

Panasonic

DVD/Video CD/CD Player

DVD-A160A

Operating Instructions



Before attempting to connect, operate or adjust this player, please read these instructions completely. Please save this manual.

VQT8075

Safety information

Note:

This player can be used only where the power supply is AC 220–240 V, 50 Hz. It cannot be used elsewhere.

CAUTION:

DVD/VIDEO CD/CD PLAYER IS A CLASS 1 LASER PRODUCT. HOWEVER THIS DVD/VIDEO CD/CD PLAYER USES A VISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE DVD/VIDEO CD/CD PLAYER CORRECTLY AS INSTRUCTED.

WHEN THIS DVD/VIDEO CD/CD PLAYER IS PLUGGED TO THE WALL OUTLET, DO NOT PLACE YOUR EYES CLOSE TO THE OPENING OF THE DISC TRAY AND OTHER OPENINGS TO LOOK INTO THE INSIDE OF THIS PLAYER.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

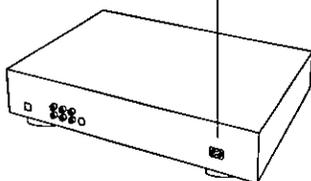
DO NOT OPEN COVERS AND DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:

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

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE THE RECOMMENDED ACCESSORIES ONLY.

THIS PLAYER IS INTENDED FOR CONTINUOUS OPERATION!



(Back of player)

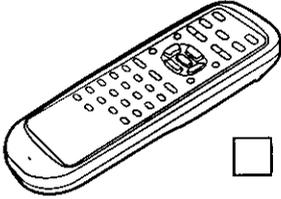
CAUTION	-LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM.
ATTENTION	-RAYONNEMENT LASER EN CAS D'OUVERTURE. NE PAS REGARDER DANS LE FAISCEAU.
VORSICHT	-LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT IN DEN STRAHL BLICKEN.
ADVARSEL	-LASERSTRÅLING VED ÅBNING. SE IKKE IND I STRÅLEN.
ADVARSEL	-LASERSTRÅLING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

(Inside of player)

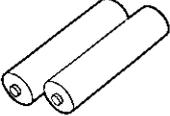
DVD-A160A Contents

Precautions

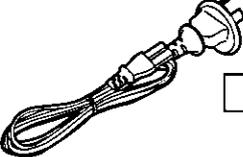
Please check and identify the supplied accessories.



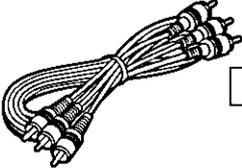
Remote control unit 1
(Part No. VEQ2247)



Batteries 2
for remote control unit
[size "AA"(R6P)]



AC mains lead 1
(Part No. VJA0754)



Video/audio cable 1
(Part No. VJA1062)

Operating Instructions manual 1

Warranty card 1

Optional Warranty ... 1

Please read these precautions before operating this player.

■ AC mains lead protection

To avoid any malfunctions of the player, and to protect against electric shock, fire or personal injury, please observe the following:

- Hold the plug firmly when connecting or disconnecting the AC mains lead to this player.
- Do not connect or disconnect the AC mains lead when your hands are wet.
- Keep the AC mains lead away from heating appliances.
- Never put any heavy object on the AC mains lead.
- Do not attempt to repair or reconstruct the AC mains lead in any way.
- Remove dust, dirt, etc. on the plug at regular intervals.
- If the player has been dropped or otherwise damaged, set the player to the standby mode and disconnect the AC mains lead.
- If smoke, malodors or noises are emitted from the player, set the player to the standby mode and disconnect the AC mains lead.

■ Placement

Avoid placing the player in areas of:

- direct sunlight or heating radiators, or closed automobiles
- high temperature (over 35°C) or high humidity (over 90%)
- excessive dust
- vibration, impact or where the surface is tilted as the internal parts may be seriously damaged.

■ Non-use periods

When the player is not being used, set the player to the standby mode.

When left unused for a long period of time, the player should be unplugged from the AC mains supply.

■ No fingers or other objects inside

- Touching internal parts of this player is dangerous, and may cause serious damage to the player. Do not attempt to disassemble the player.
- Do not put any foreign object on the disc tray.

■ Keep away from water and magnets.

- Keep the player away from flower vases, tubs, sinks, etc. If liquids are spilled into the player, serious damage could occur.
- Keep magnetic objects such as speakers, at a distance from the player.

■ Stacking

- Place the player in a horizontal position, and do not place anything heavy on it.
- Do not place the player on amplifiers or other equipment which may become hot.

■ Condensation

Moisture may form on the lens in the following conditions...

- immediately after a heater has been turned on.
- in a steamy or very humid room.
- when the player is moved from a cold environment to a warm one.

If moisture forms inside this player, it may not operate properly. In this case, turn on the power and wait about one hour for the moisture to evaporate.

■ If there is noise interference on the TV while a broadcast is being received

Depending on the reception condition of the TV, interference may appear on the TV screen while you are watching a TV broadcast and the player is left on. This is not a malfunction of the player or the TV. To watch a TV broadcast, set the player to the standby mode.

Dear Customers

May we take this opportunity to thank you for purchasing this Panasonic DVD/Video CD/CD player. We strongly recommend that you carefully study the Operating Instructions before attempting to operate the player and that you note the listed precautions.

Features

■ High picture quality

●10 bit video D/A converter

With its 10 bit capability, this D/A converter reproduces fine images faithfully.

■ High sound quality

●96 kHz/24 bit audio D/A converter

This player enables 96 kHz/24 bit linear PCM signals, which constitute the highest specifications in the DVD standards, to be reproduced faithfully. To support 96 kHz sampling/24 bit sound, the shaping noise of this multi-level digital sigma type of D/A converter is kept flat up to 44 kHz, thus preventing the important audio signals from being affected in any way. In terms of the bottom line, the sound in all of its various modes is reproduced faithfully.

●dts (digital theater systems) digital output (See page 11.)

By connecting a dts (digital theater systems) decoder or an amplifier incorporating a dts decoder, you can enjoy high quality digital surround sound from dts discs.

■ Advanced Virtual Surround Sound (VSS) function (See page 28.)

Even when just two front speakers are being used, the user can simply press the VSS (Virtual Surround Sound) button during playback of a Dolby Digital DVD (2 channel and above) to provide a rear surround effect. (This does not work with DVD Karaoke discs. In addition, this effect may differ depending on the kind of DVD used.)

■ Compatible with PAL DVD (Video CD) and NTSC DVD (Video CD)

This player can play discs recorded in either PAL or NTSC format.

However, the player must be connected to a PAL TV which is capable of receiving PAL 525/60 system or to a Multi-system TV to play both PAL DVD (Video CD) and NTSC DVD (Video CD).

■ Graphical User Interface (GUI) screen (See page 18.)

By simply pressing the DISPLAY button on the remote control, information on the DVD/Video CD/CD player and disc can be displayed on the TV screen for easy identification. The player's operations and settings can be easily accessed by operating the cursor buttons on the remote control while monitoring the TV screen. The colour and position of the GUI screen can be changed.

■ Dialogue Enhancer (See page 15.)

During playback of Dolby Digital/5.1 channel software, this function will boost the sound level of the center channel so that it is easier to hear the dialogue on movie software.

■ Versatile DVD features

●Multi-audio function (See page 26.)

The audio soundtrack can be heard in up to 8 languages. (The number of audio sound languages depends on the software.)

●Multi-subtitle function (See page 27.)

Subtitles may be displayed in one of a maximum of 32 languages. (The number of the subtitle languages depends on the software.)

●Multi-angle function (See page 27.)

This function allows you to choose the viewing angle of scenes which were shot from a number of different angles. (Limited to DVD recorded with multiple camera angles.)

●Parental lock function (See page 31.)

This function can prevent playback of DVD software unsuitable for some audiences (especially for children).

■ Marker function (See page 23.)

This player can store a maximum of 5 positions in memory, for convenient access, as desired.

■ Disc formats supported by this player

The player can play back discs bearing any of the following marks:



DVD

[8 cm disc/
12 cm disc]



Video CD

[8 cm disc/
12 cm disc]



CD

[8 cm disc/
12 cm disc]

■ Discs which cannot be played with this player

●DVD with Region No. other than "4" or "ALL"

●DVD-ROM

●CD-G

●DVD-R/DVD-RAM

●CD-RW

●CD-ROM

●DVD+RW

●VSD

●CVD

●CDV

●SVCD

etc.

●Do not try to play Photo CD or CD-R.

(Otherwise, data on the disc may be damaged.)

■ Region Management Information

This player is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. The Region number of this player is "4". If the Region number described on the DVD disc does not correspond to the Region number of this player, this player cannot play this disc. This player will play DVD discs made for "ALL" Regions. This player will play DVD discs marked with the following symbols:



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Initial Settings:

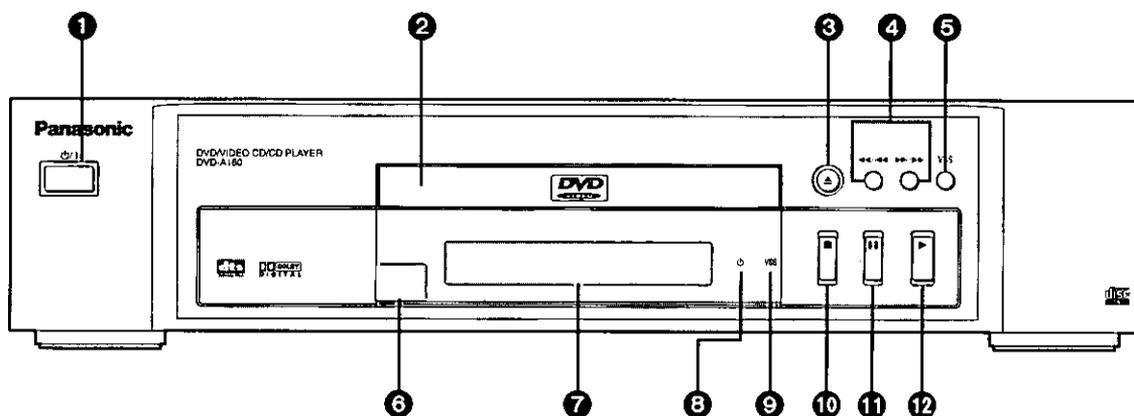
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Control reference guide

Main unit



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Press to switch the player from on to standby mode or vice versa. In standby mode, the player is still consuming a small amount of power.	
2 Disc tray	14
3 OPEN/CLOSE button (▲)	14
4 SKIP/SEARCH buttons (◀◀/▶▶)	15, 16, 17
5 VSS (Virtual Surround Sound) button	28
6 Remote control signal sensor	12

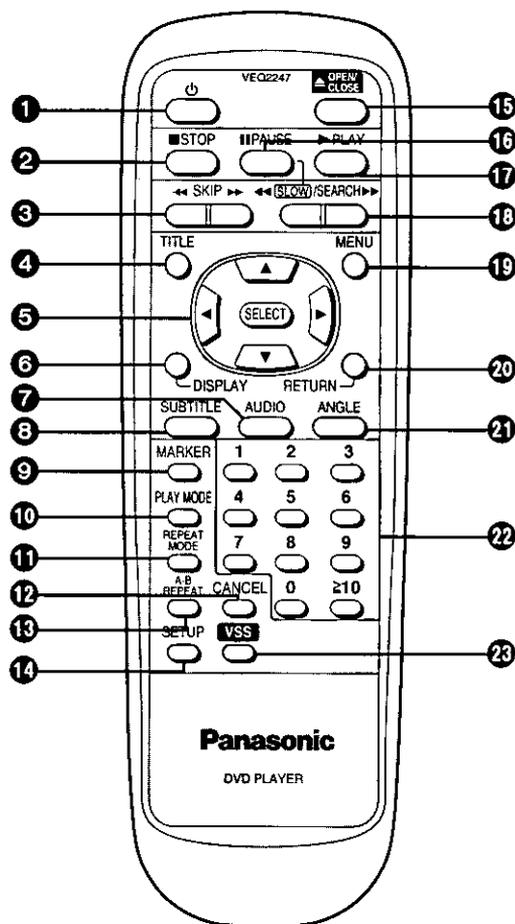
Page

7 FL Display	7
8 STANDBY indicator (⏻)	
When the player is connected to the AC mains supply, this indicator lights up in standby mode and goes out when the player is turned on.	
9 VSS indicator	28
10 STOP button (■)	15
11 PAUSE button (⏸)	16
12 PLAY button (▶)	14

Remote control unit

Page

1 POWER button (⏻)	14
2 STOP button (■)	15
3 SKIP buttons (◀◀, ▶▶)	15, 16
4 TITLE button	15, 29
5 Cursor buttons (▲, ▼, ◀, ▶)/SELECT button	15
6 DISPLAY button	18
7 AUDIO button	26
8 SUBTITLE button	27
9 MARKER button	23
10 PLAY MODE button	24, 25
11 REPEAT MODE button	22
12 CANCEL button	18, 23, 25, 31
13 A-B REPEAT button	23
14 SETUP button	30
15 OPEN/CLOSE button (▲)	14
16 PAUSE button (⏸)	16
17 PLAY button (▶)	14
18 SLOW/SEARCH buttons (◀◀, ▶▶)	17
19 MENU button	15, 17, 29
20 RETURN button	15, 18, 30
21 ANGLE button	27
22 Numeric buttons	15
•To select a 2-digit number Example: To select track 23 Press "≥10", "2" and then "3".	
23 VSS (Virtual Surround Sound) button	28

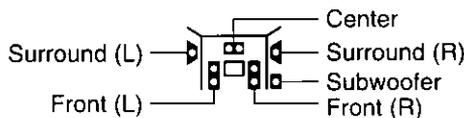


Front panel FL display

- ①  Rotates during play.
Rotates fast clockwise or counterclockwise during rapid advance (reverse). (See page 17.)
Rotates slowly clockwise or counterclockwise during slow-motion play.
[DVD/Video CD] (See page 17.)



- ② Illuminates during playback.
Flashes when the RESUME function is ON.
(See page 15.)
- ③ Illuminates during repeat play. (See page 22.)
- ④ Illuminates in the still picture (pause) mode.
(See page 16.)
- ⑤ Indicates the title/chapter number. [DVD]
Indicates the track number. [Video CD/CD]
- ⑥ Indicates the elapsed playing time from the start of the title/track during play.
- ⑦ Indicates the audio channel information recorded in the disc being played back (e.g. 2ch or 5.1ch).



- ⑧ Illuminates when a DVD is loaded.
- ⑨ Illuminates when it is possible to switch the angle.
[DVD] (See page 27.)
- ⑩ Illuminates during program play. [Video CD/CD]
(See page 24.)
- ⑪ Illuminates when Linear PCM of 96 kHz sampling is being played.
- ⑫ Illuminates when Linear PCM of 24 bit is being played.
- ⑬ Illuminates when the disc tray is open.
- ⑭ Illuminates when the disc tray is being closed (retracted).
- ⑮ Illuminates during play of a DVD.
- ⑯ Illuminates during play of an interactive DVD.*
- ⑰ Illuminates during play of a Karaoke DVD.
- ⑱ Illuminates during play of an interactive Karaoke DVD.*
- ⑲ Illuminates during play of a Video CD.
- ⑳ Illuminates during play of a Video CD with playback control.
- ㉑ Illuminates during play of a CD.
- ㉒ Illuminates when the track number is selected to be stored in the memory (program play). [Video CD/CD]
(See page 25.)
- ㉓ Illuminates when playback is impossible.
 - DVD for which playback is prohibited by the initial settings "2 Ratings". (See page 31.)
 - DVD with Region No. other than "4" or "ALL".
(See page 4.)
- ㉔ Illuminates when no disc is loaded.

*An interactive DVD is DVD software which includes multiple angles, multiple plot endings, etc.

1 2 3 4 5 6 7

8 9 10 11 12

13 OPEN

14 CLOSE

15 DVD c25 1:23:45

16 DVD PLAY

17 DVD T 13 0:17:45

18 DVD T 13 PLAY

19 VCD 5 3:45

20 VCD PBC

21 CD 5 3:45

22 CD 5 P: 3 PROG.

23 NO PLAY

24 NO DISC

Basic connection

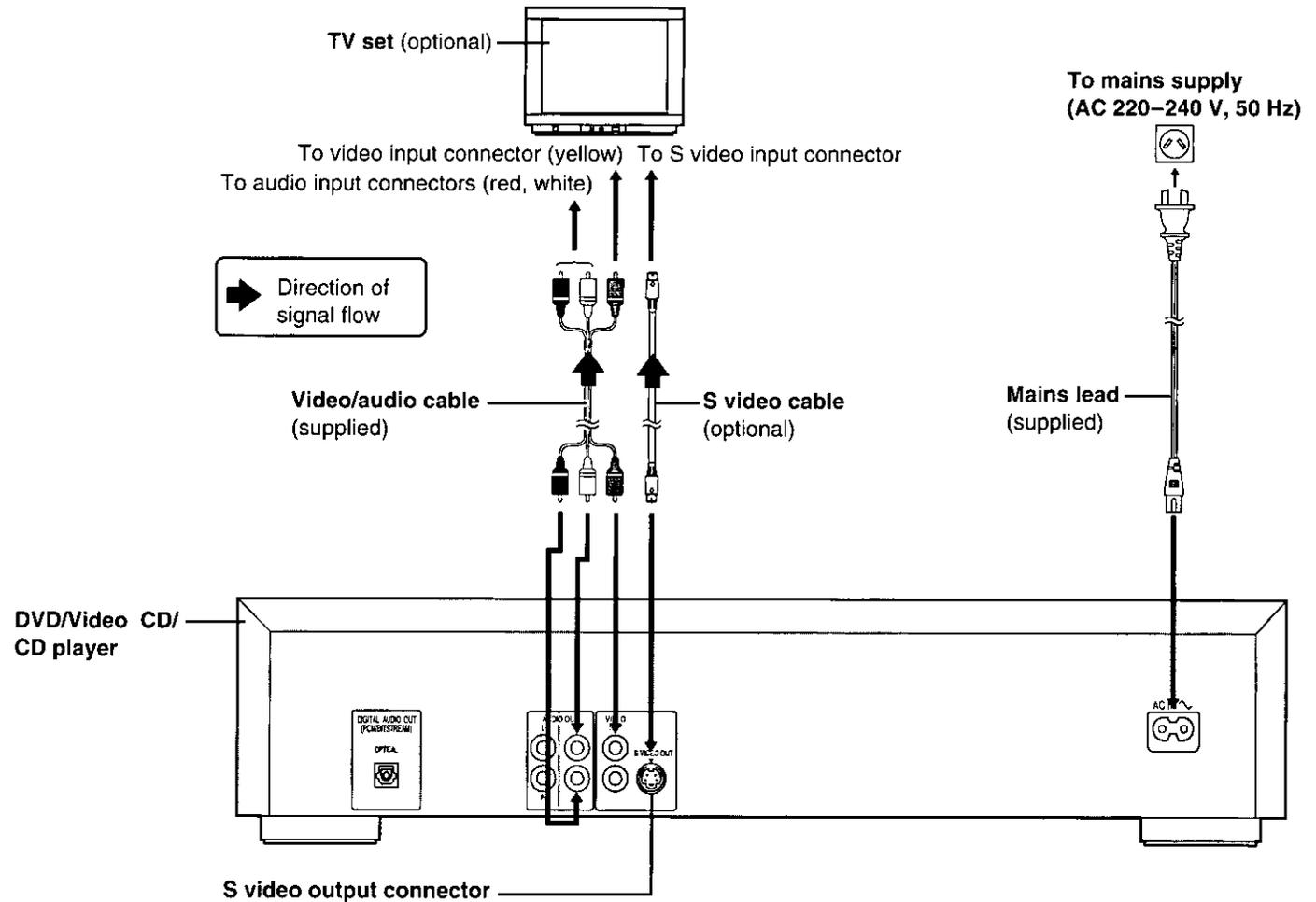
- Ensure that this player and other equipment to be connected are set to the standby mode or off and disconnect the AC mains lead before commencing connection.
- Do not block ventilation holes of any of the equipment and arrange them so that air can circulate freely.
- Read through the instructions before connecting other equipment.
- Ensure that you observe the colour coding when connecting audio and video cables.
- Select the appropriate screen type at the initial setting "6 TV Aspect" according to your TV set (4:3/16:9). (See page 35.)

Note:

- When playing some DVD discs, TV volume level may be lower than from some other sources, adjust the TV volume to your desired level.

Connect Your DVD/Video CD/CD Player Directly To Your TV Set.
If the DVD/Video CD/CD player is connected to the TV through a video cassette recorder, the picture may not be played back normally with some DVDs. So we strongly recommend you not to connect the DVD/Video CD/CD player to your video cassette recorder when setting up your home entertainment system.
• To view pictures from the video cassette recorder, set the player to the standby mode.

Connecting to a stereo TV set

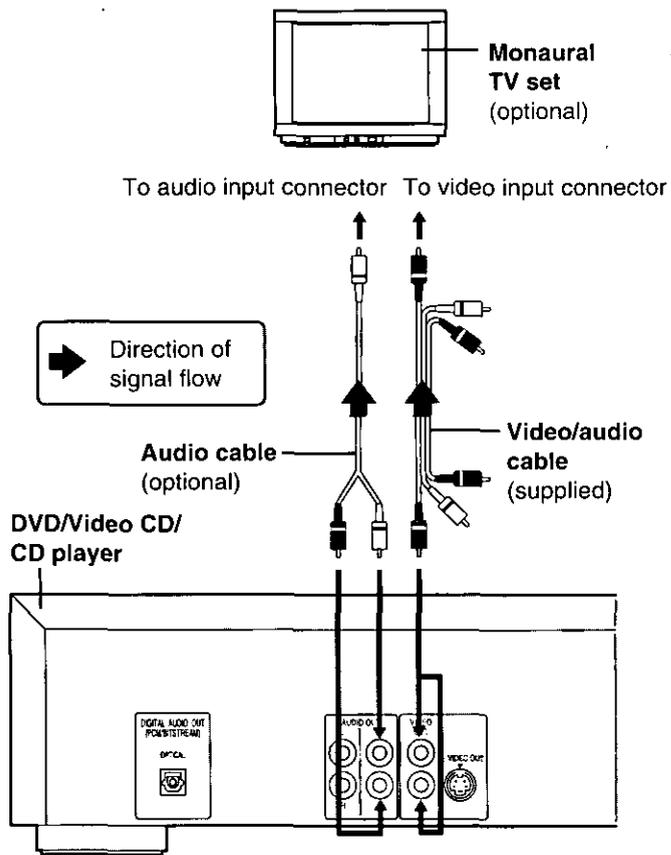


S video output connector
The S (separate) video output connector separates the colour (C) and luminance (Y) signals before transmitting them to the TV set in order to achieve a sharper picture.
Use the S video cable (optional) when connecting the player to a TV set equipped with an S video input connector for the best picture clarity possible.

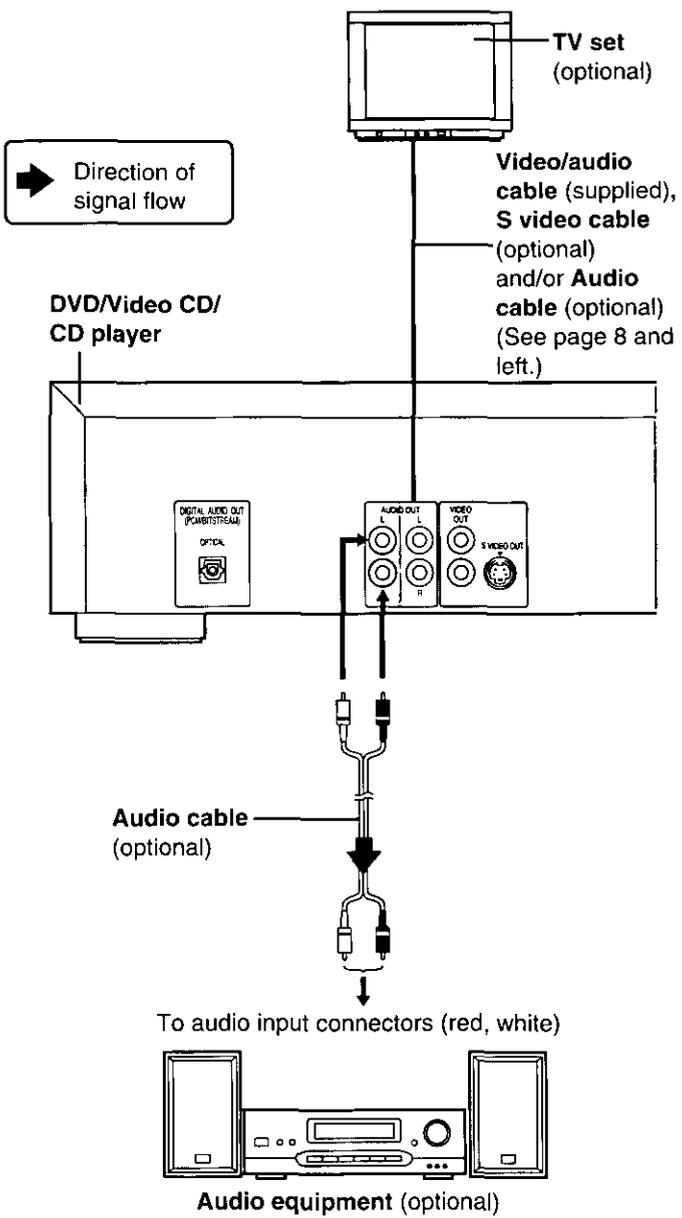
Do not place the player on amplifiers or other equipment which may become hot.

Optional audio connections

Connecting to a monaural TV set



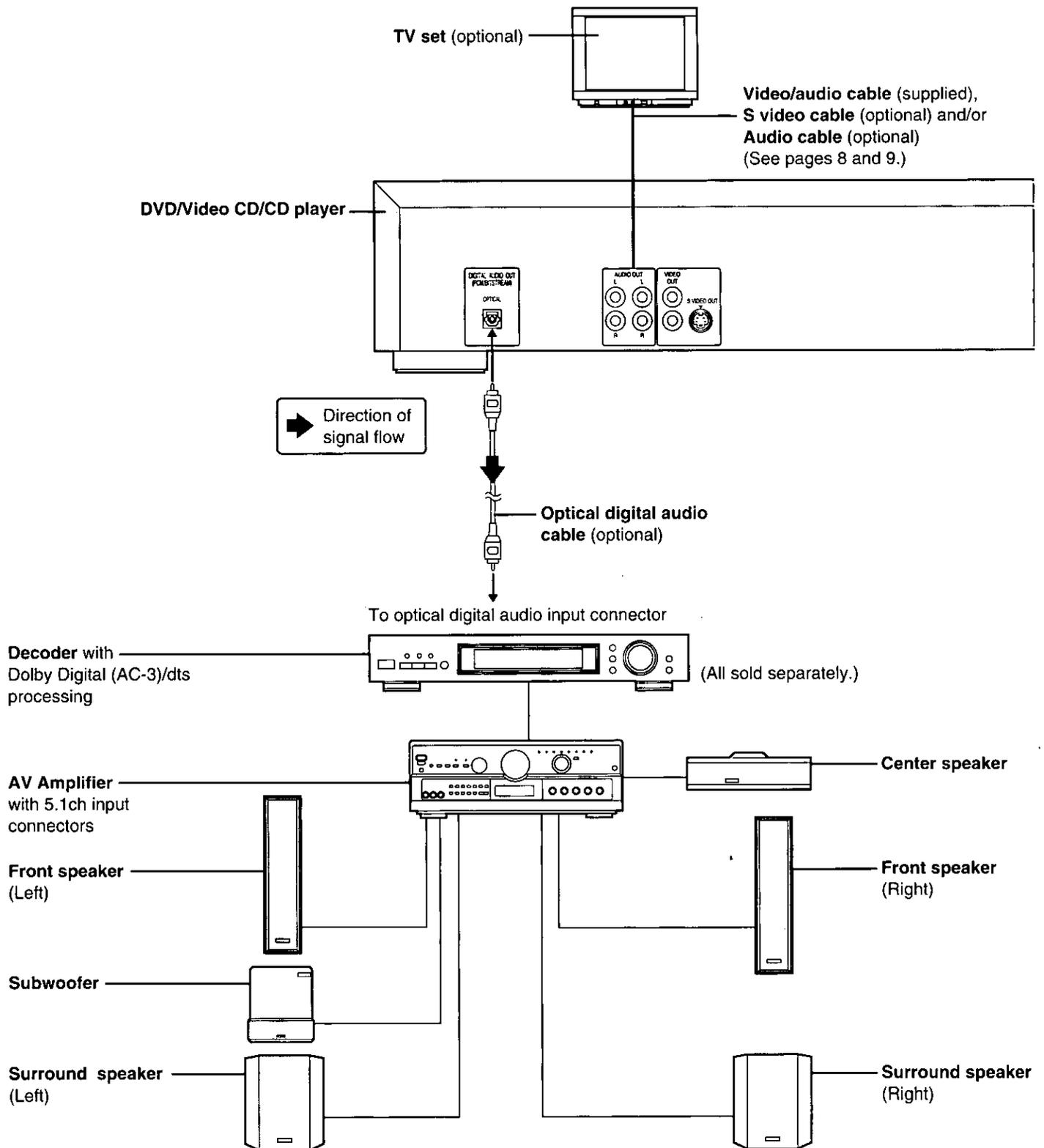
Connecting to audio equipment

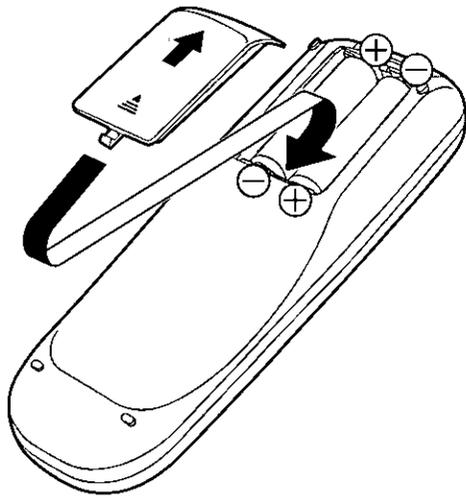
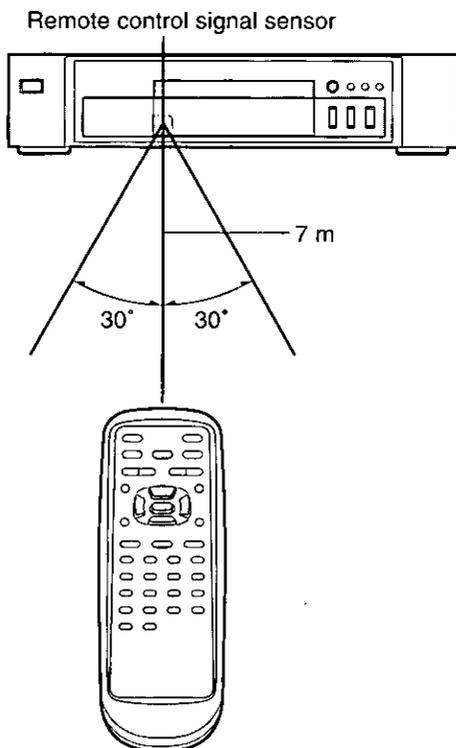


Connecting to a decoder with Dolby Digital (AC-3) or dts (digital theater systems) processing

When DVDs recorded in Dolby Digital or dts are played, Dolby Digital bitstream or dts bitstream is output from the player's OPTICAL digital audio output connector. When the player is connected to a Dolby Digital decoder or dts decoder, you can enjoy theater-quality audio in your home. [An optical digital audio cable (optional) is required when an optional Dolby Digital decoder or dts decoder is used.]

- An MPEG audio decoder can also be connected to the player using the connection below. When DVDs recorded in MPEG audio are played, MPEG audio bitstream is output from the player's OPTICAL digital audio output connector and you can enjoy theater-quality audio in your home.



A**B**

Remote control unit preparation

Battery installation **A**

Insert the batteries while observing the correct (+) and (-) polarities as illustrated at left.

Service life of batteries

- The batteries normally last for about one year although this depends on how often, and for what operations, the remote control unit is used.
- If the remote control unit fails to work, even when it is operated near the player, replace the batteries.
- Use size "AA" (R6P) batteries.

Notes:

- Do not use rechargeable (Ni-Cd) batteries.
- Do not attempt to recharge, short-circuit, disassemble, heat or throw the batteries into a fire.
- Do not drop, step on or otherwise impact the remote control unit. This may damage the parts or lead to malfunction.
- Do not mix old and new batteries.
- If the remote control unit is not going to be used for a long time, remove the batteries. Otherwise, electrolyte may leak which may lead, not only to malfunctioning but also, to burns if contact is made with the electrolyte.
- Wipe away any electrolyte leaking inside the remote control unit, and install new batteries.
- If any electrolyte should come into contact with parts of your body, wash it off thoroughly with water.

Remote control operation range **B**

Point the remote control unit from no more than about 7 m from the remote control sensor and within about 60° of the front of the player.

- The operating distance may vary according to the brightness of the room.

Notes:

- Do not point bright lights at the remote control sensor.
- Do not place objects between the remote control unit and the remote control sensor.
- Do not use this remote control unit while simultaneously operating the remote control unit of any other equipment.

Definition of terms

Angle

Recorded onto some DVD discs are scenes which have been simultaneously shot from a number of different angles (the same scene is shot from the front, from the left side, from the right side, etc.). With such discs, the ANGLE button can be used to view the scene from different angles.

Chapter number

These numbers are recorded on DVD discs. A title is subdivided into many sections, each of which is numbered, and specific parts of video presentations can be searched quickly using these numbers.

Digital audio output connector (Optical)

The digital audio output connector (optical) converts electrical signals into optical signals and transfers them to the amplifier. Consequently, it has a number of features including its immunity from electrical interference from external sources and its ability to prevent the generation of noise and its minimal effect on the external environment.

DVD

This refers to a high-density optical disc on which high-quality pictures and sound have been recorded by means of digital signals. Incorporating a new video compression technology (MPEG 2) and high-density recording technology, DVD enables esthetically pleasing full-motion video to be recorded over long periods of time (for instance, a whole movie can be recorded).

DVD has a structure consisting of two 0.6 mm thin discs which are adhered to each other. Since the thinner the disc, the higher the density at which the information can be recorded, a DVD disc has a greater capacity than a single 1.2 mm thick disc. Since the two thin discs are adhered to each other, there is the potential to achieve double-sided play sometime in the future for even longer duration of play.

Field

Half of the video information (video signal) in a frame is called a field. With conventional TV systems, a signal frame (a single screen) consists of two fields.

Field still

Only one field (half of the video information) is displayed on the TV screen, so the apparent resolution is low. However, there is no blurring on the screen.

Frame

Individual images in a video or on the TV are called frames.

Frame still

The two fields are displayed, alternately, on the TV screen, so the image is blurry. However, the image quality is better than field images.

Playback control

This is recorded on a Video CD (version 2.0). The scenes or information to be viewed (or listened to) can be selected interactively with the TV monitor by looking at the menu shown on the TV monitor.

Subtitles

This is the appearance of the dialogue at the bottom of the screen which are prerecorded on some DVD discs.

Time number

This indicates the play time which has elapsed from the start of a disc or a title. It can be used to find a specific scene quickly. (It may not work with some discs.)

Title number

These numbers are recorded on DVD discs. When a disc contains two or more movies, these movies are numbered as title 1, title 2, etc.

Track number

These numbers are assigned to the tracks which are recorded on Video CDs and CDs. They enable specific tracks to be located quickly.

Video CD

This contains recordings of pictures and sound whose quality is on a par with that of videotape. This player also supports Video CDs with playback control (version 2.0).

Basic play

Before enjoying DVD/Video CD/CD

The On-Screen menu language of your player has been factory preset to English.

If you would like to change the menu language to French, German, Italian or Spanish, please refer to "Selecting language of On-Screen Display menu" on page 33.

In the explanations given below it is assumed that English has been selected as the menu language.

Preparations

- Confirm that the TV set or the audio equipment (if connected) is properly connected to the player.
- Confirm that the power for the TV set or the audio equipment (if connected) is turned on.
- Confirm that the input setting for the TV set or the audio equipments (if connected) is properly selected.
(Example: Select "VCR 2" on the TV set if this player has been connected to TV input connector [2].)

Basic play

1 Press **POWER** to switch on the power.

2 Press **OPEN/CLOSE** to open the disc tray.

Open

3 Place the disc on the disc tray with the label side to be played facing upwards.

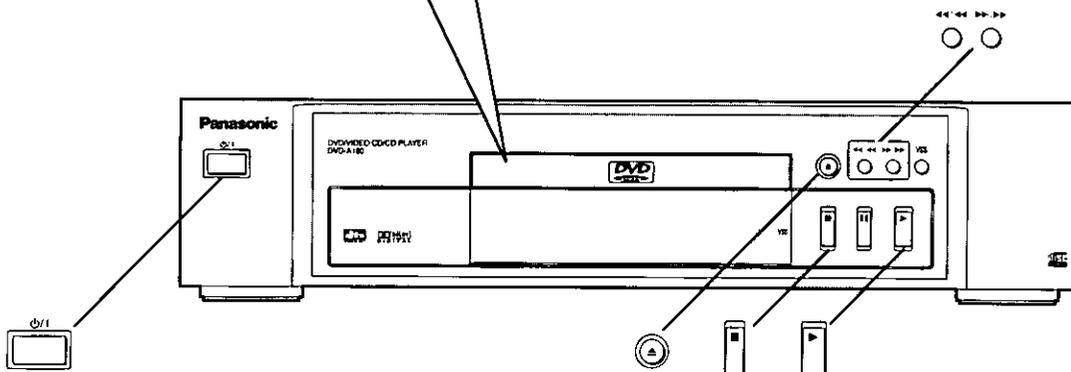
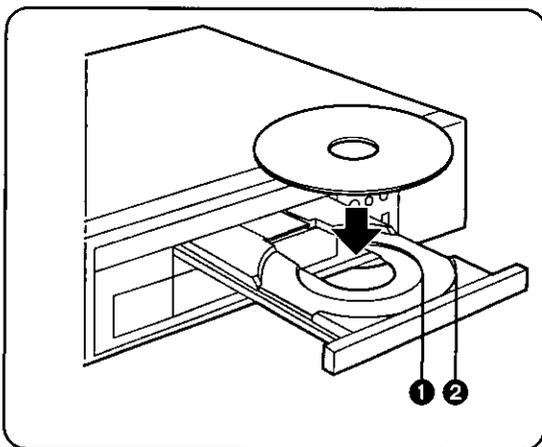
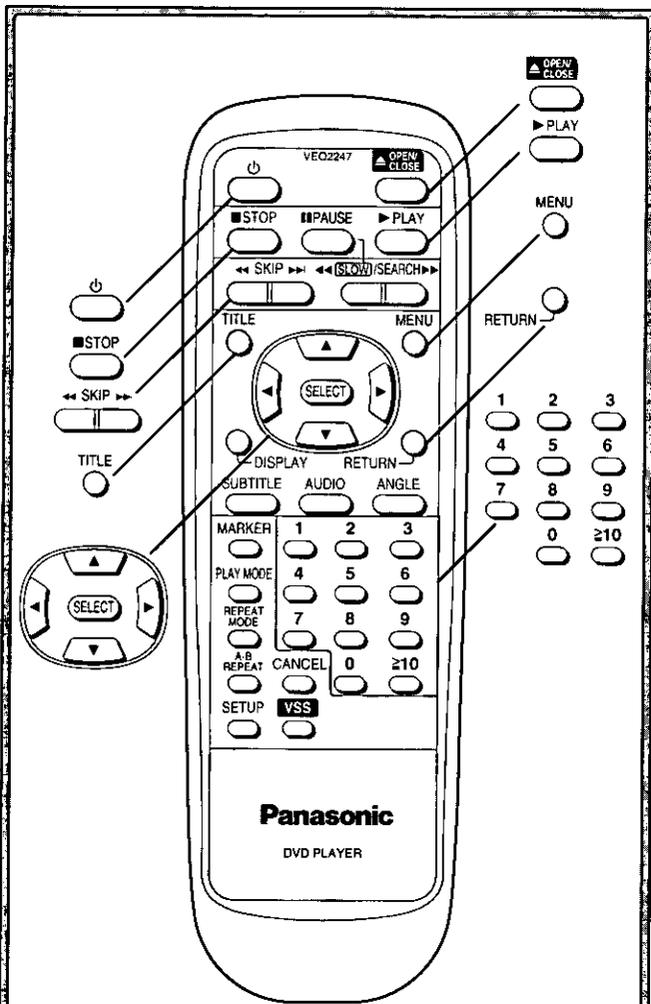
Hold the disc without touching either of its surfaces, position it with the label side to be played facing upwards, align it with the guides, and place it in its proper position.

- ① 8 cm disc
- ② 12 cm disc

4 Press **PLAY**.

Close

Reading

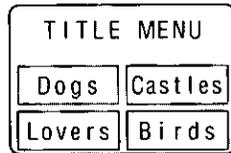


The disc tray is automatically closed and play begins.

- When the disc tray is closed by pressing OPEN/CLOSE, press PLAY to start play.

- When a menu screen appears on the TV monitor

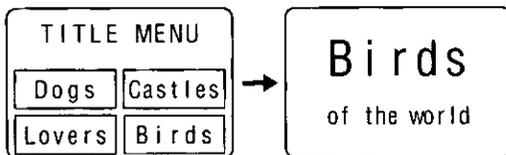
In case of an interactive DVD or video CD with playback control, a menu screen appears on the TV monitor. Perform step 5 to start play.



(Example of DVD)

5 Press the cursor buttons (▲, ▼, ◀, ▶) and press SELECT, or press the numeric buttons, to select the preferred item.

- The cursor buttons (▲, ▼, ◀, ▶) are not effective for selecting items for Video CDs.



Play of the selected item now begins.

(Example)

While watching the movie program

- Raising the volume but only for the dialogue

The volume for the dialogue only can be raised by displaying the GUI screen (for player information) and setting "Dialogue Enhancer" to "ON". (See page 21.)

[This setting takes effect only for discs which are recorded with Dolby Digital (AC-3) 5.1ch and with the sound contained in the center channel.]

When the menu continues onto another screen

After step 4 on page 14, press SKIP (▶▶) [in case of the main unit, SKIP/SEARCH (▶▶/▶▶)].

- To return to the previous menu screen

Press SKIP (◀◀) [in case of the main unit, SKIP/SEARCH (◀◀/◀◀)].

- Due to the design of some software titles, SKIP (◀◀, ▶▶) [in case of the main unit, SKIP/SEARCH (◀◀/◀◀, ▶▶/▶▶)] may not always work. For operation, refer also to the jacket of the disc concerned.

Stopping play and returning to the menu screen

Press TITLE, MENU or RETURN (for DVD), or RETURN (for Video CD).

Play is suspended, and the menu screen is displayed.

- The buttons may not work depending on the disc used.

After operation

When the player is not in use, remove the disc and press POWER to set the player to the standby mode.

The player is automatically set to the standby mode after 30 minutes or so have elapsed in the stop mode.

(Auto power-off function)

What is playback control?

If a Video CD has "playback control" written on its disc or jacket, it means that particular scenes or information can be selected for viewing interactively with the TV monitor using the menu screen.

Notes:

- The disc continues to rotate while the menu is displayed even after the player has finished playing a particular item. When no further selections are to be played, be sure to press STOP to clear the menu display.

- If the disc is placed in upside down (and it is a single sided disc), the FL display will indicate "NO PLAY".

- When the NTSC DVD/Video CD is played, the playback picture may roll up or down on some TVs; adjust this using the V-HOLD control on the TV. TVs not equipped with a V-HOLD control cannot correct this condition. The playback picture may shrink vertically and black bars may appear both on the top and bottom of the screen, or the picture may be in black and white. This does not indicate a malfunction.

For your reference:

- When  appears on the TV monitor while a button is being operated, it means that the corresponding operation is prohibited by the player or the disc.

Stopping play

Press STOP during play.

RESUME function

The player records the point where STOP was pressed during play (**RESUME function**). ("▶" flashes on the player's FL display when this function is activated.)

- Press PLAY again while "▶" flashes, and play will resume from this point.

- When the tray is opened or STOP is pressed again while "▶" flashes, the RESUME function will be cleared.

The RESUME function works only with titles for which the elapsed playing time appears on the player's FL display during playback.

This feature will not be cleared when the player is set to the standby mode and then turned back ON.

Chapter review function (DVD only)

When PLAY is pressed while "▶" flashes, the message shown at right is displayed.

Press PLAY to Chapter Review

When PLAY is pressed again while the above message is displayed on the screen, the first few seconds of each chapter from the beginning of the title up to the point where operation was stopped will be played. This makes it possible to review previously viewed chapters. Normal playback will commence from the point where operation was stopped.

Notes:

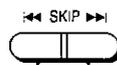
- Cancelling the RESUME function will also clear the chapter review function.

- The chapter review function may not work with some DVDs.

Skipping ahead or back

By the remote control unit

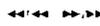
Press SKIP (◀◀, ▶▶) during play.



Reverse direction Forward direction

On the main unit

Press SKIP/SEARCH (◀◀/◀◀, ▶▶/▶▶) during play.



Reverse direction Forward direction

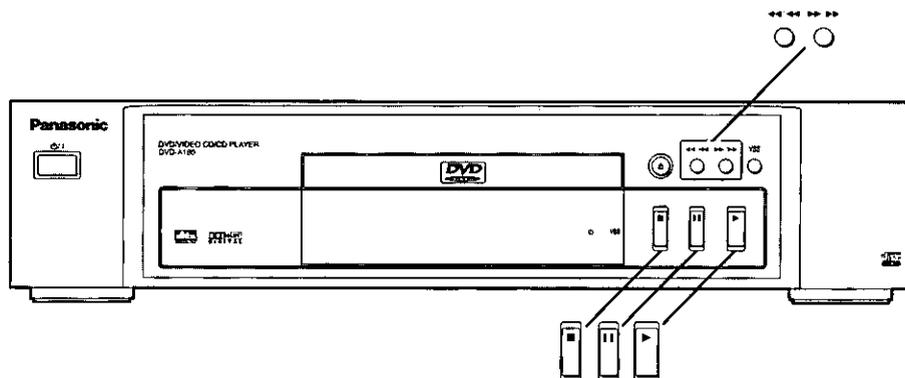
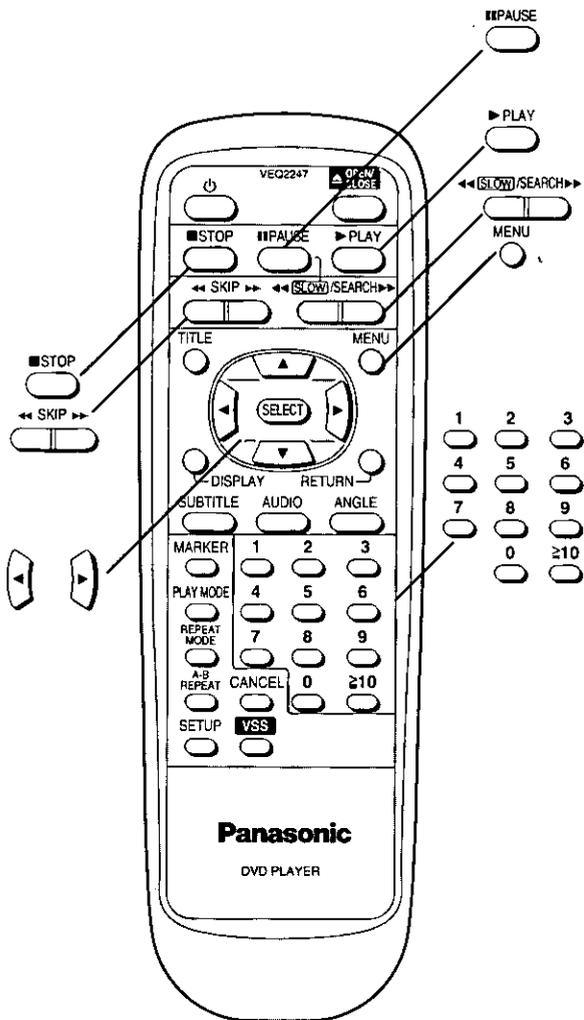
For your reference:

- A chapter (DVD) or a track (Video CD/CD) is skipped each time the button is pressed.
- When SKIP (◀◀) [in case of the main unit, SKIP/SEARCH (◀◀/◀◀)] is pressed once midway through a chapter/track, play returns to the start of that chapter/track. When it is pressed again, a chapter/track is skipped each time the button is pressed.
- When SKIP (▶▶) [in case of the main unit, SKIP/SEARCH (▶▶/▶▶)] is pressed during menu play of Video CDs with playback control, a menu screen may sometimes be recalled.

Still picture (Pause)

Press PAUSE during play.

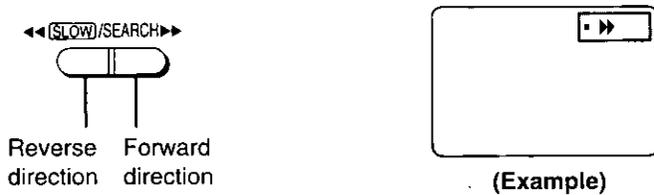
- DVD/Video CD: The player will be placed in the still picture mode.
- CD: The player will be placed in the pause mode.
- Normal play is resumed when PLAY is pressed.



Rapid advance (Rapid reverse)

By the remote control unit

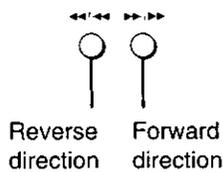
Press **SLOW/SEARCH** (◀◀, ▶▶) during play.



- The speed of advance (reverse) is relatively slow at first. When the button is pressed again, the speed becomes faster. (Each time the button is pressed, the speed increases up to 5 steps.)

On the main unit

Press and hold **SKIP/SEARCH** (◀◀/◀◀, ▶▶/▶▶) during play.



- The speed will be retained even after the button is released.

- Normal play is resumed when **PLAY** is pressed.

For your reference:

- When **SLOW/SEARCH** (◀◀, ▶▶) or **SKIP/SEARCH** (◀◀/◀◀, ▶▶/▶▶) is used during menu play of Video CDs with playback control, a menu screen may sometimes be recalled.
- Audio will be heard during scanning at the initial scan speed. (See page 37.)

Frame advance (Frame reverse) [DVD/Video CD]

Press the cursor buttons (◀, ▶) in the still picture mode. (See page 16.)

- ◀: Reverse direction
- ▶: Forward direction

- The disc is advanced (reversed) by one frame each time the cursor button (◀, ▶) is pressed.
- When the cursor button (◀, ▶) is kept pressed, consecutive frame advance (reverse) works.
- Normal play is resumed when **PLAY** is pressed.

Note:

- For Video CDs, frame reverse is not possible.

For your reference:

- Pressing **PAUSE** also activates frame advance.
- Whether the pictures are advanced by a "Frame" or "Field" is automatic. (See page 37.)

Slow-motion play [DVD/Video CD]

By the remote control unit

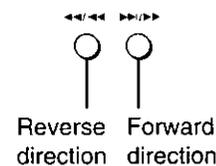
Press **SLOW/SEARCH** (◀◀, ▶▶) in the still picture mode. (See page 16.)



- The speed of slow-motion is slow at first. When the button is pressed again, the speed becomes faster. (Each time the button is pressed, the speed increases up to 5 steps.)

On the main unit

Press and hold **SKIP/SEARCH** (◀◀/◀◀, ▶▶/▶▶) in the still picture mode. (See page 16.)



- The speed will be retained even after the button is released.

- Normal play is resumed when **PLAY** is pressed.

Note:

- For Video CDs, slow-motion playback in reverse direction is not possible.

Enjoying Video CDs with playback control without using menus [Video CD]

1. Press **STOP** after the menu screen appears (after step 4 on page 14). ("PBC" will be cleared from the player's FL display.)
2. Press the numeric buttons to select the preferred track. (Play begins.)
 - Refer to the jacket etc. of the disc concerned for the track numbers.
 - Press "1" to start play from the beginning of the disc.

To return to menu play

Press **STOP** to stop playback and press **MENU**.

("PBC" will light up on the player's FL display and the menu screen is resumed.)

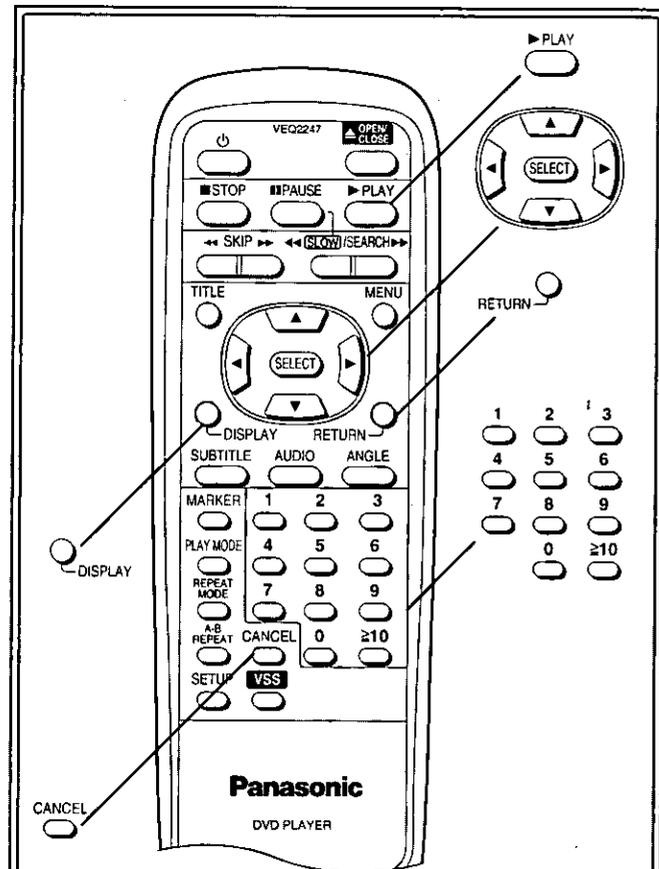
Perform step 5 on page 15.

General information about GUI screens

This player features GUI (Graphical User Interface) screens providing various functions. A "banner" will be displayed on the TV screen by pressing the DISPLAY button on the remote control.

Operating the cursor buttons/SELECT button on the remote control will show disc information (title/chapter/track number, elapsed playing time, audio/subtitle language, and angle) and player information (repeat play, play mode, marker, Virtual Surround Sound, etc.).

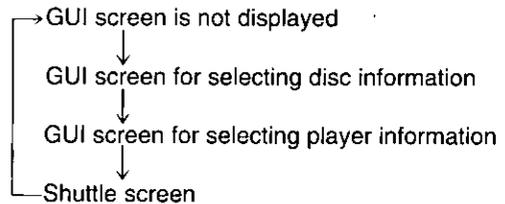
Some icons allow the settings to be changed.



Common procedures

1 Press DISPLAY during play or in the stop mode.

Each time this button is pressed, the TV monitor changes as shown below.



•Some functions cannot be accessed from the stop mode.

2 Press the cursor buttons (◀, ▶) to select the preferred item.

•The currently selected item is indicated by the yellow frame on the GUI screen.

3 Press the cursor buttons (▲, ▼) to select the preferred setting.

•For some functions, the setting will be registered immediately; for others, SELECT or PLAY must be pressed.

•When numbers are displayed (e.g. title No.), the numeric buttons (▲, ▼). When numbers are entered by the numeric buttons, press SELECT to register the setting.

Press RETURN or CANCEL to clear the GUI screen.

Examples of GUI screens

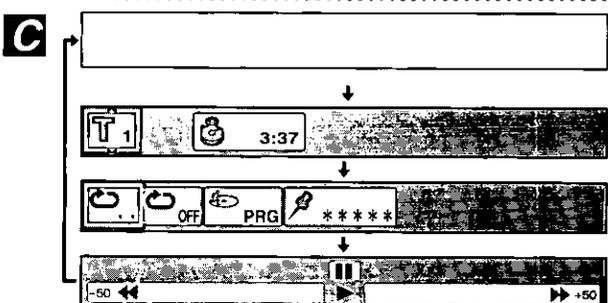
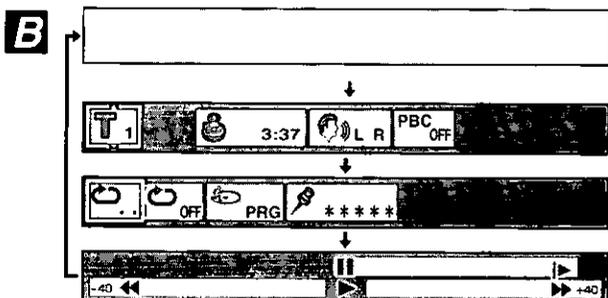
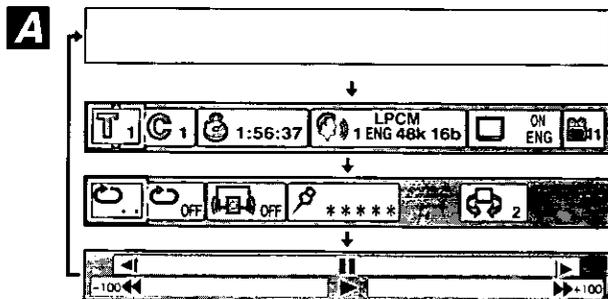
(See **A**, **B** and **C** for detailed illustration.)

(The screens may differ depending on the disc contents.)

- DVD (**A**)
- Video CD (**B**)
- CD (**C**)

For your reference:

- Depending on the type of DVD software and a TV with automatic picture zoom function enabled, the GUI screen may not be displayed or only partially displayed on the TV screen. In this case, change the position of the GUI screen in "4 On-Screen Messages" of the initial settings. (See page 33.)
- The colour (blue, violet or green) of the GUI screen can be changed. (See page 33.)



Detailed descriptions of each GUI icon

Screen for disc information (For DVD)

Title No.	Change the title No. by using the cursor buttons (▲, ▼) or the numeric buttons and press SELECT.
Chapter No.	Change the chapter No. by using the cursor buttons (▲, ▼) or the numeric buttons and press SELECT.
Elapsed playing time (hour: minute: second)	Change the time by using the numeric buttons and press SELECT. Example: To specify "1 hour 56 min. 37 sec.", enter "15637". (This function does not work with some discs.)
Angle No. (See page 27.)	Change the No. by using the cursor buttons (▲, ▼) or the numeric buttons.



Audio soundtrack language No. (See page 26.)	Change the No. by using the cursor buttons (▲, ▼) or the numeric buttons.				
Audio soundtrack language	ENG: English POR: Portuguese FRA: French RUS: Russian DEU: German JPN: Japanese ITA: Italian CHI: Chinese ESP: Spanish KOR: Korean NLD: Dutch MAL: Malay SVE: Swedish VIE: Vietnamese NOR: Norwegian THA: Thai DAN: Danish *: Others				
Audio attribute	LPCM	96k or 48k	16b 20b 24b	Linear PCM ("k" stands for kHz and "b" stands for bit.)	
		1-5.1ch		Dolby Digital (AC-3)	
	dts	1-5.1ch		dts	
	MPEG	1-7.1ch		MPEG audio	
	Vocal	---	(OFF)		DVD Karaoke (Solo)
		ON			
Vocal		---	(OFF)		DVD Karaoke (Duet)
		V1+V2			
	V1				
		V2			

Subtitle language No. (See page 27.)	Change the No. by using the cursor buttons (▲, ▼) or the numeric buttons.	
Subtitle language	ENG: English POR: Portuguese FRA: French RUS: Russian DEU: German JPN: Japanese ITA: Italian CHI: Chinese ESP: Spanish KOR: Korean NLD: Dutch MAL: Malay SVE: Swedish VIE: Vietnamese NOR: Norwegian THA: Thai DAN: Danish *: Others	
Subtitle on/off	Select "ON" or "OFF" by using the cursor buttons (▲, ▼).	
	OFF	Subtitle is cleared.
	ON	Subtitle is displayed.

For your reference:

● "▲ ▼" around the icon means that the item can be changed using the cursor buttons (▲, ▼).

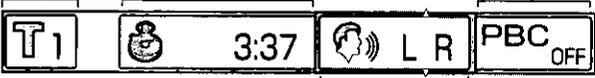


Screen for disc information (For Video CD/CD)

Track No. Change the track No. by using the cursor buttons (▲, ▼) or the numeric buttons and press SELECT.

Elapsed playing time
(minute: second) During CD play, display is changed by using the cursor buttons (▲, ▼).
Elapsed playing time → Remaining time of the track
← Remaining time of the disc →

Playback control (Video CD only) (See page 15.)	OFF	Menu play is not ON.
	ON	Menu play is ON.



Audio mode (Video CD only) (See page 26.)	Change the mode by using the cursor buttons (▲, ▼).	
	LR	Left channel sound is output from the speaker (L), and right channel sound from the speaker (R).
	L	Left channel sound only is output.
	R	Right channel sound only is output.

Notes:

- Track No. and the elapsed playing time are not displayed during menu play of Video CDs with playback control.
- It is not possible to turn playback control ON or OFF using the GUI screen.

For your reference:

- "▲ ▼" around the icon means that the item can be changed using the cursor buttons (▲, ▼).



Screen for player information

A-B repeat play (See page 23.)

Press SELECT during play to store location A and press SELECT again to store location B and to start repeat play between the specified two locations. Press SELECT again to return to normal play.

Repeat play (See page 22.)

Select the preferred mode during play by using the cursor buttons (▲, ▼).

OFF	Normal play	DVD
C	Chapter repeat play	
T	Title repeat play	
OFF	Normal play	Video CD/ CD
T	Track repeat play	
A	Disc repeat play	

Marker

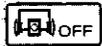
(See page 23.)

Press SELECT during play and press SELECT again at the preferred point to store a marker. (Marker no. is displayed instead of “*”.)

- To recall a marker, select the preferred marker no. by using the cursor buttons (◀, ▶) and enter the selection using the cursor button (▲).
- To clear a marker, select the preferred marker no. using the cursor buttons (◀, ▶) and press CANCEL.



•DVD Dialogue Enhancer (See page 15.)



Select the preferred mode during play by using the cursor buttons (▲, ▼).

OFF	Normal volume
ON	Louder volume

•Video CD/CD Play mode (See pages 24 and 25.)



PRG	Program play
RND	Random play
---	Normal play

Virtual Surround Sound (VSS) (DVD only) (See page 28.)

Select the preferred mode during play by using the cursor buttons (▲, ▼).

OFF	VSS off
1	VSS natural effect
2	VSS emphasized effect

Shuttle screen

Still/Pause

Press the cursor button (▲).

Slow-motion play (Backward)

Press the cursor button (◀).
(DVD only)

Slow-motion play (Forward)

Press the cursor button (▶).
(DVD/Video CD only)



Rapid reverse

Press the cursor button (◀).

Rapid advance

Press the cursor button (▶).

Play

Press the cursor button (▼).

Notes:

- Repeat play and marker functions do not work with an interactive DVD or during menu play of a Video CD with playback control.
- A-B repeat play does not work with an interactive DVD.
- It is not possible to change the play mode using the GUI screen.

For your reference:

- Each time the cursor button (◀, ▶) is pressed, the speed of rapid reverse/advance and slow-motion play increases up to 5 steps.
- The figures appearing at both ends of the shuttle screen stand for the maximum speeds of rapid reverse and rapid advance. (DVD: +100/-100, Video CD: +40/-40, CD: +50/-50)



Repeat play

Repeat viewing (listening)

Press REPEAT MODE during play.

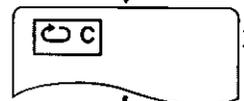
Each time this button is pressed, the TV monitor changes as shown below and the disc will repeat a chapter or title (DVD) or a track (Video CD/CD).

•DVD

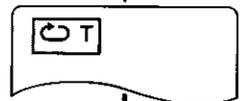
Normal play



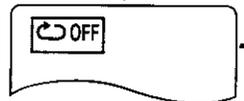
Repeat of chapter being played



Repeat of title being played

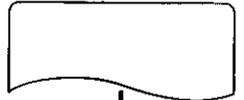


Cancel repeat mode
(Normal play)

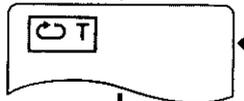


•Video CD/CD

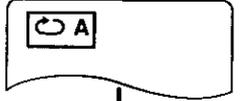
Normal play



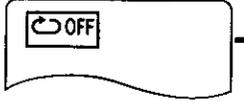
Repeat of track being played



Repeat of entire disc contents



Cancel repeat mode
(Normal play)

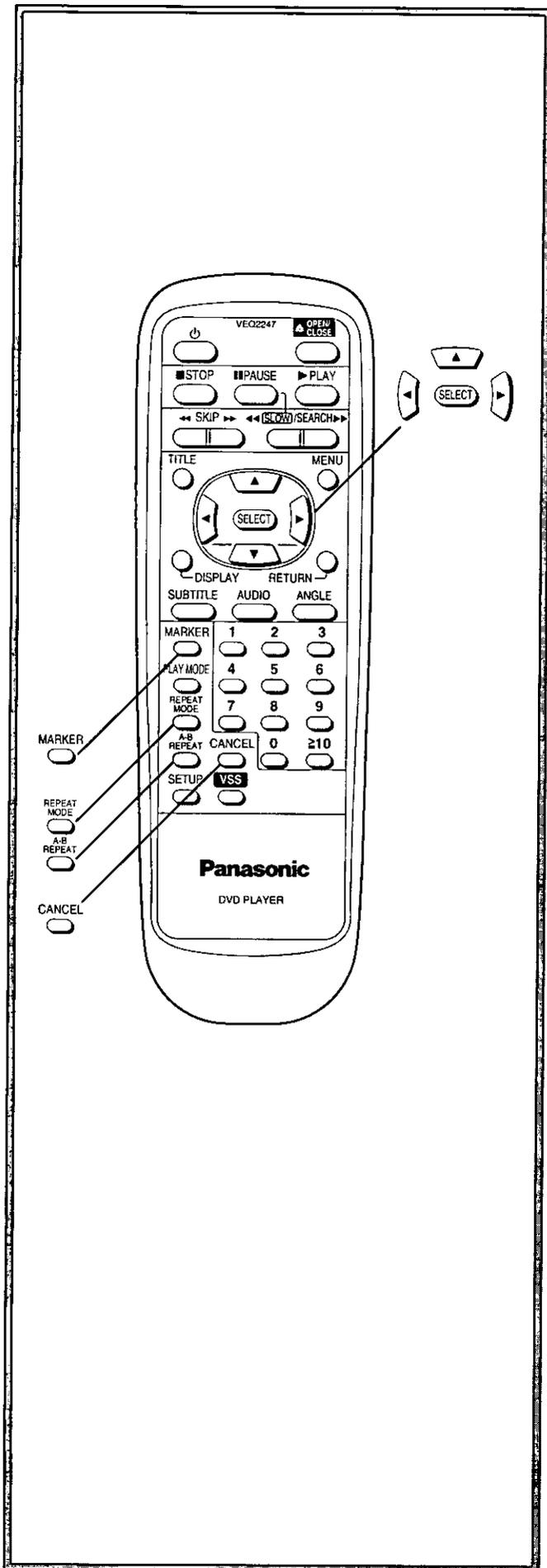


To return to normal play

Press REPEAT MODE several times until "OFF" is displayed.

Notes:

- Repeat play may not work correctly with some DVDs.
- Repeat play does not work with an interactive DVD or during menu play of a Video CD with playback control.



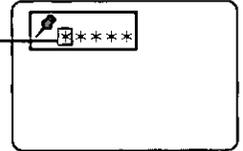
Storing markers in memory to be viewed (listened to) again

Storing a marker in the memory

1 Press MARKER during play.

The marker screen appears on the TV monitor.

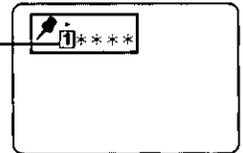
"*" indicates no marker has been stored yet.



2 Press SELECT during play at the starting point to be viewed (listened to) again.

Indicates "MARKER 1" is stored in the memory.

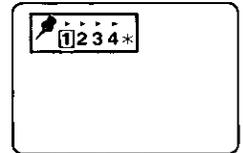
(If SELECT is pressed where any number is already displayed, the previous starting point will be replaced by the new one.)



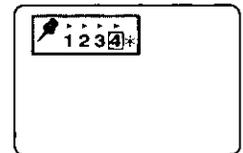
- Up to 5 markers can be stored in the memory.
- Press MARKER to clear the display.

Recalling/clearing a marker

1 Press MARKER during play.



2 Press the cursor buttons (◀, ▶) to select the marker to be recalled/cleared.



3 Press the cursor button (▲) to recall a marker.

or

Press CANCEL to clear a marker.

Play resumes from the point corresponding to the selected marker.

or

The selected marker is cleared. (Press MARKER to clear the display.)

Notes:

- Some subtitles recorded around the marker may fail to appear. [DVD]
- These operations do not work with an interactive DVD or during menu play of a Video CD with playback control.

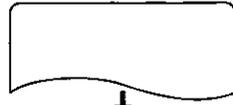
For your reference:

- All the markers are cleared when the player is set to the standby mode or turned off, or OPEN/CLOSE is pressed.

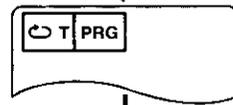
To enjoy program repeat play

If REPEAT MODE is pressed during program play (see page 24), the display changes as follows:

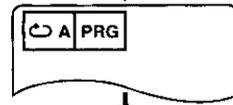
Program play



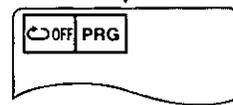
Repeat of programmed track being played



Repeat of all programs



Cancel repeat mode (Program play)

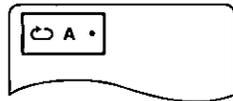


To return to program play

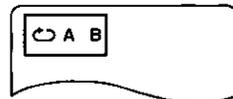
Press REPEAT MODE several times until "OFF" is displayed.

Repeating sections between two specific points (A-B repeat)

1 Press A-B REPEAT during play at the point where repeat play is to start (A).



2 Press A-B REPEAT at the point where repeat play is to be concluded (B).



Repeat play of the selection between points A and B starts.

To return to normal play

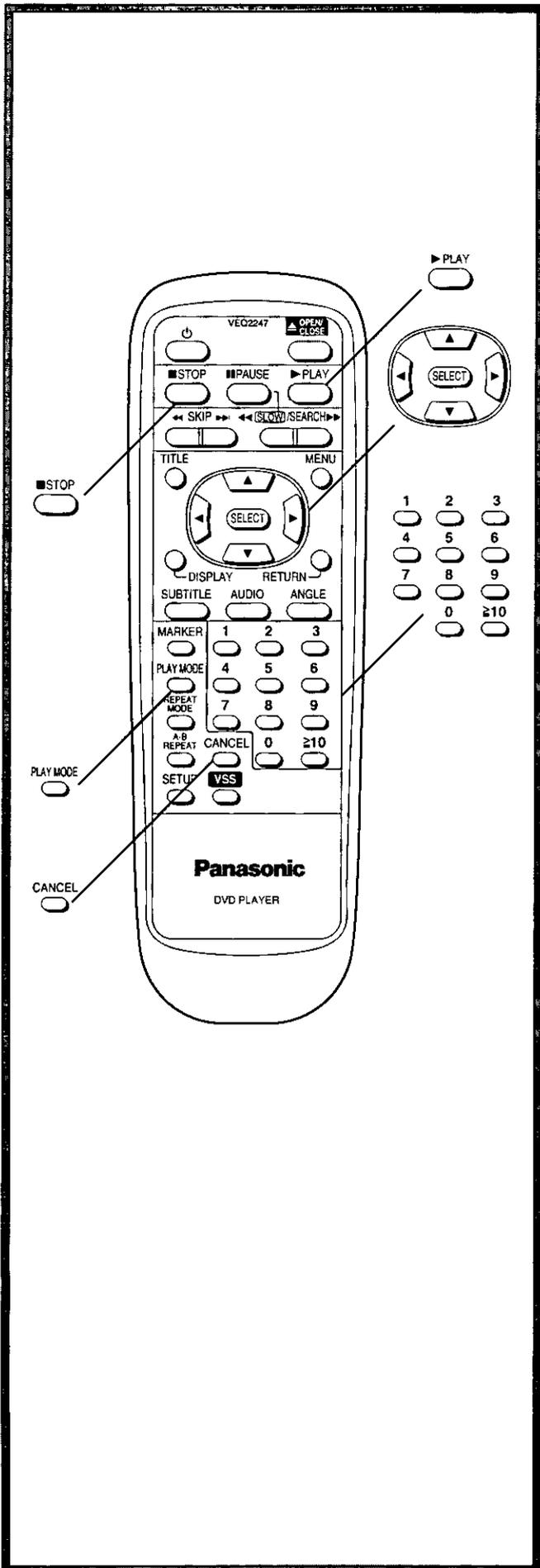
Press A-B REPEAT several times until "••" is displayed.

Notes:

- A-B repeat play does not work with an interactive DVD.
- Some subtitles recorded around point A or B may fail to appear. [DVD]
- A-B repeat play works only within a title [DVD] or a track [Video CD/CD].

For your reference:

- If the title/track is completed before end location B is specified, the end point of the title/track serves as end location B.



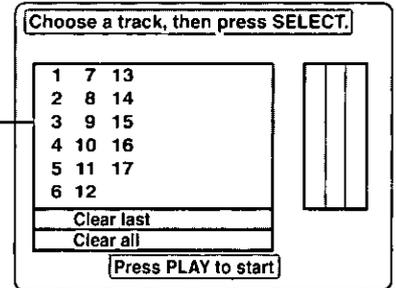
Program play [Video CD/CD]

The player plays the tracks on the disc in an order you specify.

1 Press PLAY MODE in the stop mode.

The program playback screen appears on the TV monitor.

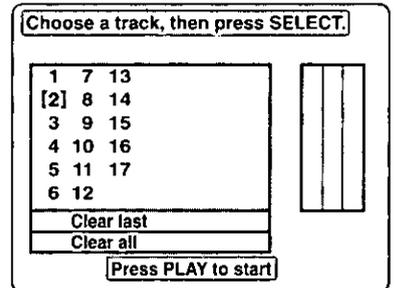
Example: a disc including 17 tracks



•To exit the screen

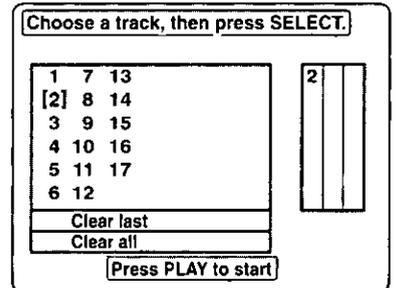
Press PLAY MODE twice.

2 Press the cursor buttons (▲, ▼, ◀, ▶) to select the preferred track number.



3 Press SELECT.

The selected track is stored in the memory.



- Repeat steps 2 and 3 to select another track.
- Up to 18 tracks can be programmed.

4 Press PLAY.

Play now begins in the programmed sequence.

After playback

Play is stopped and the program playback screen is displayed.

To return to normal play

1. Press STOP. (Program play is suspended.)
2. Press PLAY MODE twice.
3. Press PLAY.

Normal play begins from the beginning of the disc.
(The content of the program is still retained in the memory.)

Clearing the program

When the program playback screen is displayed

- **To clear the last program one by one**
Move to "Clear last" and press SELECT.
(Pressing CANCEL of the remote control unit also clears the last program.)
- **To clear all the programs**
Move to "Clear all" and press SELECT.
(The programs are also cleared when the player is set to the standby mode or turned off, or OPEN/CLOSE is pressed.)

Programming track numbers while monitoring the player's FL display

This function works with the following discs.

- CDs
- Video CDs with playback control when menu play is cancelled
(Press STOP while the menu screen is displayed.)
- Video CDs which do not support playback control (Ver 1.1)

1. Press PLAY MODE once in the stop mode.

In the case of a CD



Flashes

2. Press the numeric buttons to select the track.

The selected track is stored in the memory.



Track No.

Program No.

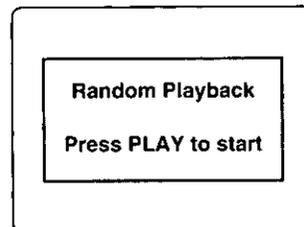
- Repeat step 2 to select another track.

3. Press PLAY.
Program play starts.

Random play [Video CD/CD]

The player plays the tracks on the disc in random order.

- 1 Press PLAY MODE twice in the stop mode.**
The random playback screen appears on the TV monitor.



- **To exit the screen**
Press PLAY MODE once.

2 Press PLAY.

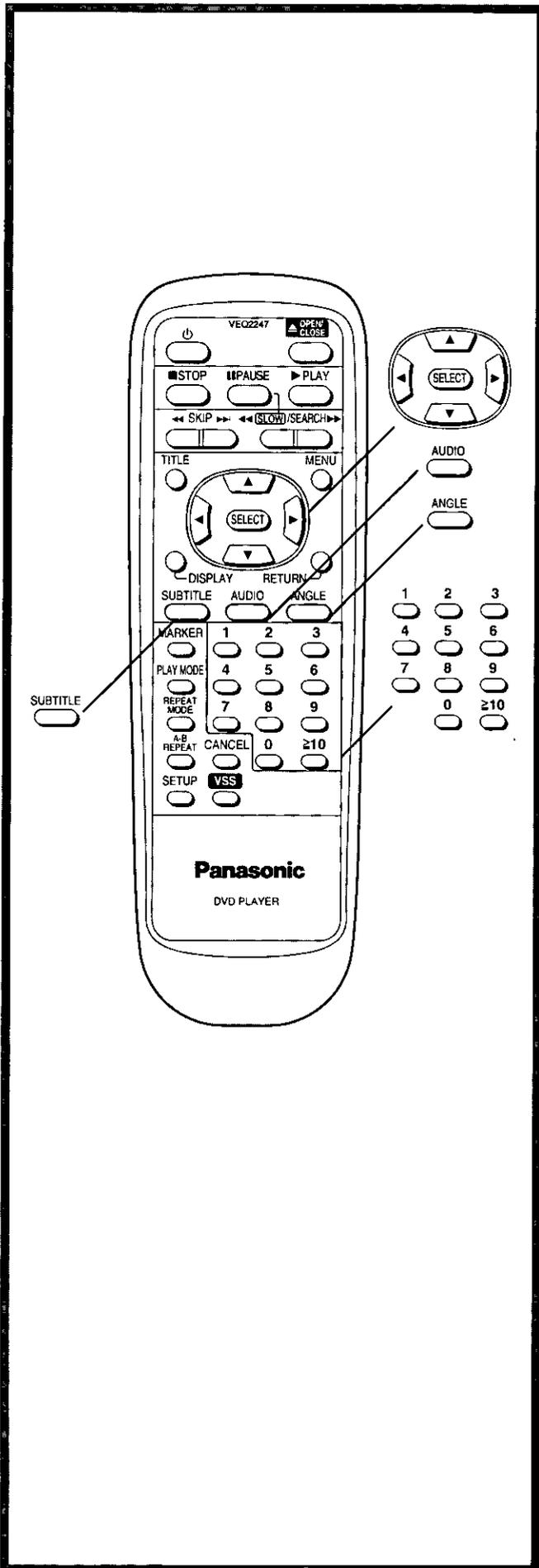
Play now begins in random order.

After playback

Play is stopped and the random playback screen is displayed.

To return to normal play

1. Press STOP. (Random play is suspended.)
2. Press PLAY MODE once.
3. Press PLAY.
Normal play begins from the beginning of the disc.



Changing audio soundtrack language [DVD]

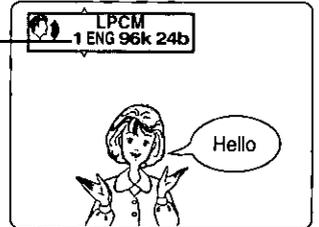
It is possible to change the audio soundtrack language to a different language from the one selected at the initial settings. (If available. See page 31.)

(This operation works only with discs on which multiple audio soundtrack languages are recorded.)

1 Press AUDIO during play.

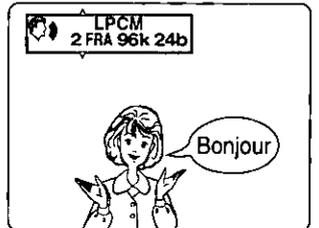
- When no audio soundtrack is recorded, “-” will be displayed instead of the language number.

Number of the audio soundtrack language being played back



2 Press the cursor buttons (▲, ▼) until the preferred language is selected.

Pressing the numeric buttons also changes the audio soundtrack language.



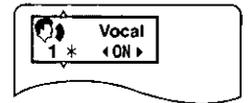
- Press AUDIO or SELECT to clear the display.

For your reference:

- When the preferred language is not selected, even after pressing the cursor buttons (▲, ▼) several times, it means that language is not available on the disc.
- When the power is turned on, or the disc is removed, the language heard is the one selected at the initial settings. If this language is not recorded on the disc, only the available language on the disc will be heard.

Switching vocals ON or OFF for Karaoke discs [DVD/Video CD]

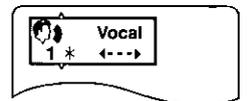
1 Press AUDIO during play.



2 Press the cursor buttons (▲, ▼, ◀, ▶) until the preferred setting is selected.

- DVD Karaoke (Solo) (◀, ▶)

---(OFF) ↔ ON

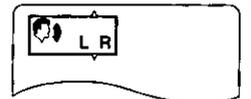


- DVD Karaoke (Duet) (◀, ▶)

---(OFF) → 1+2 (ON) → V1 (ON) → V2 (ON)

- Video CD (▲, ▼)

LR → L → R



- Press AUDIO or SELECT to clear the display.

Note:

- This operation does not work with CDs.

Changing subtitle language [DVD]

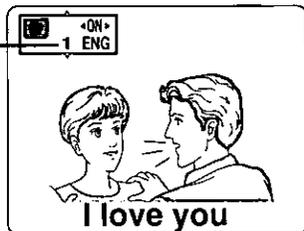
It is possible to change the subtitle language to a different language from the one selected at the initial settings. (If available. See page 31.)

(This operation works only with discs on which multiple subtitle languages are recorded.)

1 Press SUBTITLE during play.

- When no subtitles are recorded, "--" will be displayed instead of the language number.

Number of the subtitle language being played back



2 Press the cursor buttons (▲, ▼) until the preferred language is selected.

Pressing the numeric buttons also changes the subtitle language.



- Press SUBTITLE or SELECT to clear the display.

To clear/display the subtitles

Press the cursor buttons (◀, ▶) to select ON or OFF at step 2.

Note:

- In some cases, the subtitle language is not changed to the selected one immediately.

For your reference:

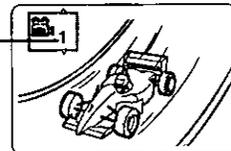
- When the preferred language is not selected even after pressing the cursor buttons (▲, ▼) several times, it means that the language is not available on the disc.
- When the power is turned on or the disc is removed, subtitles appear in the language selected at the initial settings. If this language is not recorded on the disc, they appear in the disc's priority language.

Viewing from another angle [DVD]

Some DVDs may contain scenes which have been shot simultaneously from a number of different angles. For these discs, the same scene can be viewed from each of these different angles using the ANGLE button. (The recorded angles differ depending on the disc used.)

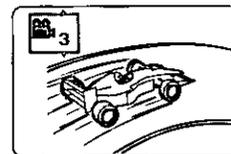
1 Press ANGLE during play.

Number of angle being played back



2 Press the cursor buttons (▲, ▼) until the preferred angle is selected.

Pressing the numeric buttons also changes the angle.



- Press ANGLE or SELECT to clear the display.

Note:

- This function only works for titles having scenes recorded at different angles.

For your reference:

- "ANGLE" lights up on the player's FL display at scenes recorded at different angles to indicate that angle switching is possible.
- The angle number can be programmed beforehand with some DVDs; the angle will be switched to the selected number when "ANGLE" lights up.

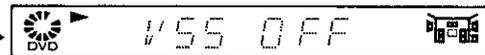
Reproducing an Advanced Virtual Surround Sound effect [Dolby Digital (AC-3) DVD]

This player can reproduce a virtual surround sound effect which provides sound as if heard from the front speakers located at the horizontally further position or heard from nonexistent speakers even when only a 2-channel stereo system is connected [for playback of Dolby Digital DVD software (2ch and above) only].

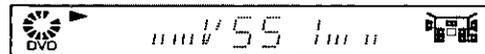
Press VSS during play.

Each time this button is pressed, the player's FL display changes:

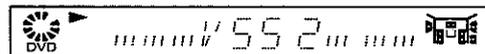
- 1 Virtual surround sound is cancelled



- 2 Virtual surround sound 1 (Natural effect)

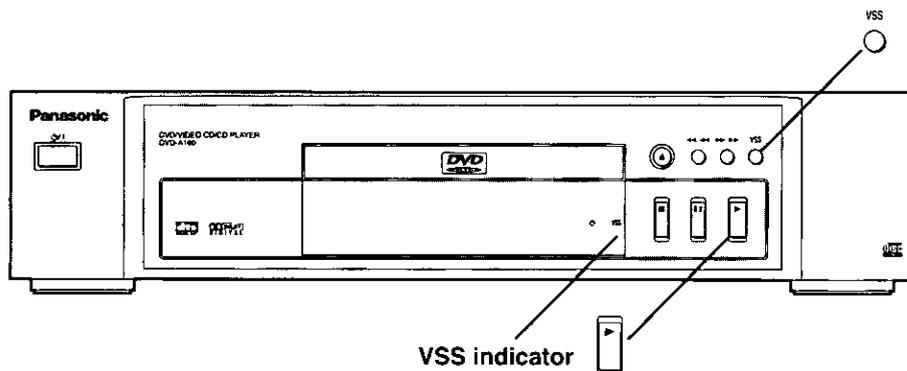
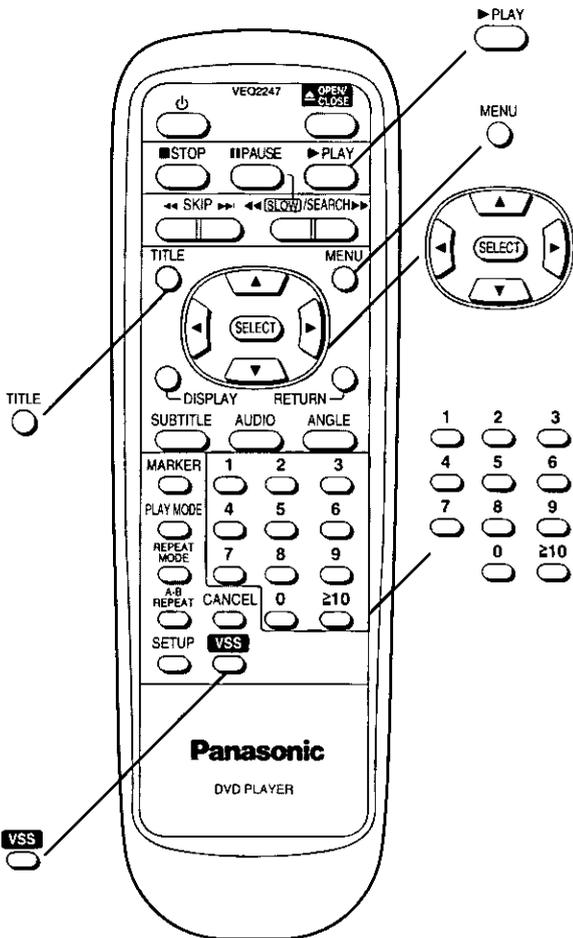


- 3 Virtual surround sound 2 (Emphasized effect)



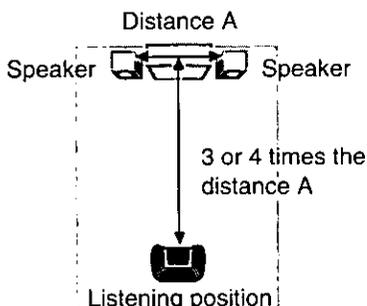
Notes:

- The virtual surround sound effect does not work with DVD Karaoke discs.
- The virtual surround sound effect may not work with some Dolby Digital 2.1ch or 3.1ch DVDs. Additionally, this effect may not work properly with some Dolby Digital DVDs other than 2.1ch or 3.1ch, depending on the software.
- Turn off the TV surround sound and other surround sound effects when using this virtual surround sound effect.



For your reference:

- The VSS indicator lights up when the Dolby Digital DVD is played back with the virtual surround sound effect.
- For optimum effect, it is recommended that the distance between the TV set and the listening position be about 3 or 4 times the distance between the right and left front speakers.



•Difference between “VSS 1” and “VSS 2”

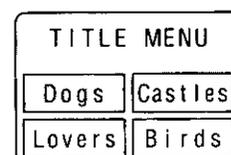
	VSS 1	VSS 2
Dolby Digital DVD (2ch)	It sounds as if sound were heard from the front speakers located at the horizontally further position.	It sounds as if sound were heard from the front speakers located at the horizontally much further position.
Dolby Digital DVD (3–5.1ch) (Surround signal recorded)	It sounds as if sound were heard from nonexistent surround speakers.	In addition to the effect described on the left, it sounds as if sound were heard from the front speakers located at the horizontally further position.

Using a title menu [DVD]

Some discs with movies, for example, may be available with two or more titles. If the disc has a title menu recorded on it, the TITLE button can be used to select the movie title. (The details of operation differ depending on the disc used.)

1 Press TITLE during play.

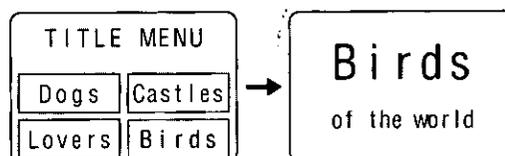
A list of the titles on the disc is now displayed.



(Example)

- Pressing TITLE again resumes play from the scene when TITLE was first pressed.

2 Press the cursor buttons (▲, ▼, ◀, ▶) and press SELECT or PLAY, or press the numeric buttons, to select the preferred title.



(Example)

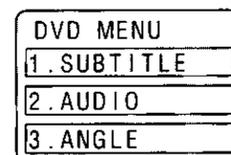
The selected title now starts playing.

Using a DVD menu [DVD]

Some DVDs have unique menu structures called DVD menus. For example, DVDs programmed with complex contents provide guide menus, and those recorded with various languages provide menus for audio and subtitle language. Although the DVD menu's contents and operation differ from disc to disc, the following explains basic operation when this feature is used.

1 Press MENU during play.

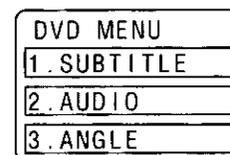
The DVD menu available on the disc is now displayed.



(Example)

- Pressing MENU again resumes play from the scene when MENU was first pressed.

2 Press the cursor buttons (▲, ▼, ◀, ▶) and press SELECT, or press the numeric buttons, to select the preferred item.



The selected item is now executed.

(Example)

When the menu continues onto another screen
Repeat step 2.

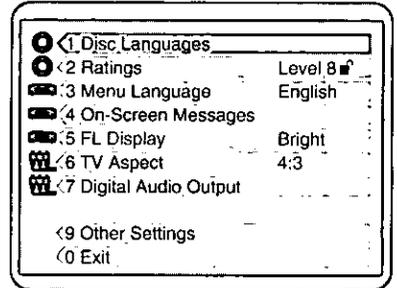
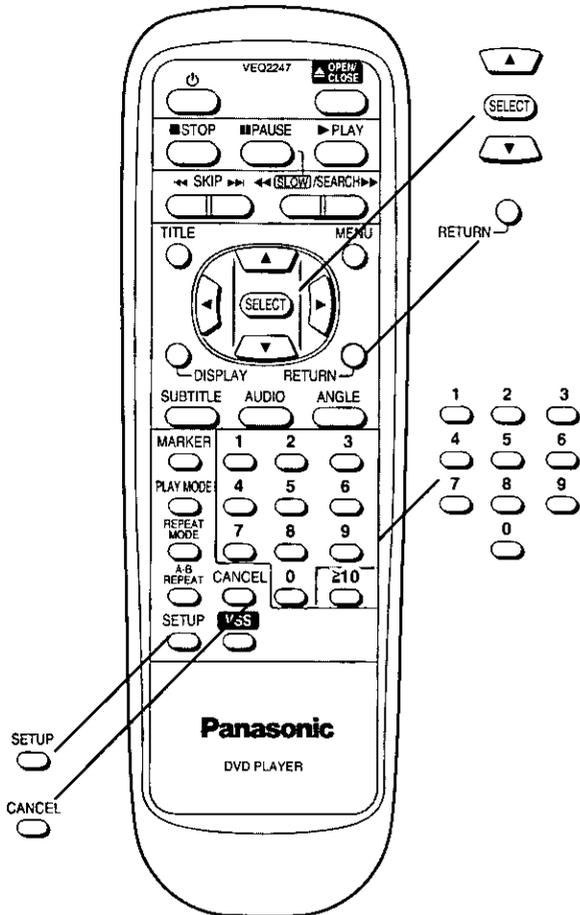
Initial settings

Once the initial settings have been completed, the player can always be operated under the same conditions (especially with DVD discs).

The settings will be retained in the memory, until the settings are changed, even after switching to standby mode.

Common procedures of initial settings

1 Press SETUP in the stop mode.



2 Press the cursor buttons (▲, ▼) to select the preferred item and press SELECT.

Each screen for setting the value is displayed.

- 1 Disc Languages (see page 31)
- 2 Ratings (see page 31)
- 3 Menu Language (see page 33)
- 4 On-Screen Messages (see page 33)
- 5 FL Display (see page 34)
- 6 TV Aspect (see page 35)
- 7 Digital Audio Output (see page 35)
- 9 Other Settings (see page 37)

3 Press the cursor buttons (▲, ▼) to select the preferred value and press SELECT.

•Some items require additional steps. (See the respective page.)

Setting is finished and the initial settings screen is displayed.

To cancel during setup operation

Press RETURN or select "0". (The previous screen is displayed.)

To clear the initial settings screen

Press the cursor buttons (▲, ▼) to select "0" and press SELECT. (Pressing SETUP or RETURN also clears the initial settings screen.)

Notes:

- There is no No. 8 in the initial settings menu of this player.
- After the player is set to the "Lock All" setting in "2 Ratings", none of the initial settings, including "2 Ratings", can be changed if the DVD disc is left inside the player. In this case, remove the disc, and unlock the player.

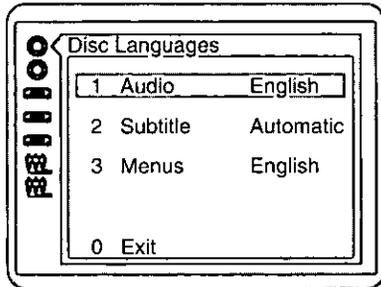
For your reference:

- The numeric buttons can also be used for selecting items or values instead of the cursor buttons (▲, ▼); in this case, pressing SELECT is not necessary.

Selecting disc languages [DVD]

This is to select the audio soundtrack language, subtitle language and the language used in title menus or DVD menus which will always be used for every disc to be played back.

- 1 At the initial settings screen (on page 30)
Press the cursor buttons (▲, ▼) to select "1 Disc Languages" and press SELECT.



- 2 Press the cursor buttons (▲, ▼) to select the preferred item and press SELECT.

- 1 **Audio:**
To select the audio soundtrack language.
- 2 **Subtitle:**
To select the subtitle language.
- 3 **Menus:**
To select the language used in title menus or DVD menus.

- 3 Press the cursor buttons (▲, ▼) to select the preferred language and press SELECT.

When "1 Audio" is selected

- 1 **English:** English is selected. (Factory preset)
- 2 **French/3 German/4 Italian/5 Spanish:**
Each language is selected.
- 6 **Original:** The original language of each disc will be selected.
- 7 **Other ****:** Another language can be selected. (Refer to the language codes on page 39. Press CANCEL if an incorrect language code is entered.)

When "2 Subtitle" is selected

- 1 **Automatic:** The same language selected for the "1 Audio" will be selected. (Factory preset)
 - If the language selected for the "1 Audio" is actually used during playback, the subtitles will not appear.
 - If another language is used during playback, the subtitles will appear in the language selected at the setup "1 Audio".
- 2 **English/3 French/4 German/5 Italian/6 Spanish:**
Each language is selected.
- 7 **Other ****:** Another language can be selected. (Refer to the language codes on page 39. Press CANCEL if an incorrect language code is entered.)

When "3 Menus" is selected

- 1 **English:** English is selected. (Factory preset)
- 2 **French/3 German/4 Italian/5 Spanish:**
Each language is selected.
- 6 **Other ****:** Another language can be selected. (Refer to the language codes on page 39. Press CANCEL if an incorrect language code is entered.)

The screen illustrated in step 1 is displayed. Select "0" by using the cursor buttons (▲, ▼) and press SELECT to return to the initial settings screen.

Also refer to "Common procedures of initial settings" on page 30.

Note:

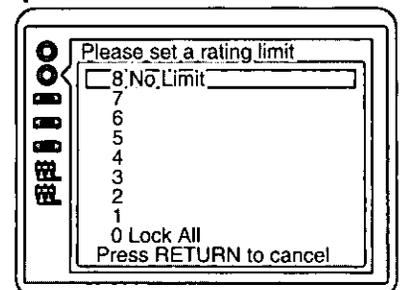
- If the language selected is not available on the disc, the language designated by each disc will be selected.

Selecting rating level [DVD]

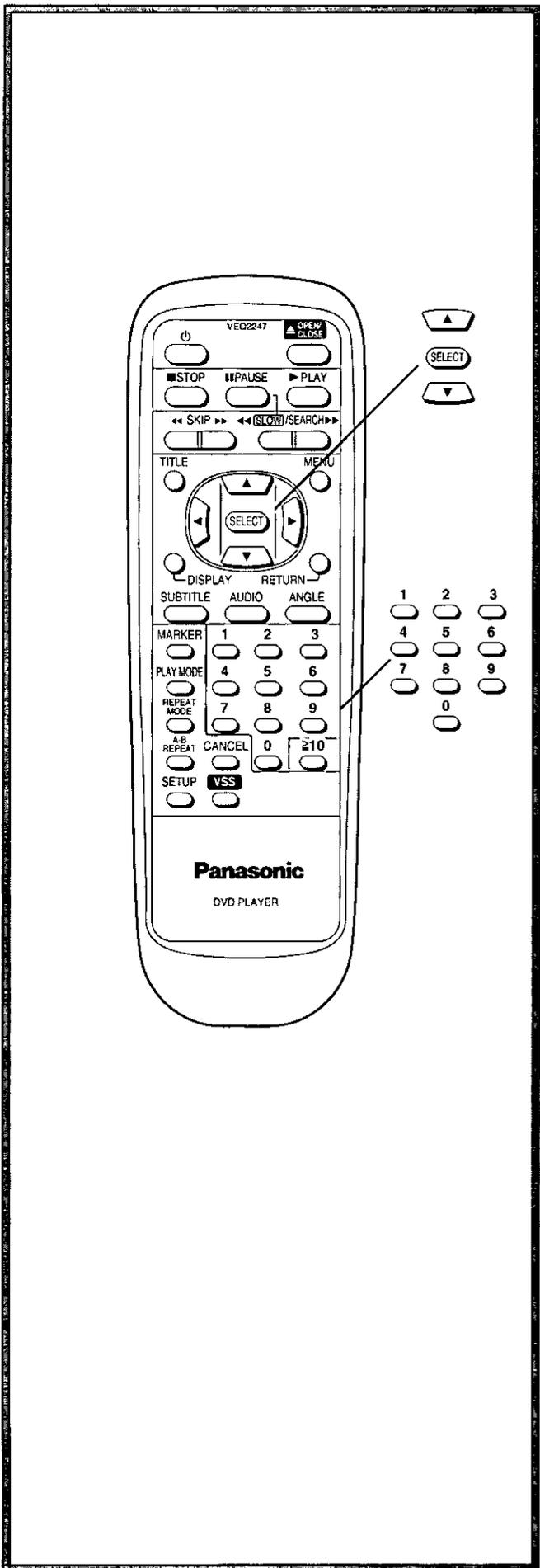
This is to disable the playing of specified DVDs which are unsuitable for children.

- Some DVDs are encoded with a specific rating level. If the rating level of the disc is higher than that preset in the initial settings operation, playback of the disc will be prohibited.

- 1 At the initial settings screen (on page 30)
Press the cursor buttons (▲, ▼) to select "2 Ratings" and press SELECT.



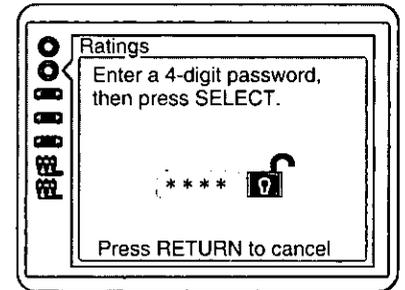
(Continued on the next page)



Initial settings

2 Press the cursor buttons (▲, ▼) to select the preferred level and press SELECT.

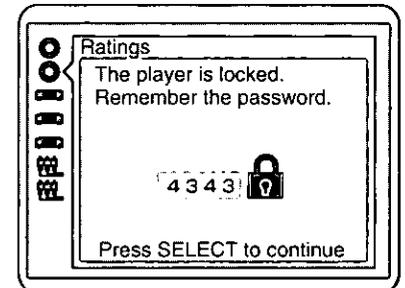
- Level 8:** All DVDs can be played back. (Factory preset)
- Level 7 to 2:** DVDs for general audiences/children can be played back. (DVDs for adults are prohibited.)
- Level 1:** DVDs for children can be played back. (DVDs for adults/general audiences are prohibited.)
- Level 0:** Playback of all DVDs is prohibited (e.g. to prohibit playback of DVDs for adults which are not encoded with rating level information).



3 When level 7 or lower is selected Input a 4-digit password by pressing the numeric buttons and press SELECT.

The lock symbol appears closed to show the rating is locked.

Example: "4343"
Do not forget your password.



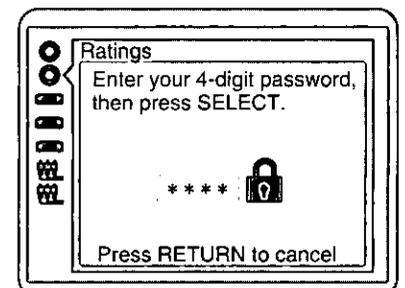
4 Press SELECT.

Setting is finished and the initial settings screen is displayed.

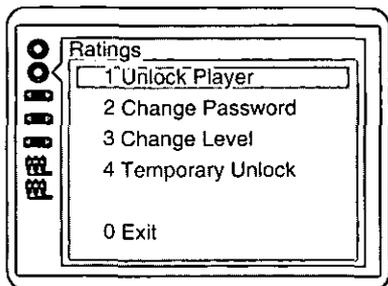
- The rating is locked. Any discs whose rating is higher than the setting cannot be played back unless the correct password is entered.

When the player is locked

The following screen appears when "2 Ratings" is selected at the initial settings screen.



1. Input a 4-digit password and press SELECT.



2. To unlock the player
Press "1" and then press SELECT.
To change the password
Press "2", enter a new 4-digit password and press SELECT, then press SELECT again.
To change the rating level
Press "3", select a new level by pressing the cursor buttons (▲, ▼), then press SELECT.
To unlock the player temporarily
Press "4" and then press SELECT.
 - The rating is unlocked temporarily only for the current disc or only until the player is set to the standby mode.**To finish setting without changing the rating level**
Press "0".

Setting is finished and the initial settings screen is displayed.

Also refer to "Common procedures of initial settings" on page 30.

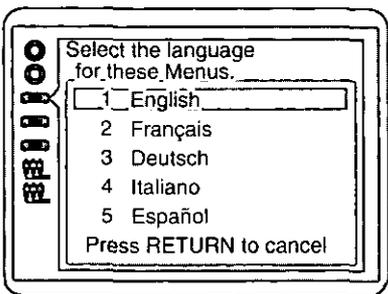
Note:

- Some discs may not be encoded with specific rating level information though its disc jacket says that it is for "adults". For those discs, the age restriction will not work.

Selecting language of On-Screen Display menu

This is to select the language to be used in the On-Screen Display menus which the player will show on the TV monitor.

- 1 At the initial settings screen (on page 30)
Press the cursor buttons (▲, ▼) to select "3 Menu Language" and press SELECT.



- 2 Press the cursor buttons (▲, ▼) to select the preferred language and press SELECT.
 - 1 English:
English is selected. (Factory preset)
 - 2 Français/3 Deutsch/4 Italiano/5 Español:
Each language is selected.

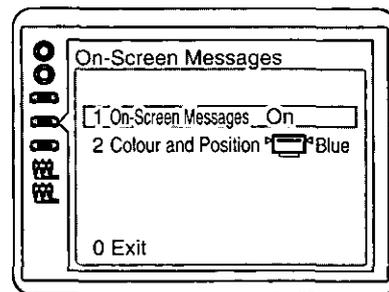
Setting is finished and the initial settings screen is displayed.

Also refer to "Common procedures of initial settings" on page 30.

Selecting the display format of the On-Screen Display

You can select whether "Play", "Still" and other displays will be displayed or not, and the colour and position of "Play", "Still" and other displays as well as GUI screens.

- 1 At the initial settings screen (on page 30)
Press the cursor buttons (▲, ▼) to select "4 On-Screen Messages" and press SELECT.



- 2 Press the cursor buttons (▲, ▼) to select the preferred item and press SELECT.

- 1 On-Screen Messages:
To select whether "Play", "Still" and other displays are displayed or not.
- 2 Colour and Position:
To select the colour (Blue/Violet/Green) and position (above/slightly below) of "Play", "Still" and other displays as well as GUI screens.

- 3 Press the cursor buttons (▲, ▼) to select the preferred setting and press SELECT.

When "1 On-Screen Messages" is selected

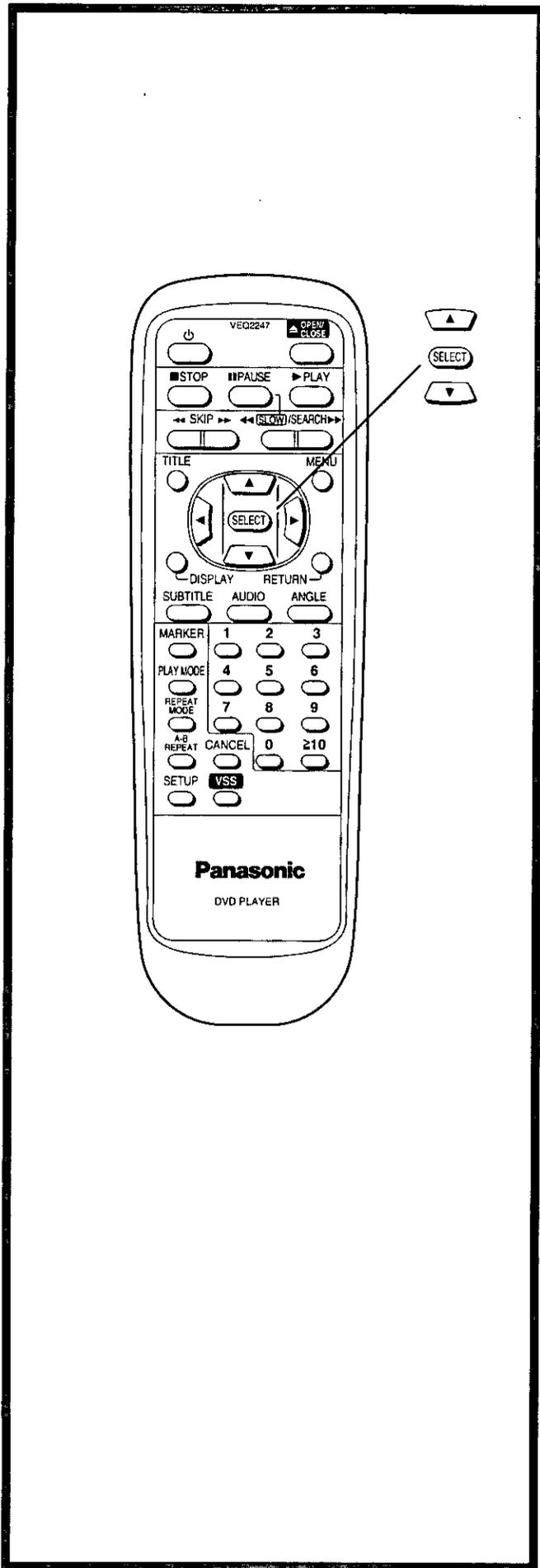
- 1 On: "Play", "Still" and other displays will always appear on the TV screen. (Factory preset)
- 2 Off: "Play", "Still" and other displays will not appear on the TV screen.

When "2 Colour and Position" is selected

The colours and positions are set as follows:

- 1  Blue (Factory preset)
- 2  Violet
- 3  Green
- 4  Blue
- 5  Violet
- 6  Green

(Continued on the next page)



Initial settings

The screen illustrated in step 1 is displayed. Select "0" by using the cursor buttons (▲, ▼) and press SELECT to return to the initial settings screen.

Also refer to "Common procedures of initial settings" on page 30.

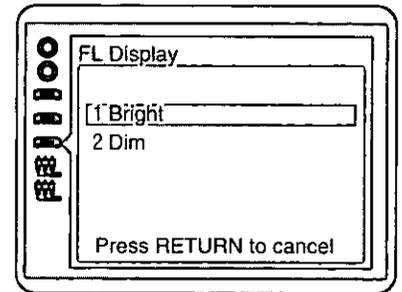
For your reference:

- When  is selected, "Play", "Still" and other displays as well as GUI screens will be displayed at a little lower position than the factory setting. It is recommended to choose this setting in such a case that the screen is only partially displayed.

Selecting the FL display brightness

This is to select the brightness of the player's FL display.

- 1 At the initial settings screen (on page 30) Press the cursor buttons (▲, ▼) to select "5 FL Display" and press SELECT.



- 2 Press the cursor buttons (▲, ▼) to select the preferred item and press SELECT.

- 1 **Bright:**
The FL display will always be bright. (Factory preset)
- 2 **Dim:**
The FL display will always be dimmed.

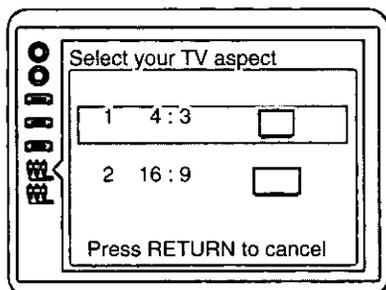
Setting is finished and the initial settings screen is displayed.

Also refer to "Common procedures of initial settings" on page 30.

Selecting TV screen type

Select the TV aspect, conventional size screen (4:3) or wide-screen (16:9), according to your TV set.

- 1 At the initial settings screen (on page 30)
Press the cursor buttons (▲, ▼) to select "6 TV Aspect" and press SELECT.



- 2 Press the cursor buttons (▲, ▼) to select the TV aspect and press SELECT.

- 1 **4:3:**
Select when a conventional TV set is connected.
(Factory preset)
- 2 **16:9:**
Select when a wide-screen TV set is connected.

Setting is finished and the initial settings screen is displayed.

Also refer to "Common procedures of initial settings" on page 30.

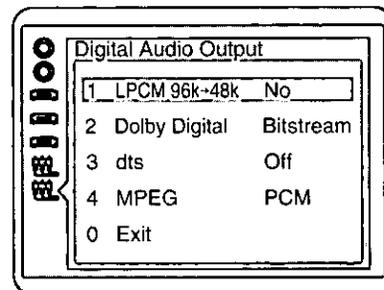
For your reference:

- For further details on the images which appear on the TV screen (aspect ratios of the screen), see page 40.

Selecting digital output

Select the digital output to be output from the optical digital audio output connector of the player.

- 1 At the initial settings screen (on page 30)
Press the cursor buttons (▲, ▼) to select "7 Digital Audio Output" and press SELECT.



- 2 Press the cursor buttons (▲, ▼) to select the preferred item and press SELECT.

- 1 **LPCM 96k→48k:**
To select whether digital audio converted to 48 kHz/16 bit is output from the optical digital audio output connector or no digital audio is output during playback of the DVD recorded in Linear PCM of 96 kHz.
(In case of the DVD recorded in Linear PCM of 48 kHz, digital audio converted to 48 kHz/16 bit is output irrespective of the setting.)
- 2 **Dolby Digital:**
To select the signal format (Bitstream or PCM) to be output from the optical digital audio output connector during playback of the DVD recorded in Dolby Digital (AC-3).
- 3 **dts:**
To select whether dts bitstream is output from the optical digital audio output connector or no digital audio is output during playback of the DVD recorded in dts.
- 4 **MPEG:**
To select the signal format (PCM or Bitstream) to be output from the optical digital audio output connector during playback of the DVD recorded in MPEG audio.

(Continued on the next page)

Initial settings

3 Press the cursor buttons (▲, ▼) to select the preferred value and press SELECT.

When "1 LPCM 96k→48k" is selected

- No:** Digital audio of 48 kHz/16 bit is output during playback of the DVD recorded in Linear PCM of 48 kHz. No digital audio is output during playback of the DVD recorded in Linear PCM of 96 kHz. However, audio will be output using the original audio recording system in case of the DVD which has not been copyright-protected. (Factory preset)
- Yes:** During playback of the DVD recorded in Linear PCM of 48 kHz or 96 kHz, digital audio converted to 48 kHz/16 bit is output. (Digital output of PCM audio is restricted to 48 kHz/16 bit or below for copyright protection.)

When "2 Dolby Digital" is selected

- Bitstream*1:** Dolby Digital (AC-3) bitstream (1ch–5.1ch) is output during playback of the DVD recorded in the Dolby Digital (AC-3). (Factory preset)
Select this setting when the player is connected to the Dolby Digital (AC-3) decoder.
- PCM:** Digital audio converted to PCM (2ch) of 48 kHz/16 bit is output during playback of the DVD recorded in the Dolby Digital (AC-3).

When "3 dts" is selected

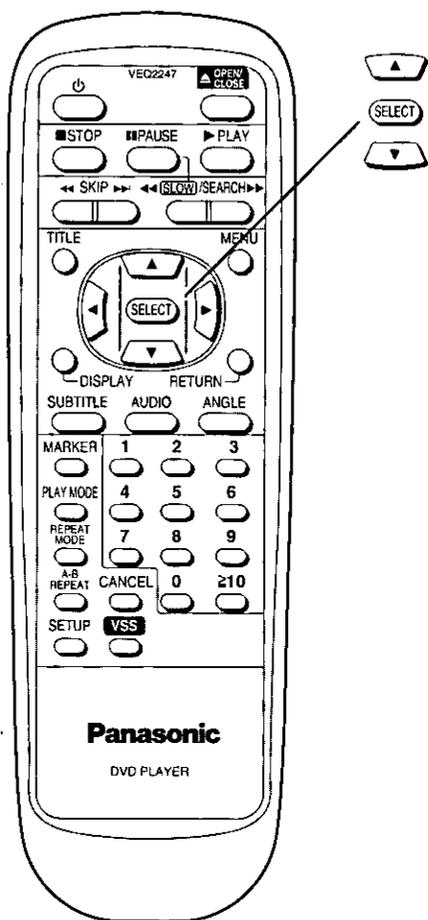
- Off:** No digital audio is output during playback of the DVD recorded in dts. (Factory preset)
- Bitstream*1:** dts bitstream is output during playback of the DVD recorded in dts. Select this setting when the player is connected to the dts decoder.

When "4 MPEG" is selected

- PCM:** Digital audio converted to PCM (2ch) of 48 kHz/16 bit is output during playback of the DVD recorded in the MPEG audio. (Factory preset)
- Bitstream*1:** MPEG audio bitstream (1ch–7.1ch) is output during playback of the DVD recorded in MPEG audio. Select this setting when the player is connected to the MPEG audio decoder.

The screen illustrated in step 1 is displayed. Select "0" by using the cursor buttons (▲, ▼) and press SELECT to return to the initial settings screen.

Also refer to "Common procedures of initial settings" on page 30.



Recommended setting of "Digital Audio Output"

Make settings as shown in table below depending on the kind of equipment that is connected to the optical digital audio output connector.

Type of equipment to be connected	Recommended setting			
	1 LPCM 96k→48k	2 Dolby Digital	3 dts	4 MPEG
No equipment is connected	<u>No</u>	<u>Bitstream</u>	<u>Off</u>	<u>PCM</u>
Dolby Digital (AC-3) decoder (See page 11.)	Yes* ²	<u>Bitstream</u>	<u>Off</u>	<u>PCM</u>
Dolby Digital (AC-3)/dts decoder (See page 11.)	Yes* ²	<u>Bitstream</u>	Bitstream	<u>PCM</u>
Dolby Digital (AC-3)/dts/MPEG audio decoder (See page 11.)	Yes* ²	<u>Bitstream</u>	Bitstream	Bitstream

• Underlined item is a factory preset.

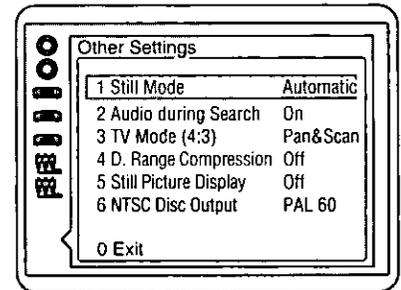
*¹ Do not connect an AV amplifier with digital audio input connector without Dolby Digital (AC-3)/dts/MPEG audio decoder; if such an amplifier should be connected to the player with "Bitstream" selected at the "2 Dolby Digital", "3 dts" and/or "4 MPEG" any attempt to play DVD may cause such a high level of noise that it may be harmful to your ears and damage your speakers.

*² Audio output from the player's audio output connectors is converted to 48 kHz as well as audio from the digital audio output connector.
To enjoy high quality sound at 96 kHz, connect the amplifier or decoder directly to the audio output connectors, not to the digital audio output connector. (Select "No" at the "1 LPCM 96k→48k".)

Other settings

Compression of the sound's dynamic range and other special settings can be performed.

- At the initial settings screen (on page 30) Press the cursor buttons (▲, ▼) to select "9 Other Settings" and press SELECT.



- Press the cursor buttons (▲, ▼) to select the preferred item and press SELECT.

- Still Mode:**
To select "Field still" or "Frame still" to prevent jittering from occurring or to let small text or fine patterns seen clearly in the still picture mode.
- Audio during Search:**
To select whether audio is heard during search at the initial scan speed or not.
- TV Mode (4:3):**
To select whether the video material for a wide-screen will be played back in the Pan & Scan style or in the Letterbox style on a conventional size TV.
- D. (Dynamic) Range Compression:**
To select the dynamic range during playback.
- Still Picture Display:**
To select whether the picture type (I/P/B) is displayed on the TV screen in the still picture mode or not.
- NTSC Disc Output:**
To select whether PAL 60 signals or NTSC signals will be output during playback of NTSC discs.

- Press the cursor buttons (▲, ▼) to select the preferred value and press SELECT.

When "1 Still Mode" is selected

- Automatic:** "Field still" and "Frame still" are automatically selected in the still picture mode. (Factory preset)
- Field:** "Field still" is always selected. Select this setting when jittering occurs in the pictures even when "1 Automatic" is selected.
- Frame:** "Frame still" is always selected. Select this setting when small text or fine patterns cannot be seen clearly even when "1 Automatic" is selected.

(Continued on the next page)

Initial settings

When "2 Audio during Search" is selected

- 1 On:** Audio will be heard during search at the initial scan speed. (Factory preset)
(When audio during search at the initial scan speed is not desired, select "Off".)
- 2 Off:** Select this setting when audio during search at the initial scan speed is not desired.

When "3 TV Mode (4:3)" is selected

- 1 Pan & Scan:** The video material for a wide-screen will be played back in the Pan & Scan style on a conventional size TV.
(Factory preset)
 - Video material not formatted in the Pan & Scan style will be played back in the letterbox style. (See page 40.)
- 2 Letterbox:** The video material for a wide-screen will be played back in the letterbox style on a conventional size TV.

When "4 D. (Dynamic) Range Compression" is selected

- 1 Off:** Normal audio range is selected. (Factory preset)
- 2 On:** Select this setting to enjoy listening to dynamic sound even on a low volume.
Dynamic range is the difference in volume between the quietest and loudest sounds heard. Dynamic Compression limits level for listening at low volume. This is useful late at night, for example.
[This function only works with Dolby Digital (AC-3) DVD.]

When "5 Still Picture Display" is selected

- 1 Off:** The picture type (I/P/B) will not be displayed on the TV screen in the still picture mode.
(Factory preset)
- 2 On:** The picture type (I/P/B) will be displayed on the TV screen in the still picture mode.

When "6 NTSC Disc Output" is selected

- 1 PAL 60:** During playback of NTSC discs, PAL 60 signals will be output. (Factory preset)
Select this setting when the player is connected to a PAL TV which is capable of receiving PAL 525/60 system.
- 2 NTSC:** During playback of NTSC discs, NTSC signals will be output.
Select this setting when the player is connected to a Multi-system TV.

The screen illustrated in step 1 is displayed. Select "0" by using the cursor buttons (▲, ▼) and press SELECT to return to the initial settings screen.

Also refer to "Common procedures of initial settings" on page 30.

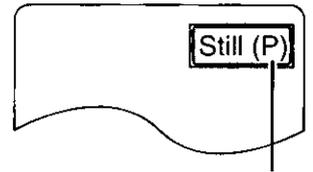
Note:

- It is recommended that the "1 PAL 60" is selected at the "6 NTSC Disc Output" when a PAL TV is connected; however, the images shown below will appear on the TV screen. Black bars appear at the top and bottom parts of the TV screen. (The picture may be compressed vertically.)



For your reference:

- When the "2 On" is selected at the "5 Still Picture Display", the following screen is displayed in the still picture mode;



Example: in the case of the P-Picture

•I/P/B:

The MPEG 2 standard adopted for DVD uses the following 3 picture types for the coding of each picture (frame) on the TV screen.

I: I-Picture (Intra coded picture)

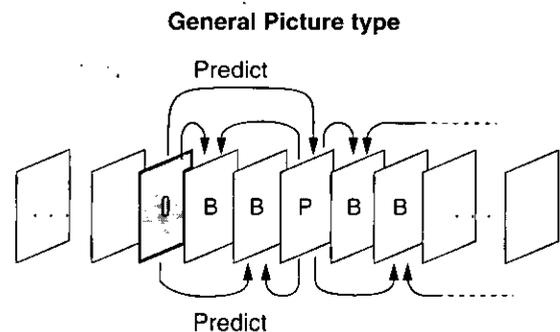
This is the standard picture type, and each picture is coded separately. Since it features the best picture quality, it is recommended that the screen be frozen with I-Picture when the picture quality is to be adjusted.

P: P-Picture (Predictive coded picture)

This picture type is computed on the basis of a past I-Picture or P-Picture.

B: B-Picture (Bidirectionally-predictive coded picture)

This picture type is computed by comparing the previous and subsequent I-Picture or P-Picture. It has the lowest volume of information.



Language code list

Enter the appropriate code number for the initial settings "Audio", "Subtitle" and/or "Menus" (see page 31).

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

Concerning images which appear on the TV screen (aspect ratios of the screen)

Images which appear on the TV screen differ depending on the type of software and the TV set connected.

Type of software	TV set connected (Screen mode)			
	4:3	16:9 ("FULL" mode)	16:9 ("ZOOM" mode)	16:9 ("AUTO" mode)
Software for wide-screen (formatted in the Pan & Scan style) 	Screen whose right and left edges are cut off 	Full screen 	Screen whose top and bottom edges are cut off 	Full screen 
Software for wide-screen (not formatted in the Pan & Scan style) 	Letterbox (with black bands at top and bottom) 			
Software (4:3) 	Full screen 	Screen horizontally enlarged 	Screen whose top and bottom edges are cut off 	Full screen (with black bands at right and left) 
Software (4:3, Letterbox) 	Letterbox (with black bands at top and bottom) 	Screen horizontally enlarged (with black bands at top and bottom) 	Full screen 	Screen in which the picture at the far left and far right ends only is extended horizontally (with black bands at top and bottom) 

•The images which appear on the TV screen, and what each screen mode is called, may differ depending on the manufacturer of the TV set or on the type of the TV set. Consult the instruction manual provided with your TV set.

For your reference:

•**Letterbox**

Black bands are inserted at the top and bottom of the screen to fill in the gaps at the top and bottom where the size of the picture is smaller than the screen.

•**Pan & Scan**

Part of the wide-screen picture (either at both sides or one side of the screen) is automatically eliminated so that the picture fills the whole screen.

Disc handling and maintenance

Handling precautions

- Hold the disc by the edges so the surface will not be soiled with fingerprints. **(A)**
Fingerprints, dirt and scratches can cause skipping and distortion.
- Do not write on the label side with a ball-point pen or other writing utensils.
- Do not use record cleaning sprays, benzine, thinner, static electricity prevention liquids or any other solvent.
- Be careful not to drop or bend the disc.
- Do not install more than 1 disc on the disc tray.
- Do not try to close the disc tray when the disc is not installed properly. **(E)**
- Be sure to store the disc in its exclusive case when not in use.

If the surface is soiled **(C)**

Wipe gently with a soft, damp (water only) cloth.

When wiping discs, always move the cloth from the center hole toward the outer edge.

(If you wipe the discs using a circular motion, circular scratches are likely to occur, which will cause noise.)

If the disc is brought from a cold to a warm environment, moisture may form on the disc

Wipe this moisture off with a soft, dry, lint-free cloth before using the disc.

Improper disc storage

You can damage discs if you store them in the following places:

- Areas exposed to direct sunlight
- Humid or dusty areas
- Areas directly exposed to a heat outlet or heating appliance

Discs which cannot be played with this player

- DVD with Region No. other than "4" or "ALL"
- DVD-ROM
- DVD-R/DVD-RAM
- CD-ROM
- VSD
- CDV
- CD-G
- CD-RW
- DVD+RW
- CVD
- SVCD
- etc.

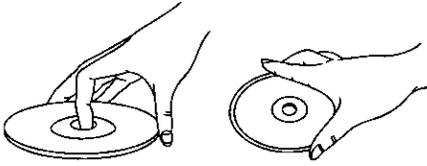
- Do not try to play Photo CD or CD-R.

(Otherwise, data on the disc may be damaged.)

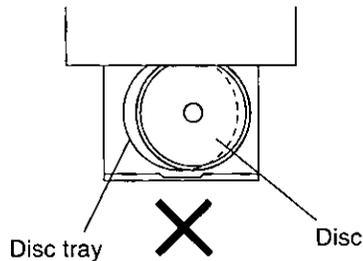
Maintenance

- Be sure to press POWER to set the player to the standby mode and disconnect the AC mains lead before maintaining the player.
- Wipe this player with a dry, soft cloth.
If the surfaces are extremely dirty, wipe clean with a cloth which has been dipped in a weak soap-and-water solution and wrung out thoroughly, and then wipe again with a dry cloth.
- Never use alcohol, benzine, thinner, cleaning fluid or other chemicals. And do not use compressed air to remove dust.

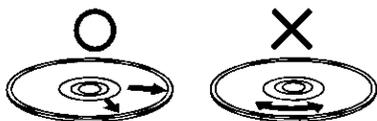
A



B



C



Troubleshooting

Before requesting service for this player, 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.

Symptom (Common)	Remedy
No power.	Insert the AC mains lead securely into the AC mains supply.
The player is automatically set to the standby mode.	To conserve power, the player is automatically set to the standby mode after approx. 30 minutes have elapsed in the stop mode (Auto power-off function). Turn the power back to ON.
<ul style="list-style-type: none"> ● Play fails to start even when PLAY is pressed. ● Play starts but then stops immediately. 	<ul style="list-style-type: none"> ● Condensation has formed: wait about 1 to 2 hours to allow the player to dry out. ● This player cannot play a disc other than DVD, Video CD and CD. ● The disc may be dirty and may require cleaning. ● Ensure that the disc is installed with the label side to be played facing upwards.
No picture.	<ul style="list-style-type: none"> ● Ensure that the equipment is connected properly. ● Ensure that the input setting for the TV is a "Video" position.
<ul style="list-style-type: none"> ● No sound. ● Distorted sound. 	<ul style="list-style-type: none"> ● Ensure that the equipment is connected properly. ● Ensure that the input settings for the TV and stereo system are correct.
Picture is distorted during rapid advance or rapid reverse.	The picture will be somewhat distorted at times: this is normal.
No key operation (by the main unit and/or the remote control unit) is effective.	<ul style="list-style-type: none"> ● Some operations may be prohibited by the disc. ● Press POWER to set the player to the standby mode and then back to ON. Alternatively, press POWER to set the player to the standby mode, disconnect the AC mains lead and then re-connect it. (The player may not be operating properly due to lightning, static electricity or some other external factor.)
No 4:3 (16:9) picture.	Choose the correct setup "6 TV Aspect" item which matches the TV set used.
No on-screen display.	The "Off" setting is selected for "1 On-Screen Messages" in "4 On-Screen Messages": select "On".
No operations can be performed with the remote control unit.	<ul style="list-style-type: none"> ● To conserve power, the player is automatically set to the standby mode after approx. 30 minutes have elapsed in the stop mode (Auto power-off function). Turn the power back to ON. ● Check the batteries are installed with the correct polarities (+ and -). ● The batteries are depleted: replace them with new ones. ● Point the remote control unit at the remote control sensor and operate. ● Operate the remote control unit at a distance of not more than 7 m from the remote control sensor. ● Remove the obstacles between the remote control unit and remote control sensor.
GUI screen not displayed or only partially displayed on the TV screen.	Change the position of the GUI screen using "2 Colour and Position" in "4 On-Screen Messages" of the initial settings.

Symptom (DVD)	Remedy
No subtitles.	<ul style="list-style-type: none"> • Subtitles appear only with discs which contain them. • Subtitles are cleared from the TV monitor. Perform the steps on page 27 to display the subtitles.
Alternative audio soundtrack (or subtitle) languages fail to be selected.	<ul style="list-style-type: none"> • 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 by operating the AUDIO or SUBTITLE button. Try selecting it from the DVD menu if one is available.
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 (when "ANGLE" lights up on the player's FL display).
Play does not start even when title is selected.	Confirm the "2 Ratings" setting.
Audio soundtrack and/or subtitle language is not the one selected at the initial settings.	If the audio soundtrack and/or subtitle language does not exist on the disc, the language selected at the initial settings will not be seen/heard.
The menu is displayed in French (example).	The setup "3 Menus" of "1 Disc Languages" is set to French: select English.
The password for rating level has been forgotten. Reset all the settings to Factory Preset.	While the player is in the stop mode, hold the player's SKIP/SEARCH (◀◀/▶▶) button and the PAUSE button down simultaneously and then hold the OPEN/CLOSE button down for longer than 3 seconds (until "Initialized" disappears from the TV monitor). The lock will be released and all initial settings will return to the default values.

Symptom (Video CD)	Remedy
No menu play.	This function works only for Video CDs with playback control.

Self-diagnosis display function

When an error or trouble is detected during operation, a service number appears in the FL display.

When a service number has appeared, check out the details given below.

Service number	Player status	Remedy
U 1 1	Disc is dirty.	Wipe the disc clean.
H □ □ □ □ stands for a number.	Trouble is likely to have occurred. The number following "H" differs depending on the status of the player.	Press POWER to set the player to the standby mode and then back to ON. Alternatively, press POWER to set the player to the standby mode, disconnect the AC mains lead, and then re-connect it.

• If the service number fails to be cleared even when the remedial action is taken, ask the service technician to repair the player.

Specifications

Power

requirements: AC 220–240 V, 50 Hz

Power

consumption: 15 W (approx. 3 W when set to the standby mode either by the power button or the remote control unit)

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

Weight: 3.2 kg

Dimensions: 430 (W)×268 (D)×94 (H) mm
(excluding protrusions)

Operating temperature range:
+5 to +35°C

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

Discs played:

(1) DVD-VIDEO disc

- 12 cm single-sided, single-layer
- 12 cm single-sided, dual-layer
- 12 cm double-sided, single-layer
- 8 cm single-sided, single-layer
- 8 cm single-sided, dual-layer
- 8 cm double-sided, single-layer

(2) Compact disc (CD-DA, VIDEO CD)

- 12 cm disc
- 8 cm disc

S video output:

Y output level: 1 Vp-p (75Ω)
C output level: 0.300 Vp-p (75Ω) (PAL)
Output connector: S terminal
Number of connectors: 1 system

Video output:

Output level: 1 Vp-p (75Ω)
Output connector: Pin jack
Number of connectors: 2 systems

Audio output:

Output level: 2 Vrms (1 kHz, 0 dB)
Output connector: Pin jack
Number of connectors: 2 systems

Audio signal output characteristics:

- (1) Frequency response:
 - DVD (linear audio): 2 Hz–22 kHz (48 kHz sampling)
2 Hz–44 kHz (96 kHz sampling)
 - CD audio: 2 Hz–20 kHz (EIAJ)
- (2) S/N ratio:
 - CD audio: 115 dB (EIAJ)
- (3) Dynamic range:
 - DVD (linear audio): 103 dB
 - CD audio: 98 dB (EIAJ)
- (4) Total harmonic distortion:
 - CD audio: 0.0025% (EIAJ)

Digital audio output:

Optical digital output: Optical connector

Pickup:

Wave length: 665 nm
Laser power: CLASS 2

Specifications are subject to change without notice.
Weight and dimensions are approximate.

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Matsushita Electric Industrial Co., Ltd.
Central P.O. Box 288, Osaka 530-8692, Japan

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Printed in Japan



VQT8075
F0299M0