE RESERVE button

Numeric buttons

SCORING button

TITLE button

MENU button (for DVD)

ENTER, △/▽/▷/◁ (Cursor) button

ON SCREEN button

KARAOKE ON/OFF button
DIGEST button (for DVD/Video CD)

3D PHONIC button
ECHO button

ANGLE button (for DVD)
KEY CONTROL button

RETURN button (for DVD/Video CD)

VOCAL REPLACE button

SUBTITLE button (for DVD)
KARAOKE SOUND button

ZOOM button (for DVD/Video CD)
VOCAL EFFECT button

|◀◀ ▶▶| (Skip), PREVIOUS, NEXT buttons

❚❚ (Pause)/STROBE button

■ (Stop), CLEAR button

▶ (Play)/SELECT button

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

AUDIO VOLUME button

CH button

TV VOLUME button

RM–SVD701UG REMOTE CONTROL

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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 reomte 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 recoded 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 ◁ **1 / 3** ▷ , you can change the setting by placing ⬦ on ◉ .
- ◁ **REPEAT** ▷ - 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 0 to 10 , +10 .
- Some functions become effective by pressing (ENTER) after specifying necessary entries.
- Pressing ⬦ ON SCREEN again exits the on-screen display.

Opening display
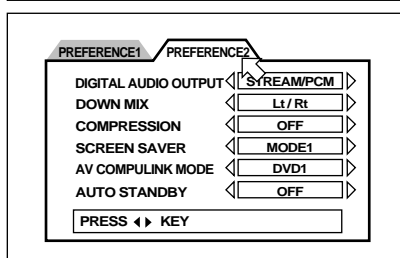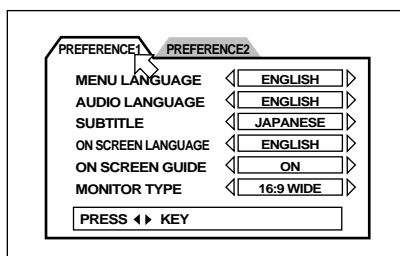
Appears when the unit turns on.

JVC
DVD/Video CD/CD PLAYER

Preference displays (see page 48)

You can set preferences on these displays.

PREFERENCE1 PREFERENCE2

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

PRESS ◀▶ KEY

To display the Preference display

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

2 Press ⬦ ON SCREEN .

PREFERENCE1 PREFERENCE2

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

PRESS ◀▶ KEY

Parental Lock on-screen display (see page 56)

You can set the parental lock from this display.

🔒 **PARENTAL LOCK**

Country Code	◁ CN ▷
Set Level	◁ LEVEL 1 ▷
PASSWORD	– – – –

EXIT

NEW PASSWORD? ••• PRESS 0–9 KEY

To display the Parental Lock on-screen display

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

DVD CONTROL

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

REPEAT
A-B REPEAT
TIME SEARCH
CHAP.SEARCH

St. □□□□□□□□ End   TITLE 03   CHAP. 03
0 ■■■□□□□10Mb   TIME 1 : 34 : 58
PRESS   ENTER ➡ EXECUTE

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

Current title
number

Current chapter
number

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

Transmission rate

Elapsed time from
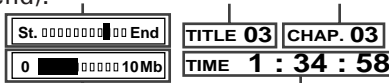the beginning of
the current title
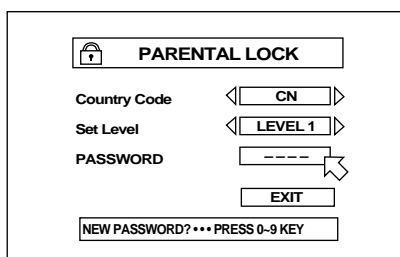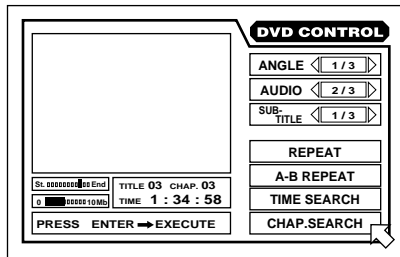
The DVD on-screen display during playback

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

To display the DVD on-screen display
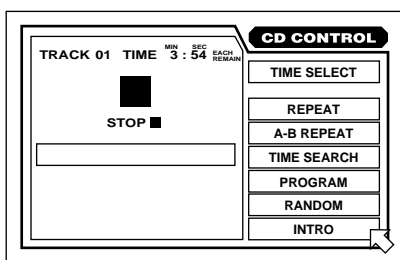
During DVD playback, press ⬜ .
ON SCREEN

CD CONTROL

TRACK 01   TIME MIN SEC EACH
            3 : 54 REMAIN

STOP ■

TIME SELECT
REPEAT
A-B REPEAT
TIME SEARCH
PROGRAM
RANDOM
INTRO
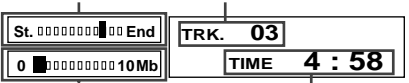
The CD on-screen display

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

To display the CD on-screen display

During Audio CD playback or stop mode, ⬜ .
ON SCREEN

VCD CONTROL

AUDIO ◁ L / R ▷

REPEAT
A-B REPEAT
TIME SEARCH
PBC CALL

St. □□□□□□□□ End   TRK. 03
0 ■□□□□□□10Mb   TIME 4 : 58
PRESS   ENTER ➡ EXECUTE

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

Current track
number

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

Transmission rate

Elapsed time from
the beginning of
the current track

The Video CD on-screen display during playback

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

To display the Video CD on-screen display

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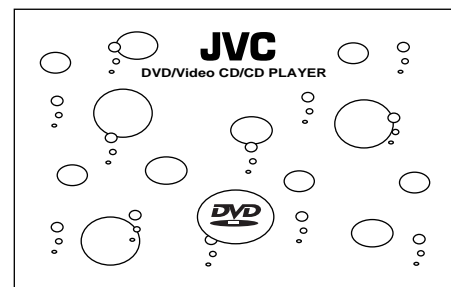ON SCREEN

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
	CD-R
Audio CD	CD-ROM
	PHOTO CD
	CD-RW
	CD-EXTRA

- 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.

Preliminary knowledge

Disc construction

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

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

In the case of an Audio or Video CD, "tracks" are the units. Each song usually has a track number.

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

(Example: DVD disc)

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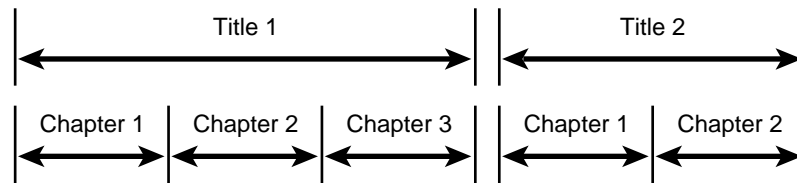
(Example: Audio CD/Video CD)

Track 1	Track 2	Track 3	Track 4
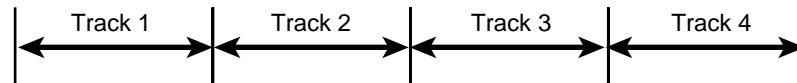
Getting started

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.

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Introduction

Preliminary knowledge

Getting started

Basic operations

DVD VIDEO operations

Setting and adjustment

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Video CD operations

KARAOKE operations

Additional information

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.)

* If the TV has an AV COMPU LINK terminal, see "AV COMPU LINK remote control system" on page 98.
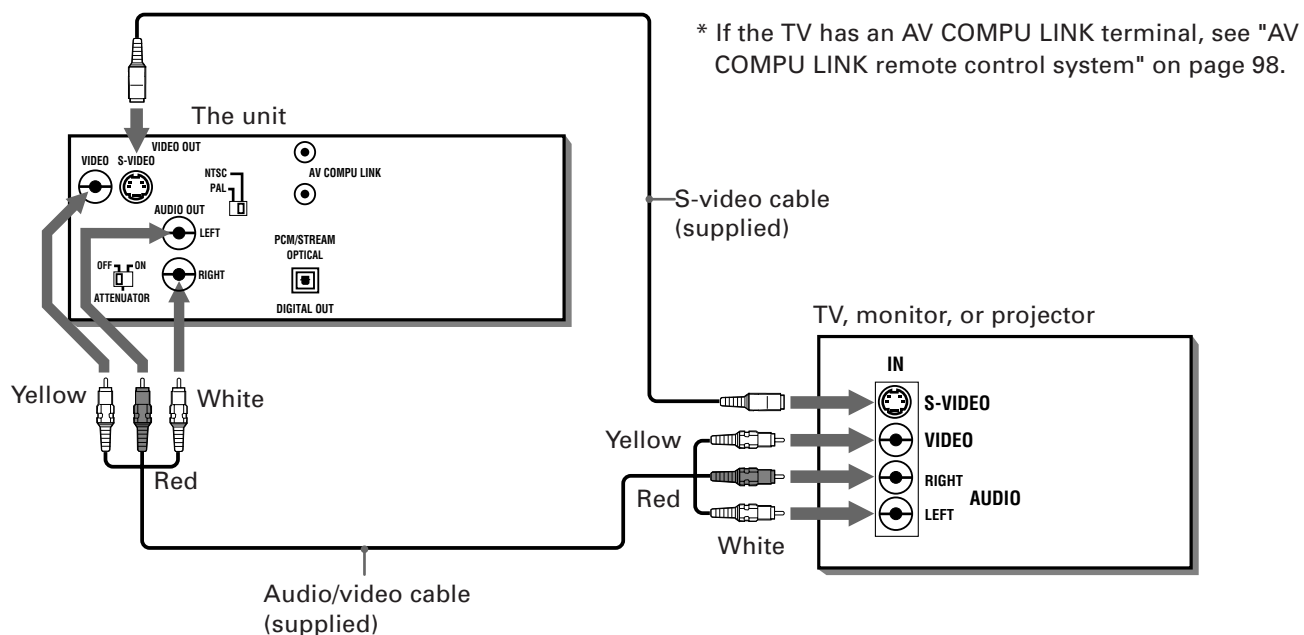
Connect the unit to a television set equipped with stereo audio input and video input jacks using the supplied audio/video cables.

- 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 or 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.**

16

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.

The unit

VIDEO OUT
VIDEO S-VIDEO
NTSC
PAL
AV COMPU LINK
AUDIO OUT
LEFT
PCM/STREAM
OPTICAL
OFF   ON
RIGHT
ATTENUATOR
DIGITAL OUT

Red   White

Amplifier or receiver

Red

IN

RIGHT

AUDIO

LEFT

White

Audio cable
(not supplied)
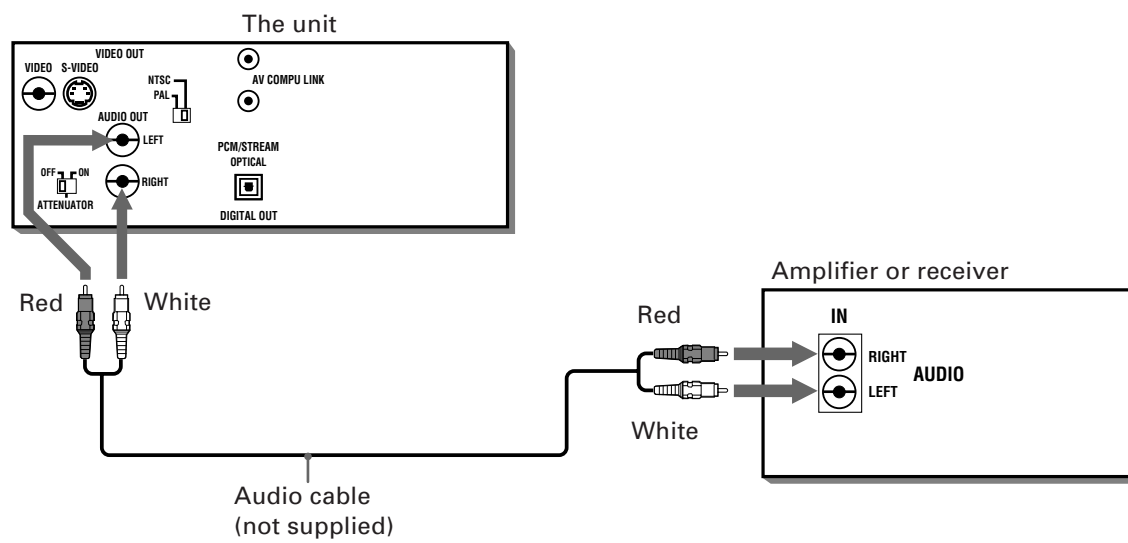
• Connect the unit's AUDIO OUT to any line-level inputs (such as AUX, DVD, CD, etc.) of an audio amplifier or receiver.

To connect to audio equipment with a digital input

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

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

The unit

Optical digital cable (not supplied)

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

Red   White

Red

White

Audio cable (not supplied)
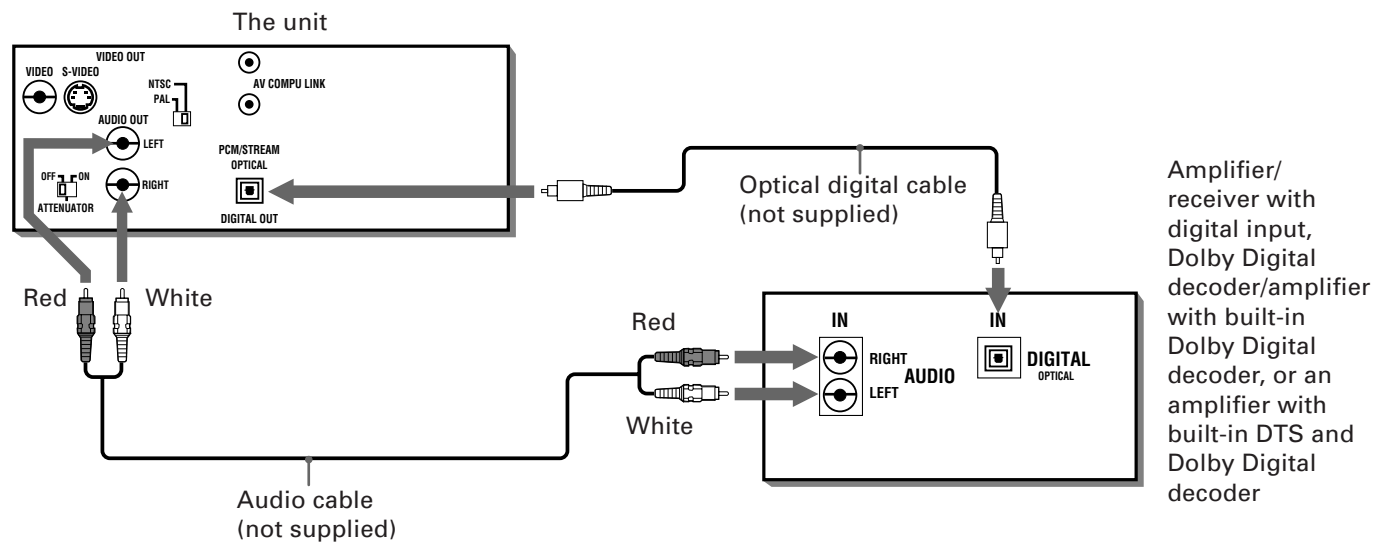
• For digital connection, connect the unit's DIGITAL OUT (optical) to the digital input of a Dolby Digital decoder or an amplifier with built-in Dolby Digital decoder using an optional digital cable.

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.

Getting started

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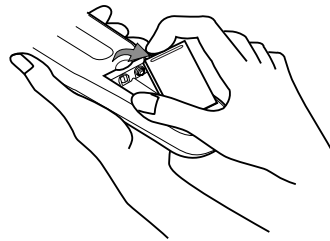
2 Place the two accessory R6P (SUM-3)/AA(15F) batteries in the remote control according to the polarity markings ("+" and "−") inside the compartment and on the batteries.
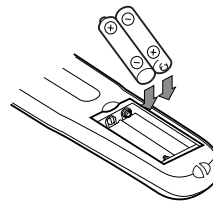
3 Place the cover over the compartment, and press down lightly.
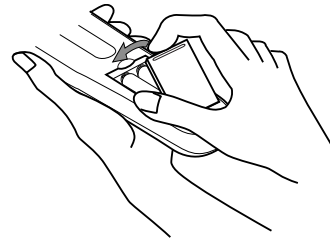
• The batteries will last about six months with normal use. If the functions of the remote control become erratic, replace the batteries. See "Precautions for the safe use of batteries" below for more information.

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 DVD⏻/❙ on the remote control unit.

⏻/❙ button

DVD ⏻/❙ button
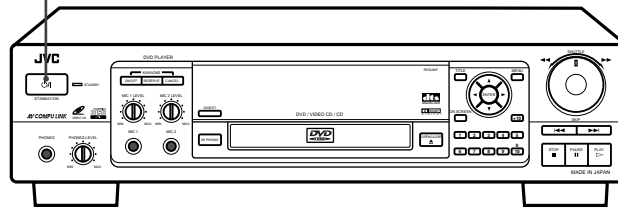
Hints

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

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

Getting started
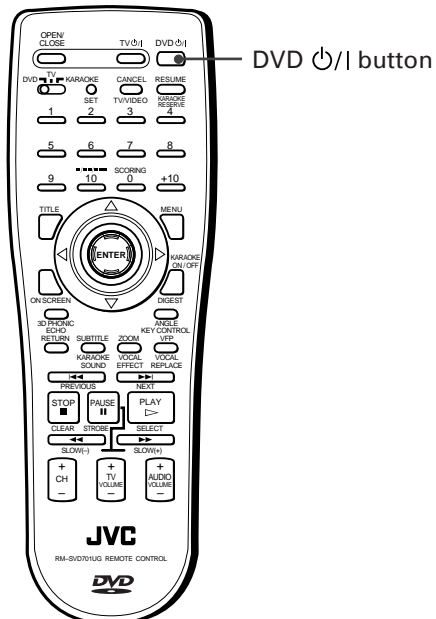
NOTE

● **Even if you press ⏻/❙ or DVD⏻/❙ 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 manufacture's TV, you have to change the remote control signal. Also refer to the manual supplied with your TV.

Changing the remote control signal

1 Set DVD TV KARAOKE on the remote control unit to TV.

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

3 Holding TV ⏻/I, enter the manufacturer's code (two digits) using 0 to 9.
See the lists on the left to find the manufacturer's code.

4 Release TV ⏻/I.

The following buttons can be used for operating the TV:

TV ⏻/I	Turns the TV on or off.
+ CH −	Change the TV channels. (with DVD TV KARAOKE set to TV only)
+ TV VOLUME −	Adjusts the TV volume.
0 **to** 9	Selects the TV channels. (with DVD TV KARAOKE set to TV only)
CANCEL TV/VIDEO	You can switch input mode (either TV or VIDEO). (with DVD TV KARAOKE set to TV only)

5 Try to operate your TV by pressing TV ⏻/I.
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.

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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.

Hints

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

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

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

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

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

Inserting and removing discs

Remote Control   **Front Panel**

To insert or remove discs

1 Press OPEN/CLOSE to open the disc tray.

---

2 Place the disc in the tray.

With the playback side down.

• If a disc is 8-cm disc, place it fitting in the inner recess.

---

3 Press OPEN/CLOSE to close the disc tray.

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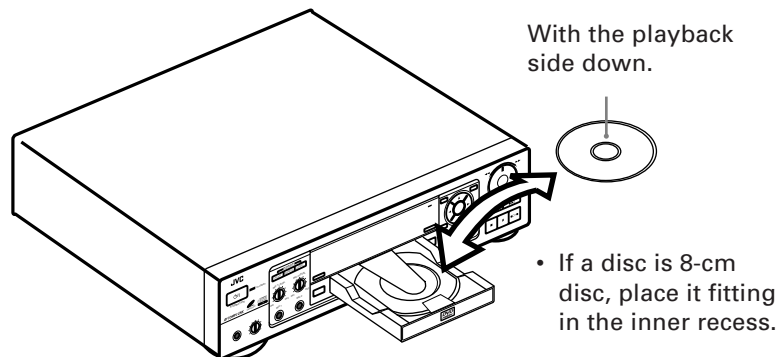
You can also insert and remove the disc from the on-screen display.

1. Use ◎ to move ↖ to ⏏, then press ENTER to open the disc tray.

2. Place or remove the disc.

3. Use ◎ to move ↖ to ⏏, then press ENTER to close the disc tray.

Information about the opening display

When you insert a DVD VIDEO disc

JVC
DVD/Video CD/CD PLAYER

When you insert an Audio CD disc

JVC
DVD/Video CD/CD PLAYER

When you insert a Video CD disc

JVC
DVD/Video CD/CD PLAYER
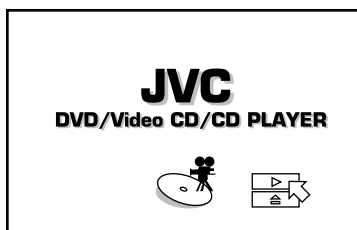
NOTES

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

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

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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.

Remote Control **Front Panel**

To playback a disc from the beginning

Short cuts

Press [PLAY ▷].

The unit starts playback from the beginning.

1 Use ◎ to move ⬉ to [▷], then press **ENTER**.

JVC
DVD/Video CD/CD PLAYER

■ The unit starts playback from the beginning.

Hints

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

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 [+ TV VOLUME] to increase the volume, and [TV VOLUME −] to decrease the volume.

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

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

• **For headphones**
  To increase the volume, turn PHONES LEVEL ⌀ to the right. To decrease the volume, turn PHONES LEVEL ⌀ to the left.

Remote Control **Front Panel**

To stop playback completely

1 Press [STOP ■].

■ The unit stops playback.

Remote Control | Front Panel

To stop playback temporarily

1 Press [PAUSE ▮▮].

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

Remote Control | Front Panel

To advance or reverse play rapidly while monitoring

■ During playback

1 Press [⯮ SLOW(+)] or [⯬ SLOW(–)].

Press [⯮ SLOW(+)] to advance playback rapidly, and [⯬ SLOW(–)] to reverse playback rapidly. Each time you press the button, advance playback or reverse playback speed increases. To return to the normal playback, press [PLAY ▷].

Basic operations

Hints

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

SHUTTLE knob

Remote Control | Front Panel
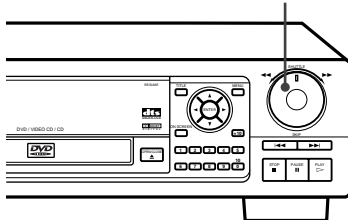
To locate the beginning of the scene or song

■ During playback

1 Press [⯮⯮ NEXT] or [⯬⯬ PREVIOUS].

Press [⯬⯬ PREVIOUS] to locate the beginning of the current chapter, title, or track, and press [⯮⯮ NEXT] to locate the beginning of the next chapter, title, or track.

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

Hints

Keep pressing [⯮⯮ NEXT] or [⯬⯬ PREVIOUS] 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.

[Remote Control]

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

■ During playback

1 Press RESUME.

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

The last stored memory overrides the previous memory.

Hints

You can store the position on a disc you want to interrupt playback at by pressing DVD⏻/I instead of RESUME.

[Remote Control]

To resume playback from the stored point [RESUME]

■ During stop mode

1 Press RESUME.

The unit starts playback from the stored position.

Hints

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

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.

Remote Control **Front Panel**

To simulate the surround sound [3D PHONIC]

■ During playback

1 Press 3D PHONIC.

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

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

ACTION*
↓
DRAMA
↓
THEATER
↓
OFF
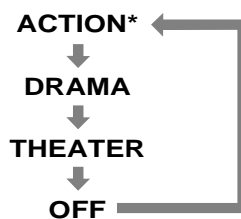
Selected effect mode

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

3 Press ⊚ to adjust the effect level.

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

Effect level

Hints

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

NOTES

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

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

● **The sound effect is not possible, and will not work even if set when the unit outputs the DTS or Dolby Digital bitstream signal from the DIGITAL OUT jack.**

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

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

Basic operations

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

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	◀◀ SLOW(–) / ▶▶ SLOW(+) or turn the shuttle knob and hold.
Locate the beginning of the scene or song	I◀◀ PREVIOUS / ▶▶I NEXT until it clicks.

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

Hints

To enter 10 or 0 using the numeric buttons on the front panel, press $\frac{0}{10}$.

How to use numeric buttons on the remote control unit

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

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

1. Set DVD · TV · KARAOKE to DVD.

2. Select the desired track or title number.

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

   Press the corresponding button for the number.

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

   Use +10.

   Example :

   To select 13   +10 → 3

   To select 34   +10 → +10 → +10 → 4

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

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

1. Set DVD · TV · CATV to DVD.

2. Select the time.

   Example (for DVD VIDEO):

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

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

   Example (for Audio CD/Video CD):

   3 minutes 20 seconds   0 → 3 → 2 → 0

   65 minutes 30 seconds   6 → 5 → 3 → 0

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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Introduction

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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.

Remote Control **Front Panel**

To locate the desired scene from the menu

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

■ Insert the DVD disc.

Hints

About MENU **and** TITLE

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 TITLE. 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 MENU.

1 Press MENU or TITLE.

The menu appears on the TV screen.

Example

1 **2** **3**
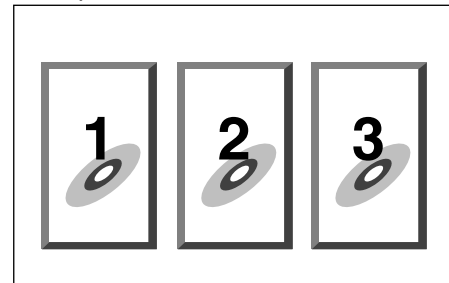
2 Use ⊚ to select the desired item, then press ⊙ENTER.

■ The unit starts playback of the selected item.

Hints

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

NOTES

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

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

Remote Control   **Front Panel**

To locate the desired scene by specifying the title number

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

■ During stop mode

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

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

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

■ The unit begins playback from the selected title.

DVD VIDEO operations

NOTE

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

Remote Control **Front Panel**

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

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

■ During playback

1 Press ON SCREEN .

The on-screen display appears on the TV screen.

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

<GO TO CHAPTER> appears in the message area.

The color of [CHAP. SEARCH] changes.

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

St. 00000000 00 End | TITLE **03** CHAP. **03**
0 ▮ 003001 0Mb | TIME **1 : 34 : 58**
GO TO CHAPTER:

Message area

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

Selected chapter number appears in the message area.

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

■ The unit begins playback from the selected chapter.

Hints

• To enter 0 on the front panel, press 0/10.

• 10 and +10 on the remote control unit or +10 on the front panel are not used in this function.

NOTES

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

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

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

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Remote Control **Front Panel**

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

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

■ During playback

1 Press ⬜︎.
ON SCREEN

The on-screen display appears on the TV screen.

2 Use ◎ to move ▷ to [TIME SEARCH], then press (ENTER).

<GO TO> appears in the message area.

The color of [TIME SEARCH] changes.

DVD CONTROL
ANGLE ◁ **1 / 3** ▷
AUDIO ◁ **2 / 3** ▷
SUB-TITLE ◁ **1 / 3** ▷
REPEAT
St. 00000000 00 End   TITLE **03** CHAP. **03**   A-B REPEAT
0   00000 10Mb   TIME **1 : 34 : 58**   TIME SEARCH
GO TO _ :   :   ➡ ENTER   CHAP.SEARCH

Message area

DVD VIDEO operations

Hints

• To enter **0** on the front panel, press ⬚ 0/10 .

• ⬚ 10 and ⬚ +10 on the remote control unit or +10 on the front panel are not used in this function.
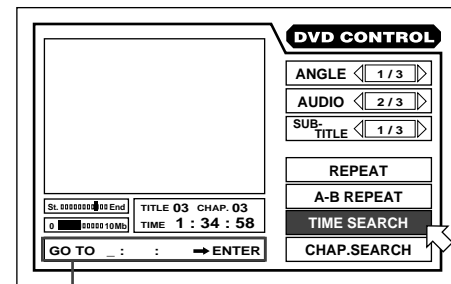
3 Use ⬚ 0 to ⬚ 9 to select the time (hour, minute, and second) then press (ENTER).

Example 1:
To playback from the 1 hour point.

GO TO   _ :   :

↓ Press ⬚ 1 .
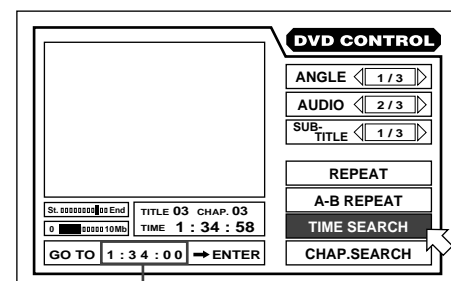
GO TO   1 : _   :

↓

Press (ENTER).

DVD CONTROL
ANGLE ◁ **1 / 3** ▷
AUDIO ◁ **2 / 3** ▷
SUB-TITLE ◁ **1 / 3** ▷
REPEAT
St. 00000000 00 End   TITLE **03** CHAP. **03**   A-B REPEAT
0   00000 10Mb   TIME **1 : 34 : 58**   TIME SEARCH
GO TO **1 : 3 4 : 0 0** ➡ ENTER   CHAP.SEARCH

Selected time

DVD DVD VIDEO Operations

Example 2:
To select playback from 2 hour 34 minutes:
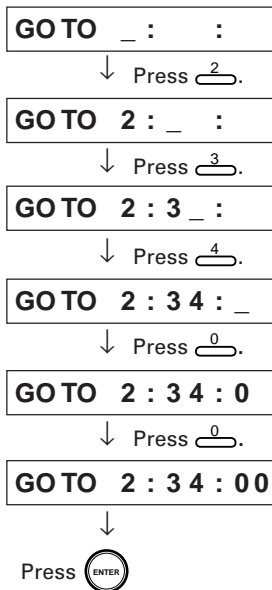
GO TO   _ :   :

↓ Press 2.

GO TO   2 : _   :

↓ Press 3.

GO TO   2 : 3 _ :

↓ Press 4.

GO TO   2 : 3 4 : _

↓ Press 0.

GO TO   2 : 3 4 : 0

↓ Press 0.

GO TO   2 : 3 4 : 0 0

↓

Press ENTER

Short cuts

After pressing 4, press ENTER.

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

■ 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   2 : 3 5 : _

↓ Press.

GO TO   2 : 3 5 :

↓ Press 4.

GO TO   2 : 3 4 : _
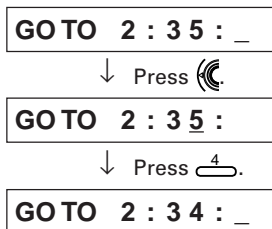
● **When ⊘ appears in the TV screen in step 2:**
The time you select is not contained on the disc, or time search does not work on the disc.

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

Remote Control **Front Panel**

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

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

■ During stop mode

Hints

When you press [DIGEST] 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.

Hints

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

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

1 Press [DIGEST].

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

The up to nine opening scenes are displayed.

2 Use ⊚ to select the desired title.

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

Selected title

3 Press [ENTER].

■ The unit begins playback from the selected title.

DVD VIDEO operations

NOTE

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

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.

Remote Control **Front Panel**

To display still pictures [STROBE]

■ During playback

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

Hints

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.

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.

Remote Control **Front Panel**

To playback in slow-motion [SLOW]

■ During playback

1 Press ⏸, then press ▶▶ SLOW(+) or ◀◀ SLOW(−).

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

Hints

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

To pause slow-motion play

Press ⏸.

Hints

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

1. Press ⏸ to pause playback.

2. Turn the SHUTTLE knob to the right to play in slow-motion, 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.

┌─ **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.

Remote Control

To playback a scene close-up [ZOOM]

■ During playback or pause

1 Press ⊂ᶻᵒᵒᵐ⊃.

[ZOOM] appears on the TV screen.

The unit zooms in to the center part of the scene to produce a double-sized image.
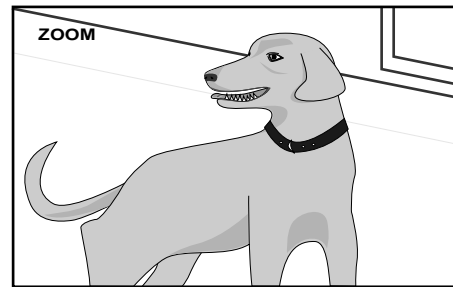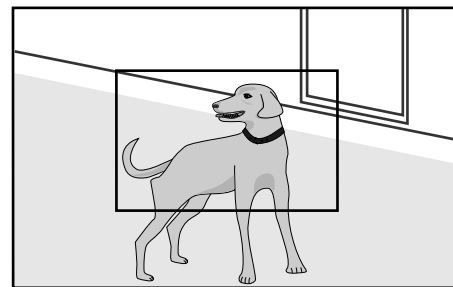
DVD VIDEO operations

2 Use 🎯 to move the zoomed-in scene.
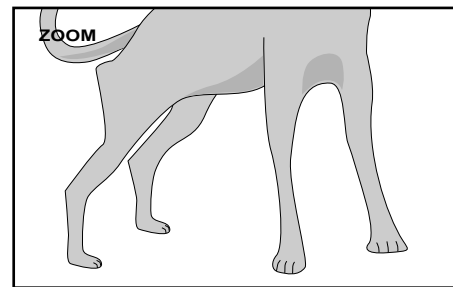
To pause zoom play

Press [PAUSE ❚❚].
To resume zoom play, press [PLAY ▷].

NOTE

● **To cancel zoom play**
  Press ⊂ᶻᵒᵒᵐ⊃.

DVD 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.

Remote Control **Front Panel**

To repeat a title or chapter [REPEAT]

■ During playback

1 Press [ON SCREEN].

The on-screen display appears on the TV screen.

2 Use ⊚ to move ◁ to [REPEAT], then press (ENTER).

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

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

DVD CONTROL

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

St. 0000000000 End TITLE **03** CHAP. **03**
0 ████0000010Mb TIME **1 : 34 : 58**
PRESS ENTER ➡ EXECUTE
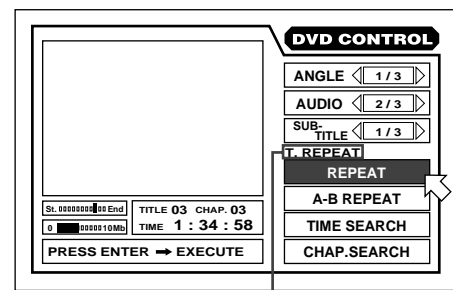
Selected repeat mode appears on the TV screen.

■ The current title or chapter will be repeated.

NOTES

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

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

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

Remote Control **Front Panel**

To repeat a desired part [A-B REPEAT]

■ During playback

1 Press ⃝ .
ON SCREEN

The on-screen display appears on the TV screen.

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

The color of "A-B REPEAT" changes.

DVD CONTROL

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

REPEAT
A-B REPEAT
TIME SEARCH
CHAP.SEARCH

St. 00000000:00 End | TITLE **03** CHAP. **01**
0 ▮▮▮00000 10Mb | TIME **0 : 00 : 03**
A 0 : 0 0 : 0 3 ➡ **B : :**
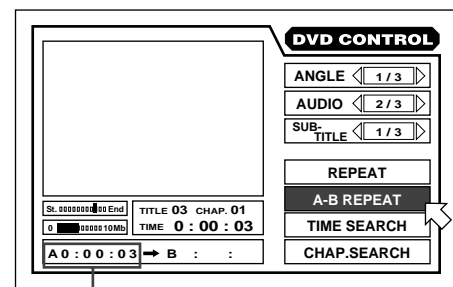
Point A

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

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

DVD CONTROL

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

REPEAT
A-B REPEAT
TIME SEARCH
CHAP.SEARCH

St. 00000000:00 End | TITLE **03** CHAP. **01**
0 ▮▮▮00000 10Mb | TIME **0 : 08 : 52**
A 0 : 0 0 : 0 3 ➡ **B 0 : 0 8 : 5 2**
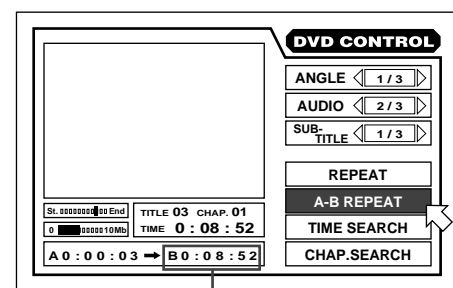
Point B

■ The selected portion will be repeated.

DVD VIDEO operations

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

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

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

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

└──┘

Viewing from multiple angles

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

Remote Control

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

■ During playback

1 Press ▭ₐₙGₗₑ.

2 Press ▭ₐₙGₗₑ or ◎ to select the desired angle.

Each time you press ▭ₐₙGₗₑ or ◎, the scene changes.

Remote Control **Front Panel**

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

■ During playback

1 Press ⬠ₒₙ SCREEN .

The on-screen display appears on the TV screen.

2 Use ◎ to move ◁ to [ANGLE].

The total number of recorded angles

DVD CONTROL

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

REPEAT
A-B REPEAT
TIME SEARCH
CHAP.SEARCH

St. ███████ End TITLE **03** CHAP. **03**
0 ███ 00000 10Mb TIME **1 : 34 : 58**
SELECT ◀▶ KEY
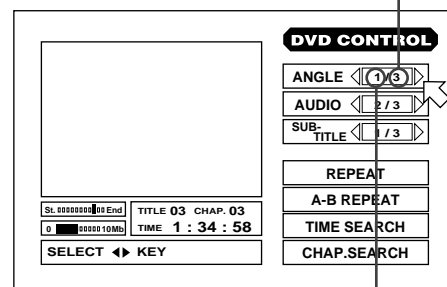
The current angle number

3 Use ◎ to select the desired angle number.

Example:

1 / 3
↓
2 / 3
↓
3 / 3
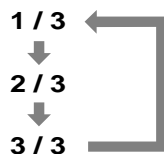
NOTES

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

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

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

Remote Control

■ 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.
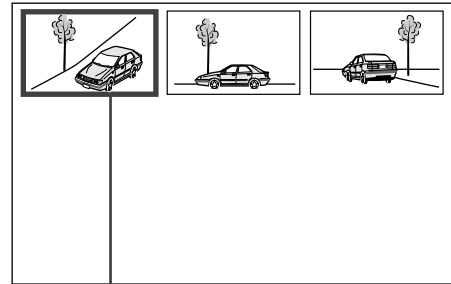
The selected scene angle

2 Use ◎ to select desired angle.

3 Press ⬭ENTER.

■ The selected angle appears on the TV screen.

DVD VIDEO operations

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

DVD DVD VIDEO Operations

Changing the language and sound

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

Remote Control   **Front Panel**

Short cuts

Press ^{SUBTITLE} and select the desired subtitle by using ◎.

Hints

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

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 ⬜ ON SCREEN.

The on-screen display appears on the TV screen.

2 Use ◎ to move ◁ to [SUBTITLE].

3 Use (◎) to select the desired subtitle.

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

Example:

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

Total number

DVD CONTROL

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

REPEAT
A-B REPEAT
TIME SEARCH
CHAP.SEARCH

St. 00000000 00 End   TITLE **03** CHAP. **03**
0 ▮▮ 0000010Mb   TIME **1 : 34 : 58**
SELECT ◀▶ KEY ENGLISH

Selected subtitle number

Selected subtitle

NOTE

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

Remote Control   **Front Panel**
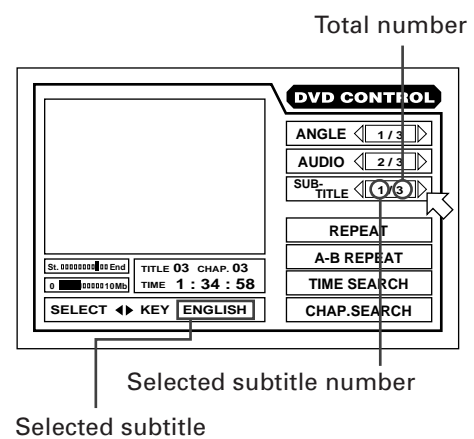
To change the audio language or sound selection [AUDIO]

■ During playback

1 Press $\square_{\text{ON SCREEN}}$.

The on-screen display appears on the TV screen.

2 Use ◎ to move ▷ to [AUDIO].

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

REPEAT
St.■■■■■■■■End  TITLE 03  CHAP. 03    A-B REPEAT
0 ■■■■■■10Mb   TIME  1 : 34 : 58     TIME SEARCH
SELECT ◀▶ KEY  ENGLISH               CHAP.SEARCH
```
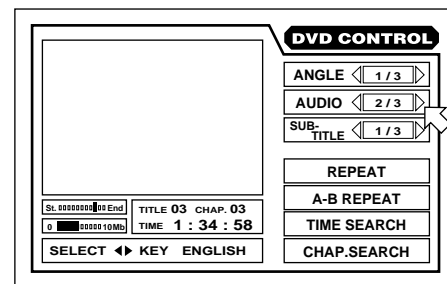
3 Use (◎) to select desired audio language or sound.

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

Example:

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

Total number

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

REPEAT
St.■■■■■■■■End  TITLE 03  CHAP. 03    A-B REPEAT
0 ■■■■■■10Mb   TIME  1 : 34 : 58     TIME SEARCH
SELECT ◀▶ KEY  ENGLISH               CHAP.SEARCH
```

Selected audio number

Selected audio language
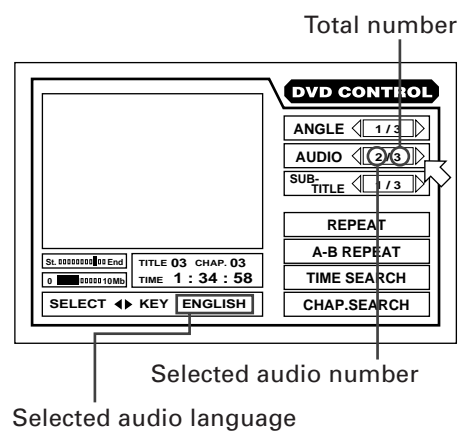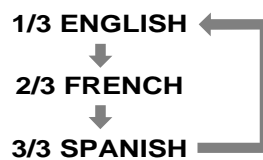
DVD VIDEO operations

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 .

Table of contents of this chapter

Introduction

Preliminary knowledge

Getting started

Basic operations

DVD VIDEO operations

Setting and adjustment

Audio CD operations

Video CD operations

KARAOKE operations

Additional information

47

DVD Setting and adjustment

Selecting preferences

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

Remote Control Front Panel

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.

2 Press ▭ .
ON SCREEN

The "PREFERENCE" display appears on the TV screen.

The "PREFERENCE" display consists of two pages. To turn the page, move ◁▷ to the desired tab using (◎).

Preference 1

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

Preference 2

```
PREFERENCE1   PREFERENCE2
  DIGITAL AUDIO OUTPUT ◁ STREAM/PCM ▷
  DOWN MIX             ◁ Lt / Rt ▷
  COMPRESSION          ◁ OFF ▷
  SCREEN SAVER         ◁ MODE1 ▷
  AV COMPULINK MODE    ◁ DVD1 ▷
  AUTO STANDBY         ◁ OFF ▷
  PRESS ◁▷ KEY
```
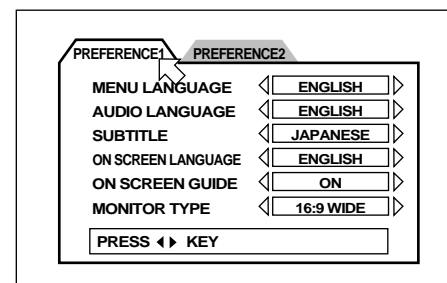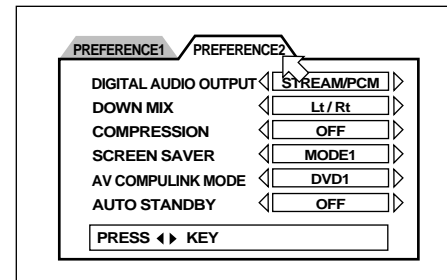
3 Move ◁▷ to select the item you want to set by using (◎) .

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

Selected item

4 Press (◎) to select the setting you want.

Hints

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)

Hints

To return to the normal screen, press ▭ .
ON SCREEN

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.)

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

Selected language

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

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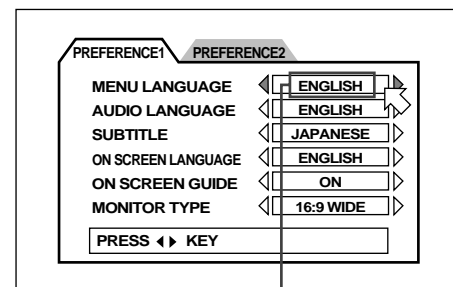
AUDIO LANGUAGE

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

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

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

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

Selected language

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

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

Setting the unit
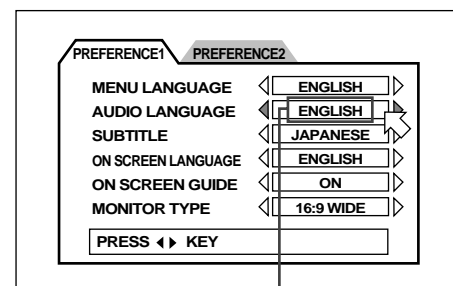
SUBTITLE

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.

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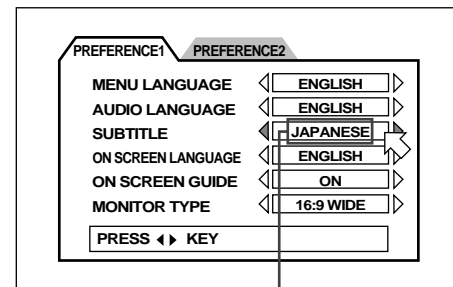
Selected language

ON SCREEN LANGUAGE

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

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

ENGLISH
↓
ESPAÑOL (Spanish)
↓
中國語 **(Chinese)**

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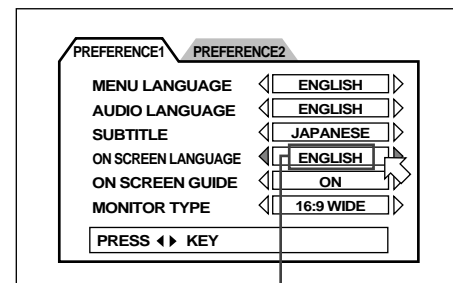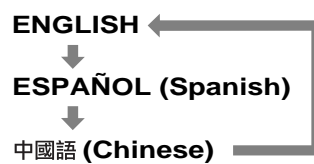
Selected language

English   **ON SCREEN LANGUAGE** ◁ **ENGLISH** ▷

Spanish   **IDIOMA EN PANTALLA** ◁ **ESPAÑOL** ▷

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.

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ON SCREEN GUIDE

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

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

- **ON**
  The guide display turns on.

- **OFF**
  The guide display turns off.
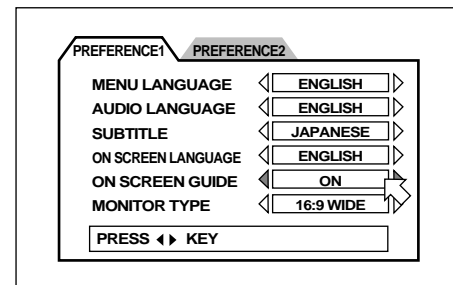
Examples of "On-screen guide" icons or characters to be off:
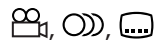
MONITOR TYPE

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

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

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

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

Setting the unit

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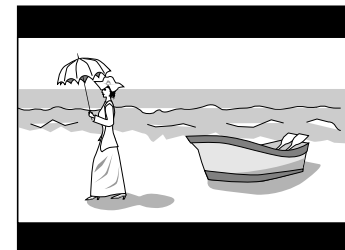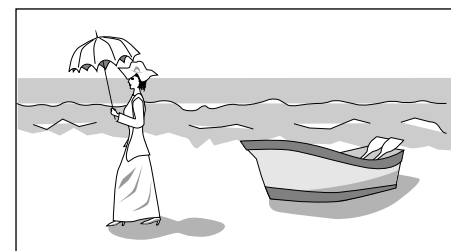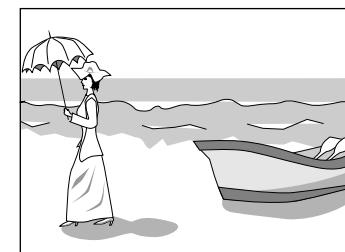
To set other preference items

The PREFERENCE 2 can be set as follows:

DIGITAL AUDIO OUTPUT

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

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

- **PCM ONLY:**
  When you connect the DIGITAL OUT jack of the unit 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
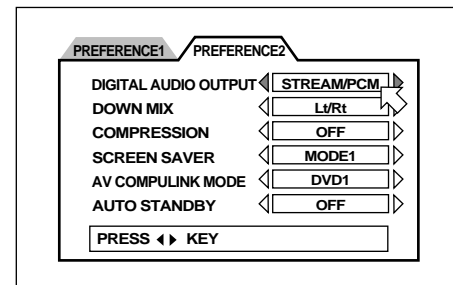
The following chart shows the relationship between types of playback discs and output signals.

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 amplifer connected to the AUDIO OUT jack of the unit to minimum.

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

DOWN MIX

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

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

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

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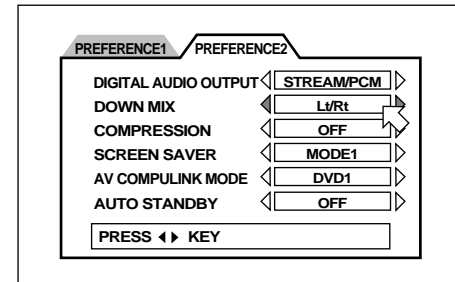
COMPRESSION

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

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

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

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

Setting the unit
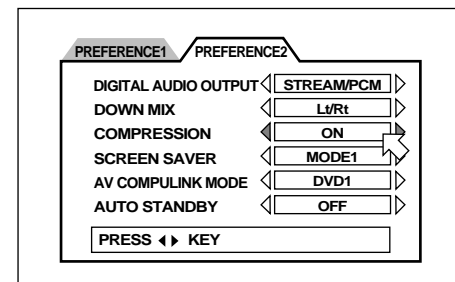
NOTES

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

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

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

DVD Setting and adjustment

SCREEN SAVER

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

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

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

• **DIMMER**
  The picture gets dark.

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

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

JVC
DVD/Video CD/CD PLAYER
DVD
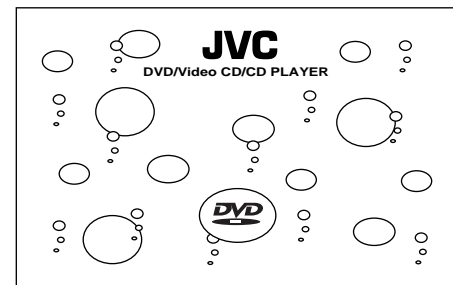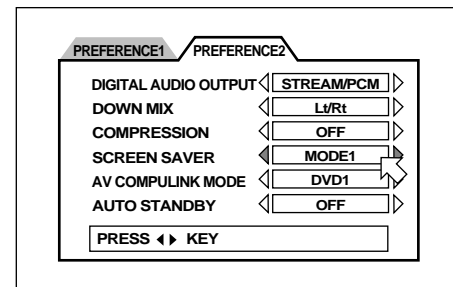
NOTES

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

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

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

AV COMPULINK MODE

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

```
PREFERENCE1  PREFERENCE2

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

PRESS ◄► KEY
```
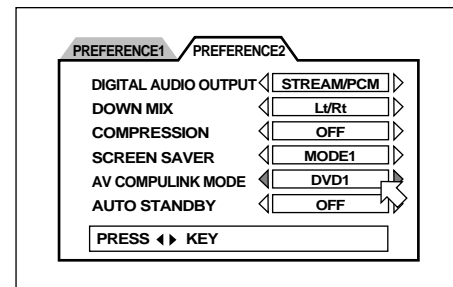
AUTO STANDBY

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

• **60**
  Time is set to 60 minutes.

• **30**
  Time is set to 30 minutes.

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

```
PREFERENCE1  PREFERENCE2

DIGITAL AUDIO OUTPUT    STREAM/PCM
DOWN MIX                Lt/Rt
COMPRESSION             OFF
SCREEN SAVER            MODE1
AV COMPULINK MODE       DVD1
AUTO STANDBY            60

PRESS ◄► KEY
```

Setting the unit

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DVD Setting and adjustment
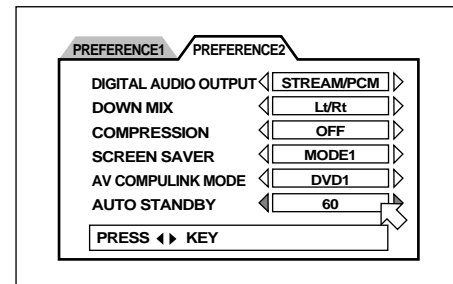
Limiting playback by children

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

Remote Control

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

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

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

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

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

Hints

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 (ENTER).

```
        🔒    PARENTAL LOCK

  Country Code        ◁  CN  ▷
  Set Level           ◁ LEVEL 8 ▷
  PASSWORD              – – – –

                        EXIT

  PRESS ◀▶ KEY  ➡  ENTER
```

Country code

Hints

"LEVEL1" is the strictest level.
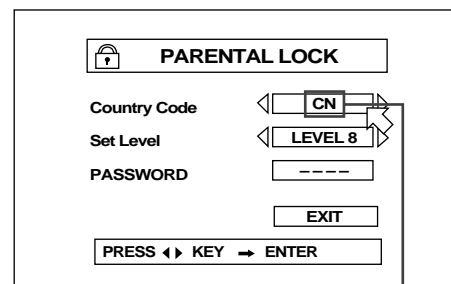
3 Use (◎) to select the parental lock level.

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

```
        🔒    PARENTAL LOCK

  Country Code        ◁  CN  ▷
  Set Level           ◁ LEVEL1 ▷
  PASSWORD              – – – –

                        EXIT

  PRESS ◀▶ KEY  ➡  ENTER
```

Selected level

4 Press (ENTER).

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

```
        🔒    PARENTAL LOCK

  Country Code        ◁  CN  ▷
  Set Level           ◁ LEVEL1 ▷
  PASSWORD              – – – –

                        EXIT

  NEW PASSWORD? • • • PRESS 0–9 KEY
```
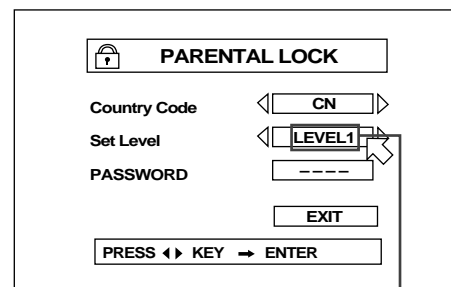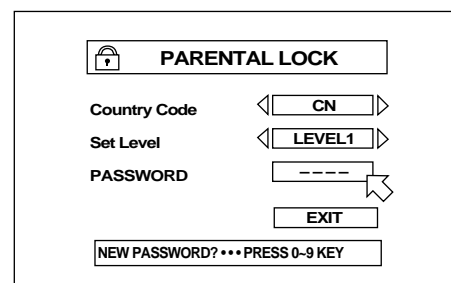
■ The parental level and password are set.

Setting and adjustment   **DVD**

Remote Control

To change the settings [PARENTAL LOCK]

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

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

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

```
┌─────────────────────────────────┐
│  🔒    PARENTAL LOCK             │
│                                  │
│  Country Code      ◁  CN  ▷      │
│  Set Level         ◁ LEVEL1 ▷    │
│  PASSWORD            ─ ─ ─ ─      │
│                                  │
│                      EXIT        │
│ CURRENT PASSWORD? ••• PRESS 0–9 KEY │
└─────────────────────────────────┘
```
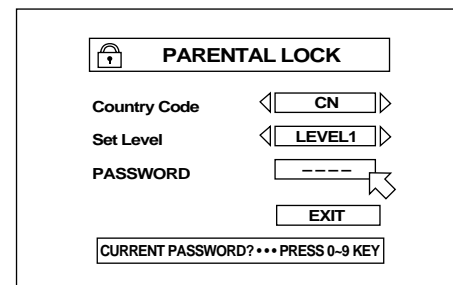
2 Enter your current 4-digit password using ⌐0 to ⌐9 and press (ENTER).

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

Hints

"LEVEL1" is the strictest level.

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

```
┌─────────────────────────────────┐
│  🔒    PARENTAL LOCK             │
│                                  │
│  Country Code      ◁  CN  ▷      │
│  Set Level         ◁ LEVEL8 ▷    │
│  PASSWORD            ─ ─ ─ ─      │
│                                  │
│                      EXIT        │
│  PRESS ◀▶ KEY  →  ENTER          │
└─────────────────────────────────┘
```

Selected level

Setting the unit
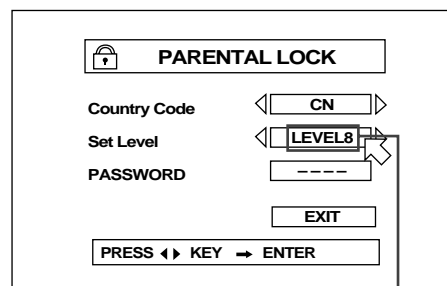
4 Press (ENTER).

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

■ The new setting is effective.

┌─ **NOTES** ──┐
│   │
│ ● When you enter the wrong password more than 3 times in step 2 above, │
│   ⬊ moves to <EXIT> automatically and ◎ does not work.   │
│   │
│ ● If you forget your password in step 2   │
│   Enter "8888."   │
└──┘

DVD Setting and adjustment

Remote Control

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 ⊙ENTER.

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

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

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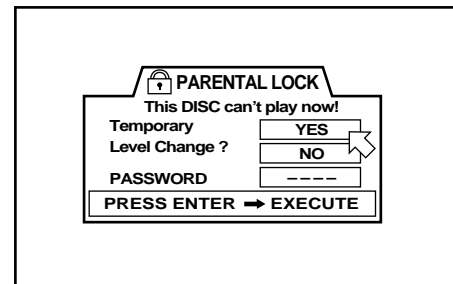
2 Enter your 4-digit password using ⓪ to ⑨.

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

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

┌─ **NOTE** ───┐
● When you enter the wrong password more than 3 times in step 2 above,
  ↖ moves to <NO> automatically and ⊚ does not work.
└──┘

Audio CD operations

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

Introduction

Preliminary knowledge

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Basic operations

DVD VIDEO operations

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Audio CD 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.

Remote Control **Front Panel**

To locate a desired track using ▶▶|NEXT or |◀◀PREVIOUS

■ During playback

Hints

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

1 Press ▶▶|NEXT or |◀◀PREVIOUS.

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

Display window

```
                    TRACK
                     15
```

Selected track number

Remote Control **Front Panel**

To locate a desired track directly

■ During playback or stop mode

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

Example:

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

Display window

```
                    TRACK
                     15
```
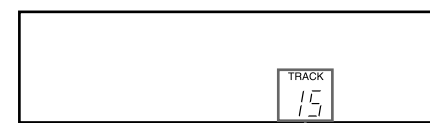
Selected track number

■ The unit starts playback from the selected track.

Remote Control   **Front Panel**

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

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

1 Press ⬜.
ON SCREEN

The on-screen display appears on the TV screen.

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

The color of "TIME SEARCH" changes.

```
TRACK 01    TIME  3 : 54  MIN  SEC  EACH REMAIN    CD CONTROL
                                                   TIME SELECT
      PRESS NUMERIC KEY                            REPEAT
         GO TO  _ :   MIN  SEC                     A-B REPEAT
                                                   TIME SEARCH
                                                   PROGRAM
                                                   RANDOM
                                                   INTRO
```

Hints

• To enter 0 on the front panel, press 0/10 .

• 10 and +10 on the remote control unit or +10 on the front panel are not used in this function.
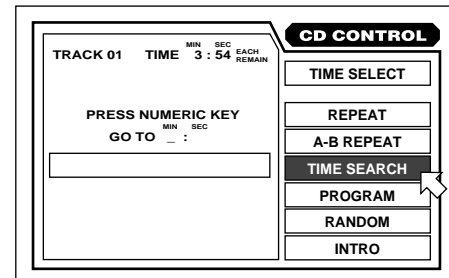
3 Use 0 to 9 to select the time (minute and second) then press ⊙.
ENTER

Example:
To playback from 2 minutes 34 seconds.

```
GO TO _   :
        ↓  Press 0.
GO TO 0_  :
        ↓  Press 2.
GO TO 02 : _
        ↓  Press 3.
GO TO 02 : 3 _
        ↓  Press 4.
GO TO 02 : 3 4
        ↓
Press  ENTER
```

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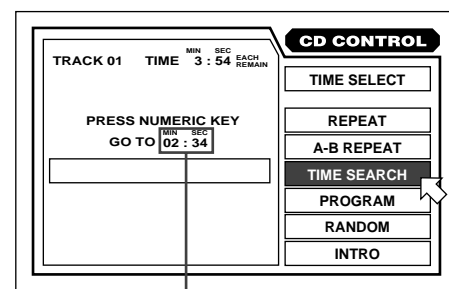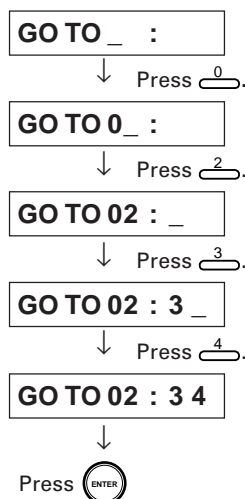
Selected time

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.

```
GO TO  2 : 3 5 : _
        ↓  Press ◖.
GO TO  2 : 3 5 :
        ↓  Press 4.
GO TO  2 : 3 4 : _
```

■ The unit starts playback from the selected time.

Audio CD operations

Audio CD 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.

Remote Control   Front Panel

To playback in the desired order [PROGRAM]

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

■ During stop only

1 Press ☐.
ON SCREEN

The on screen display appears on the TV screen.

2 Use ◎ to move ▷ to [PROGRAM] and press ⬯.
ENTER

The color of "PROGRAM" changes.

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

STOP ■

TIME SELECT
REPEAT
A-B REPEAT
TIME SEARCH

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

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

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

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

STOP ■

TIME SELECT
REPEAT
A-B REPEAT
TIME SEARCH

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

Selected track number

Hints
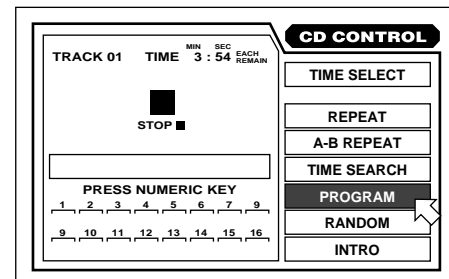
When all of the programmed tracks have finished playback, the unit stops but the program remains.
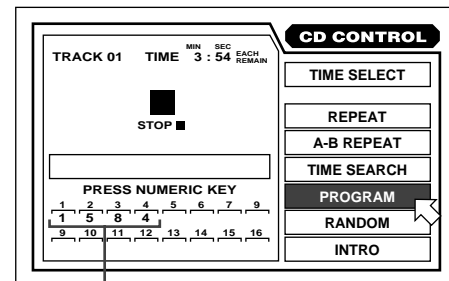
4 Press ☐ to start program play.
PLAY ▷

Hints

You can program tracks during program playback.

| NOTES |

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

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

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

Remote Control | **Front Panel**

To playback tracks in random order [RANDOM]

The unit can play tracks in random order.

■ During stop mode

1 Press ☐ .
ON SCREEN

The on screen display appears on the TV screen.

2 Use ◎ to move ⬐ to [RANDOM].

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

                                             REPEAT
              STOP ■                         A-B REPEAT
                                             TIME SEARCH
                                             PROGRAM
                                             RANDOM
                                             INTRO
```
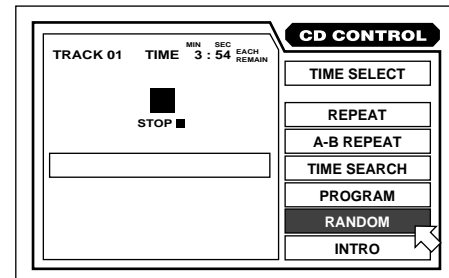
🖐Hints

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

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

3 Press ⬭ .
ENTER

The color of "RANDOM" changes.

■ Random play begins.

NOTES

● **To stop random play**
Press [STOP] .

● **To quit random play**
Move ⬐ to [RANDOM], then press ⬭ . "RANDOM" returns to its original color.

Audio CD
operations

Repeat playback

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

Remote Control **Front Panel**

To repeat a current track or all tracks [REPEAT]

■ During playback

1 Press ON SCREEN .

The on-screen display appears on the TV screen.

2 Use 🔘 to move ▷ to [REPEAT].

```
┌──────────────────────────────────┐
│                      CD CONTROL   │
│                    ┌────────────┐ │
│ TRACK 08  TIME 0 : 58 EACH       │
│                    │TIME SELECT │ │
│                    ├────────────┤ │
│                    │  REPEAT    │ │
│                    ├────────────┤ │
│                    │ A-B REPEAT │ │
│                    ├────────────┤ │
│                    │TIME SEARCH │ │
│                    ├────────────┤ │
│                    │  PROGRAM   │ │
│                    ├────────────┤ │
│                    │  RANDOM    │ │
│                    ├────────────┤ │
│                    │  INTRO     │ │
│                    └────────────┘ │
└──────────────────────────────────┘
```

3 Press ENTER .

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

REPEAT ALL →
REPEAT 1 →
No indication (off)

REPEAT ALL:
All the tracks are played repeatedly.

REPEAT 1:
The current track is played repeatedly.

```
┌──────────────────────────────────┐
│                      CD CONTROL   │
│ TRACK 08  TIME 0 : 58 EACH       │
│ ┌──────────┐       ┌────────────┐ │
│ │REPEAT ALL│       │TIME SELECT │ │
│ └──────────┘       ├────────────┤ │
│                    │  REPEAT    │ │
│                    ├────────────┤ │
│                    │ A-B REPEAT │ │
│                    ├────────────┤ │
│                    │TIME SEARCH │ │
│                    ├────────────┤ │
│                    │  PROGRAM   │ │
│                    ├────────────┤ │
│                    │  RANDOM    │ │
│                    ├────────────┤ │
│                    │  INTRO     │ │
│                    └────────────┘ │
└──────────────────────────────────┘
```
Selected repeat mode
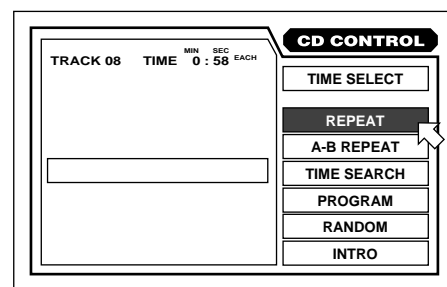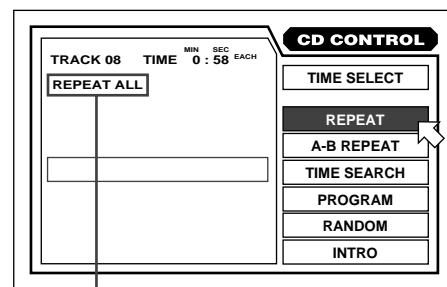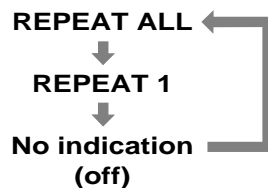
■ The current track or all the tracks is/are played repeatedly.

NOTES

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

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

Remote Control   **Front Panel**

To repeat a desired part [A-B REPEAT]

■ During playback

1 Press ⬚ .
ON SCREEN

The on-screen display appears on the TV screen.

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

The color of "A-B REPEAT" changes.

CD CONTROL

TRACK 08   TIME   MIN   SEC
0 : 12 EACH

MIN   SEC   MIN   SEC
A 2 9 : 2 3   ➡ B   :

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

Point A

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

CD CONTROL

TRACK 08   TIME   MIN   SEC
0 : 58 EACH

MIN   SEC   MIN   SEC
A 2 9 : 2 3   ➡ B 3 0 : 0 9

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

Point B

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

Audio CD operations

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

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

└──┘

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Audio CD Audio CD operations

Sampling all tracks

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

Remote Control **Front Panel**

To playback only the beginning of each track [INTRO]

■ During stop

1 Press ⌖ .
ON SCREEN

The on-screen display appears on the TV screen.

Hints

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

2 Use ◎ to move ⬦ to [INTRO].

TRACK 01   TIME MIN SEC 3 : 54 EACH REMAIN

STOP ■

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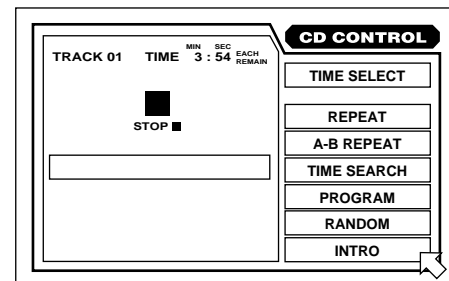
3 Press ⏎ .

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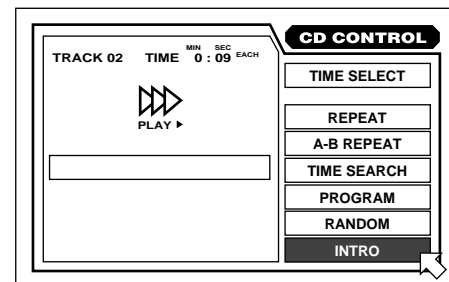
TRACK 02   TIME MIN SEC 0 : 09 EACH

▷▷▷
PLAY ▶

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

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

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.

Remote Control **Front Panel**

To select the time display mode [TIME SELECT]

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

■ During playback

1 Press ⌐ .
ON SCREEN

The on-screen display appears on the TV screen.

2 Use ◉ to move ◁ to [TIME SELECT].

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

Hints

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

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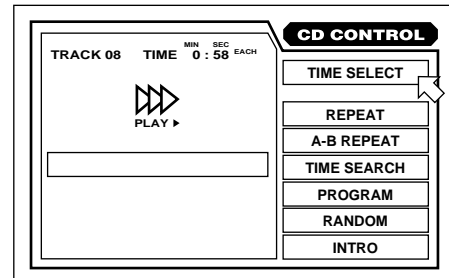
3 Press ⏎ .

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

EACH

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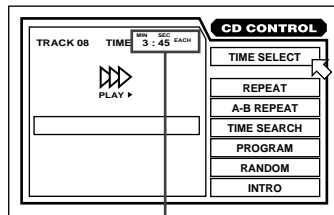
Elapsed time of the current track

EACH REMAIN

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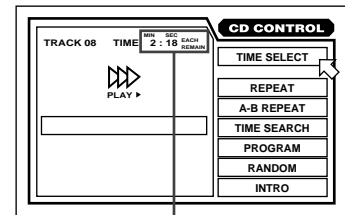
Remaining time of the current track

TOTAL REMAIN

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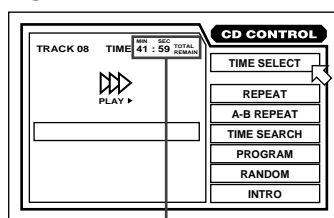
Total remaining time of the disc

TOTAL

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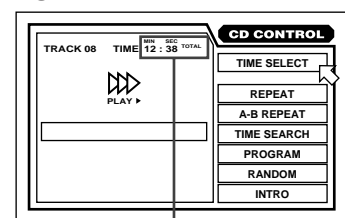
Total elapsed time of the disc

Audio CD operations

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Audio CD Audio CD operations

Information about CD TEXT

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

JVC
DVD/Video CD/CD PLAYER

J V C H I T S
S O N G N O 1

CD TEXT

1 TIME 0 : 00	CD CONTROL
	TIME SELECT
	REPEAT
	A-B REPEAT
JVC HITS	TIME SEARCH
	PROGRAM
	RANDOM
	INTRO

CD TEXT

Hints

CD TEXT data also appears in the display window. In this case, each time you press [TITLE], CD TEXT data and time appears alternately.
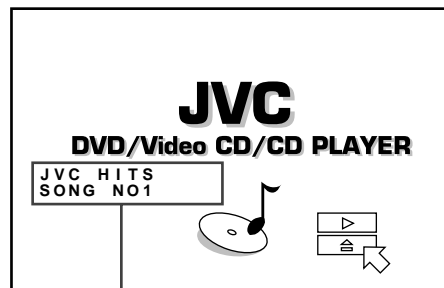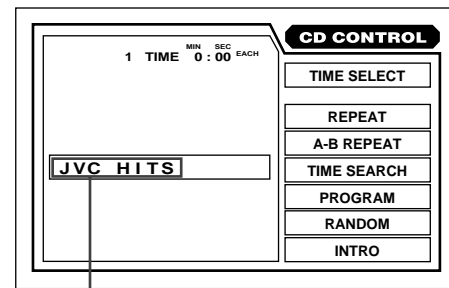
What is CD TEXT?

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

CD TEXT

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.

Remote Control **Front Panel**

To use the menu of the Video CD recorded on PBC

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

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

Hints

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

1. Press [ON SCREEN].

2. Use ◎ to move ⬦ to [PBC CALL], then press (ENTER).

Hints

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

1 Use ⤴ to ⤴₁₀, ⤴₊₁₀ to select the desired number of the item.

Playback starts from the selected item.

You can return to the menu by pressing ⌒ᴿᴱᵀᵁᴿᴺ.

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

• succeeding to the next page by pressing ▭▶▶ ₙₑₓₜ.

• return to the previous page by pressing ▭◀◀ ₚᵣₑᵥᵢₒᵤₛ.

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

Example:
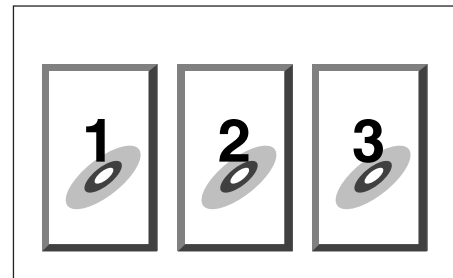
| 1 | 2 | 3 |

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Remote Control **Front Panel**

To locate a desired track using ⟶NEXT or ⟵PREVIOUS

■ During playback without the PBC function

1 Press ⟶NEXT or ⟵PREVIOUS.

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

NOTE

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

Remote Control **Front Panel**

To locate a disired track directly

■ During playback without the PBC function or stop mode

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

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

■ The unit starts playback from the selected track.

NOTE

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

Video CD
operations

Video CD Video CD Operations

Remote Control　Front Panel

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

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

■ During playback without the PBC function

1 Press ⌐ON SCREEN.

The on-screen display appears on the TV screen.

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

The color of "TIME SEARCH" changes.

```
                                    VCD CONTROL
                              AUDIO  ◁ L / R ▷

                                    REPEAT
                                    A-B REPEAT
St. ▮▮▮▮▮▮▮▮ End   TRK.  03
0 ▮▮▮▮▮▮▮▮10Mb      TIME    4 : 58    TIME SEARCH
GO TO _  :    ➡ENTER                 PBC CALL
```
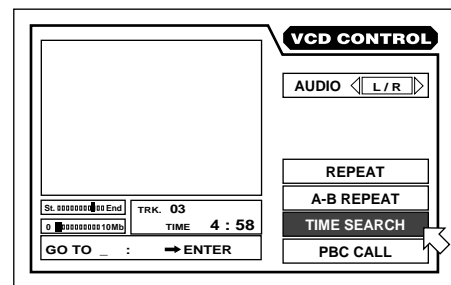
☞Hints☜

• To enter 0 on the front panel, press ⌐0/10⌐.

• ⌐10⌐ and ⌐+10⌐ on the remote control unit or ⌐+10⌐ on the front panel are not used in this function.

3 Use ⌐0⌐ to ⌐9⌐ to select the time (minute and second) then press ⊙ENTER.

Example:
To select playback from 2 minutes 34 seconds.

```
GO TO _   :
        ↓ Press ⌐0⌐.
GO TO 0_  :
        ↓ Press ⌐2⌐.
GO TO 02 : _
        ↓ Press ⌐3⌐.
GO TO 02 : 3 _
        ↓ Press ⌐4⌐.
GO TO 02 : 3 4
        ↓
    Press ⊙ENTER
```

```
                                    VCD CONTROL
                              AUDIO  ◁ L / R ▷

                                    REPEAT
                                    A-B REPEAT
St. ▮▮▮▮▮▮▮▮ End   TRK.  03
0 ▮▮▮▮▮▮▮▮10Mb      TIME    4 : 58    TIME SEARCH
GO TO 0 2 : 3 4  ➡ENTER               PBC CALL
```
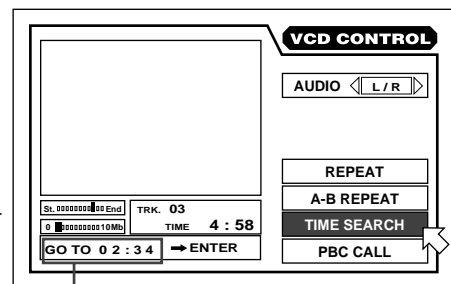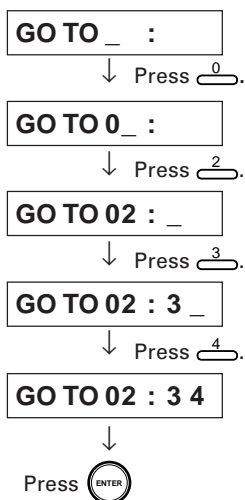
Selected time

■ The unit starts playback from the selected time.

NOTES

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

GO TO 02 : _

↓ Press (((

GO TO 0<u>2</u> :

↓ Press 4

GO TO 04 : _

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

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

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

Remote Control   **Front Panel**

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

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

■ During stop mode or playback without PBC function

1 Press ⬜.

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

Up to nine opening scenes are displayed.

Hints

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

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

2 Use ◎ to select the desired track.

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

Selected track

3 Press ⏎ENTER .

■ The unit begins playback from the selected track.

Playing in slow-motion

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

Remote Control **Front Panel**

To display still pictures [STROBE]

■ During playback

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

Hints

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.

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.

Remote Control **Front Panel**

To playback in slow-motion [SLOW]

■ During playback

1 Press ⏸, then press ▶▶ SLOW(+).

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

Hints

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

To pause slow-motion play

Press ⏸.

Hints

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

1. Press ⏸ to pause playback.

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

NOTES

● **The sound is muted during slow-motion play.**

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

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

Video CD operations

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Playing a scene close-up

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

Remote Control

To playback a scene close-up [ZOOM]

■ During playback or pause

1 Press ⊂ZOOM⊃.

[ZOOM] appears on the TV screen.

The unit zooms in to the center part of the scene to produce a double-sized image.
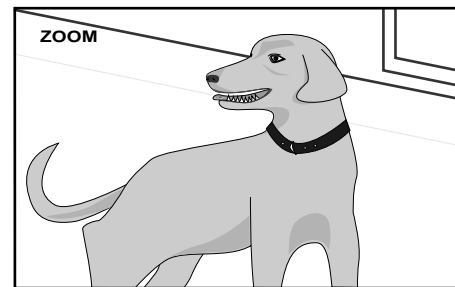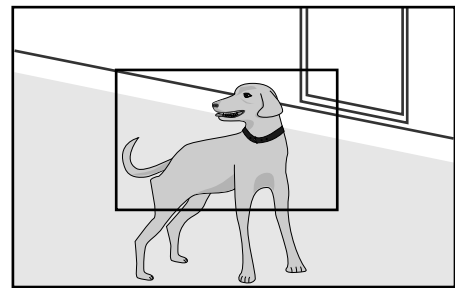
ZOOM

2 Use ◎ to move the zoomed-in scene.
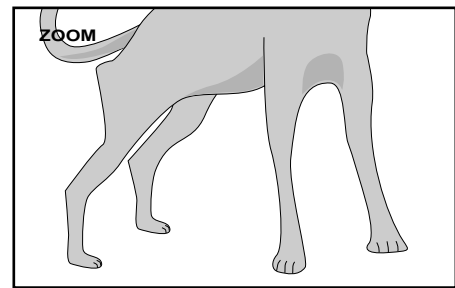
ZOOM

To pause zoom play

Press ⏸.
To resume zoom play, press ▷PLAY.

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

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Changing the track order

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

Remote Control **Front Panel**

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 ⌐₀ₙ ₛ𝒸ᵣₑₑₙ.

The on screen display appears on the TV screen.

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

The color of "PROGRAM" changes.

```
VCD CONTROL
TRACK 01    TIME   3 : 54  MIN SEC EACH REMAIN
                    STOP ■
        PRESS NUMERIC KEY
  1   2   3   4   5   6   7   9
  9  10  11  12  13  14  15  16

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

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

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

```
VCD CONTROL
TRACK 01    TIME   3 : 54  MIN SEC EACH REMAIN
                    STOP ■
        PRESS NUMERIC KEY
  1   2   3   4   5   6   7   9
  1   5   8   4
  9  10  11  12  13  14  15  16

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

Selected track number

Hints

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

4 Press 🔘ᴾᴸᴬʸ▷ to start program play.

Hints

You can program tracks during playback.

NOTES

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

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

● **To quit the program play**
   Move ◁ to [PROGRAM] in the display using ◎ and press (ENTER). "PROGRAM" returns to its original color.

Video CD operations

Video CD Video CD Operations

Remote Control **Front Panel**

To playback tracks in random order [RANDOM]

The unit can play tracks in random order.

■ During stop

1 Press ☐ .
ON SCREEN

The on screen display appears on the TV screen.

2 Use ◎ to move ◁ to [RANDOM].

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

Hints

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

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

3 Press (ENTER) .

■ Random play begins.

┌─ **NOTE** ─────────────────────────────────────┐
│   │
│ ● **To stop random play**   │
│   Press STOP ■ .   │
│   │
└───┘

Repeat playback

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

| Remote Control | Front Panel |

To repeat a current track or all tracks [REPEAT]

■ During playback without PBC function

1 Press ☐ (ON SCREEN).

The on-screen display appears on the TV screen.

2 Use ◎ to move ◁ to [REPEAT].

> **VCD CONTROL**
>
> AUDIO ◁ L / R ▷
>
> REPEAT
> A-B REPEAT
> TIME SEARCH
> PBC CALL
>
> St. ▮▮▮▮▮▮▮▮ End   TRK. **03**
> 0 ▮▮▮▮▮▮▮▮ 10Mb   TIME **4 : 58**
> PRESS ENTER ➡ EXECUTE

3 Press (ENTER).

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

REPEAT ALL
↓
REPEAT 1
↓
No indication (off)

> **VCD CONTROL**
>
> AUDIO ◁ L / R ▷
>
> REPEAT ALL
> REPEAT
> A-B REPEAT
> TIME SEARCH
> PBC CALL
>
> St. ▮▮▮▮▮▮▮▮ End   TRK. **03**
> 0 ▮▮▮▮▮▮▮▮ 10Mb   TIME **4 : 58**
> PRESS ENTER ➡ EXECUTE
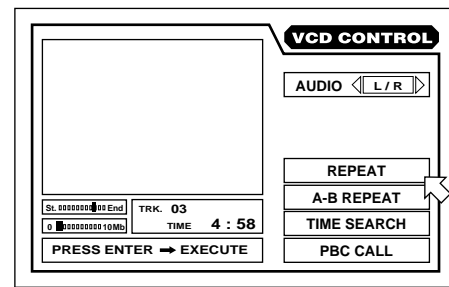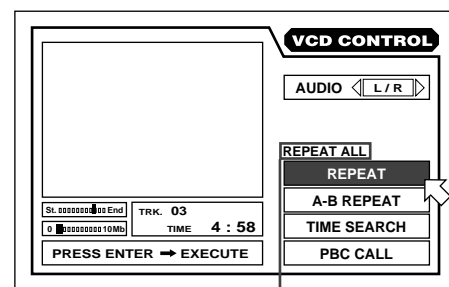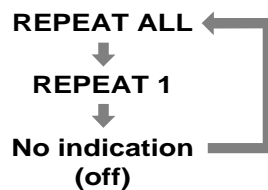
Selected repeat mode

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 🔲(STOP) to stop playback and then specify any track number by using the numeric buttons.**

● **To turn off the on-screen display**
Press ☐ (ON SCREEN).

● **To quit repeat playback**
Press 🔲(STOP). The unit stops but remains in repeat play mode.

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

Video CD operations

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Video CD Video CD Operations

To repeat a desired part [A-B REPEAT]

■ During playback

1 Press ⬜ₒₙ ₛ𝖼𝖱𝖤𝖤𝖭 .

The on-screen display appears on the TV screen.

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

The color of "A-B REPEAT" changes.

VCD CONTROL
AUDIO ◁ L / R ▷
REPEAT
A-B REPEAT
St. 00000000 00 End   TRK. 03   TIME   4 : 58   TIME SEARCH
0 00000000 10Mb
A   4 : 58 ➡ B   :   PBC CALL

Point A

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

VCD CONTROL
AUDIO ◁ L / R ▷
REPEAT
A-B REPEAT
St. 00000000 00 End   TRK. 03   TIME   5 : 22   TIME SEARCH
0 00000000 10Mb
A   4 : 58 ➡ B   5 : 22   PBC CALL

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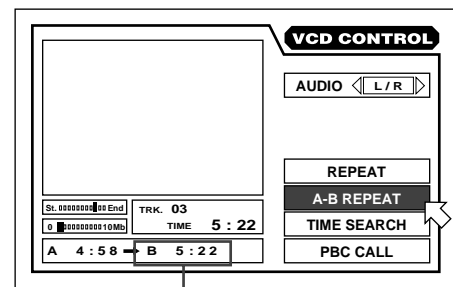
■ The unit locates "A" and starts repeat playback between "A" and "B."

┌ **NOTES** ┐

● **To turn off the on-screen display**
  Press ⬜ₒₙ ₛ𝖼𝖱𝖤𝖤𝖭 .

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

Sampling all tracks

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

Remote Control   **Front Panel**

To playback only the beginning of each track [INTRO]

■ During stop mode

1 Press ⬜ ON SCREEN .

The on-screen display appears on the TV screen.

Hints

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

2 Use ◉ to move ▷ to
[INTRO].
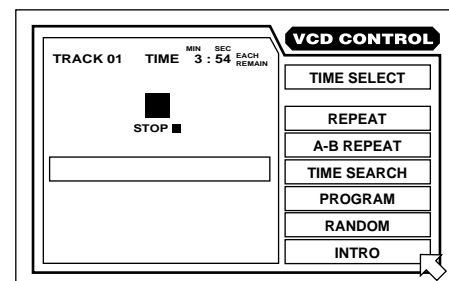
```
┌─────────────────────────────────────┐
│                          ╱VCD CONTROL╲│
│  TRACK 01    TIME  3 : 54 EACH        │
│                    MIN  SEC REMAIN    │
│                             ┌────────────┐│
│                             │TIME SELECT ││
│              ■              └────────────┘│
│           STOP ■            ┌────────────┐│
│                             │  REPEAT    ││
│  ┌──────────────────┐       ├────────────┤│
│  │                  │       │ A-B REPEAT ││
│  └──────────────────┘       ├────────────┤│
│                             │TIME SEARCH ││
│                             ├────────────┤│
│                             │  PROGRAM   ││
│                             ├────────────┤│
│                             │  RANDOM    ││
│                             ├────────────┤│
│                             │   INTRO    ││
│                             └────────────┘│
└─────────────────────────────────────┘
```

3 Press ⬭ ENTER .

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

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

Adjusting the sound to suit preferences

You can select the prefered audio channel.

Remote Control **Front Panel**

To change the audio channel [AUDIO]

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

■ During playback

1 Press [ON SCREEN].

The on-screen display appears on the TV screen.

2 Use ⊚ to move ⤧ to [AUDIO].

VCD CONTROL	
AUDIO ◁ L / R ▷	
	REPEAT
St. 00000000 00 End TRK. **03**	A-B REPEAT
0 000000000 10Mb TIME **4 : 58**	TIME SEARCH
SELECT ◀▶ KEY	PBC CALL
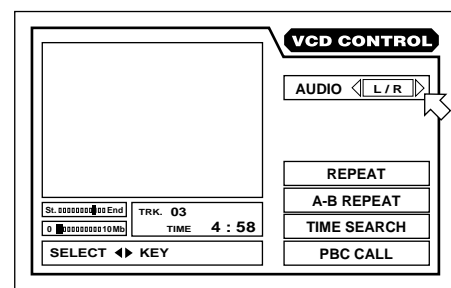
3 Select the audio channel(s) to be played back using ⊚.

L/R: You hear normal stereo playback.

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

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

VCD CONTROL	
AUDIO ◁ L ▷	
	REPEAT
St. 00000000 00 End TRK. **03**	A-B REPEAT
0 000000000 10Mb TIME **4 : 58**	TIME SEARCH
SELECT ◀▶ KEY	PBC CALL
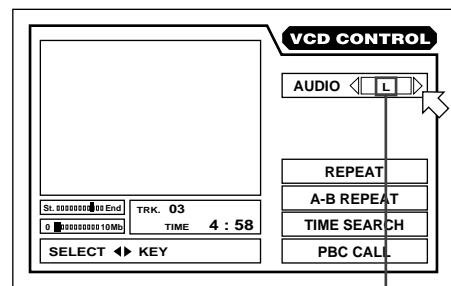
Selected audio channel

NOTE

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

Checking the total disc time

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

Remote Control Front Panel

To select the time display mode [TIME SELECT]

■ During stop mode

1 Press ON SCREEN.

The on-screen display appears on the TV screen.

2 Use ⊚ to move ⬧ to [TIME SELECT].

TRACK 01   TIME 3 : 54 MIN SEC EACH REMAIN
STOP ■
VCD CONTROL
TIME SELECT
REPEAT
A-B REPEAT
TIME SEARCH
PROGRAM
RANDOM
INTRO
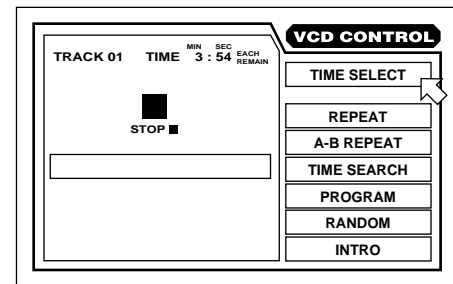
3 Press ENTER until [TOTAL REMAIN] appears on the TV screen.

Total disc time appears on the TV screen.

TRACK 16   TIME 55 : 22 MIN SEC TOTAL REMAIN
STOP ■
VCD CONTROL
TIME SELECT
REPEAT
A-B REPEAT
TIME SEARCH
PROGRAM
RANDOM
INTRO
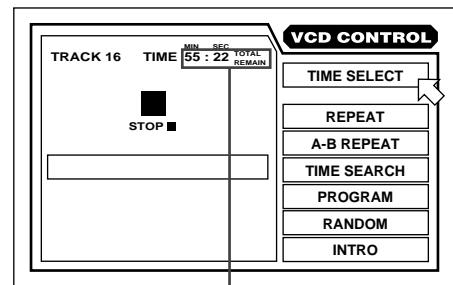
Total disc time of the disc

Video CD operations

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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.

Introduction

Preliminary knowledge

Getting started

Basic operations

DVD VIDEO operations

Setting and adjustment

Audio CD operations

Video CD operations

KARAOKE operations

Additional information

DVD **Audio CD** **Video CD**   **KARAOKE operations**

Preparation

Remote Control

Set the remote control unit to KARAOKE mode

1 Set ⟨DVD–TV–KARAOKE⟩ on the remote control unit to KARAOKE.

Remote Control   **Front Panel**

Turning on the KARAOKE function

■ When the switch above is at the KARAOKE position,

1 Press ⟨KARAOKE ON/OFF⟩ to turn on the KARAOKE function.

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

Front Panel

Connecting microphones

Hints

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 ⟨MENU⟩ or ⟨TITLE⟩.
   The menu appears on the TV screen.

2. Use ⟨◉⟩ to select the desired song, then press ⟨ENTER⟩.
   The unit starts playback from the selected song. See page 38 for detailed information.

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

MIC 1/2 jacks

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

● **To play back the disc, press ⟨PLAY ▷⟩.**

● **To stop playback, press ⟨STOP ■⟩.**

● **To pause playback, press ⟨PAUSE ❚❚⟩.**

● **When playing back a DVD recorded with linear PCM audio, you cannot turn on the KARAOKE function.**

● **To adjust the microphone volume, use ⟨MIC 1 LEVEL ◉⟩.**
   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.

Remote Control Front Panel

■ When the KARAOKE function is on,

1 Press [STOP].

2 Press [KARAOKE RESERVE].

The reservation bar appears in the TV screen.

RESERVE

JVC
DVD/Video CD/CD PLAYER

Reservation bar

Hints

To check the reserved songs
Press [KARAOKE RESERVE] 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 [KARAOKE RESERVE] so that the reservation bar appears in the TV screen. Then press [1] to [10], and [+10] 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 (O), then press [1] to [10], and [+10] 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 [KARAOKE RESERVE] move to the reservation bar. Pressing [KARAOKE RESERVE] again returns to the previous position.

3 Press [1] to [10], and [+10] 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.

RESERVE 1 5 8 4

JVC
DVD/Video CD/CD PLAYER

4 Press [PLAY].

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

To cancel the reserved song(s)
Use (O) to the song number you want to cancel, then press [CANCEL].

To hide the reservation bar
Press [KARAOKE RESERVE].

KARAOKE
AUDIO 1/3
KARAOKE SOUND 1
VOCAL NORMAL
ECHO 1
EFFECT CHORUS
KEY CONTROL +3
T. 03 CHAP. - - - TIME - : - - : - - A-B REPEAT
RESERVE

NOTES
● **When appears on the TV screen in step 3:** 12 songs are reserved.
● **To cancel all songs** Press [STOP] 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.**

KARAOKE operations

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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.

| Remote Control | Front Panel |

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 ⬜ .
ON SCREEN

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

2 Use ◎ to move ⬦ to [AUDIO].

```
                        KARAOKE
                  AUDIO      1 / 3
                  KARAOKE
                  SOUND        1
                  VOCAL     NORMAL
                  ECHO         1
                  EFFECT    CHORUS
                  KEY
                  CONTROL     +3
  T. 03  CHAP. - - -  TIME  - : - - : - -   A-B REPEAT
  RESERVE
```
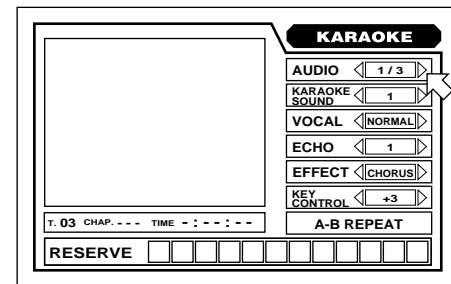
3 Use ◎ to select the desired audio to be played back.

Example:

1/3   Multi audio karaoke

↓

2/3   With guide vocal

↓

3/3   Accompaniment only

```
                        KARAOKE
                  AUDIO      1/3
                  KARAOKE
                  SOUND        1
                  VOCAL     NORMAL
                  ECHO         1
                  EFFECT    CHORUS
                  KEY
                  CONTROL     +3
  T. 03  CHAP. - - -  TIME  - : - - : - -   A-B REPEAT
  RESERVE
```
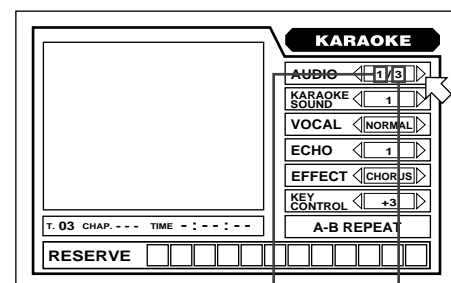
Total number of Audio track

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.

Remote Control **Front Panel**

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).

Hints

1. Press KARAOKE SOUND 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].

| KARAOKE |
| AUDIO ◁ 1 / 3 ▷ |
| KARAOKE SOUND ◁ 1 ▷ |
| VOCAL ◁ NORMAL ▷ |
| ECHO ◁ 1 ▷ |
| EFFECT ◁ CHORUS ▷ |
| KEY CONTROL ◁ +3 ▷ |
| T. 03 CHAP. - - -   TIME - : - - : - -   A-B REPEAT |
| RESERVE |
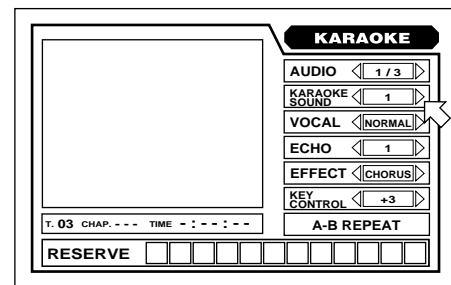
3 Use ◎ to select the desired sound to be played back.

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

KARAOKE operations

NOTE

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

DVD **Audio CD** **Video CD** **KARAOKE operations**

Remote Control **Front Panel**

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,

Hints

1. Press VOCAL REPLACE during playback.

2. Use (◎) to select [MASK] within 10 seconds.

1 Press ON SCREEN .

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].

```
                          KARAOKE
          AUDIO      ◁  1 / 3  ▷
          KARAOKE    ◁    1    ▷
          SOUND
          VOCAL      ◁ NORMAL ▷
          ECHO       ◁    1    ▷
          EFFECT     ◁ CHORUS ▷
          KEY        ◁   +3    ▷
          CONTROL
   T. 03 CHAP. - - -  TIME - : - - : - -   A-B REPEAT
   RESERVE  □□□□□□□□□□□□
```
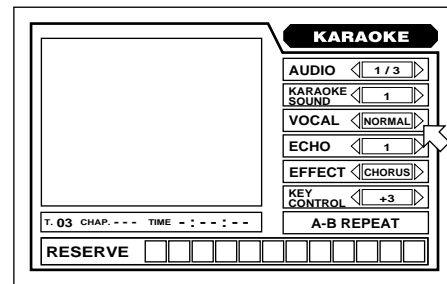
3 Use (◎) to select [MASK].

Pressing))) cycled the mode as shown below.

NORMAL ➜ MASK ➜ REPLACE

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.**

Remote Control   **Front Panel**

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,

Hints

1. Press VOCAL REPLACE during playback.

2. Use to select [REPLACE] within 10 seconds.

1 Press ON SCREEN .

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].

KARAOKE	
AUDIO	1 / 3
KARAOKE SOUND	1
VOCAL	NORMAL
ECHO	1
EFFECT	CHORUS
KEY CONTROL	+3

T. 03 CHAP. - - - TIME - : - - : - -   A-B REPEAT

RESERVE
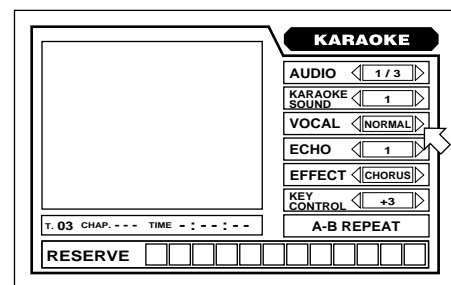
3 Use to select [REPLACE].

Pressing cycled the mode as shown below.

NORMAL ⟶ MASK ⟶ REPLACE

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

KARAOKE operations

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.

91

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.

Remote Control **Front Panel**

Adding an echo effect [ECHO]

■ When the KARAOKE function is on,

Hints

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

1. Press ON SCREEN.

2. Use ◎ to move ⟋ to [ECHO].

3. Use ◎ to adjust the echo level.

```
                    KARAOKE
                AUDIO     ◁ 1 / 3 ▷
                KARAOKE   ◁  1  ▷
                SOUND
                VOCAL     ◁ NORMAL ▷
                ECHO      ◁  OFF  ▷
                EFFECT    ◁ CHORUS ▷
                KEY       ◁  +3  ▷
                CONTROL
   T. 03  CHAP. - - -  TIME = : - - : - -   A-B REPEAT
   RESERVE  ▢▢▢▢▢▢▢▢▢▢▢
```

1 Press ▭ECHO.
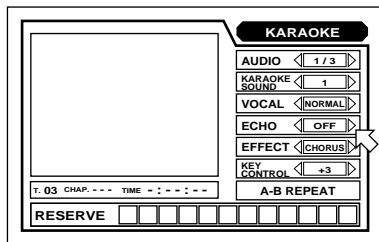
2 Use ◎ to adjust the echo level.

Each time you press 》, the echo level changes as follows.
The bigger number is the stronger echo.

OFF ➡ 1 ➡ 2 ➡ 3

Remote Control **Front Panel**

Adding various effects to vocal [VOCAL EFFECT]

■ When the KARAOKE function is on,

Hints

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

1. Press ON SCREEN.

2. Use ◎ to move ⟋ to [EFFECT].

3. Use ◎ to select the vocal effect.

```
                    KARAOKE
                AUDIO     ◁ 1 / 3 ▷
                KARAOKE   ◁  1  ▷
                SOUND
                VOCAL     ◁ NORMAL ▷
                ECHO      ◁  1  ▷
                EFFECT    ◁ CHORUS ▷
                KEY       ◁  +3  ▷
                CONTROL
   T. 03  CHAP. - - -  TIME = : - - : - -   A-B REPEAT
   RESERVE  ▢▢▢▢▢▢▢▢▢▢▢
```
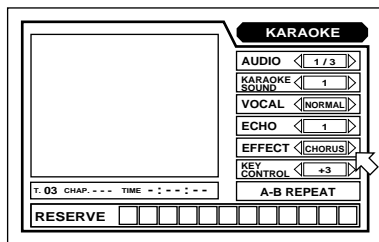
1 Press ▭VOCAL EFFECT.

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.

Remote Control **Front Panel**

■ When the KARAOKE function is on,

1 Press KEY CONTROL.

Hints

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

2 Use ⊚ to shift the key within 10 seconds.

To heighten the key, press 🎵.
To lower the key, press 🎵.

KEY CONTROL
♭ ◁[▯▯▯▯▯▯▯▯▯▯▯▯]▷ ♯

Hints

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

1. Press ON SCREEN .

2. Use ⊚ to move ⬊ to [KEY CONTROL].

3. Use ⊚ to shift the key.

```
              KARAOKE
        AUDIO      ◁ 1 / 3 ▷
        KARAOKE    ◁  1  ▷
        SOUND
        VOCAL      ◁ NORMAL ▷
        ECHO       ◁  1  ▷
        EFFECT     ◁ CHORUS ▷
        KEY        ◁  0  ▷
        CONTROL
T. 03 CHAP. - - -  TIME  - : - - : - -    ⬊
RESERVE  [▯▯▯▯▯▯▯▯▯▯▯]        A-B REPEAT
```
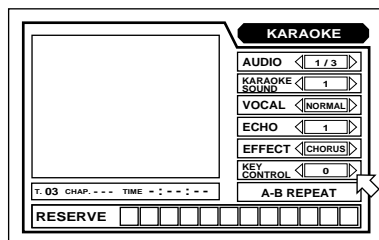
NOTES

● **To disappear the key control display, press** ENTER.

● **When starting playback of a song with** KARAOKE RESERVE **, 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.

Remote Control

■ When the KARAOKE function is on,

1 Start playback of the desired song.

2 Press $\overset{SCORING}{\underset{0}{\smile}}$ at the point of the song to start scoring.

3 Sing.

4 Press $\overset{SCORING}{\underset{0}{\smile}}$ when you finish singing.

Your score appears on the TV screen. To play the next song, press $\overset{PLAY}{\triangleright}$.

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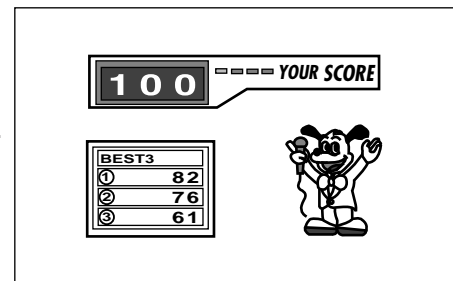
When starting playback using the karaoke reserve function, the score automatically appears on the TV screen after a song ends.

Hints

If you press $\overset{SCORING}{\underset{0}{\smile}}$ in the middle of a song, the score appears. Pressing $\overset{PLAY}{\triangleright}$ starts scoring again.

1 0 0 ■■■■ **YOUR SCORE**

BEST3
① 82
② 76
③ 61

NOTE

● To cancel scoring, press $\overset{SCORING}{\underset{0}{\smile}}$ while the score appears on the TV screen.

● While scoring, $\underset{ECHO}{\smile}$ and $\underset{EFFECT}{\overset{VOCAL}{\smile}}$ do not function. To activate these buttons, press $\underset{ON\ SCREEN}{\smile}$ 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

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.
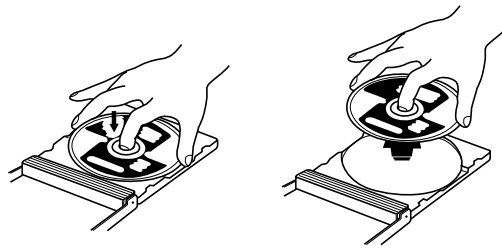
Even on label side

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.
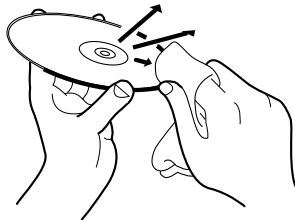
CAUTION

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

Additional information

AV COMPU LINK remote control system

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

Connection and Setup

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

To AV COMPU LINK

TV

DVD player

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

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

To AV COMPU LINK

To AV COMPU LINK

TV

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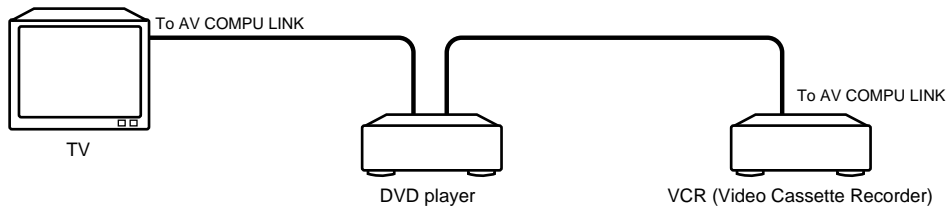
• If you connect a DVD player with a television and VCR via AV COMPU LINK, set the VCR's Remote Control Code and DVD player's AV COMPU LINK setting as follows.

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

TV

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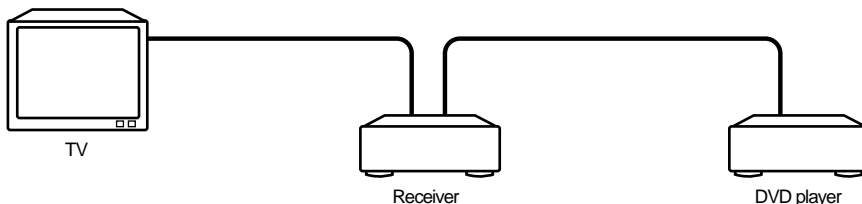
• If you connect a DVD player with a television and receiver via AV COMPU LINK, set the DVD player's AV COMPU LINK setting to DVD1.

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

Additional information

Specifications

General

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

Other

Power requirements:	AC 110 – 240V $\sim$, 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 ± 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.

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

Table of languages and their abbreviations

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

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

Country code list for parental lock

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

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

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

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Instructions

DVD PLAYER

XV-K505GD/XV-K503TN