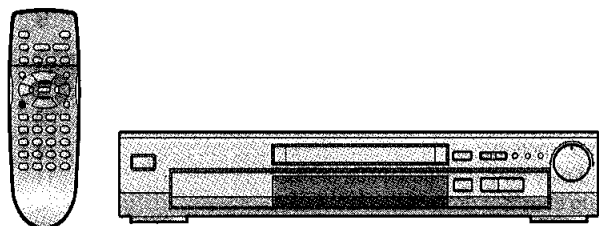# DVD/VIDEO CD/CD PLAYER

Operating Instructions

Model No. **DVD-RV41**

DVD-RV31

The illustration shows DVD-RV31 for the United Kingdom and Continental Europe.

DVD **VIDEO™** **COMPACT disc DIGITAL VIDEO**

Panasonic

Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference.

EB E A EN

RQT5869-B

Dear customer

Thank you for purchasing this product.
For optimum performance and safety, please read these instructions carefully.

> These operating instructions are applicable to models DVD-RV41 and DVD-RV31.
> Operations in these instructions are described mainly with the remote control, but you can do the operations on the main unit if the controls are the same.

DVD-RV41: indicates features applicable to DVD-RV41 only.
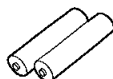**DVD-RV31**: DVD-RV31 only.

Accessories

Please check and identify the supplied accessories. Use numbers indicated in parentheses when asking for replacement parts.

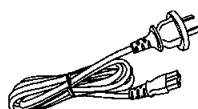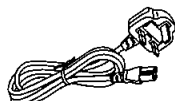☐ **Remote control** 1
(VEQ2380)

☐ **Batteries** 2
for remote control

☐ **AC mains lead** 1
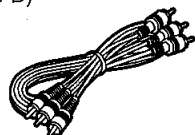
For the United Kingdom
(RJA0053-2X)

For Australia and N.Z.
(RJA0035-X)

For others
(RJA0019-1X)

☐ **Audio/video cable** 1
(VJA0788-D)

Note
The included AC mains lead is for use with this unit only. Do not use it with other equipment.

Table of contents

CAUTION!

THIS PRODUCT UTILIZES A LASER.
USE OF CONTROLS OR ADJUSTMENTS OR PERFORM-
ANCE OF PROCEDURES OTHER THAN THOSE SPECI-
FIED HEREIN MAY RESULT IN HAZARDOUS RADIATION
EXPOSURE.
DO NOT OPEN COVERS AND DO NOT REPAIR
YOURSELF. REFER SERVICING TO QUALIFIED
PERSONNEL.

WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR
PRODUCT DAMAGE, DO NOT EXPOSE THIS APPLIANCE
TO RAIN, SPLASHING, DRIPPING OR MOISTURE.

SUOMI

VAROITUS!

LAITTEEN KÄYTTÄMINEN MUULLA KUIN TÄSSÄ KÄYT-
TÖOHJEESSA MAINITULLA TAVALLA SAATTAA ALTIS-
TAA KÄYTTÄJÄN TURVALLISUUSLUOKAN 1 YLITTÄ-
VÄLLE NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE.

VAROITUS:

TULIPALO-, SÄHKÖISKUVAARAN TAI MUUN VA-
HINGON VÄHENTÄMISEKSI EI LAITETTA SAA AL-
TISTAA SATEELLE, ROISKEELLE, VESIPISAROILLE TAI
KOSTEUDELLE.

NORSK

ADVARSEL!

DETTE PRODUKTET ANVENDER EN LASER.
BETJENING AV KONTROLLER, JUSTERINGER ELLER
ANDRE INNGREP ENN DE SOM ER BESKREVENT I
DENNE BRUKSANVISNING, KAN FØRE TIL FARLIG BE-
STRÅLING.
DEKSLER MÅ IKKE ÅPNES, OG FORSØK ALDRI Å RE-
PARERE APPARATET PÅ EGENHÅND. ALT SERVICE
OG REPARASJONSARBEID MÅ UTFØRES AV KVALIFI-
SERT PERSONELL.

ADVARSEL:

FOR Å REDUSERE FAREN FOR BRANN, STRØMSJOKK
ELLER SKADER PÅ PRODUKTET, MÅ DETTE APPARA-
TET IKKE UTSETTES FOR REGN, VANNSPRUT, VANN-
DRÅPER ELLER FUKTIGHET.

DANGER	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID DIRECT EXPOSURE TO BEAM. (FDA 21 CFR)
CAUTION	- VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO BEAM. (IEC60825-1)
ATTENTION	- RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU.
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VAROI	- AVATTAESSA OLET ALTTIINA NÄKYVÄÄ JA NÄKYMÄTÖN LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN.
VARNING	- SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. BETRAKTA EJ STRÅLEN.
ADVARSEL	- SYNLIG OG USYNLIG LASERSTRÅLNING NÅR DEKSEL ÅPNES. UNNGÅ EKSPONERING FOR STRÅLEN.
VORSICHT	- SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
注意	- 打开时有可见及不可见激光辐射。避免激光束照射。
注意	- ここを開くと可視及び不可視のレーザー光が出ます。ビームを直接見たり、触れたりしないでください。 RQLS0233

(Inside of unit)

SAFETY PRECAUTIONS

Placement

Set the unit up on an even surface away from direct sunlight, high
temperatures, high humidity, and excessive vibration. These condi-
tions can damage the cabinet and other components, thereby short-
ening the unit's service life.

Place it at least 15 cm away from wall surfaces to avoid distortion
and unwanted acoustical effects.

Do not place heavy items on the unit.

Voltage

Do not use high voltage power sources. This can overload the unit
and cause a fire.

Do not use a DC power source. Check the source carefully when
setting the unit up on a ship or other place where DC is used.

AC mains lead protection

Ensure the AC mains lead is connected correctly and not dam-
aged. Poor connection and lead damage can cause fire or electric
shock. Do not pull, bend, or place heavy items on the lead.

Grasp the plug firmly when unplugging the lead. Pulling the AC
mains lead can cause electric shock.

Do not handle the plug with wet hands. This can cause electric
shock.

Foreign matter

Do not let metal objects fall inside the unit. This can cause electric
shock or malfunction.

Do not let liquids get into the unit. This can cause electric shock or
malfunction. If this occurs, immediately disconnect the unit from the
power supply and contact your dealer.

Do not spray insecticides onto or into the unit. They contain flam-
mable gases which can ignite if sprayed into the unit.

Service

Do not attempt to repair this unit by yourself. If sound is interrupted,
indicators fail to light, smoke appears, or any other problem that is not
covered in these instructions occurs, disconnect the AC mains lead
and contact your dealer or an authorized service center. Electric
shock or damage to the unit can occur if the unit is repaired, disas-
sembled or reconstructed by unqualified persons.

Extend operating life by disconnecting the unit from the power
source if it is not to be used for a long time.

```
CLASS 1
LASER PRODUCT
```

LUOKAN 1 LASERLAITE
KLASS 1 LASER APPARAT
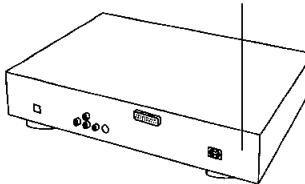
(Back of unit)

Do not place the unit on amplifiers or equipment that may become hot.

The heat can damage the unit.

3

RQT5869
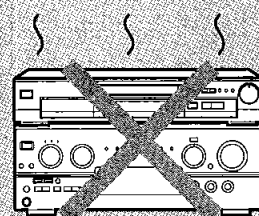
(For United Kingdom)

("EB" area code model only)

Getting started

For your safety, please read the following text carefully.

This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⟨ⓐ⟩ or the BSI mark ⟨ⓥ⟩ on the body of the fuse.

If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.

CAUTION!
IF THE FITTED MOULDED PLUG IS UNSUIT-ABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE RE-MOVED AND THE PLUG CUT OFF AND DIS-POSED OF SAFELY.
THERE IS A DANGER OF SEVERE ELECTRI-CAL SHOCK IF THE CUT OFF PLUG IS IN-SERTED INTO ANY 13-AMPERE SOCKET.

If a new plug is to be fitted please observe the wiring code as stated below.
If in any doubt please consult a qualified electrician.

IMPORTANT

The wires in this mains lead are coloured in accordance with the following code:
Blue: Neutral, Brown: Live.
As these colours may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:
The wire which is coloured Blue must be connected to the terminal which is marked with the letter N or coloured Black or Blue.
The wire which is coloured Brown must be connected to the terminal which is marked with the letter L or coloured Brown or Red.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL WHICH IS MARKED WITH THE LETTER E, BY THE EARTH SYMBOL ⏚ OR COLOURED GREEN OR GREEN/YELLOW.

THIS PLUG IS NOT WATERPROOF—KEEP DRY.

Before use

Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A

Figure B Fuse cover

2. Replace the fuse and close or attach the fuse cover.

Figure A Fuse (5 ampere)

Figure B Fuse (5 ampere)

A

(a)

DVD
<VIDEO>™

DVD
VIDEO™

(b)

COMPACT
disc
DIGITAL VIDEO

(c)

COMPACT
disc
DIGITAL AUDIO

B

(d)

(e)

C

(f)

□□ DOLBY
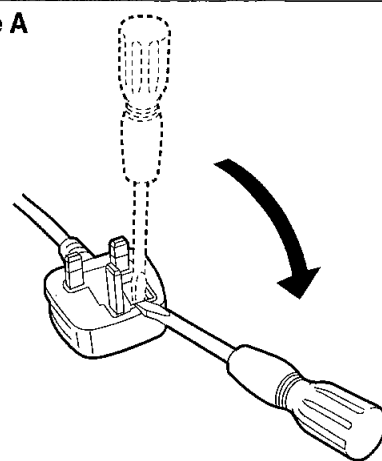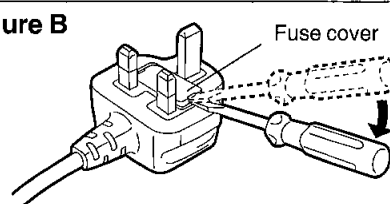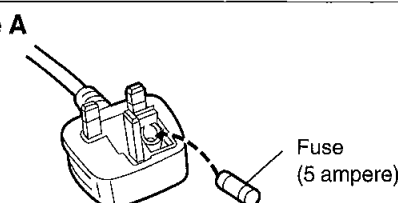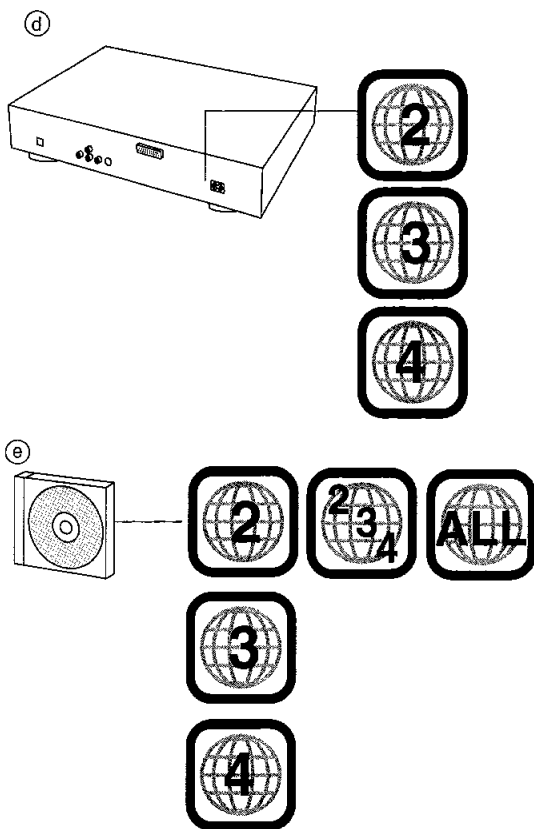D I G I T A L

(g)

D I G I T A L
dts
S U R R O U N D
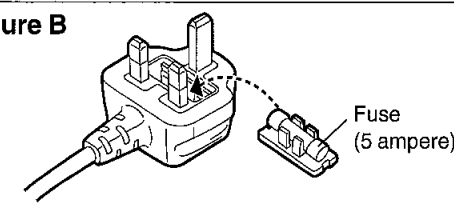
■ Discs that can be played **A**

Disc type	Logo	Region number	Video system	Indication used in instructions
DVD-Video	(a)	See below for details.	PAL/NTSC	DVD
Video CD	(b)	–	PAL/NTSC	VCD
Audio CD	(c)	–	–	CD

■ Region Management Information (DVD only) **B**

Region numbers are allocated to DVD players and software according to where they are sold.

- **For the United Kingdom and Continental Europe : "2"**
- **For Australia and N.Z. : "4"**
- **For Asia : "3"**

DVDs can be played on this unit if their region number is the same or includes the same number, or if the DVD is marked "ALL".

Confirm the region number for this unit before choosing discs. The number for this unit is indicated on the rear panel of the unit.

(d) (Back of the unit)   (e) Disc

■ Discs that cannot be played

DVD-Audio, DVD-ROM, DVD-R/DVD-RAM, CD-ROM, VSD, CDV, CD-G, +RW, DVD-RW, CVD, SVCD, SACD, Divx Video Discs and Photo CD.

■ DVDs that can be played **C**

(f) This unit has a Dolby Digital decoder so you can play DVDs with this mark.

(g) This unit does not have a DTS decoder. Connect this unit to equipment that has a DTS decoder to enjoy DVDs with this mark.

■ Type of disc for the type of connected TV

DVDs and Video CDs are recorded using either PAL or NTSC. Refer to this table when selecting discs.

TV type	Disc	TV Monitor	
		For the United Kingdom, Continental Europe, Australia and N.Z.	For Asia
Multi-system TV	PAL	√	√
	NTSC	√*1	√
NTSC TV	PAL	×	×
	NTSC	×	√*3
PAL TV	PAL	√	√
	NTSC	√*2	√*4

*1 If you select "NTSC" in "NTSC Disc Output" (➡ page 22), the picture may be clearer.

*2 The factory preset for "NTSC Disc Output" is "PAL60", so no changes to the initial settings are necessary.
(If your television is not equipped to handle PAL 525/60 signals the picture will not be shown correctly.)

*3 The factory preset for "NTSC Disc Output" is "NTSC", so no changes to the initial settings are necessary.

*4 Select "PAL60" in "NTSC Disc Output" (➡ page 22).
(If your television is not equipped to handle PAL 525/60 signals the picture will not be shown correctly.)

Note

When a disc which does not comply with Video CD standard is played, the bottom part of the picture may disappear.

■ Playing DVDs and Video CDs

The producer of the material can control how these discs are played. This means that you may not be able to control play of a disc with some operations described in these operating instructions. Read the disc's instructions carefully.
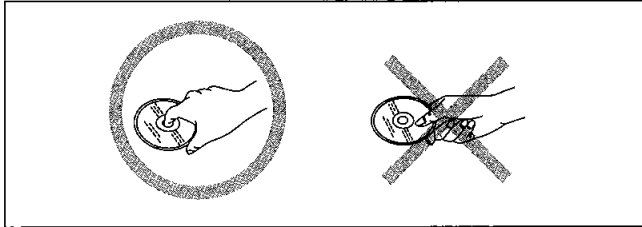
Getting started

Do not use irregularly shaped discs, such as heart-shaped. (These can damage the unit.)
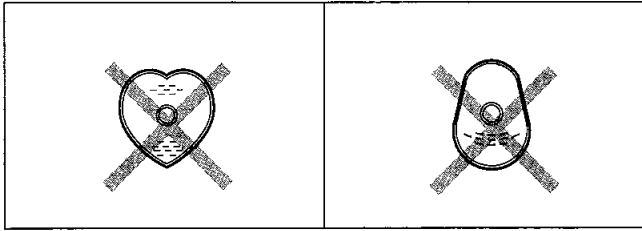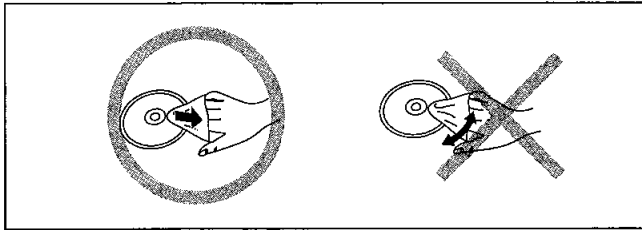
■ How to hold a disc
Do not touch the recorded surface.

■ If the surface is dirty
Wipe it with a damp cloth and then wipe dry.

■ If the disc is brought from a cold to a warm environment, moisture may form on the disc
Wipe with a soft, dry, lint-free cloth before using the disc.

■ Handling precautions
● Do not write on the label side with a ball-point pen or other writing instrument.
● Do not use record cleaning sprays, benzine, thinner, static electric-ity prevention liquids or any other solvent.
● Do not attach labels or stickers to discs. (Do not use discs with ex-posed adhesive from tape or left over peeled-off stickers.)
● Do not use scratch-proof protectors or covers.
● Do not use discs printed with label printers available on the market.

■ Do not place or store discs in the following places
● Locations exposed to direct sunlight
● Humid or dusty locations
● Locations directly exposed to a heat vent or heating appliance

Batteries

R6, AA, UM-3
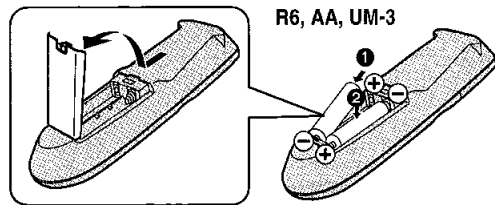
● Insert so the poles (+ and −) match those in the remote control.
● Do not use rechargeable type batteries.

Do not;
● mix old and new batteries.
● use different types at the same time.
● heat or expose to flame.
● take apart or short circuit.
● attempt to recharge alkaline or manganese batteries.
● use batteries if the covering has been peeled off.
Mishandling of batteries can cause electrolyte leakage which can damage items the fluid contacts and may cause a fire.
If electrolyte leaks from the batteries, consult your dealer.
Wash thoroughly with water if electrolyte comes in contact with any part of your body.

Remove if the remote control is not going to be used for a long period of time. Store in a cool, dark place.
Replace if the unit does not respond to the remote control even when held close to the front panel.

Use

ⓐ Remote control signal sensor

7 m

30°   30°
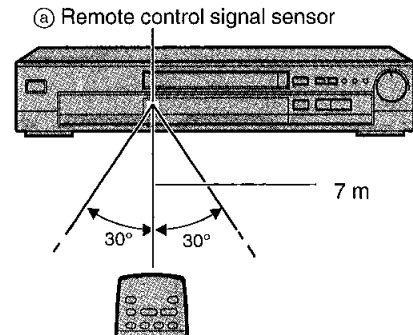
Aim at the sensor, avoiding obstacles, at a maximum range of 7 m directly in front of the unit.
● Keep the transmission window and the unit's sensor free from dust.
● Operation can be affected by strong light sources, such as direct sunlight, and the glass doors on cabinets.

Do not;
● put heavy objects on the remote control.
● take the remote control apart.
● spill liquids onto the remote control.

Control reference guide

DVD-RV41

DVD-RV31
(For the United Kingdom and Continental Europe)

DVD-RV31 (For Australia, N.Z. and Asia)

Main unit

Page

① **Standby/on switch (Í/I)** **9**
Press to switch the unit from on to standby mode or vice versa.
In standby mode, the unit is still consuming a small amount of power.

② **DVD-RV41**
DVD-RV31 (For Australia, N.Z. and Asia)
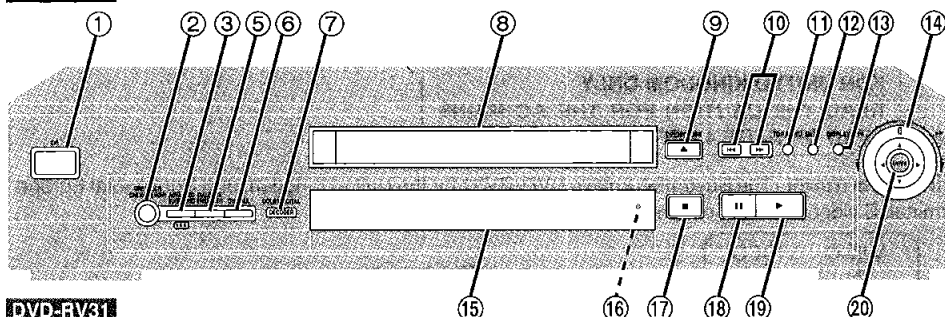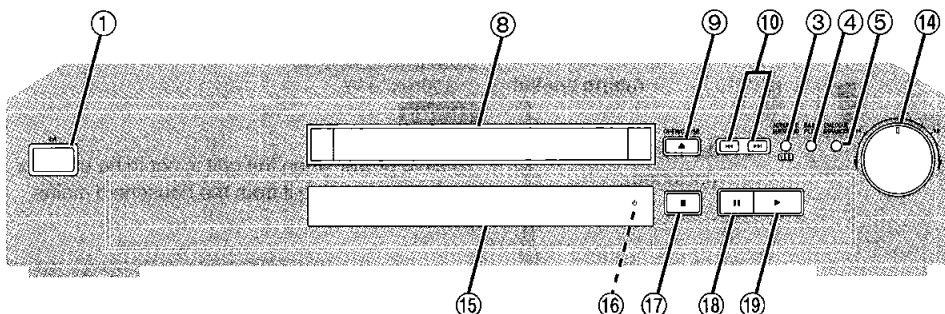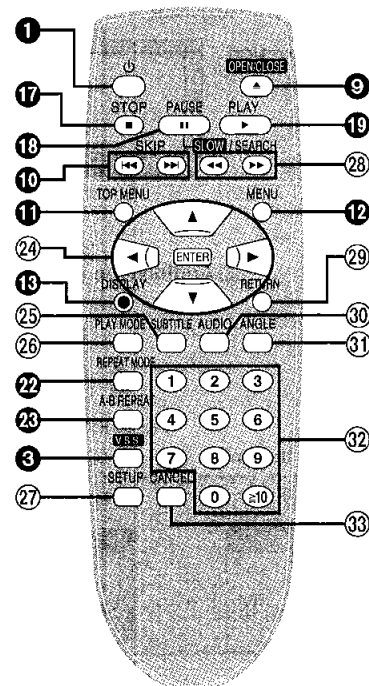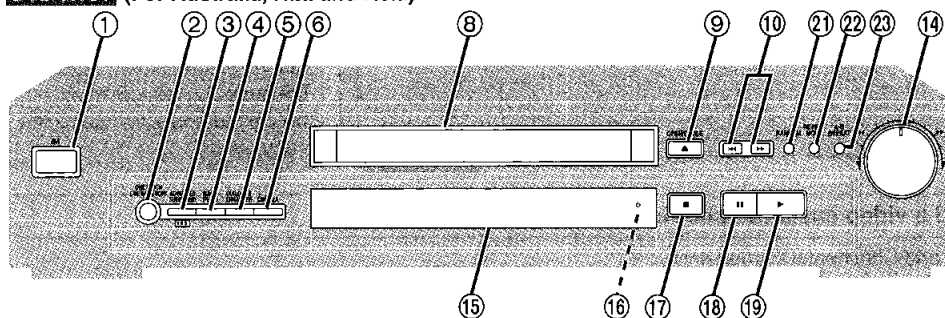One touch cinema memory button/indicator
(ONE TOUCH CINEMA MEMORY) 15

③ **Advanced Surround (V.S.S.) button**
(ADVANCED SURROUND, (V.S.S.)) 14

④ **DVD-RV31**
Bass plus button (BASS PLUS) 14

⑤ **Dialogue Enhancer button (DIALOGUE ENHANCER)** 15

⑥ **DVD-RV41**
DVD-RV31 (For Australia, N.Z. and Asia)
Cinema button (CINEMA) 15

⑦ **DVD-RV41**
DOLBY DIGITAL indicator (DOLBY DIGITAL, DECODER)
Goes out when playing a disc without Dolby Digital.

⑧ **Disc tray** 10

⑨ **Disc tray open/close button (▲, OPEN/CLOSE)** 10

⑩ **Skip buttons (|◀◀, ▶▶|)** 12

⑪ **DVD-RV41**
Top menu button (TOP MENU) 10

⑫ **DVD-RV41**
Menu button (MENU) 10

⑬ **DVD-RV41**
Display button (DISPLAY) 18

⑭ **Shuttle dial (◀◀, ▶▶)** 12

⑮ **Display**

Page

⑯ **Standby indicator (Í)**
When the unit is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the unit is turned on.

⑰ **Stop button (■)** 10

⑱ **Pause button (II)** 10

⑲ **Play button (▶)** 10

⑳ **DVD-RV41**
Joystick (▲, ▼, ◀, ▶)/Enter button (ENTER) 10

㉑ **DVD-RV31** (For Australia, N.Z. and Asia)
Random play button (RANDOM) 17

㉒ **DVD-RV31** (For Australia, N.Z. and Asia)
Repeat button (REPEAT MODE) 16

㉓ **DVD-RV31** (For Australia, N.Z. and Asia)
A-B repeat button (A-B REPEAT) 16

Remote control

Buttons such as ❶ function the same as the controls on the unit.

㉔ **Cursor buttons (▲, ▼, ◀, ▶)/Enter button (ENTER)** 10

㉕ **Subtitle button (SUBTITLE)** 13

㉖ **Play mode button (PLAY MODE)** 17

㉗ **Setup button (SETUP)** 9, 21

㉘ **Slow/Search buttons (◀◀, ▶▶ SLOW/SEARCH)** 12

㉙ **Return button (RETURN)** 10

㉚ **Audio button (AUDIO)** 13

㉛ **Angle button (ANGLE)** 13

㉜ **Numbered buttons (1–9, 0, ≧10)** 10

㉝ **Cancel button (CANCEL)** 17
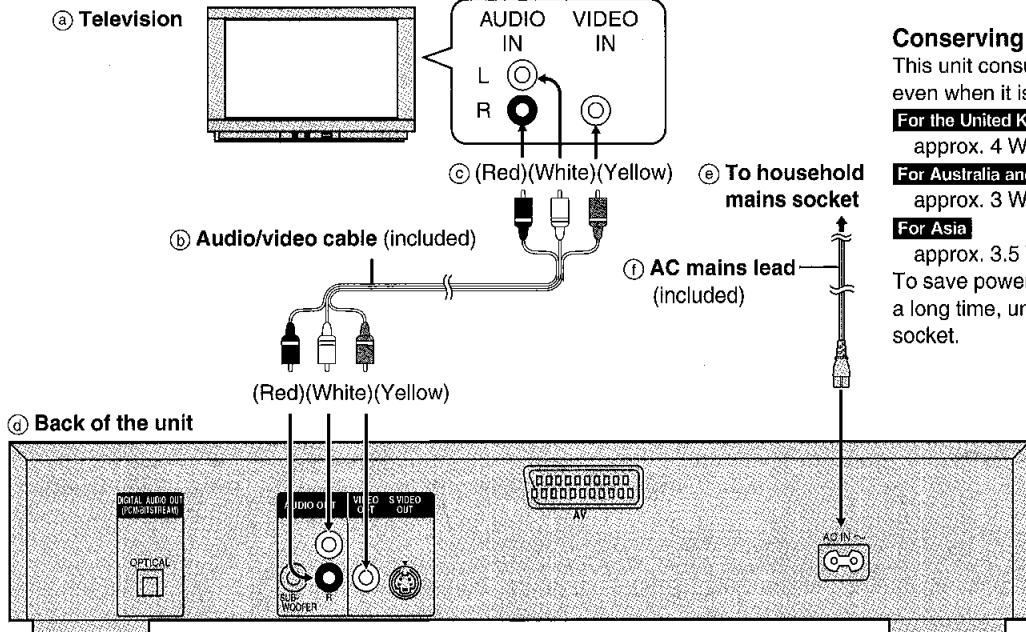
DVD-RV41 **DVD-RV31**

These pages explain how to connect the unit to a television and set it up so you hear the audio through the television's speakers. Connections and procedures that enable you to enjoy more powerful sounds are described beginning on page 26.

Before connection
● Disconnect the AC mains lead.
● Refer to the television's operating instructions.

> **FOR UNITED KINGDOM ONLY**
> **READ THE CAUTION FOR THE AC MAINS**
> **LEAD ON PAGE 4 BEFORE CONNECTION.**

Connecting to a television with video input terminal (The illustration shows DVD-RV31 for the United Kingdom and Continental Europe.)
See below if your television has a SCART terminal, S video terminal, or component video terminals.

(a) Television

AUDIO VIDEO
IN IN

(c) (Red)(White)(Yellow)   (e) **To household**
mains socket

(b) **Audio/video cable** (included)

(f) **AC mains lead**
(included)

(Red)(White)(Yellow)

(d) **Back of the unit**

Conserving power
This unit consumes a small amount of power, even when it is turned off.

For the United Kingdom and Continental Europe
approx. 4 W
For Australia and N.Z.
approx. 3 W
For Asia
approx. 3.5 W

To save power when the unit is not to be used for a long time, unplug it from the household mains socket.

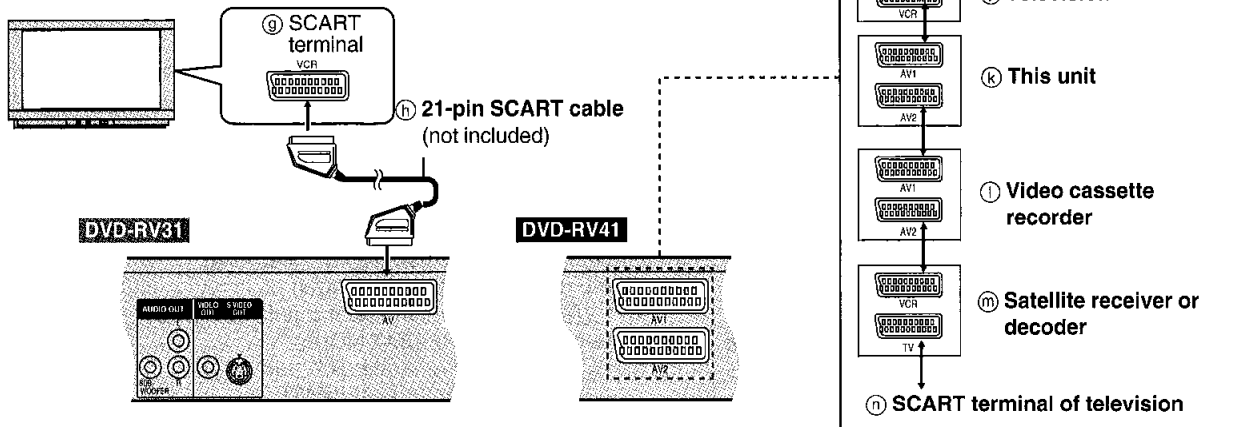**Connect Your Unit Directly To Your Television.**
Do not connect the unit through your video cassette recorder when setting up your home entertainment system, because the picture may not be played correctly due to the copy guard.

Connecting to a television and a video cassette recorder with 21-pin SCART terminal

SCART terminal(s): for the United Kingdom and Continental Europe only

To improve picture quality, you can change the video signal output from the AV (AV1) terminal from "Video" to either "S-Video" or "RGB" to suit the type of television you are using [➡ page 22, Video–AV (AV1) Output]. ("RGB" available with DVD-RV41 only.)
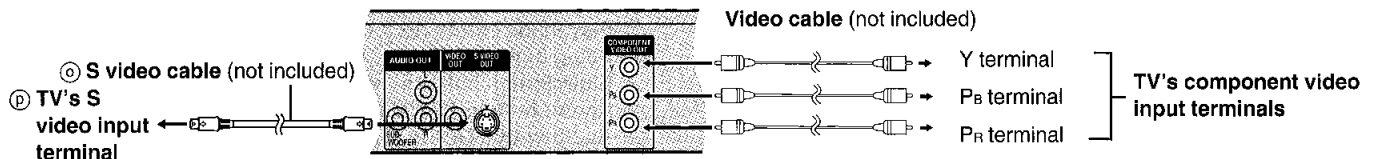S-VIDEO provides better quality than VIDEO and RGB provides the best picture quality.

(g) **SCART terminal**

(h) **21-pin SCART cable**
(not included)

DVD-RV31   **DVD-RV41**

(i) **Example**

(j) **Television**

(k) **This unit**

(l) **Video cassette recorder**

(m) **Satellite receiver or decoder**

(n) **SCART terminal of television**

Connecting to a television with S video or component video input terminals

COMPONENT VIDEO OUT terminals: for Australia, N.Z. and Asia only
Connect the audio terminals as described above.

Video cable (not included)

(o) **S video cable** (not included)
(p) **TV's S video input terminal**

→ Y terminal
→ P$_B$ terminal
→ P$_R$ terminal

TV's component video input terminals

The S-video terminal achieves a more vivid picture than the VIDEO OUT terminal by separating the chrominance (C) and luminance (Y) signals. (Actual results depend on the television.)

Connection using these terminals outputs the color difference signals (P$_B$/P$_R$) and luminance signal (Y) separately in order to achieve high fidelity in reproducing colors.
● The description of the component video input terminals depends on the television or monitor (e.g. Y/P$_B$/P$_R$, Y/B-Y/R-Y, Y/C$_B$/C$_R$). Connect to terminals of the same color.

Getting started

1

3·4·5

RETURN

2·6

SETUP

DVD-RV41 **DVD-RV31**

Remote control only

Change the setting to suit the aspect ratio of your television.

> **The menu language is set to English,** but you can change it as follows (→ page 22, Display–Menu Language). English is used in the examples.
>
> **(For the United Kingdom, Continental Europe, Australia and N.Z.)**
> English→French/German/Italian/Spanish
> **(For Asia)**
> English→Chinese

Preparation
Turn on the television and select the appropriate video input on the television to suit the connections for the player.

1 **Press [⏻] to turn on the unit.**

2 **Press [SETUP] to show the menus.**

3 **Press [◄, ►] to select the Video tab.**

4 **Press [▲, ▼] to select "TV Aspect" and press [ENTER].**

5 **Press [▲, ▼] to select the item and press [ENTER].**

●**4:3 Pan&Scan** (Factory preset)
Select if you have a regular television and to view 16:9 soft-ware* in the pan and scan style (ⓐ).

●**4:3 Letterbox**
Select if you have a regular television and to view 16:9 soft-ware in the letterbox style (ⓑ).

●**16:9**
Select if you have a widescreen television.

*16:9 software prohibited from being shown in the pan and scan style will appear in the letterbox style despite the setting here.
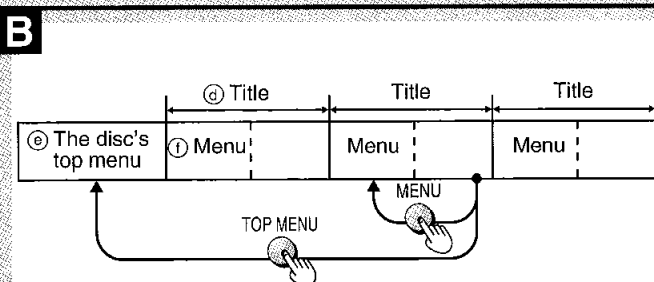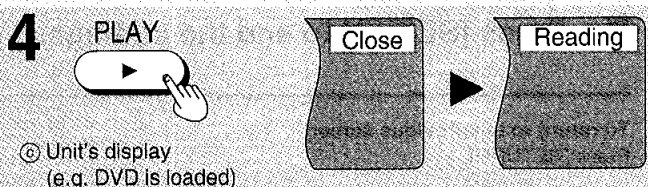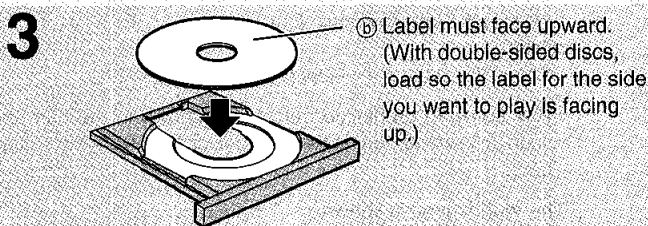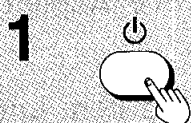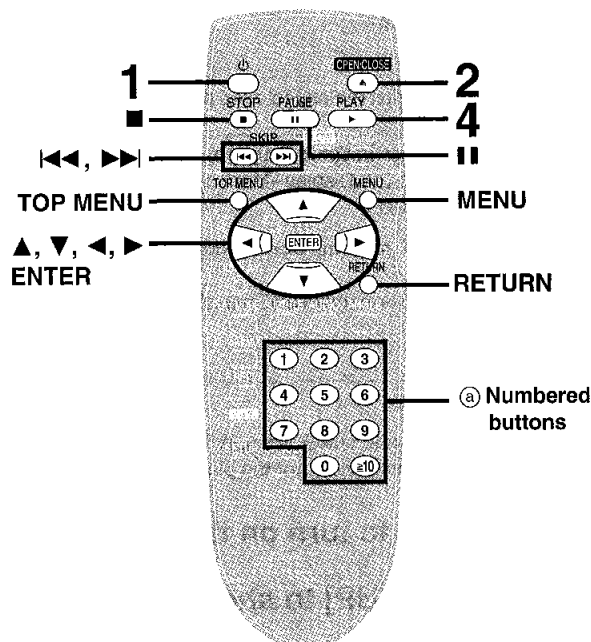
The Video menu is shown.

6 **Press [SETUP] to end the settings.**

To return to the previous screen
Press [RETURN].

For your reference
DVDs are recorded in a variety of aspect ratios. You can change the way software is shown on a regular television (4:3) with the above operation. If you have a widescreen television (16:9), use the televi-sion's picture modes.

1 ■

2

4 ■ ■

|◄◄, ►►|

TOP MENU

▲, ▼, ◄, ►
ENTER

MENU

RETURN

ⓐ Numbered
buttons

1

2 OPEN/CLOSE Open

3 ⓑ Label must face upward.
(With double-sided discs,
load so the label for the side
you want to play is facing
up.)

4 PLAY Close Reading

ⓒ Unit's display
(e.g. DVD is loaded)

TITLE   CHAP   BASS
DVD
VIDEO ►

A PAUSE

TITLE   CHAP
DVD
VIDEO ■ ■

B

ⓓ Title   Title   Title

ⓔ The disc's   ⓕ Menu   Menu   Menu
top menu

MENU

TOP MENU

Basic play

DVD-RV41 **DVD-RV31**

DVD **VCD** **CD**

Preparation
Turn on the television and select the appropriate video input on the television to suit the connections for the player.

1 Press [⏻] to turn on the unit.

2 Press [▲] to open the disc tray.

3 Place the disc on the disc tray.

4 Press [►] (PLAY).
The disc tray closes and play begins.

■ To stop play
Press [■] (→ page 11, Resume function).

■ To pause play A
Press [❙❙] during play.
Press [►] (PLAY) to restart play.

Playing CD-R and CD-RW
This unit can play CD-DA (digital audio) and video CD format audio CD-R and CD-RW that have been finalized* upon completion of recording.
It may not be able to play some CD-R or CD-RW due to the condition of the recording.
*Finalizing is a process that enables CD-R/CD-RW players to play audio CD-R and CD-RW.

Note
●**If "⊘" appears on the television**
The operation is prohibited by the unit or disc.
●The disc continues to rotate while the menu is displayed even after you finish playing an item. Press [■] when you finish to preserve the unit's motor and your television screen.
●Volume may be lower when playing DVDs than when playing other discs or during television broadcasts.
If you turn the volume up on the television or amplifier, ensure you reduce the volume again before playing other sources so that a sudden increase in output does not occur.

■ Auto standby
The unit switches to the standby mode after about 30 minutes in the stop mode.

When a menu screen appears on the television

DVD **VCD**

Remote control only

Press the numbered buttons to select an item.
To select a 2-digit number
Example: To select item 23, press [≧10], then [2] and [3].
●When playing DVDs, you can also use [▲, ▼, ◄, ►] to select items. Press [ENTER] to confirm your selection.

Play of the selected item now begins.

Other buttons used to operate menus
Read the disc's instructions for further details about operation.
[►►|]: Shows the next menu.
[|◄◄]: Shows the previous menu.
[RETURN]: Shows the menu screen.
[TOP MENU]: Shows the first menu screen. **DVD**
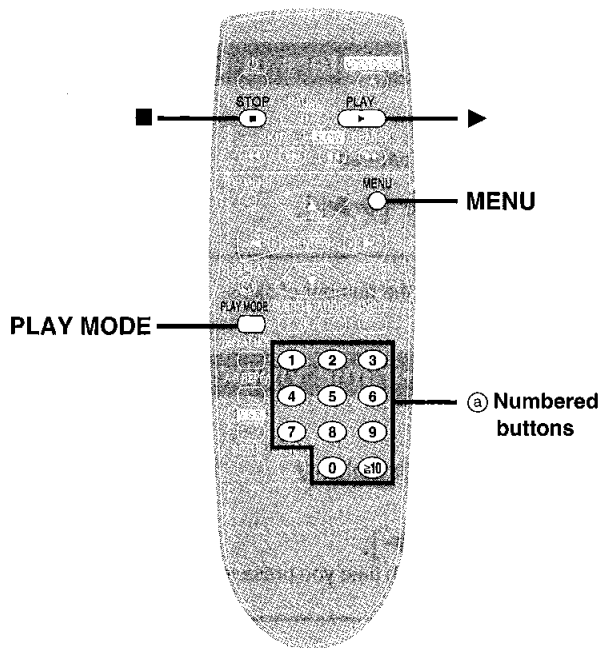[MENU]: Shows the menu screen. **DVD**

B DVD menus
DVDs can have several menus. The menu displayed when you press [TOP MENU] may be different from the menu displayed when you press [MENU].

PLAY MODE

MENU

ⓐ **Numbered buttons**

A

A Resume function

If you press [■] during play, the unit remembers the position.
If you press [▶] (PLAY) while "▷" is flashing, play restarts from the position you stopped it.

To start play from a memorized position after switching the unit to standby
Press [PLAY MODE] during play. (The message "Position memorized" appears on the television.) Now when you press [▶] (PLAY) after switching the unit to standby and back on, play starts from the memorized position.
Even after you memorize a position by pressing [PLAY MODE], play will start from the point you stopped play if you press [▶] (PLAY) before switching the unit to standby.

Chapter Review
If you are playing DVD, the illustrated message appears when you pressed [▶] (PLAY) while "▷" is flashing.
Pressing [▶] (PLAY) while the message is displayed, the beginning portions of each chapter up to the current one are played and full play resumes from the point where you stopped play or you pressed [PLAY MODE].
(Chapter Review feature works only within a title.)

If you do not press [▶] (PLAY), the message disappears and play starts from where you stopped it or you pressed [PLAY MODE].

To cancel
Press [■] until "▷" disappears from the unit's display.

Note
● The resume function does not work if the disc's play time is not displayed.
● The position is cleared when the disc tray is opened.
● The position memorized when you press [■] is cleared if you switch the unit to standby or it switches to standby automatically (➡ page 10, Auto standby).

B Starting play from a selected title or track

DVD VIDEO

For the United Kingdom, Continental Europe, Australia and N.Z.

Press PLAY to Chapter Review

For Asia

Press PLAY to Preview Chapters

B

VCD TRACK

Remote control only

While stopped
Press the numbered buttons.

To select a 2-digit number
Example: To select track 23, press [≧10], then [2] and [3].

Play starts from the selected title/track.

Note
This may not work with some discs.

For your reference
The numbered buttons also work during play if the disc is a Karaoke DVD, Video CD, or CD.

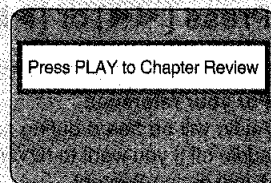**If the Video CD has playback control (➡ page 29)**
Cancel menu play first.
1. Press [■] during play until "PBC PLAY" is cleared from the unit's display.
2. Press the numbered buttons to select a track to start play.
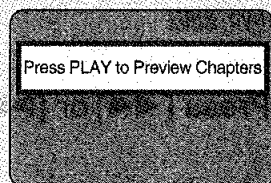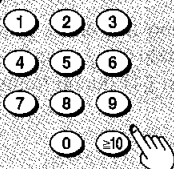To return to menu play, press [■] and [MENU].
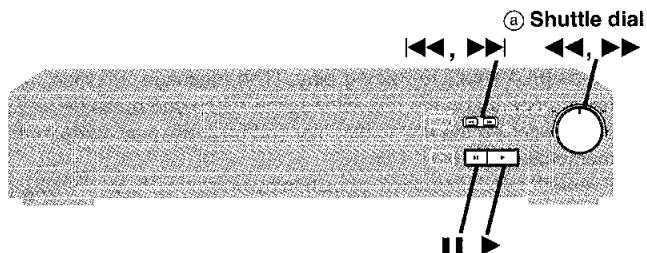
Basic operations

DVD-RV41

ⓐ Shuttle dial

|◄◄, ►►| ◄◄, ►►

|| ► ◄, ►

DVD-RV31 (For the United Kingdom and Continental Europe)

ⓐ Shuttle dial

|◄◄, ►►| ◄◄, ►►

|| ►

DVD-RV31 (For Australia, N.Z. and Asia)

ⓐ Shuttle dial

|◄◄, ►►| ◄◄, ►►

|| ►

PAUSE PLAY

|| ──── || ► ──── ►

SKIP   SLOW/SEARCH

|◄◄, ►►| ──── |◄◄ ►►| ◄◄ ►► ──── ◄◄, ►►

◄, ► ──── ◄ ►

A

SKIP

|◄◄ ►►| or |◄◄ ►►|

ⓑ Play position

ⓒ twice ⓓ once | once twice

ⓔ Chapter/track | Chapter/track | Chapter/track

◄──── [|◄◄] ──── | ──── [►►|] ────►

B

◄ ►

C

SLOW / SEARCH

◄◄ ►► or or

D

SLOW / SEARCH

◄◄ ►► or or
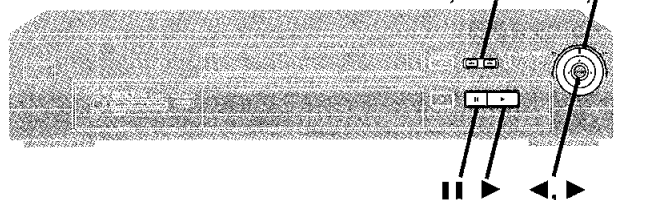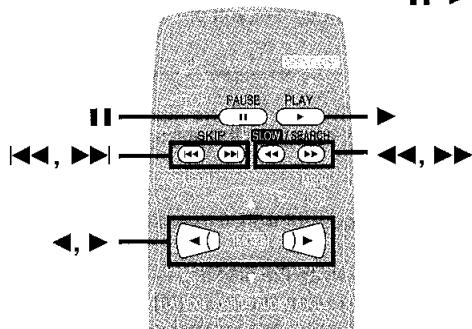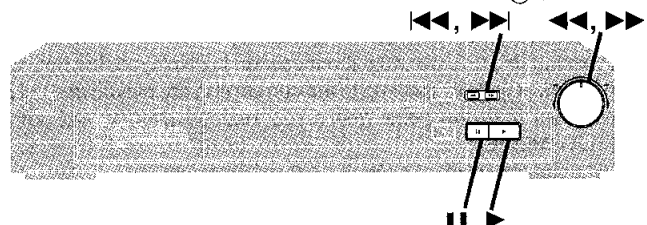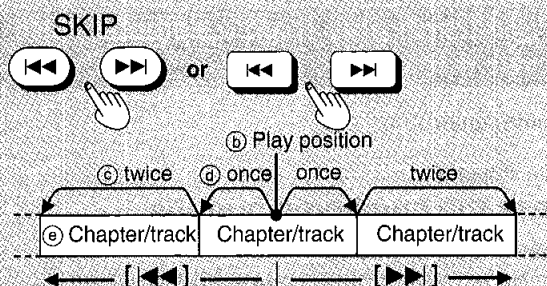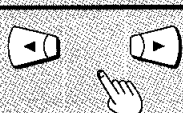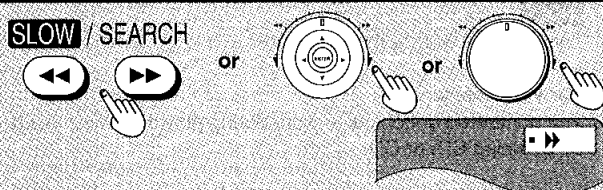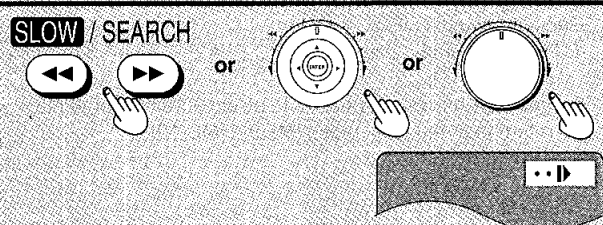
DVD-RV41 **DVD-RV31**

A Skipping chapters or tracks

DVD VCD CD

During play or while paused

Press [|◄◄] or [►►|].

Each press increases the number of skips.

B Frame-by-frame viewing

DVD VCD

DVD-RV31: Remote control only

While paused

Press [◄] or [►].

The frame changes each time you press the buttons.

- The frames change in succession if you press and hold the button.
- Pressing [||] also activates forward frame-by-frame.

C Fast forward and rewind–SEARCH

DVD VCD CD

During play

Press [◄◄] or [►►].

For your reference
Audio will be heard during search for most discs. You can turn this audio off if you want to (DVD and Video CD only ➡ page 22, Audio–Audio during Search).

D Slow-motion play

DVD VCD

While paused

Press [◄◄] or [►►].

Notes
- The speed of search and slow-motion increases up to 5 steps.
- Press [►] (PLAY) to restart play.
- When you release the shuttle dial during search or slow-motion, the unit returns to the previous state (play or pause).
- You cannot move backwards with Video CD during frame-by-frame and slow-motion.
- [|◄◄], [◄] or [◄◄]: Backward
  [►►|], [►] or [►►]: Forward

When playing Video CDs with playback control
Turning the shuttle dial or pressing buttons to perform skip, search or slow-motion may take you to a menu screen.

A, ▼, ◄, ► ——

SUBTITLE ——

—— ANGLE
—— AUDIO

(a) Numbered buttons
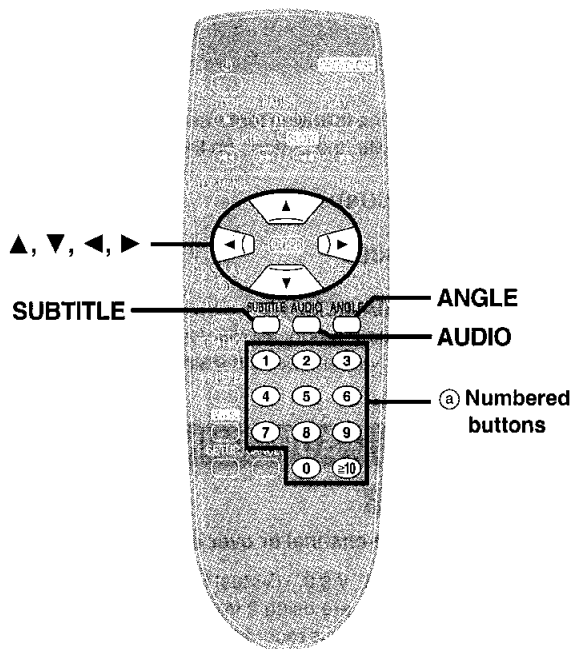
DVD-RV41 **DVD-RV31**

[DVD]

Remote control only

Some DVDs have multiple soundtracks, subtitle languages and camera angles, and you can change these during play.

A Soundtracks

During play

Press [AUDIO].

The number changes each time you press the button.
● You can also use this button to turn the vocals on and off on karaoke discs. Read the disc's instructions for details.

B Subtitles

During play

Press [SUBTITLE].

The number changes each time you press the button.

To clear/display the subtitles
1. Press [SUBTITLE].
2. Press [►].
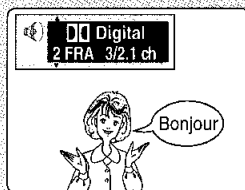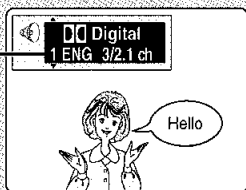3. Press [▲, ▼] to select "ON" or "OFF".

C Angles

During play

Press [ANGLE].

The number changes each time you press the button.

A AUDIO

⚫ Digital
1 ENG 3/2.1 ch

Hello

▶

⚫ Digital
2 FRA 3/2.1 ch

Bonjour

(b) Soundtrack language number

(c) Indicates that a multi-channel soundtrack can be down-mixed.

(d) Lights when a multi-channel soundtrack is playing.

	TITLE	CHAP	D.MIX	MLTCH	BASS
DVD VIDEO ▶					

B SUBTITLE

ON
1 ENG

I love you

▶

ON
2 FRA

Je t'aime

(e) Subtitle language number

C ANGLE

1

▶

2

(f) Angle number

Notes regarding soundtracks, subtitle languages and angles
● You can also use [▲, ▼] or the numbered buttons to change the soundtracks, subtitle languages and angles.
● Some discs allow changes to soundtracks, subtitle languages and angles only by using the disc's menus.
● Soundtrack and subtitle languages can be set before play with the initial settings (➡ page 22, Disc–Audio and Subtitle).
● "–" or "– –" is displayed instead of the language number in circumstances such as when no language is recorded on the disc.
● Some discs allow you to set angles before multi-angle scenes are played. Read the instructions that come with the DVD.
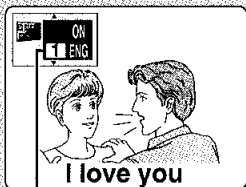● In some cases, the subtitle language is not changed to the selected one immediately.

Advanced operations
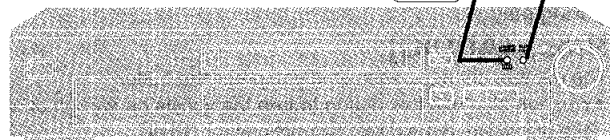
13

RQT5869

DVD-RV41

ADVANCED
SURROUND
(V.S.S.)

DVD-RV31 (For the United Kingdom and Continental Europe)
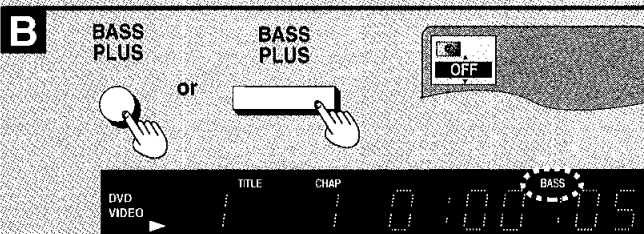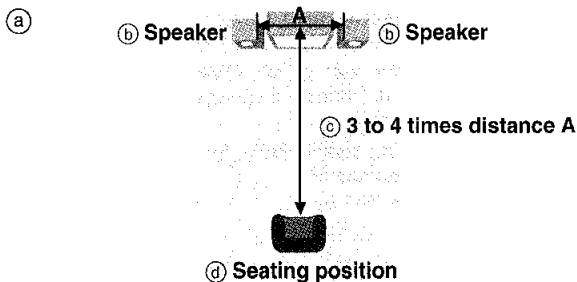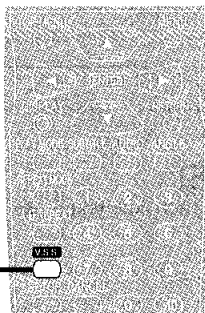
ADVANCED   BASS
SURROUND   PLUS
(V.S.S.)

DVD-RV31 (For Australia, N.Z. and Asia)

ADVANCED BASS
SURROUND PLUS
(V.S.S.)

V.S.S.

A

ADVANCED   ADVANCED
SURROUND   SURROUND

or

(V.S.S.)   (V.S.S.)

DVD
VIDEO ►   V S S 1

ⓐ ⓑ Speaker |◄─A─►| ⓑ Speaker

ⓒ 3 to 4 times distance A

ⓓ Seating position

B

BASS   BASS
PLUS   PLUS

or

DVD
VIDEO ►
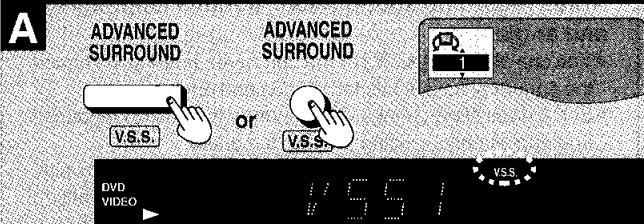
Increasing your enjoyment of movies

You can easily control the following features, used for increasing your enjoyment of movies, with the buttons on the main unit.

- ●ADVANCED SURROUND (V.S.S.)
- ●BASS PLUS
- ●DIALOGUE ENHANCER
- ●CINEMA
- ●ONE TOUCH CINEMA MEMORY
  The one touch cinema memory allows you to reselect the settings you made for the above features with a single button press.

A ADVANCED SURROUND (V.S.S.)

DVD-RV41 DVD-RV31

[DVD] (Dolby Digital, 2-channel or over only)

Use Advanced Surround (V.S.S.) (Virtual Surround Sound) to enjoy a surround-like effect if you are using 2 front speakers. If you are playing a disc with surround effects recorded on it, the effect is broadened and sound seems to come from virtual speakers on either side.

Press [ADVANCED SURROUND (V.S.S.)].

Each time you press the button:

┌→ **1**: Natural effect
│   ↓
│   **2**: Emphasized effect
│   ↓
└── **OFF**: Cancel (Factory preset)

●The V.S.S. indicator lights up when Advanced Surround is on.

Note
●Advanced Surround will not work or will have less effect with some discs, even if you select "VSS 1" or "VSS 2".
●Turn off the surround sound effects on the equipment you have connected when using this effect.
●Turn Advanced Surround off if it causes distortion.
●Sound will only come from the two front speakers if Advanced Surround is on.

Optimum seating position (ⓐ)

B BASS PLUS

DVD-RV31

[DVD] VCD CD

Main unit only

Turn BASS PLUS on when you have connected an active subwoofer to the SUBWOOFER terminal on the rear of the unit (➡ page 28).

Press [BASS PLUS].

Each time you press the button:
OFF

↕

ON (Factory preset): Indicator lights up.

DVD-RV41

DIALOGUE
ENHANCER CINEMA

ONE TOUCH
CINEMA MEMORY

DVD-RV31 (For the United Kingdom and Continental Europe)

DIALOGUE
ENHANCER

DVD-RV31 (For Australia, N.Z. and Asia)

DIALOGUE
ENHANCER CINEMA

ONE TOUCH
CINEMA MEMORY

A

DIALOGUE   DIALOGUE
ENHANCER   ENHANCER

or

ON

DVD
VIDEO   TITLE   CHAP

B

CINEMA

C

DVD
VIDEO   TITLE   CHAP

C

ONE TOUCH
CINEMA MEMORY

Main unit only

A DIALOGUE ENHANCER

DVD-RV41 **DVD-RV31**

[DVD] (Dolby Digital, 3-channel or over, where the dialogue is recorded in the center channel)

This mode makes the dialogue in movies easier to hear.

Press [DIALOGUE ENHANCER].
Each time you press the button:
ON: Indicator lights up.

OFF (Factory preset)

Note

Dialogue Enhancer will not work or will have less effect with some discs, even if you select "ON".

B CINEMA

DVD-RV41
DVD-RV31 (For Australia, N.Z. and Asia)

[DVD] [VCD]

You can enjoy better pictures by changing the picture quality.

Press [CINEMA].
Each time you press the button:
C: Cinema mode: Indicator lights up.
Mellows movies, enhances detail in dark scenes.

N: Normal mode (Factory preset)

For your reference
You can make finer adjustments to the picture if desired (➡ page 20, Digital picture mode–User mode).

C ONE TOUCH CINEMA MEMORY

DVD-RV41
DVD-RV31 (For Australia, N.Z. and Asia)

This feature allows you to reselect the settings you made for ADVANCED SURROUND (V.S.S.), BASS PLUS, DIALOGUE ENHANCER and CINEMA with one button press.

| Putting the settings into memory |
After making the settings

Press and hold [ONE TOUCH CINEMA MEMORY] until it lights.
The settings remain in the memory even if you turn the unit off.

| Recalling the settings |

Press [ONE TOUCH CINEMA MEMORY].
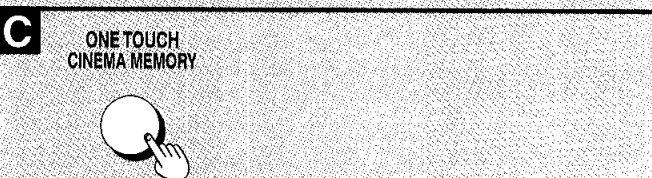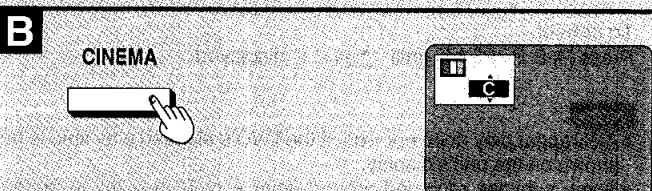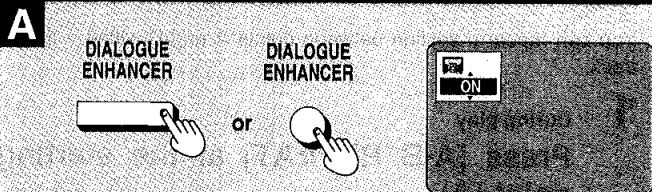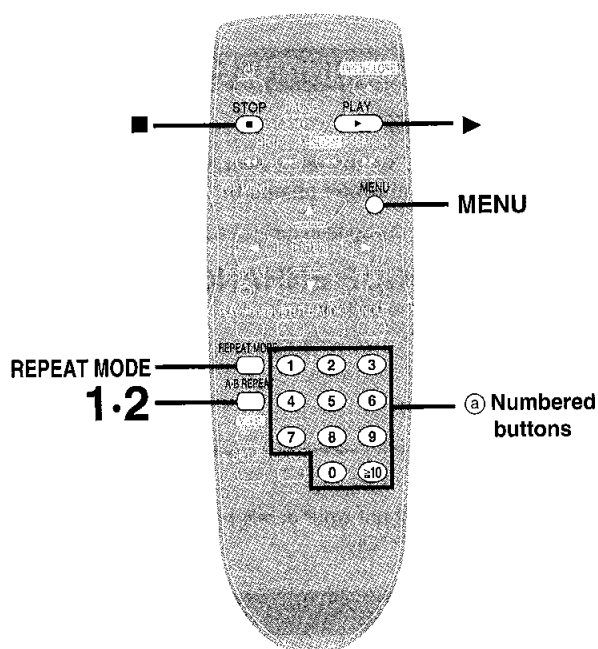The button's light comes on.

To cancel
Press [ONE TOUCH CINEMA MEMORY] to turn it off and return the settings for the features to the factory preset.
● ADVANCED SURROUND (V.S.S.): OFF
● BASS PLUS: ON
● DIALOGUE ENHANCER: OFF
● CINEMA: OFF (normal)

The button's light also turns off if you press any of the other buttons to change the settings.

Advanced operations

15

MENU

REPEAT MODE

1·2

ⓐ Numbered buttons

Advanced operations

A Repeat play

During play

Press [REPEAT MODE].

The display changes as illustrated.

●**DVD**

   Chapter (ⓑ)→Title (ⓒ)→off (ⓓ)

●**Video CD/CD**

   Track (ⓔ)→Entire disc (ⓕ)→off (ⓖ)

If the Video CD has playback control

Cancel menu play first.

1. Press [■] during play until "PBC PLAY" is cleared from the unit's display.
2. Press the numbered buttons to select a track to start play.
3. Press [REPEAT MODE] (➡ above).

To return to menu play, press [■] and press [MENU].

Note
●Repeat play may not work as desired with some DVDs.
●Repeat play does not work if the disc's elapsed play time is not shown on the unit's display.
●There is no mode for repeating the whole DVD.

■ To repeat only your favorite tracks
VCD CD
1. Program the tracks you want (➡ page 17).
2. Press [▶] (PLAY). Play will start.
3. Press [REPEAT MODE] to display "↻T" or "↻A".
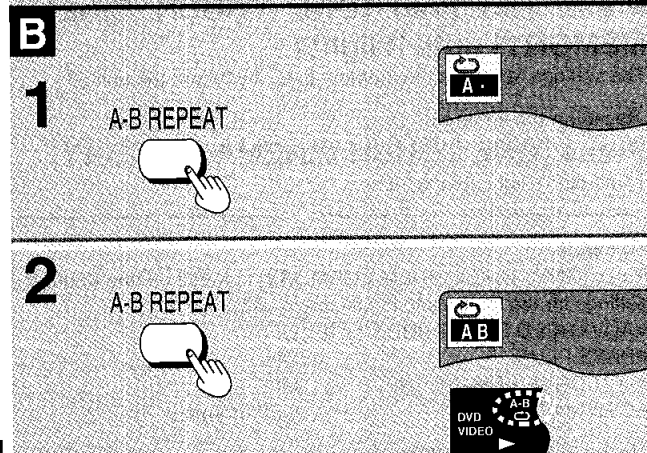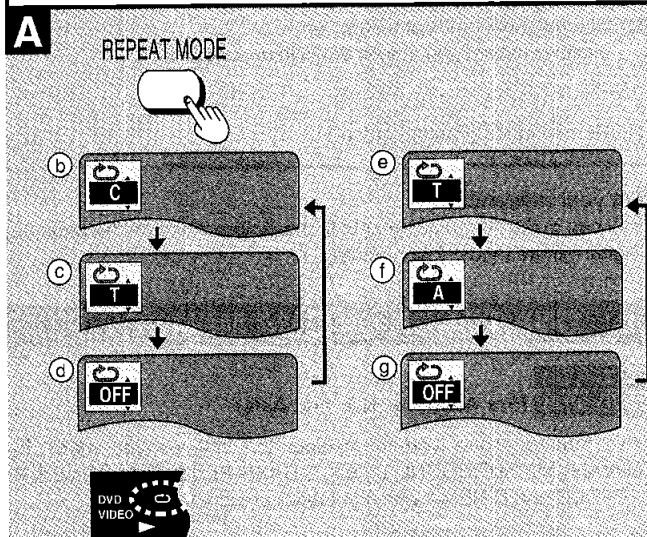
B A-B repeat play

You can repeat a section between points A and B within a title or track.

1 **During play**

Press [A-B REPEAT] at the starting point (A).

2 ## Press [A-B REPEAT] at the finishing point (B).

To cancel

Press [A-B REPEAT] until "↻ ••" is displayed.

Note
●A-B repeat play does not work if the DVD's elapsed play time is not shown on the unit's display.
●Some subtitles recorded around point A or B may fail to appear (DVD).
●The unit automatically determines the end of a title/track as point B when the end of the title/track is reached.

DVD-RV31 (For Australia, N.Z. and Asia)

RANDOM

▲, ▼, ◄, ► ENTER

3·2
◄◄, ►►

1·1

CANCEL

A

2

3

B
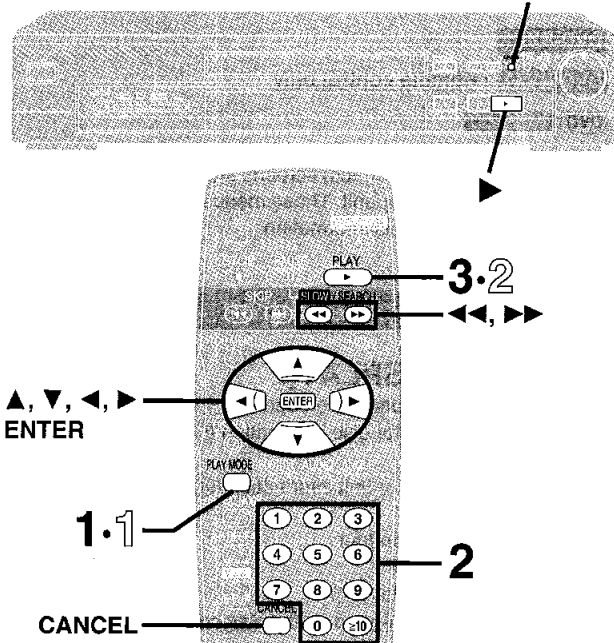
DVD-RV41 **DVD-RV31**

VCD **CD**

A Program play

Remote control only

You can select up to 32 tracks to play in the order you choose.

1 While stopped

Press [PLAY MODE] until the program play screen appears.

2 Press the numbered buttons to select the track.
- ●To select a 2-digit number
  Example: To select track 23, press [≧10], then [2] and [3].
- ●To select a track using the cursor buttons
  Press [ENTER] and [▲, ▼] to select a track, then press [ENTER] again to register the track number.
- ●Repeat step **2** to select another track.
- ●"Total Time" tells you the total time of the programmed tracks.

3 Press [►] (PLAY).
Play now begins in the programmed sequence.

To add or change tracks
Press [▲, ▼] to select an available item, then repeat step **2**.

To move to the page before or after the one shown
Press [◄◄, ►►].

To clear the programmed tracks one by one
Press [▲, ▼] to select the track and press [CANCEL]. (Alternatively you can select "Clear" and press [ENTER].)

To clear the whole program
Move to "Clear all" with [▲, ▼, ◄, ►] and press [ENTER].
The whole program is also cleared when the unit is turned off, or the disc tray is opened.

To exit the program mode
Press [PLAY MODE] while stopped until the program play screen disappears.
●The program is retained in memory.

B Random play

DVD-RV41 for all regions and
DVD-RV31 for the United Kingdom and Continental Europe:
Remote control only

The unit plays the tracks on a disc in random order.

1 While stopped

Press [PLAY MODE] until the random play screen appears.

2 Press [►] (PLAY).
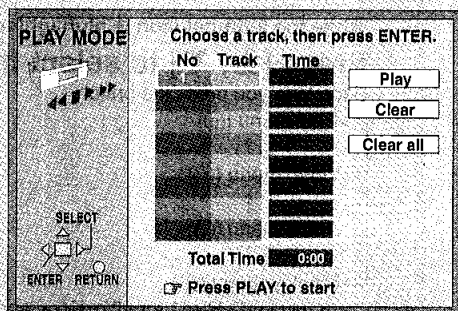Play now begins in random order.

To exit random mode
Press [PLAY MODE] while stopped until the random play screen disappears.
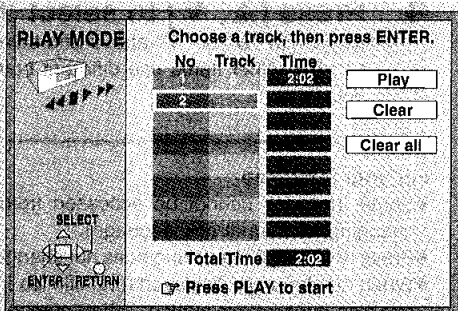
DVD-RV31 for Australia, N.Z. and Asia:
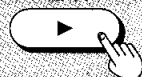The random play screen also appears if you press [RANDOM] on the main unit.

Advanced operations

17

RQT5869
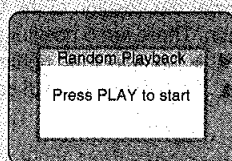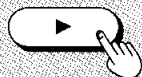
`DVD-RV41`

`DVD-RV31` : Remote control only

`DVD` `VCD` `CD`

GUI (Graphical User Interface) screens are menus that contain information about the disc or unit. These menus allow you to perform operations by changing this information.

Common procedures

1 **Press [DISPLAY].**
Each time you press the button:
→GUI screen for disc information (ⓒ)
↓
GUI screen for unit information (ⓓ)
↓
Shuttle screen (ⓔ)
↓
└─Original display (ⓕ)
●The screens depend on the disc contents.

2 GUI screen for unit information only
While the leftmost icon is highlighted

Press [▲, ▼] to select the menu.
Each time you press the button:
→Play menu (ⓖ)
↓ ↑
Video menu (ⓗ)*
↓ ↑
Audio menu (ⓘ)
↓ ↑
→Display menu (ⓙ)
*Only DVD-RV41 for all regions and
DVD-RV31 for Australia, N.Z. and Asia

3 **Press [◄, ►] to select the item.**

4 **Press [▲, ▼] to select the setting.**
Items with "▲" or "▼" above and below can be changed by [▲, ▼]. Other items use different buttons. See page 20 for details.

For your reference
●Some functions cannot be accessed from the stop mode (e.g. changing the soundtrack language).
●Press [ENTER] if the setting does not change after pressing [▲,▼].
●When numbers are displayed (e.g. title No.), the numbered buttons are also effective for setting. When numbers are entered with the numbered buttons, press [ENTER] to register the setting.

To clear the GUI screen
Press [RETURN].
When [RETURN] is pressed while one of the icons for unit information is highlighted, the leftmost icon is highlighted. The screen is cleared when you press [RETURN] while the leftmost icon is highlighted.

■ To change the position of the GUI screens
You can lower the position of the GUI screens if they are cut off for some reason. There are 5 positions to choose from.
1. Press [◄, ►] to select the rightmost icon.
2. Press [▲,▼] to move the GUI screen.

2·3·4
ENTER
RETURN

ⓐ Numbered buttons

1 DISPLAY

ⓑ Example: DVD
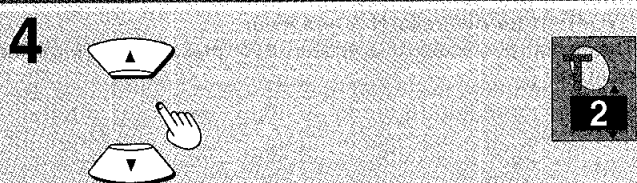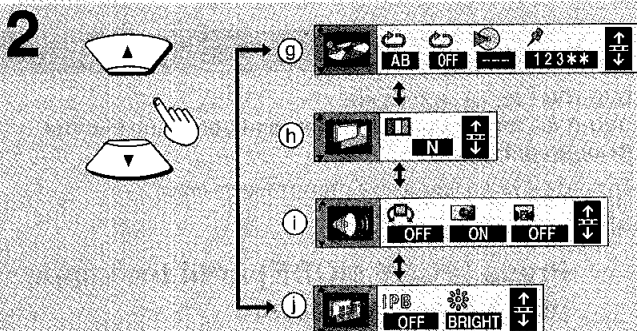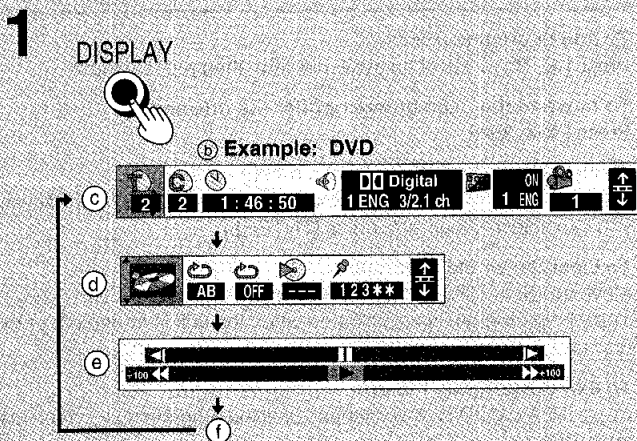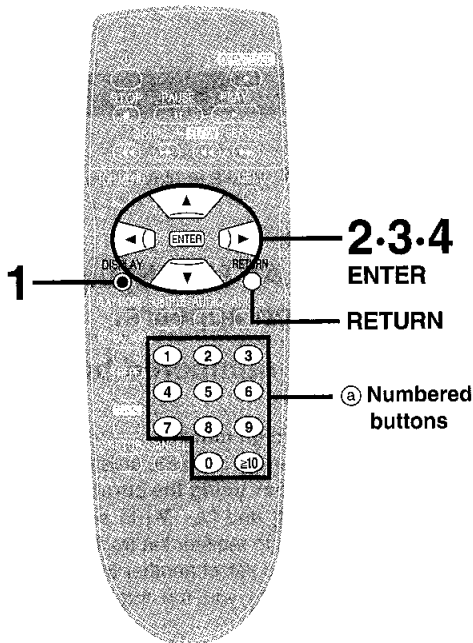
A
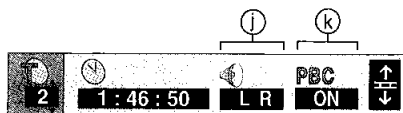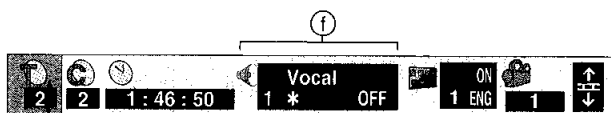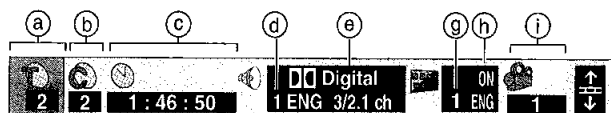
B
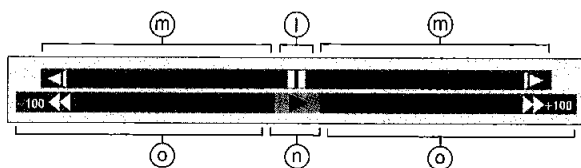
A Screen for disc information

Icon	Content
ⓐ	**[DVD] Title number** **[VCD] [CD] Track number**
ⓑ	**[DVD] Chapter number**
ⓒ	**[DVD]** Time (select a position to start play by specifying a time)
	[VCD] [CD] **Changing the time display** Track elapsed time ⟷ Track remaining time ⟶ Disc remaining time ⟵
ⓓ	**[DVD]** **Soundtrack language** (See below for language abbreviations.)
ⓔ	**Audio signal type** (See below for details.)
ⓕ	**Karaoke vocal on/off** (Karaoke DVD only) Solo : OFF or ON Duet: OFF, V1+V2, V1 or V2
ⓖ	**[DVD]** **Subtitle language** (See below for language abbreviations.)
ⓗ	**Subtitle on/off** ON⟷OFF
ⓘ	**[DVD] Angle number**
ⓙ	**[VCD] Audio mode** LR⟷L⟷R
ⓚ	**[VCD]** (with playback control only) **Menu play** Indicates whether menu play (playback control) is on or off.

Audio/Subtitle language

ENG: English	SVE: Swedish	CHI: Chinese
FRA: French	NOR: Norwegian	KOR: Korean
DEU: German	DAN: Danish	MAL: Malay
ITA: Italian	POR: Portuguese	VIE: Vietnamese
ESP: Spanish	RUS: Russian	THA: Thai
NLD: Dutch	JPN: Japanese	*: Others

Signal type/data
LPCM/□□ Digital/DTS/MPEG: Signal type
k (kHz): Sampling frequency
b (bit): Number of bits
ch (channel): Number of channels
Example:
3/2 .1ch

.1: Subwoofer signal (not displayed if there is no subwoofer signal)
0: No surround 1: Mono surround 2: Stereo surround (left/right)
1: Center 2: Front left+Front right 3: Front left+Front right+Center

B Shuttle screen

Icon	Content
ⓛ	**Pause**
ⓜ	**Slow-motion play** ◄l: Backward [DVD] l►: Forward [DVD] [VCD]
ⓝ	**Play**
ⓞ	**Search** ◄◄: Backward ►►: Forward

●There are five speeds for both backward and forward slow-motion and search.
●The numbers on either side of the shuttle screen indicate the maximum speeds of the search.

A

ⓐ ⓑ ⓒ ⓓ

AB   OFF   ---   123✱✱

B

ⓔ ⓕ ⓖ ⓗ

U   0   0   0

C

ⓘ ⓙ ⓚ

OFF   ON   OFF

D

ⓛ ⓜ

IPB   ✱

OFF   BRIGHT
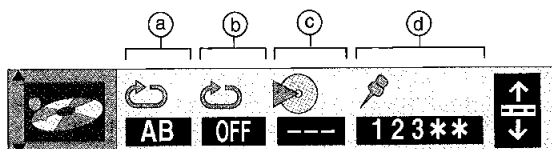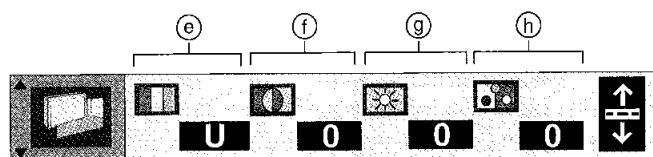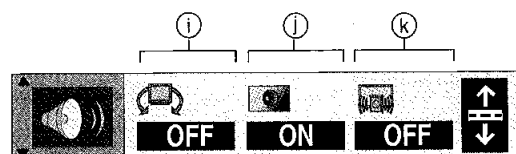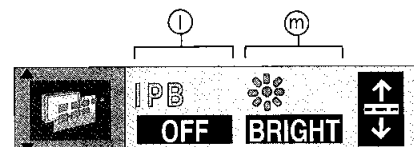
Screen for unit information

A   Icons for play menu

Icon	Content
ⓐ	**A-B repeat** (➡ page 16) [ENTER] (start point) ➡ [ENTER] (finish point) To cancel: [ENTER]
ⓑ	**Repeat play** (➡ page 16) [DVD] C (Chapter) ↔ T (Title) ↔ OFF VCD CD T(Track) ↔ A (All) ↔ OFF
ⓒ	VCD CD **Play mode display** ---: Off PGM: Program play RND: Random play
ⓓ	**Marker:** You can mark up to 5 positions to play again. [ENTER] (The unit is now ready to accept markers.) To mark a position: [ENTER] (at the desired point) To mark another position: [◄, ►] ➡ [ENTER] To recall a marker: [◄, ►] ➡ [ENTER] To erase a marker: [◄, ►] ➡ [CANCEL]

B   Icons for video menu

Only DVD-RV41 for all regions and
DVD-RV31 for Australia, N.Z. and Asia

ⓔ	[DVD] VCD **Digital picture mode** N: Normal mode C: Cinema mode (➡ page 15) U: User mode (The following items are also displayed when you select "U".)
ⓕ	**Contrast** (−7 to +7)
ⓖ	**Brightness** (0 to +15)
ⓗ	**Color** (−7 to +7)

C   Icons for audio menu

ⓘ	[DVD] (Dolby Digital, 2-channel or over only) **Advanced Surround** (V.S.S.) (➡ page 14) 1 ↔ 2 ↔ OFF
ⓙ	**DVD-RV31** **Bass Plus** (➡ page 14) OFF ↔ ON
ⓚ	[DVD] (Dolby Digital, 3-channel or over only) **Dialogue Enhancer** (➡ page 15) ON ↔ OFF

D   Icons for display menu

ⓛ	[DVD] **IPB display** (➡ page 29) Displays the picture type (I/P/B) in the still picture mode. ON ↔ OFF
ⓜ	**Display dimmer:** Changes the brightness of the unit's display. BRIGHT ↔ DIM ↔ AUTO✱ ✱The display is dimmed during play, but brightens when you perform operations such as slow-motion, search, and pause.

Note

●A-B repeat play (DVD), repeat play and marker functions do not work if the disc's elapsed play time is not shown on the unit's display.
●All the markers are cleared when the unit is turned off, or the disc tray is opened.

2·3·4

RETURN

1 SETUP

2

ⓐ Panasonic SETUP Disc
Audio	English
Subtitle	Automatic
Menus	English
Ratings	Level 8

ⓑ Panasonic SETUP Video
TV Aspect	4:3 Pan&Scan
AV Output	Video
Still Mode	Automatic
NTSC Disc Output	PAL60

ⓒ Panasonic SETUP Audio
Speaker Setting	2-channel
PCM Down Conversion	No
Dolby Digital	Bitstream
DTS Digital Surround	Off
MPEG	PCM
D. Range Compression	Off
Audio during Search	On

ⓓ Panasonic SETUP Display
| Menu Language | English |
| On-Screen Messages | On |

ⓔ Panasonic SETUP Others
| Demo | Off |

3·4

ENTER

Changing initial settings

DVD-RV41 DVD-RV31

DVD VCD CD

Remote control only

Change the initial settings to suit your preferences and to suit the unit to the environment in which it is being used.
These settings are retained in memory until they are changed, even if the unit is turned off.

Common procedures

See page 22 for menu and option details.

1 Press [SETUP] to show the menus.
The screen shows the Disc menu (ⓐ) first.

2 Press [◄, ►] to select the menu's tab.
The screen changes to display the menu.

→Disc menu (ⓐ)
 ↓
Video menu (ⓑ)*1
 ↓
Audio menu (ⓒ)*2 *3
 ↓
Display menu (ⓓ)
 ↓
Others menu (ⓔ)

*1 AV Output: DVD-RV31 for the United Kingdom and Continental Europe
 AV1 Output: DVD-RV41 for the United Kingdom and Continental Europe
*2 Speaker Setting: DVD-RV41 for all regions
*3 MPEG: DVD-RV41 for all regions
 DVD-RV31 for the United Kingdom, Continental Europe, Australia and N.Z.

3 Press [▲, ▼] to select the item you want to change and press [ENTER].

4 Press [▲, ▼] to select the option and press [ENTER].
The screen now shows the menu again.
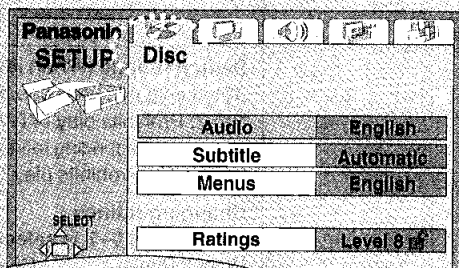

To return to the previous screen
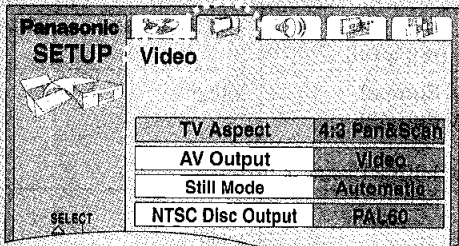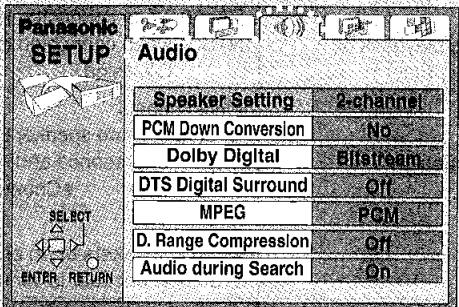Press [RETURN].

When you are finished
Press [SETUP].

Advanced operations

21

DVD-RV41 DVD-RV31
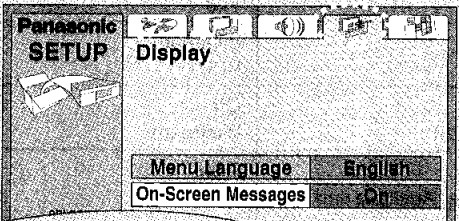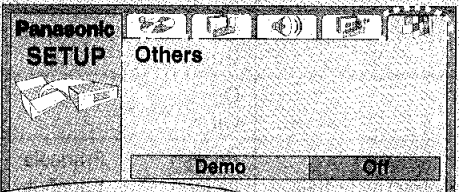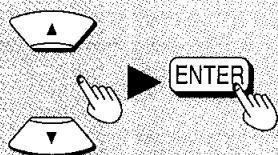
Summary of initial settings

This chart shows the initial settings for this unit. See page 21 for details on menu operation.
● Underlined items are the factory presets.

Main menus	Menus	Options
Disc [DVD]	**Audio** Choose the preferred audio language*.	English French German Italian Spanish Original Other ✳✳✳✳
	Subtitle Choose the preferred subtitle language*.	Automatic English French German Italian Spanish Other ✳✳✳✳
	Menus Choose the preferred language for disc menus*.	English French German Italian Spanish Other ✳✳✳✳
	*The language choices for Asia are English and Chinese.	
	Ratings Set a ratings level to limit DVD play.	**Setting ratings (When level 8 is selected)** 8 No Limit: All DVDs can be played. 1 to 7: Prohibits play of DVDs with corresponding ratings recorded on them. 0 Lock All: Prohibits play of all DVDs. **Changing ratings** **(When level 0–7 is selected)** Unlock Player Change Level Change Password Temporary Unlock
Video [DVD] [VCD]	**TV Aspect** Choose the setting to suit your television and preference (➡ page 9).	4:3 Pan&Scan 4:3 Letterbox 16:9
	DVD-RV41 (For the United Kingdom and Continental Europe) **DVD-RV31** (For the United Kingdom and Continental Europe) **AV Output (AV1 Output on DVD-RV41)** Choose the video signal format to be output from the AV (AV1) SCART terminal.	Video S-Video RGB DVD-RV41
	Still Mode Specify the type of picture shown when paused.	Automatic Field Frame
	NTSC Disc Output Choose whether PAL 60 or NTSC signal is output during playback of NTSC discs (➡ page 5). (For Asia: "NTSC" is the factory preset.)	PAL60: when connected to a PAL television. NTSC: when connected to an NTSC television.
Audio	**DVD-RV41** **Speaker Setting** [DVD] Choose the settings to suit your audio system and the listening environment (➡ page 24).	Multi-channel: when 3 or more speakers are connected. ● Speaker presence and size ● Delay time ● Channel balance 2-channel: when 2 speakers or an amplifier with a Dolby Pro Logic decoder is connected.
	PCM Down Conversion [DVD] Digital output of 96-kHz linear PCM signals (➡ page 25)	No Yes
	Dolby Digital [DVD] Digital output of Dolby Digital signals (➡ page 25)	Bitstream PCM
	DTS Digital Surround [DVD] Digital output of DTS Digital Surround signals (➡ page 25)	Off Bitstream
	DVD-RV41 (For all regions) **DVD-RV31** (For the United Kingdom, Continental Europe, Australia and N.Z.) **MPEG** [DVD] Digital output of MPEG signals (➡ page 25)	PCM Bitstream
	D. Range Compression [DVD] (Dolby Digital only) Change the dynamic range for late night viewing.	Off On
	Audio during Search [DVD] [VCD] Choose whether to have sound during search.	On Off
Display	**Menu Language** Choose the preferred language for these menus and the on-screen messages. (For Asia: English and Chinese)	English Français Deutsch Italiano Español
	On-Screen Messages Choose whether to show on-screen messages or not.	On Off
Others	**Demo** A demonstration of the unit's on-screen displays starts when you select "On". The demonstration stops when you press a button.	Off On

●The menu and on-screen message language has been factory preset to English. You can change the language by going to "Menu Language" in the Display menu.

Note

■**Disc–Audio, Subtitle and Menus**
Original: The original language of each disc will be selected.
Other ✳✳✳✳: Input a code number with the numbered buttons (➡ see below).
Automatic: If the language selected for "Audio" is not available, subtitles of that language will automatically appear if available on that disc.
●Some discs are designed to start in a certain language despite any changes you make here.

■**Disc–Ratings**
●The password screen is shown if you choose levels 0 to 7 or if you choose "Ratings" when levels 0 to 7 have been selected (➡ page 25).
●Select "Level 0" to prevent play of discs that do not have ratings levels recorded on them.

■**Video–Still Mode**
Field: Less blurred field stills are shown. Select if jittering occurs when "Automatic" is selected.
Frame: Sharper frame stills are shown. Select if small text or fine patterns cannot be seen clearly when "Automatic" is selected.

Advanced operations

Language code list

Abkhazian:	6566	Chinese:	9072	Hausa:	7265	Lithuanian:	7684	Romanian:	8279	Telugu:	8469
Afar:	6565	Corsican:	6779	Hebrew:	7387	Macedonian:	7775	Russian:	8285	Thai:	8472
Afrikaans:	6570	Croatian:	7282	Hindi:	7273	Malagasy:	7771	Samoan:	8377	Tibetan:	6679
Albanian:	8381	Czech:	6783	Hungarian:	7285	Malay:	7783	Sanskrit:	8365	Tigrinya:	8473
Ameharic:	6577	Danish:	6865	Icelandic:	7383	Malayalam:	7776	Scots Gaelic:	7168	Tonga:	8479
Arabic:	6582	Dutch:	7876	Indonesian:	7378	Maltese:	7784	Serbian:	8382	Turkish:	8482
Armenian:	7289	English:	6978	Interlingua:	7365	Maori:	7773	Serbo-Croatian:	8372	Turkmen:	8475
Assamese:	6583	Esperanto:	6979	Irish:	7165	Marathi:	7782	Shona:	8378	Twi:	8487
Aymara:	6588	Estonian:	6984	Italian:	7384	Moldavian:	7779	Sindhi:	8368	Ukrainian:	8575
Azerbaijani:	6590	Faroese:	7079	Japanese:	7465	Mongolian:	7778	Singhalese:	8373	Urdu:	8582
Bashkir:	6665	Fiji:	7074	Javanese:	7487	Nauru:	7865	Slovak:	8375	Uzbek:	8590
Basque:	6985	Finnish:	7073	Kannada:	7578	Nepali:	7869	Slovenian:	8376	Vietnamese:	8673
Bengali; Bangla:	6678	French:	7082	Kashmiri:	7583	Norwegian:	7879	Somali:	8379	Volapük:	8679
Bhutani:	6890	Frisian:	7089	Kazakh:	7575	Oriya:	7982	Spanish:	6983	Welsh:	6789
Bihari:	6672	Galician:	7176	Kirghiz:	7589	Pashto, Pushto:	8083	Sundanese:	8385	Wolof:	8779
Breton:	6682	Georgian:	7565	Korean:	7579	Persian:	7065	Swahili:	8387	Xhosa:	8872
Bulgarian:	6671	German:	6869	Kurdish:	7585	Polish:	8076	Swedish:	8386	Yiddish:	7473
Burmese:	7789	Greek:	6976	Laotian:	7679	Portuguese:	8084	Tagalog:	8476	Yoruba:	8979
Byelorussian:	6669	Greenlandic:	7576	Latin:	7665	Punjabi:	8065	Tajik:	8471	Zulu:	9085
Cambodian:	7577	Guarani:	7178	Latvian, Lettish:	7686	Quechua:	8185	Tamil:	8465		
Catalan:	6765	Gujarati:	7185	Lingala:	7678	Rhaeto-Romance:	8277	Tatar:	8484		

23

A, ▼, ◄, ►
ENTER

ⓐ Numbered buttons

DVD

Speaker setting

DVD-RV41
Select either "2-channel" or "Multi-channel" to suit the speakers you have connected. You can change the following settings when you select "Multi-channel".

A Speaker presence and size

1. Press [▲,▼,◄, ►] to select the item and press [ENTER].
2. Press [▲,▼] to select the setting and press [ENTER].

Icon examples: Surround speaker (L)
Large: when the speaker supports low-frequency (under 100 Hz) reproduction.
Small: Select when the speaker does not support low-frequency reproduction.

The size setting for the front speakers is automatically determined by the setting for the subwoofer.

B Delay time

(Dolby Digital, center and surround speakers only)

For optimum listening with 5.1-channel sound, all the speakers, except for the subwoofer, should be the same distance from the seating position. If you have to place the center or surround speakers closer to the seating position, adjust the delay time to make up for the difference.

If distance ⑨ (from the center speaker) and ① (from the surround speakers) are the same as or greater than ⓗ (from the front speakers), leave the delay time as "0", the factory preset.
If either distance ⑨ or ① is less than ⓗ, find the difference in the relevant table and change to the recommended setting.

●Center speaker

Difference	Setting
Approx. 50 cm	1.3 ms
Approx. 100 cm	2.6 ms
Approx. 150 cm	3.9 ms
Approx. 200 cm	5.3 ms

●Surround speakers

Difference	Setting
Approx. 200 cm	5.3 ms
Approx. 400 cm	10.6 ms
Approx. 600 cm	15.9 ms

Changing the delay time
1. Press [▲,▼,◄, ►] to select the delay time box and press [ENTER].
2. Press [▲,▼] to adjust the delay time and press [ENTER].

C Channel balance

1. Press [▲, ▼, ◄, ►] to select "Test" and press [ENTER].
   A test signal is output from one speaker at a time, starting with the front left speaker and proceeding clockwise. (①)
2. While listening to the test signal, press [▲, ▼] to adjust the volume of the center and surround speakers so they are the same apparent volume as the front speakers.
   (The front speakers cannot be adjusted here.)
3. Press [ENTER].
   (The test signals are stopped.)

Note
No signal is output for the subwoofer. To adjust its volume, play something, then return to this screen to adjust to suit your taste.

When you are finished
Press [▲, ▼, ◄, ►] to select "Exit" and press [ENTER].

Advanced operations

ⓑ Exit

ⓒ Test signal

Panasonic SETUP

Front (L) / Center / Front (R)

Exit
Test

Surround / Subwoofer

A
ⓓ No   ⓔ Large   ⓕ Small

B

C
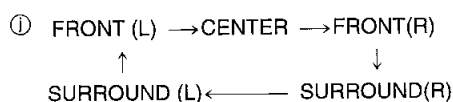① FRONT (L) →CENTER →FRONT(R)
SURROUND (L)← SURROUND(R)
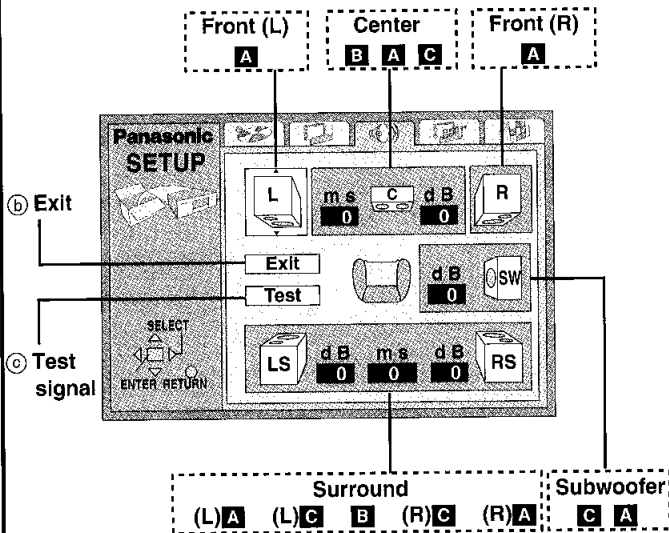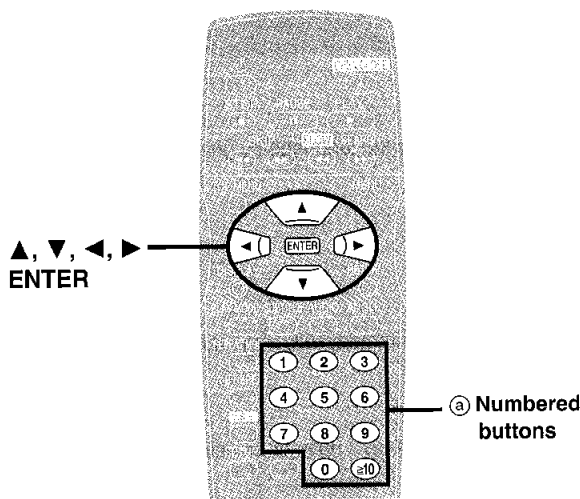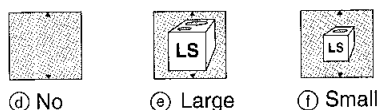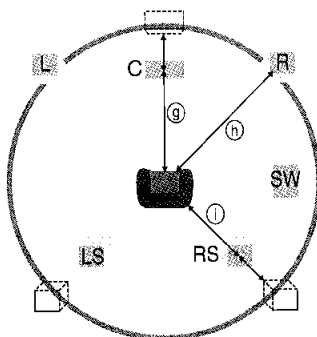
Digital output

DVD-RV41 **DVD-RV31**

Refer also to "Common procedures" (➡ page 21) and the Audio menu in "Summary of initial settings" (➡ page 22).

PCM Down Conversion

No (Factory preset):
When you have connected an amplifier with audio cables.
Yes:
When you have connected an amplifier with an optical digital audio cable.
Copyright protection limits digital output to 48 kHz/16 bit.

When playing DVDs recorded in 96 kHz
Sound is output as follows in accordance with the connections and settings you have made.

Setting	Connection	
	Digital	Analog
No	No output (If there is no copyright protection, audio is output at 96 kHz.*¹)	Output as 96 kHz
Yes	Converted and output as 48 kHz/16 bit	Converted and output as 48 kHz

*¹ The connected equipment must be able to handle 96-kHz LPCM in order to take advantage of high quality audio found on these discs.

Dolby Digital

Bitstream (Factory preset):
When you have connected a unit with a built-in Dolby Digital decoder.
PCM:
When you have connected a unit that doesn't have a built-in Dolby Digital decoder.*²

DTS Digital Surround

Off (Factory preset):
When you have connected a unit that doesn't have a built-in DTS decoder.*² (No digital signal is output.)
Bitstream:
When you have connected a unit with a built-in DTS decoder.

MPEG

DVD-RV41

DVD-RV31 (For the United Kingdom, Continental Europe, Australia and N.Z.)

PCM (Factory preset):
When you have connected a unit that doesn't have a built-in MPEG decoder.*²
Bitstream:
When you have connected a unit with a built-in MPEG decoder.

*²**These changes to digital audio output must be made, otherwise bitstream signals the decoder cannot handle will be output. If these signals are output, "noise" will be output which can cause harm to your ears and speakers.**
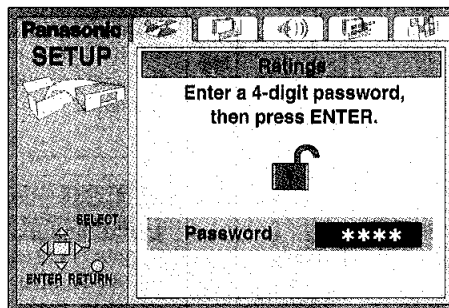
Entering a password

DVD-RV41 **DVD-RV31**

Refer also to "Common procedures" (➡ page 21) and the Disc menu in "Summary of initial settings" (➡ page 22).

When setting ratings (When the level is 8)

The password screen is shown when you select levels 0 to 7.
1. Input a 4-digit password with the numbered buttons and press [ENTER].

● If you enter a wrong number, press [CANCEL] to erase it before you press [ENTER].
The lock symbol appears closed to show the rating is locked.
Do not forget your password.
2. Press [ENTER] to confirm the 4 digits.

> Now, when you insert a DVD that exceeds the ratings limit you set, a message appears on the television.
> Follow the on-screen instructions.

When changing ratings (When the level is 0 to 7)

The password screen is shown when you select "Ratings".
1. Input a 4-digit password with the numbered buttons and press [ENTER].
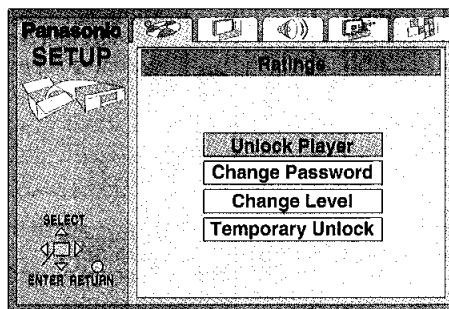
2. Select the item with [▲,▼] and press [ENTER], and follow the on-screen instructions.
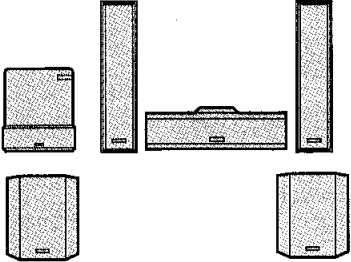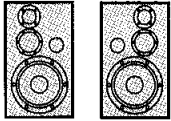
DVD-RV41

This model has a multi-channel (5.1-channel) Dolby Digital decoder so you can enjoy the movie theater-like surround effects found on discs encoded with Dolby Digital merely by connecting it to the 5.1-channel input terminals on an amplifier.
This model does not have a DTS decoder. You must connect a unit with a DTS decoder to enjoy the powerful surround effects this system can provide.

DVD-RV31

This model can play Dolby Digital, but only in two channels. This model does not have a DTS decoder. You must connect a unit with a Dolby Digital or DTS decoder to enjoy surround sound.

What you want to do	How to do it	Reference page	Settings	Reference page
To enjoy 5.1-channel surround sound	**DVD-RV41** **Analog connection** Connect to an amplifier with 5.1-channel audio input terminals.	27 **A**	**DVD-RV41** Speaker Setting Select "Multi-channel".	24
			PCM Down Conversion Select "No".	25
	DVD-RV41 DVD-RV31 **Digital connection** Connect to an amplifier with built-in decoder or a separate decoder-amplifier combination.	27 **B**	PCM Down Conversion Select "Yes". Dolby Digital DTS Digital Surround MPEG* Settings depend on your decoding equipment.	25
			Make the speaker settings on the amplifier or decoder.	–
To enjoy stereo or Dolby Pro Logic	**DVD-RV41 DVD-RV31** **Analog connection** Connect to an analog amplifier or system component.	28 **C**	**DVD-RV41** Speaker Setting Select "2-channel".	22
			PCM Down Conversion Select "No".	25
	DVD-RV41 DVD-RV31 **Digital connection** Connect to a digital amplifier or system component.	28 **D**	PCM Down Conversion Select "Yes". Dolby Digital Select "PCM". DTS Digital Surround Select "Off". MPEG* Select "PCM".	25
To enjoy heavy bass with a sub-woofer	**DVD-RV31** Connect an active subwoofer.	28 **E**	Bass Plus Select "ON".	14

*MPEG: Only DVD-RV41 for all regions and DVD-RV31 for the United Kingdom, Continental Europe, Australia and N.Z.

■ Other uses
Recording to MDs or cassette tapes (➡ page 28).

Note
●The equipment connections described are examples.
●Peripheral equipment and optional cables sold separately unless otherwise indicated.
●Before connection, turn off all equipment and read the appropriate operating instructions.

A Connecting an amplifier with 5.1-channel audio input terminals

ⓐ Audio cable

ⓑ White **(L)**

ⓒ Red **(R)**

ⓓ Back of the unit
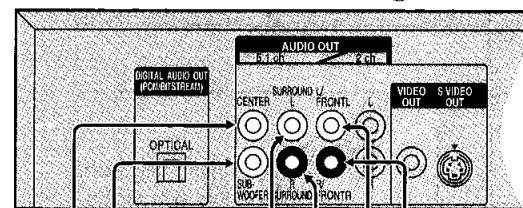
ⓔ Connect cables to terminals corresponding to the speakers you have connected.

CENTER	SUB-WOOFER	SURROUND (L)	(R)	FRONT (L)	(R)
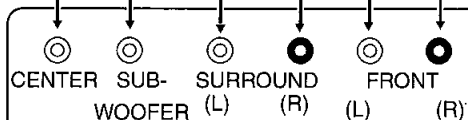
ⓕ Amplifier
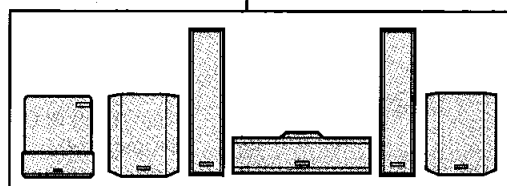
ⓖ Speakers
You can enjoy surround sound by connecting from three to six speakers.
Example: Six speakers

●Select "Multi-channel" and adjust the settings to suit the speakers you have connected (➡ page 24).
●Select "No" in "PCM Down Conversion" (➡ page 25).

Note
●Turn Advanced Surround off (➡ page 14) if you have connected a center speaker, surround speakers or a subwoofer, as well as the front speakers. Sound will not come from the other speakers if Advanced Surround is on.
●Use the connection described in **B** at right to enjoy DVDs encoded with DTS.
●If you do not connect a subwoofer, it is advisable to connect front speakers (L/R) capable of producing bass of less than 100 Hz.

B Connecting an amplifier with a built-in decoder or a decoder-amplifier combination
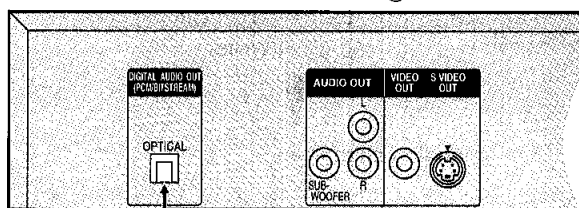
ⓓ Back of the unit

ⓘ Insert fully, with this side facing up.

ⓗ Optical digital audio cable
Do not bend when connecting.

OPTICAL

Adjust the settings to suit the equipment you have connected (➡ page 25).

Note
You cannot use DTS Digital Surround decoders not suited to DVD.

Home Theater

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RQT5869

C Connecting an analog amplifier or system component

DVD-RV41 **DVD-RV31**
ⓐ **Back of the unit**

ⓑ (Red)(White)
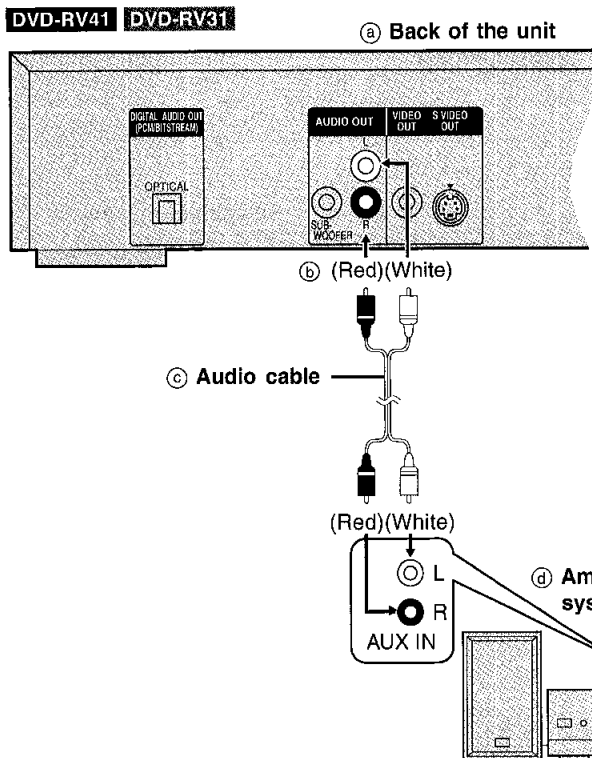
ⓒ Audio cable

(Red)(White)

ⓓ Amplifier or system component

AUX IN

●Select "2-channel" (➡ page 22, Audio–Speaker Setting).
DVD-RV41
●Select "No" in "PCM Down Conversion" (➡ page 25).

D Connecting a digital amplifier or system component

DVD-RV41 **DVD-RV31**
ⓐ **Back of the unit**

ⓔ **Optical digital audio cable**
Do not bend when connecting.

ⓕ Insert fully, with this side facing up.

OPTICAL

Adjust the settings to suit the equipment you have connected (➡ page 25).

To enjoy Dolby Pro Logic
●If you connect an amplifier with a Dolby Pro Logic decoder, you will also need to connect center and surround speakers to enjoy surround sound. Read the instructions for the equipment for connection details.
●Turn Advanced Surround and Bass Plus off (➡ page 14). The Dolby Pro Logic decoder will not function correctly if Advanced Surround and Bass Plus is on.
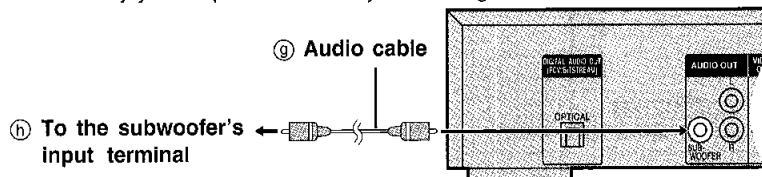
E Connecting an active subwoofer (optional)

DVD-RV31
You can enjoy more powerful bass by connecting an active subwoofer.

ⓖ **Audio cable**

ⓗ **To the subwoofer's input terminal**

●Place the subwoofer as close as possible to the front center.
●Turn BASS PLUS on to boost the output from the subwoofer (➡ page 14).
●Adjust the volume on the subwoofer to suit your preference.

Recording to MDs or cassette tapes

DVD-RV41 **DVD-RV31**

■ Analog recording
You can record to an MD or cassette tape. Using analog connection means sound will be unaffected by the copy guards found on DVDs.

To make an analog recording
1. Connect the recording equipment with an audio cable (➡ **C** above).
2. Set "Speaker Setting" to "2-channel" (➡ page 22). **DVD-RV41**
   (If this is set to "Multi-channel", only the audio for the front 2 speakers will be recorded.)

■ Digital recording
You can record the digital signal directly onto an MD.

The signals on DVDs will be converted to 48 kHz/16 bit linear PCM. Ensure the following conditions are met.
●There is no copy guard recorded on the disc.
●The recording equipment can handle a sampling frequency of 48 kHz/16 bit.

To make a digital recording
1. Connect the recording equipment with an optical digital audio cable (➡ **D** above).
2. When recording DVDs, change the digital audio output settings (➡ page 25).
   PCM Down Conversion: Yes
   Dolby Digital: PCM
   DTS Digital Surround: Off
   MPEG*: PCM
   *Only DVD-RV41 for all regions and DVD-RV31 for the United Kingdom, Continental Europe, Australia and N.Z.

Bitstream

This is the digital form of multiple channel audio data (e.g., 5.1 channel) before it is decoded into its various channels.

Dolby Digital

This is a method of coding digital signals developed by Dolby Laboratories. Apart from stereo (2-channel) audio, these signals can also be 5.1-channel audio. A large amount of audio information can be recorded on one disc using this method.

Dolby Pro Logic

A surround system where a 4-channel audio track is recorded as 2 channels and then is restored to 4 channels for play. The surround channel is monaural and can reproduce up to 7 kHz.

DTS (Digital Theater Systems)

This surround system is used in many movie theaters around the world. There is good separation between the channels, so realistic sound effects are possible.

Dynamic range

Dynamic range is the difference between the lowest level of sound that can be heard above the noise of the equipment and the highest level of sound before distortion occurs.

Field

One frame is made up of 2 fields. A regular television shows these fields one after the other to create frames.

Frame

Frames are the still pictures that go together to make a moving picture. There are about 30 frames shown each second.

Frame still and field still

A still is shown when you pause a moving picture. A frame still is made up of 2 alternating fields, so the picture may appear blurred, but overall quality is high.
A field still is not blurred, but it has only half the information of a frame still so picture quality is lower.

I/P/B

MPEG 2, the video compression standard adopted for use with DVD-Video, codes frames using these 3 picture types.

I: Intra coded picture (I-picture)
This is the standard picture and is a complete picture in itself. This means it has the best picture quality and is the best to use when adjusting the picture.

P: Predictive coded picture (P-picture)
This picture is calculated based on past I or P-pictures.

B: Bidirectionally-predictive coded picture (B-picture)
This picture is calculated by comparing past and future I and P-pictures so it has the lowest volume of information.

Linear PCM (pulse code modulation)

PCM is the usual digital method used for music CDs. DVDs have a greater volume so they use linear PCM, which has a higher sampling rate. Compressed PCM signals are called packed PCM (PPCM).

Optical digital audio cable

Electronic signals are converted to optical signals for output to the amplifier. This reduces noise caused by electronic interference.

Playback control

If a Video CD has "playback control" written on it or its jacket, it means that particular scenes or information can be selected for viewing interactively with the television using the menu screen. This unit can play Video CDs with playback control.
Using menus to control play of a Video CD is called "menu play" in these operating instructions.

Title/Chapter

DVDs are divided up into large sections, titles, and smaller sections, chapters. The numbers allocated to these sections are called title numbers and chapter numbers.

Track

Video CDs and CDs are divided up into sections called tracks, and the numbers allocated to these sections are called track numbers.

Reference

Before requesting service for this unit, check the chart below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.
If you are in doubt about some of the check points, or if the remedies indicated in the chart do not solve the problem, consult your dealer for instructions.

Reference pages are shown as black circled numbers ❽.

Power

No power.	●Insert the AC mains lead securely into the household mains socket. ❽
The unit is automatically switched to the standby mode.	●To conserve power, the unit automatically switches to the standby mode after approx. 30 minutes elapse in the stop mode **(Auto standby)**. Turn the power back to ON.

Operation

No response when buttons pressed.	●Some operations may be prohibited by the disc. ●The unit may not be operating properly due to lightning, static electricity or some other external factor. **Reset procedure:** Press [⏻/I] to switch the unit to the standby mode and then back to ON. Alternatively, press [⏻/I] to switch the unit to the standby mode, disconnect the AC mains lead, and then reconnect it.
No operations can be performed with the remote control.	●Check the batteries are installed with the correct polarities (+ and −). ❻ ●The batteries are depleted: Replace them with new ones. ❻ ●Point the remote control at the remote control sensor and operate. ❻
Play fails to start even when [▶] (PLAY) is pressed. Play starts but then stops immediately.	●Condensation has formed: Wait 1 to 2 hours for it to evaporate. ●This unit cannot play discs other than DVD, Video CD and CD. ❺ ●You can only play DVD if their region number is the same or includes the same region number as the unit or if the DVD is marked "ALL". Confirm the region number for the unit on the rear panel. ❺ ●The disc may be dirty and may require cleaning. ❻ ●Ensure that the disc is installed with the label of the side to be played facing upwards. ❿
Alternative languages fail to be selected.	●An alternative language is not selected with discs which do not contain more than one language. ●In the case of some discs, the alternative language cannot be selected with [AUDIO] or [SUBTITLE]. Try selecting it from the disc's menu if one is available. ❿
No subtitles.	●Subtitles appear only with discs that contain them. ●Subtitles are cleared from the television. Display the subtitles. ⓭
Soundtrack and/or subtitle language is not the one selected at the initial settings.	●The language is not recorded on the disc.
Angle cannot be changed.	●This function is dependent on software availability. Even if a disc has a number of angles recorded, these angles may be recorded for specific scenes only. ⓭
You have forgotten your ratings password. Reset all the settings to Factory Preset.	●While stopped, press and hold [◀◀] and [❙❙] on the unit and then also press and hold [▲] on the unit until "Initialized" disappears from the television. Turn the unit off and on again. All initial settings will return to the default values.

Sound

No sound. Distorted sound.	●Check the connections. ❽ ㉗ ㉘ ●Check the volume on the equipment you have connected. ●Ensure that the input settings for the television and stereo system are correct. ●If you have connected this unit to an amplifier through the AUDIO OUT terminals, go to the Audio menu in the SETUP screen, and change "Speaker Setting" to suit your speakers. Select "Yes" for all the speakers you have connected. ㉔ **DVD-RV41** ●Turn Advanced Surround off if it causes distortion. ⓮ ●Sound will only come from the 2 front speakers if Advanced Surround is on. Turn Advanced Surround off if you are using three or more speakers. ⓮
Piercing noise comes from the speakers.	●If you have connected this unit to other equipment through the DIGITAL AUDIO OUT terminal, ensure you have selected the correct settings for "Dolby Digital", "DTS Digital Surround" and "MPEG"* in the SETUP screen's Audio menu. ㉕ *Only DVD-RV41 for all regions and DVD-RV31 for the United Kingdom, Continental Europe, Australia and N.Z.

Picture

Picture distorted during search.	●The picture will be somewhat distorted at times. This is normal.
No picture.	●Ensure that the equipment is connected properly. ❽ ●Make sure the television is on. ●Ensure the television's video input setting (e.g., VIDEO 1) is correct.
The picture shown on the television is not normal. (The sides of the picture are cut off or black bands appear at the top and bottom of the screen.)	●Go to the Video menu in the SETUP screen, and change "TV Aspect" to suit your television. You may also need to change the screen mode on the television itself. ❾ ●Ensure that the unit is connected directly to the television, and is not connected through a video cassette recorder.

Displays

"NO PLAY" appears on the unit's display.	●You inserted a disc the unit cannot play; insert one it can. ❺
No on-screen display.	●Go to the Display menu in the SETUP screen, and select "On" for "On-Screen Messages". ㉒
GUI screens not displayed or only partially displayed on the television.	●Press [▲,▼] while the rightmost icon is highlighted to move them down. ⑱
The disc's menu is displayed in a different language.	●Go to the Disc menu in the SETUP screen, and select the preferred language for "Menus". ㉒
No menu play.	●Menus are only displayed if they are recorded on the disc.
"CHECK THE DISC" appears on the unit's display.	●Disc is dirty. Wipe the disc clean. ❻
"H□□" appears on the unit's display. □□ stands for a number.	●Trouble is likely to have occurred. The number following "H" depends on the status of the unit. Reset procedure: Press [⏻/I] to switch the unit to the standby mode and then back to ON. Alternatively, press [⏻/I] to switch the unit to the standby mode, disconnect the AC mains lead, and then reconnect it. ●If the service numbers fail to clear, note the service number and contact a qualified service person.
"NO DISC" appears on the unit's display.	●You haven't inserted a disc; insert one. ●You haven't inserted the disc correctly; insert it correctly.

Maintenance

To clean this unit, wipe with a soft, dry cloth.
If the surfaces are extremely dirty, use a soft cloth dampened with a soap and water solution or a weak detergent solution.
●Never use alcohol, paint thinner or benzine to clean this unit.
●Before using chemically treated cloth, read the instructions that came with the cloth carefully.

Reference

Specifications

Power supply:

For the United Kingdom, Continental Europe, Australia and N.Z.	
	AC 220–240 V, 50 Hz
For Asia	AC 110–240 V, 50/60 Hz

Power consumption: 14 W

Dimensions: 430 (W)×247 (D)×82 (H) mm (excluding protrusions)

Mass: 2.6 kg

Operating temperature range: +5 to +35 °C

Operating humidity range: 5–90 % RH (no condensation)

Discs played: DVD-Video
CD-Audio (CD-DA), Video CD
CD-R/CD-RW (CD-DA, Video CD formatted discs)

Signal system: PAL 625/50, PAL 525/60, NTSC

Video output:
Output level: 1 Vp-p (75 Ω)
Output connector:

For the United Kingdom and Continental Europe	
	Pin jack (1 system)/
	AV1/AV2 DVD-RV41
	AV DVD-RV31
For Australia, N.Z. and Asia	Pin jack (1 system)

S video output:
Y output level: 1 Vp-p (75 Ω)
C output level: NTSC; 0.286 Vp-p (75 Ω)
PAL; 0.300 Vp-p (75 Ω)
Output connector:

For the United Kingdom and Continental Europe	
	S terminal (1 system)/
	AV1 DVD-RV41
	AV DVD-RV31
For Australia, N.Z. and Asia	S terminal (1 system)

Component video output: For Australia, N.Z. and Asia
Y output level: 1 Vp-p (75 Ω)
PB output level: 0.7 Vp-p (75 Ω)
PR output level: 0.7 Vp-p (75 Ω)
Output connector: Pin jack
(Y: green, PB: blue, PR: red)
Number of connectors: 1 system

RGB video output:

DVD-RV41 for the United Kingdom and Continental Europe
R output level: 0.7 Vp-p (75 Ω)
G output level: 0.7 Vp-p (75 Ω)
B output level: 0.7 Vp-p (75 Ω)
Output connector: AV1
Number of connectors: 1 system

Audio output:
Output level: 2 Vrms (1 kHz, 0 dB)
Output connector:

For the United Kingdom and Continental Europe	
	Pin jack/
	AV1/AV2 DVD-RV41
	AV DVD-RV31
For Australia, N.Z. and Asia	Pin jack

Number of connectors:
2ch: 1 system
5ch discrete output (5.1ch): 1 system DVD-RV41
Subwoofer output (0.1ch): 1 system DVD-RV31

Audio signal output characteristics:
(1) Frequency response:
●DVD (linear audio): 4 Hz–22 kHz (48 kHz sampling)
4 Hz–44 kHz (96 kHz sampling)
●CD audio: 4 Hz–20 kHz
(2) S/N ratio:
●CD audio: 115 dB
(3) Dynamic range:
●DVD (linear audio): 102 dB
●CD audio: 98 dB
(4) Total harmonic distortion:
●CD audio: 0.0025 %

Digital audio output:
Optical digital output: Optical terminal
Pickup: Wave length: 658 nm/790 nm
Laser power: CLASS 2a/CLASS 1

NORSK
Pickup: Bølgelengde: 658 nm/790 nm
Laser-styrke: Ingen farlig stråling sendes ut
KLASSE 2a/KLASSE 1

Power consumption in standby mode:	
For the United Kingdom and Continental Europe	approx. 4 W
For Australia and N.Z.	approx. 3 W
For Asia	approx. 3.5 W

Note
Specifications are subject to change without notice.
Mass and dimensions are approximate.

(En)

RQT5869-B
F0201MF0

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Instruction manuals and user guides