

YAMAHA

DVD/VIDEO CD/CD PLAYER
LECTEUR DE DVD

DVD-S700



Before attempting to connect, operate or adjust this product, please read this Operating Instructions manual completely. Please save this manual.

Il est recommandé de lire attentivement le présent manuel avant d'utiliser l'appareil. Conserver ce manuel.

Antes de tratar de conectar, utilizar o ajustar este aparato, lea completamente estas instrucciones. Guarde este manual.

Operating Instructions Manuel d'utilisation Instrucciones de funcionamiento

Safety information

Note:

This unit can be used only where the power supply is AC 120 V, 60 Hz. It cannot be used elsewhere.

CAUTION:

DVD/VIDEO CD/CD PLAYER IS A CLASS I 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 EQUIPMENT TO RAIN OR MOISTURE.

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

THIS DEVICE IS INTENDED FOR CONTINUOUS OPERATION!

This unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this unit itself is turned off. This state is called the standby mode.
In this state, this unit is designed to consume a very small quantity of power.


CAUTION
**RISK OF ELECTRIC SHOCK
DO NOT OPEN**


CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

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 TUJOTA 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 product)

FOR CANADIAN CUSTOMERS

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT AND FULLY INSERT.

THIS CLASS B DIGITAL APPARATUS MEETS ALL REQUIREMENTS OF THE CANADIAN INTERFERENCE-CAUSING EQUIPMENT REGULATIONS.

FCC INFORMATION (U.S.A. only)

- 1. IMPORTANT NOTICE: DO NOT MODIFY THIS UNIT!** This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.
- 2. IMPORTANT:** When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product **MUST** be used. Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA.
- 3. NOTE:** This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices. Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices.

This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices.

Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures:

Relocate either this product or the device that is being affected by the interference.

Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s.

In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable.

If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corp., U.S.A. 6600 Orangethorpe Ave, Buena Park, CA 90620

The above statement apply **ONLY** to those products distributed by Yamaha Corporation of America or its subsidiaries.

We Want You Listening For A Lifetime

YAMAHA and the Electronic Industries Association's Consumer Electronics Group want you to get the most out of your equipment by playing it at a safe level. One that lets the sound come through loud and clear without annoying blaring or distortion—and, most importantly, without affecting your sensitive hearing. Since hearing damage from loud sounds is often undetectable until it is too late, YAMAHA and the Electronic Industries Association's Consumer Electronics Group recommend you to avoid prolonged exposure from excessive volume levels.



Precautions

Please read these precautions before operating this unit.

■ Power cord protection

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

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

■ Placement

Avoid placing the unit in areas of:

- direct sunlight or heating radiators, or closed automobiles
- high temperature [over 95°F (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 unit is not being used, switch the unit to the standby mode.

When left unused for a long period of time, the unit should be unplugged from the household AC outlet.

■ No fingers or other objects inside

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

■ Keep away from water and magnets.

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

■ Stacking

- Place the unit in a horizontal position, and do not place anything heavy on it.
- Do not place the unit 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 unit is moved from a cold environment to a warm one.

If moisture forms inside this unit, 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 unit is left on. This is not a malfunction of the unit or the TV. To watch a TV broadcast, switch this unit to the standby mode.

Dear Customers

May we take this opportunity to thank you for purchasing this YAMAHA DVD/VIDEO CD/CD player.

We strongly recommend that you carefully study the Operating Instructions before attempting to operate the unit and that you note the listed precautions.

The model number and serial number of this product can be found on either the back or the bottom of the unit.

Please note them in the space provided below and retain this booklet as a permanent record of your purchase to aid identification in the event of theft.

MODEL NUMBER _____
SERIAL NUMBER _____

Features

■ DVD: a completely new dimension in video entertainment

- Subtitles may be displayed in one of a maximum of 32 languages*.
- The audio soundtrack can be heard in up to 8 languages*.
- The multi-angle 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.)

*The number of the languages recorded is dependent on the software.

■ High quality digital audio

- By connecting a dts (digital theater systems) or a Dolby Digital decoder, you can enjoy high quality 5.1ch digital surround sound from dts or Dolby Digital discs.
- With the linear PCM sound of a 48 kHz/16 bit through 96 kHz/24 bit, audio quality exceeding that of CDs becomes possible.

■ Many convenient features

- On-Screen Menu Icons for showing the disc information or player information and providing access to many major functions of this unit
- Programming of up to 5 scenes in memory (markers)
- Parental lock settings to prevent play of discs unsuitable for some audiences [DVD only]

■ Compatible with Video CD and CD as well as DVD

■ Disc formats supported by this player

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



DVD
[3" (8 cm) disc/
5" (12 cm) disc]

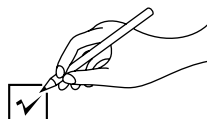


Video CD
[3" (8 cm) disc/
5" (12 cm) disc]

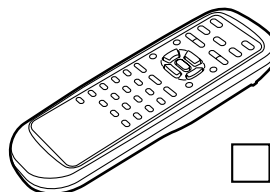


CD
[3" (8 cm) disc/
5" (12 cm) disc]

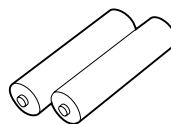
Accessories



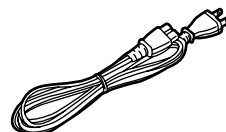
Please check and identify the supplied accessories.



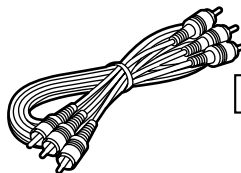
Remote control unit 1



Batteries 2
for remote control unit
[size "AA"]



AC power cord 1



Video/audio cable 1

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Initial Settings:

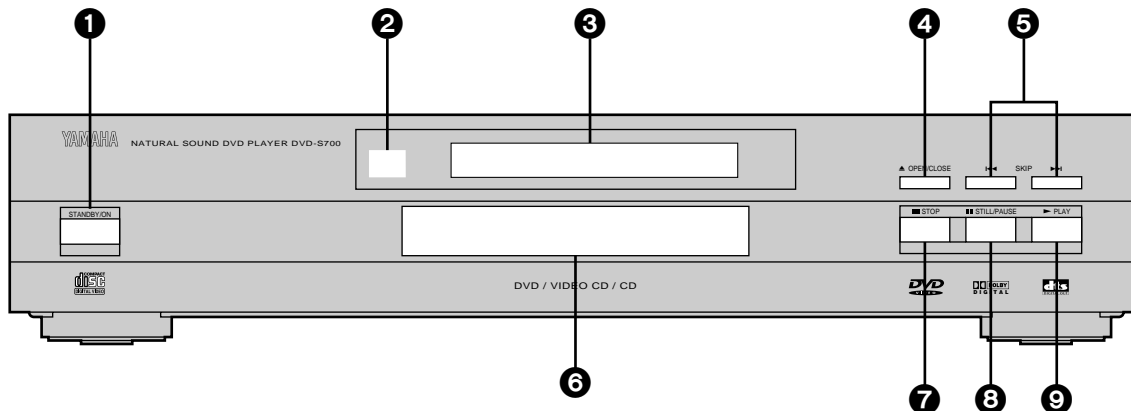
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Control reference guide

Main unit



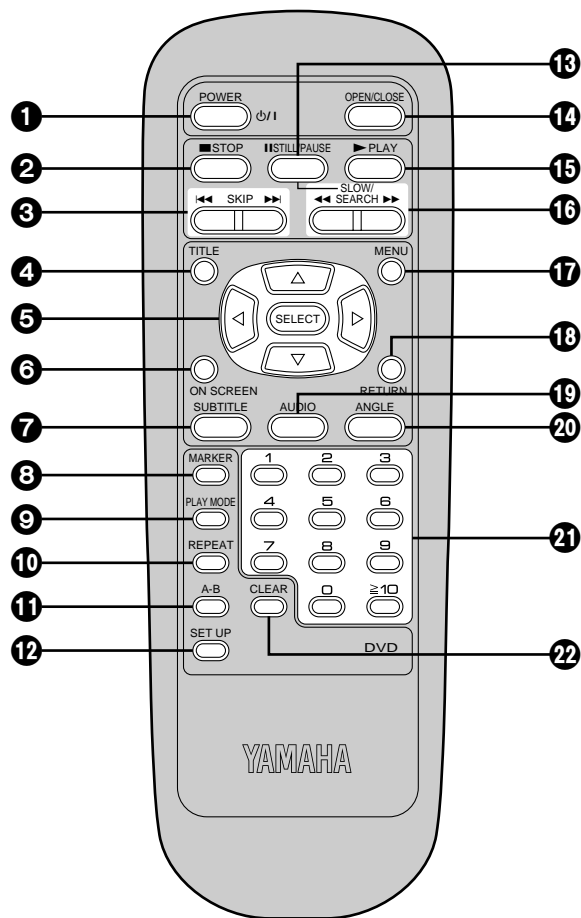
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1 STANDBY/ON button	
Press to switch the unit to ON from standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.	
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Control reference guide

Remote control unit

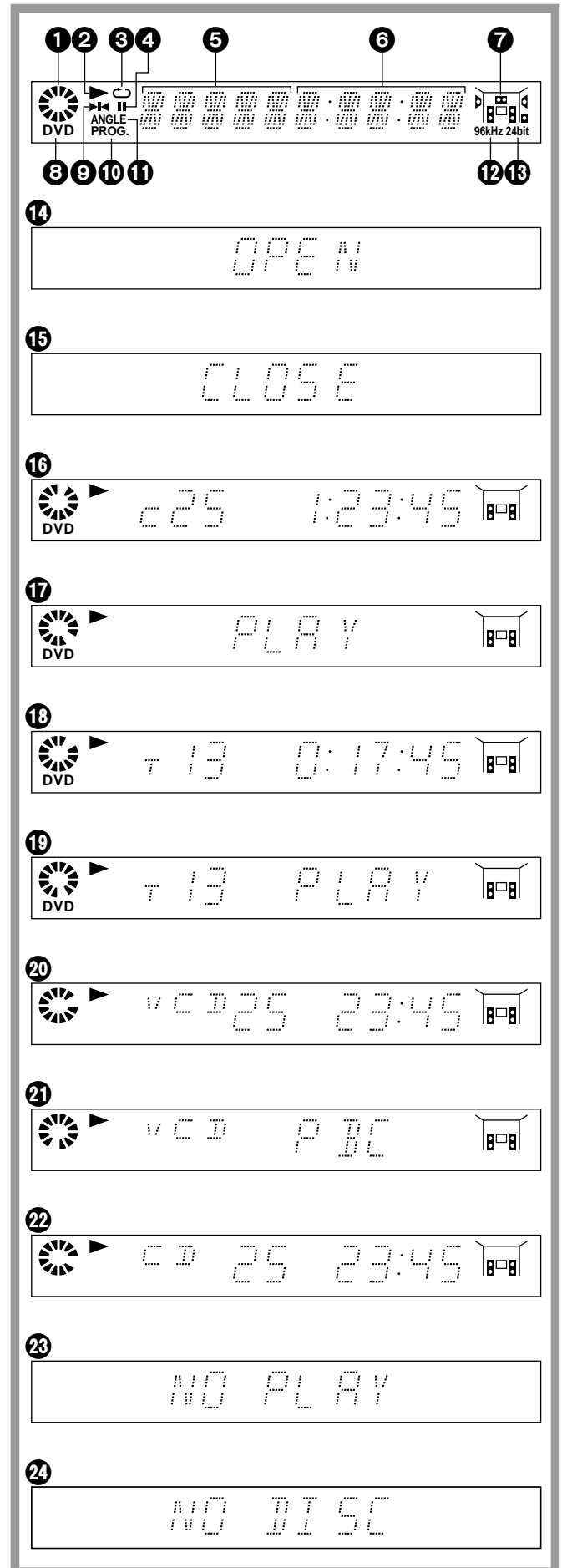
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•To select a 2-digit number	
Example: To select track 23	
Press " ≥ 10 ", "2" and then "3".	
㉒ CLEAR button	38, 46, 52, 64



Front panel display

- 1**  Rotates during play.
Rotates fast clockwise or counterclockwise during rapid advance (reverse). (See page 34.)
Rotates slowly clockwise or counterclockwise during slow-motion play.
[DVD/Video CD] (See page 36.)
-  Illuminates in the stop mode.
- 2** Illuminates during playback.
Flashes when the RESUME function is ON.
(See page 32.)
- 3** Illuminates during repeat play. (See pages 48 and 50.)
- 4** Illuminates in the pause mode. [CD] (See page 34.)
- 5** Indicates the chapter number. [DVD]
Indicates the track number. [Video CD/CD]
- 6** Indicates the total playing time when the disc tray is closed. [Video CD/CD]
Indicates the elapsed playing time from the start of the title/track during play.
- 7** Indicates the current audio channel information recorded in the disc (e.g. 2ch or 5.1ch).
- 8** Illuminates when a DVD is loaded.
- 9** Illuminates in the still picture mode.
[DVD/Video CD] (See page 34.)
- 10** Illuminates during program play. [Video CD/CD]
(See pages 44 and 46.)
- 11** Illuminates when it is possible to switch the angle.
[DVD] (See page 58.)
- 12** Illuminates when Linear PCM of 96 kHz sampling is being played.
- 13** Illuminates when Linear PCM of 24 bit is being played.
- 14** Illuminates when the disc tray is open.
- 15** Illuminates when the disc tray is being closed (retracted).
- 16** Illuminates during play of a DVD.
- 17** Illuminates during play of an interactive DVD.*
- 18** Illuminates during play of a Karaoke DVD.
- 19** Illuminates during play of an interactive Karaoke DVD.*
- 20** Illuminates during play of a Video CD.
- 21** Illuminates during play of a Video CD with playback control.
- 22** Illuminates during play of a CD.
- 23** Illuminates when playback is impossible.
•DVDs for which playback is prohibited by the setup "Ratings". (See page 66.)
•DVDs with Region No. other than "1" or "ALL".
(See page 84.)
- 24** Illuminates when no disc is loaded.

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



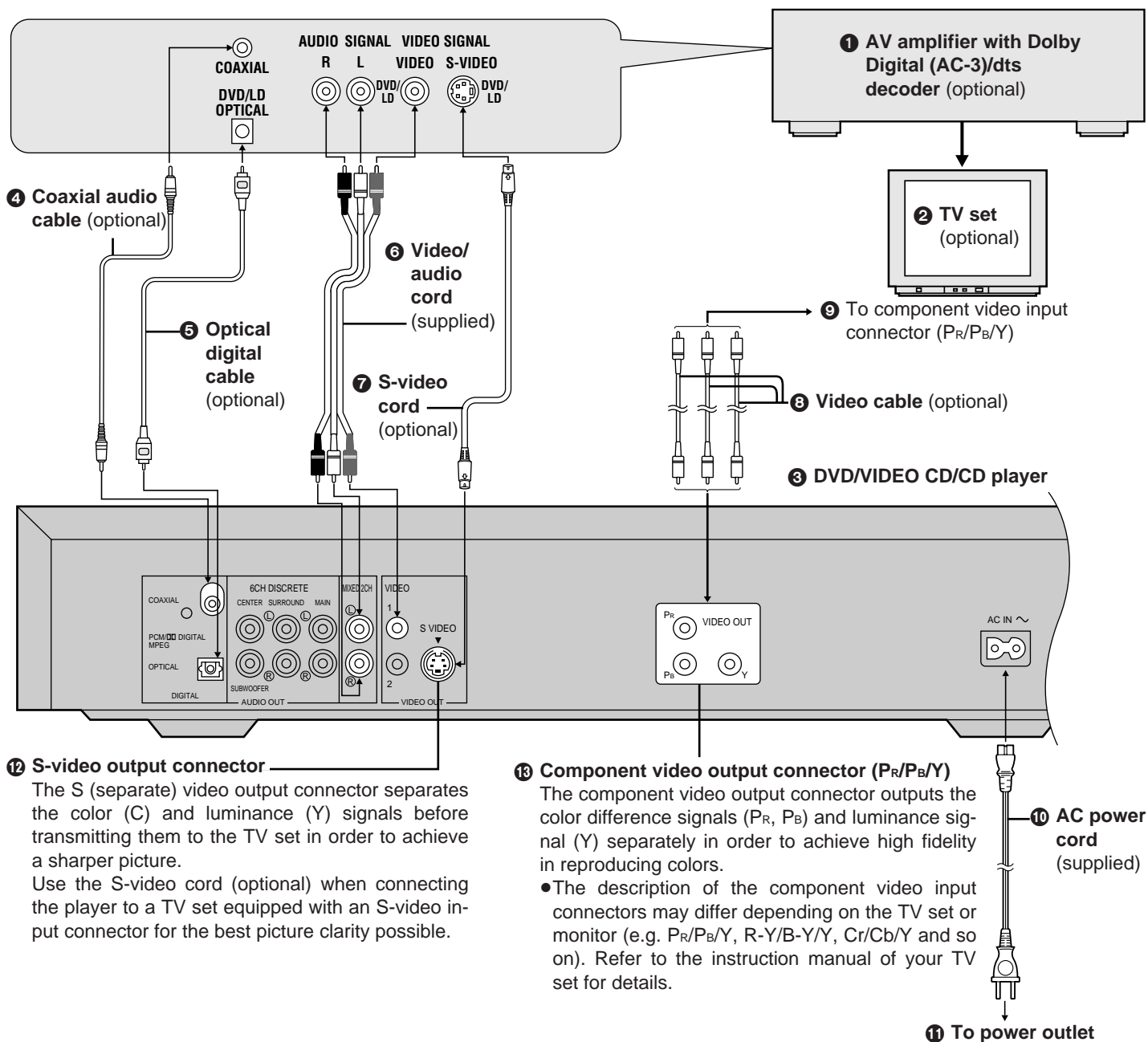
Connection

Never plug in this unit and other components until all connections are completed.

- Be sure that the colors of the connectors and plugs match up when connecting the cord.
- Read through the instructions for the equipment to be connected.

Connecting to an AV amplifier containing Dolby Digital (AC-3) or dts (digital theater systems) decoder

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 or COAXIAL 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 cable or coaxial audio cable (both optional) is required when an optional Dolby Digital decoder or dts decoder is used.]



Notes:

- During DVD play, the TV volume may be at a lower level than during TV broadcasts, etc. If this is the case, adjust the volume to the desired level.
- If the DVD player is connected to the TV through a video cassette recorder, the picture may not be played back normally with some DVDs. If this is the case, do not connect the player via the VCR.

- When the DVD player is connected to the TV set through the component video output connectors, the ON SCREEN informations from the amplifier will not show on the TV screen. To show them, select the audio/video position which has been connected to the amplifier on the TV set.

Connection

Notes when connecting the optical digital audio cable

- Remove the dust protection cap from the connector and connect the cable firmly so that the configurations of both the cable and the connector match.
- Keep the dust protection cap and to protect against dust, always re-attach the cap when not using the connector.

Concerning the audio output from the unit's optical/coaxial digital audio output connector

Disc	Sound recording format	Optical/coaxial digital audio output from connector
DVD	Dolby Digital (AC-3)	Dolby Digital bitstream (2–5.1ch) or PCM (2ch) (48 kHz/16 bit)*1
	Linear PCM (48/96 kHz 16/20/24 bit)	Linear PCM (2ch) (48 kHz sampling/16 bit only)*2 or no output*1
	dts	Bitstream or no output*1
Video CD	MPEG 1	PCM (44.1 kHz sampling)
CD	Linear PCM	Linear PCM (44.1 kHz sampling)

*1The type of audio output from the connector can be selected by the initial settings. (See page 76.)

*2Sound having 96 kHz sampling is converted into 48 kHz sampling when it is output from the unit's optical/coaxial digital audio output connector.

For your reference:

- Dolby Digital (AC-3) is a digital sound compression technique developed by the Dolby Laboratories Licensing Corporation. Supporting 5.1-channel surround sound, as well as stereo (2-channel) sound, this technique enables a large quantity of sound data to be efficiently recorded on a disc.
- Linear PCM is a signal recording format used in CDs. While CDs are recorded in 44.1 kHz/16 bit, DVDs are recorded in 48 kHz/16 bit up to 96 kHz/24 bit.
- If you have a Dolby Pro Logic Surround decoder, you will obtain the full benefit of Pro Logic from the same DVD movies that provide full 5.1-channel Dolby Digital soundtracks, as well as from titles with the Dolby Surround mark.

Caution for the optical/coaxial digital audio output connector:

■ When connecting an amplifier (with an optical/coaxial digital input connector) which contains the Dolby Digital (AC-3) or dts decoder

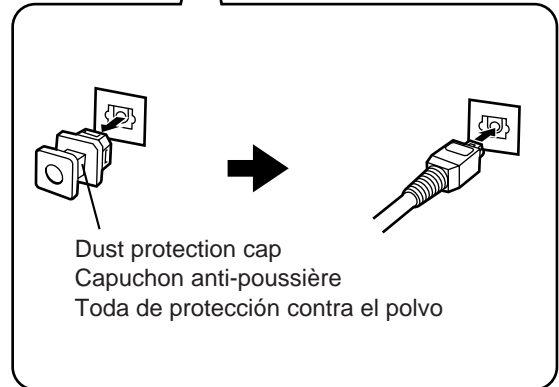
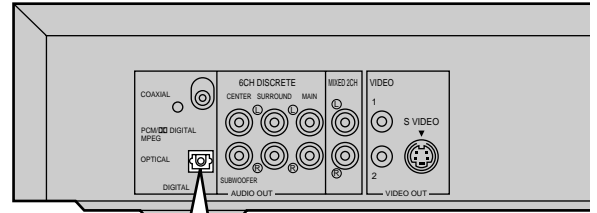
- Be sure to select "Bitstream" both at "2 Dolby Digital" and "3 dts" of the initial setting "7 Digital Audio Output". (See page 76.)

■ When connecting an amplifier (with an optical/coaxial digital input connector) which does not contain the Dolby Digital (AC-3) or dts decoder

- Be sure to select "PCM" at "2 Dolby Digital" and "Off" at "3 dts" of the initial setting "7 Digital Audio Output". (See page 76.)
- Otherwise any attempt to play DVDs may cause such a high level of noise that it may be harmful to your ears and damage your speakers.
- Video CDs and CDs can be played as they would normally be played.

Note:

- Some dts decoders which do not support DVD-dts interface may not work properly with the DVD/VIDEO CD/CD player.



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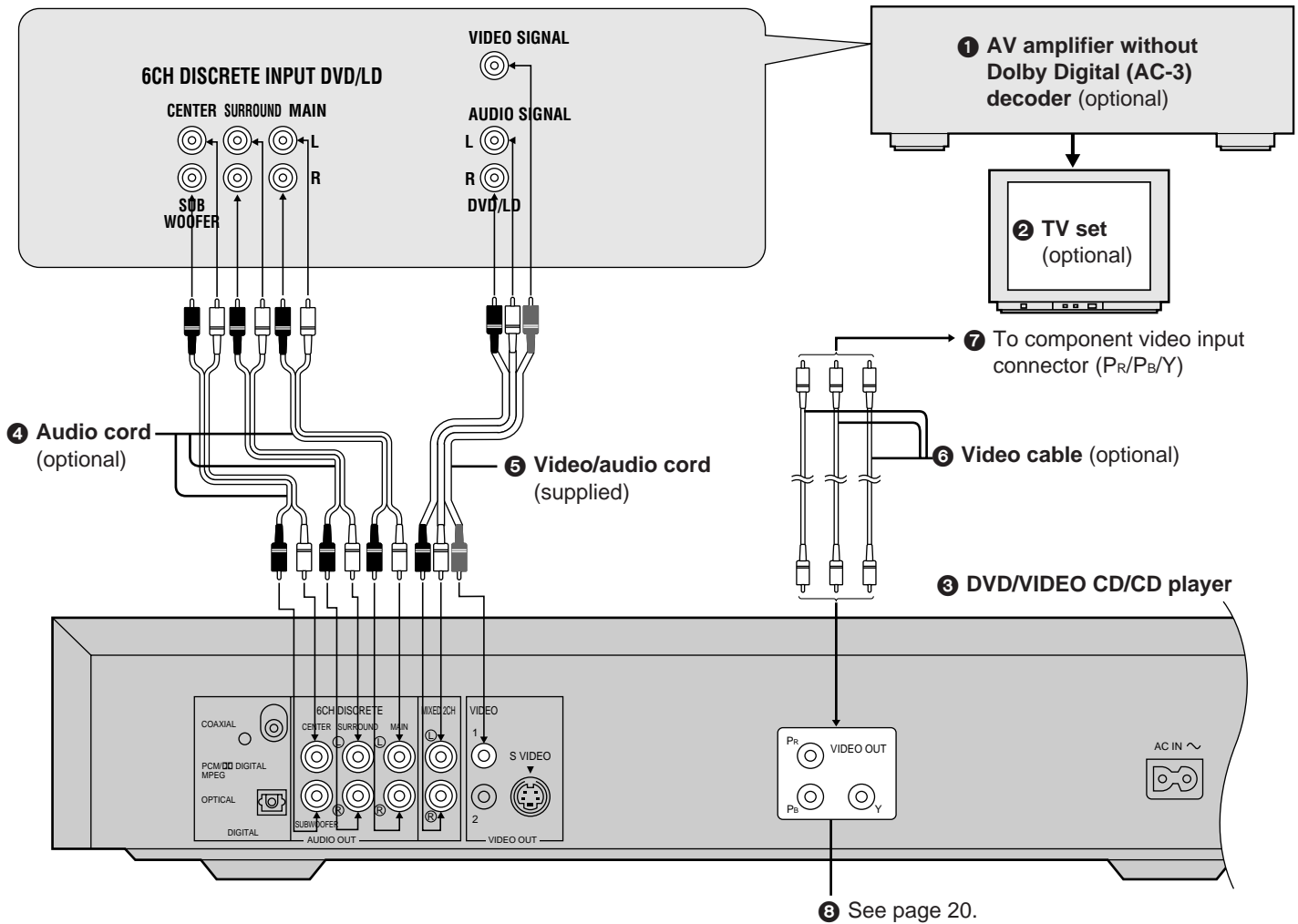
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Connection

Connecting to an AV amplifier which does not contain Dolby Digital (AC-3) decoder

This DVD/VIDEO CD/CD player contains a Dolby Digital (AC-3) decoder. This enables the playback of DVDs recorded in Dolby Digital Surround or Linear PCM without the need for an optional decoder with Dolby Digital or Linear PCM processing. When the DVD player is connected to an AV amplifier with 5.1ch input connectors, you can enjoy theater-quality audio right in your home when playing discs recorded in Dolby Digital Surround or Linear PCM.



Notes:

- After connection is made, set the "Speaker Setting" (such as Yes/No and Large/Small) according to your speaker system. (See page 78.)
- If the surround speakers or the center speaker can't be installed at an equal distance to (or further away from) the front speakers from the listening position, then change the delay time setting at the "Speaker Setting" on page 78, to compensate.

- If the surround speakers are set to "None" at the "Speaker Setting" (see page 78), the discs recorded in Linear PCM will be played back only in 2 channels even when the center speaker is connected as well as the front speakers.
- DVDs recorded in Linear PCM/96 kHz sampling in which "Center Speaker" is contained will also be played back only in 2ch.

Remote control preparation

Battery installation **A**

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

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 is used.
- If the remote control unit fails to work even when it is operated near the player, replace the batteries.
- Use size "AA" batteries.

Note:

- Do not use rechargeable (Ni-Cd) batteries.
- Do not attempt to recharge, short-circuit, disassemble, heat or throw the batteries into the 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.

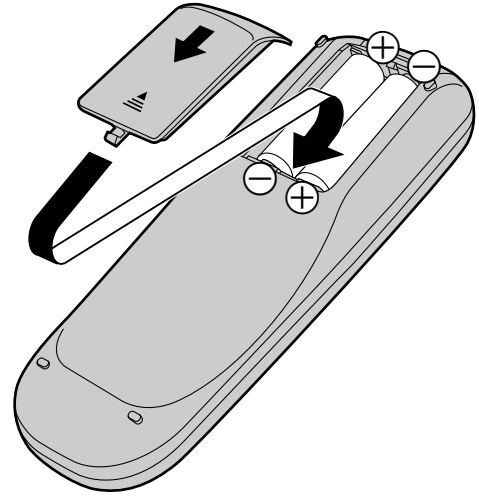
Remote control operation range **B**

Point the remote control unit from no more than about 23 feet (7 m) from the remote control sensor and within about 60° of the front of the unit.

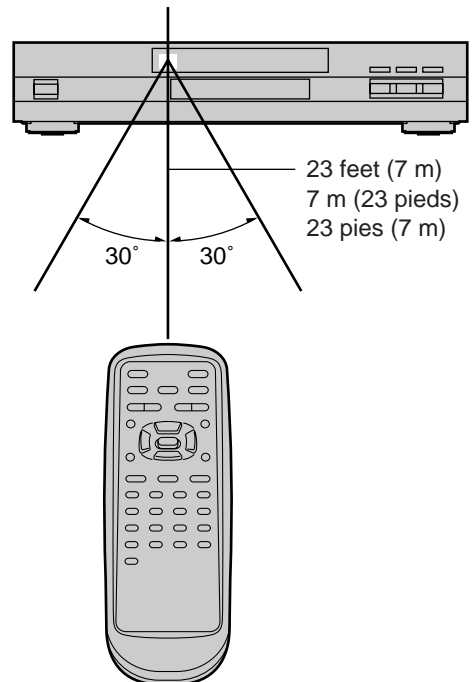
- The operating distance may vary according to the brightness of the room.

Note:

- 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.

A**B**

Remote control signal sensor
 Détecteur de signal de télécommande
 Sensor de señales del mando a distancia



Before enjoying DVD/Video CD/CD

For your convenience, the On-Screen menu language of your player has been factory pre-set to English. If you would like to change the menu language to French or Spanish, please refer to "Selecting language of On-Screen Display menu" on page 70.

Basic play

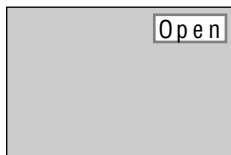
Preparations

- Switch the TV ON and select "Video" as the TV input.
- Switch on the stereo system's power if the player has been connected to a stereo system.

Basic play

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

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

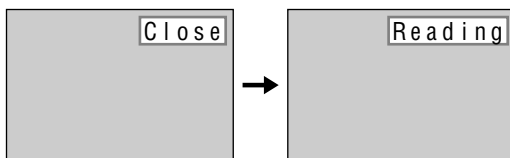


3 Place a disc onto the disc tray.

Hold the disc without touching either of its surfaces, position it with the printed title side facing up, align it with the guides, and place it in its proper position.

- ① 3" (8 cm) disc
- ② 5" (12 cm) disc

4 Press **PLAY**.

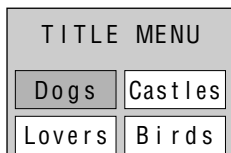


The disc tray is automatically closed and play begins.

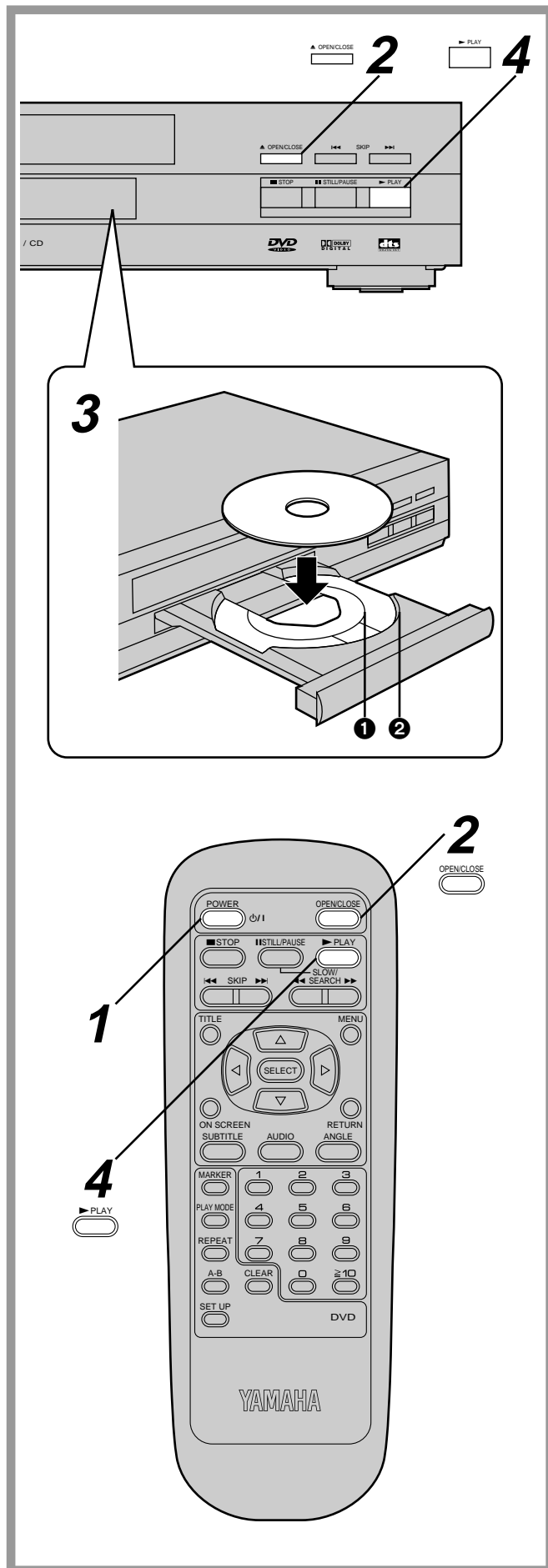
- When the disc tray is closed by pressing OPEN/CLOSE, press PLAY to start play.

• When a menu screen appears on the TV monitor

In case of interactive DVDs or Video CDs with playback control, a menu screen appears on the TV monitor. Perform step 5 on page 30 to start play.



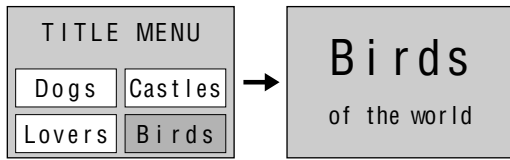
(Example of DVD)



Basic play

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

- ◀/▶/▲/▼ are not effective for selecting items for Video CDs.

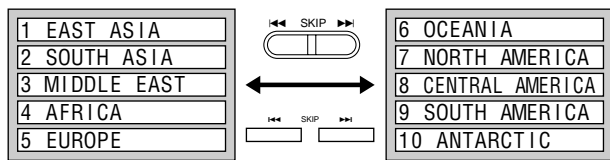


Play of the selected item now begins.

When the menu continues onto another screen

After step 4 on page 28, press SKIP ▶▶.

(SKIP buttons may not be effective depending on the disc.)



- To return to the previous menu screen Press ◀◀ SKIP.
- For operation, refer also to the jacket of the disc concerned.

Stopping play and returning to the menu screen

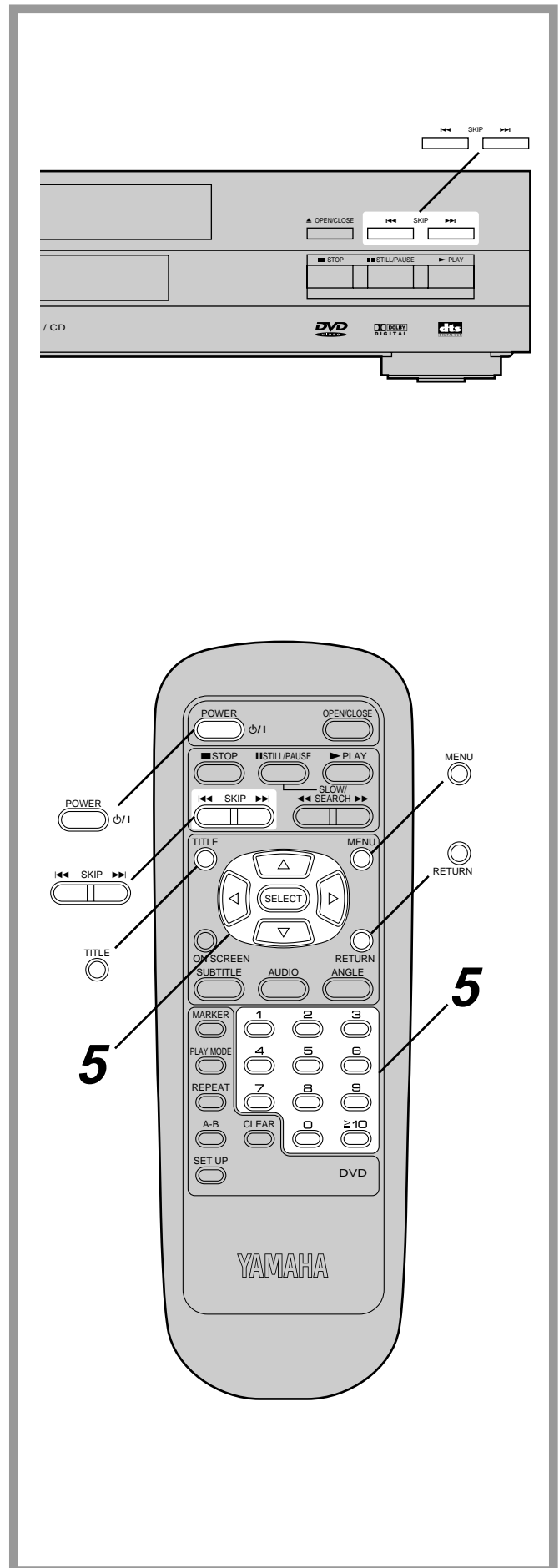
- DVD**
Press TITLE, MENU or RETURN.
(Which button is pressed differs depending on the disc used.)
- Video CD**
Press RETURN.
- Play is suspended, and the menu screen is displayed.

After operation

When the unit is not in use, remove the disc and press POWER to switch the power to the standby mode. The power will automatically be switched to the standby mode after 30 minutes or so have elapsed in the stop mode.
(Auto turn-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.




Basic play

Note:

- 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 the STOP button to clear the menu display.
- If the disc is placed in upside down (and it is a single sided disc), the DVD display will indicate "NO DISC".

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.

For your convenience:

- When play is stopped, the unit records the point where STOP was pressed (**RESUME function**). ("▶" flashes on the unit's display when this function is activated.) Press PLAY again, and play will resume from this point. When the tray is opened or STOP is pressed again, the RESUME function will be cleared.

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

This feature will not be cleared when the power is switched to the standby mode.

Skipping ahead or back

Skipping ahead

Press SKIP ►► during play.

A chapter (DVD) or a track (Video CD/CD) is skipped each time the button is pressed.

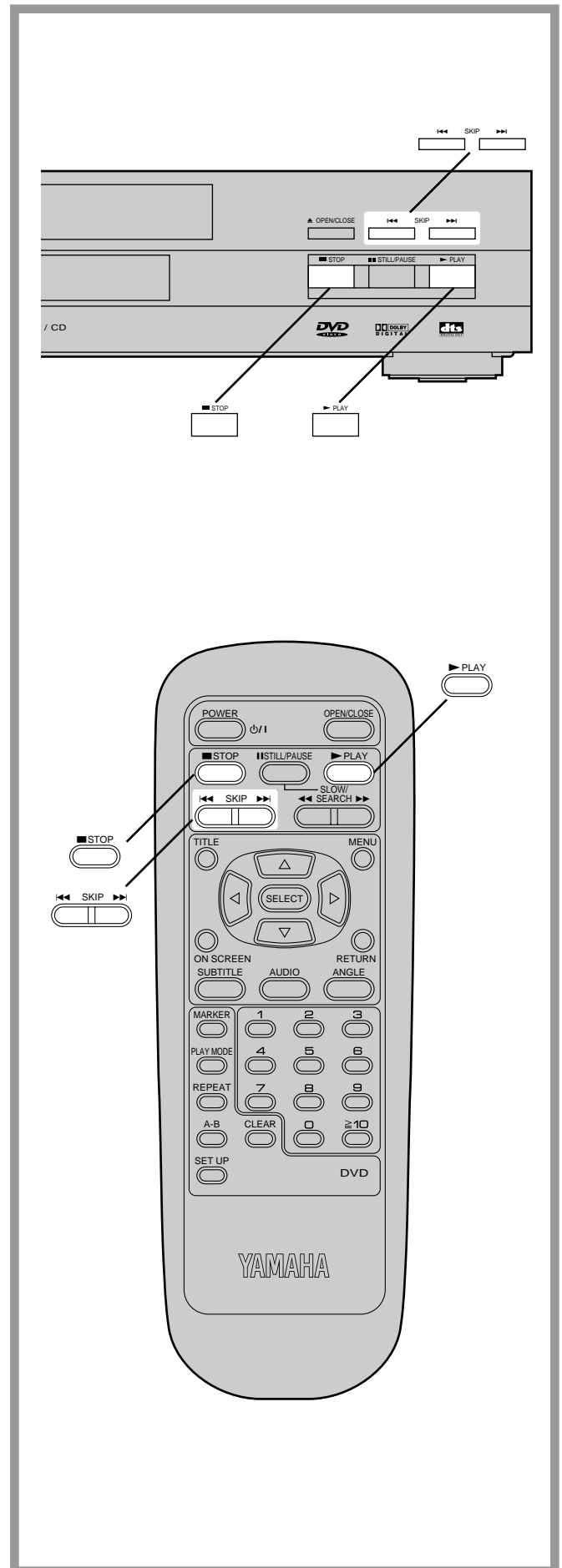
Skipping back

Press ◀◀ SKIP during play.

When the button 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.

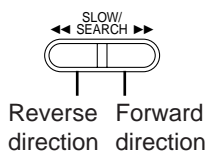
For your reference:

- When ◀◀ SKIP ►► is pressed during menu play of Video CDs, a menu screen may sometimes be recalled.



Rapid advance (Rapid reverse)

Press SLOW/SEARCH ◀◀ or ▶▶ during play.



(Example)

Note:

- Sounds are heard during rapid advance at speed 1. (See page 82.)

For your reference:

- When SLOW/SEARCH or SEARCH is used during menu play of Video CDs, a menu screen may sometimes be recalled.

Still picture (Pause)

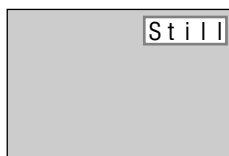
Press STILL/PAUSE during play.

•DVD/Video CD:

The player will be placed in the still picture mode.

•CD:

The player will be placed in the pause mode.



[DVD/Video CD]

To return to normal play

Press PLAY.

Frame advance [DVD/Video CD]

Press STILL/PAUSE in the still picture mode.

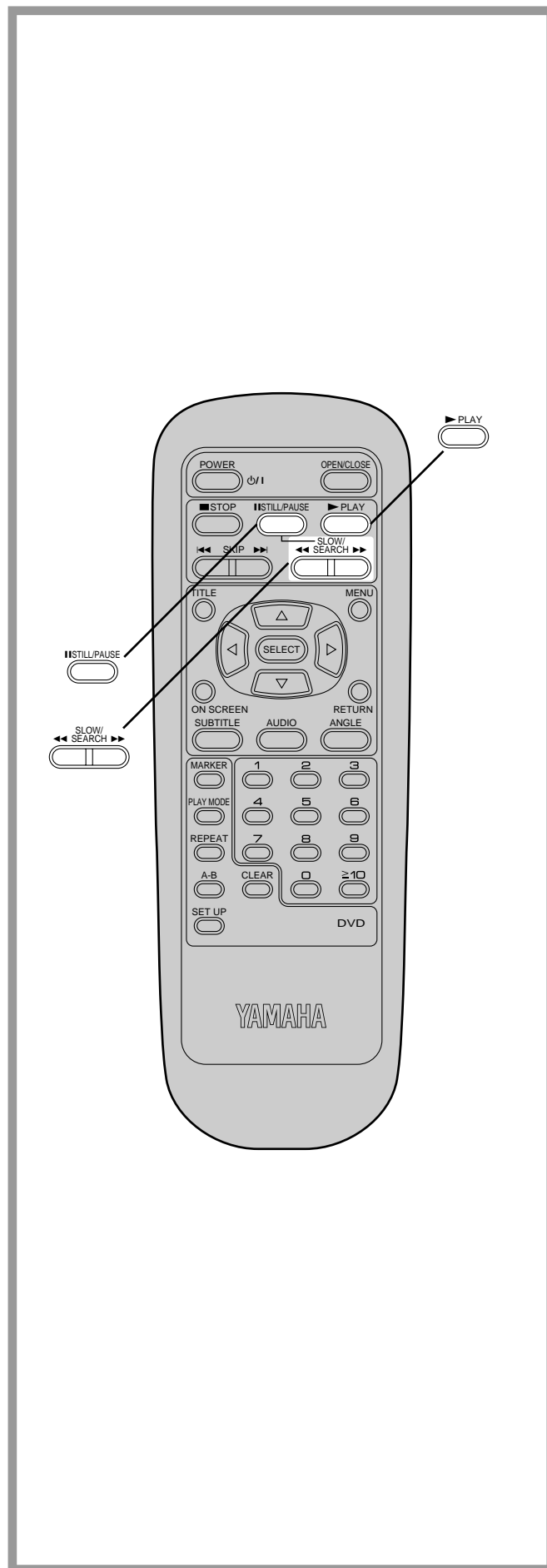
The disc is advanced by one frame each time the button is pressed.

To return to normal play

Press PLAY.

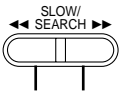
Note:

- Whether the pictures are advanced by a “frame” or “field” is automatic. (See page 82.)



Slow-motion play [DVD/Video CD]

Press **SLOW/SEARCH** ◀◀ or ▶▶ in the still picture mode. (See page 34.)



Reverse direction Forward direction



(Example)

- 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.)

To return to normal play

Press **PLAY**.

For your reference:

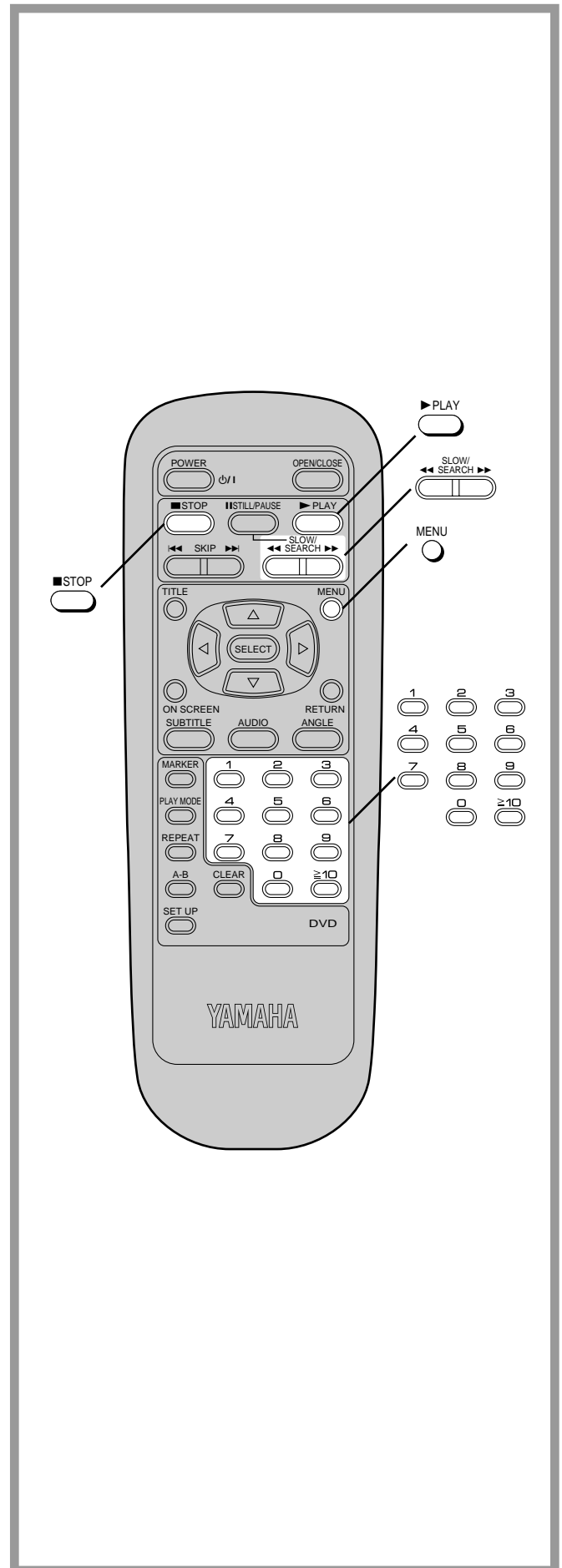
- For Video CDs, slow-motion playback in reverse direction is not possible.

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

1. Press **STOP** after the menu screen appears (after step 4 on page 28).
("PBC" will be cleared from the unit's display.)
2. Press the numeric button(s) 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 unit's display and the menu screen is resumed.)
Perform step 5 on page 30.



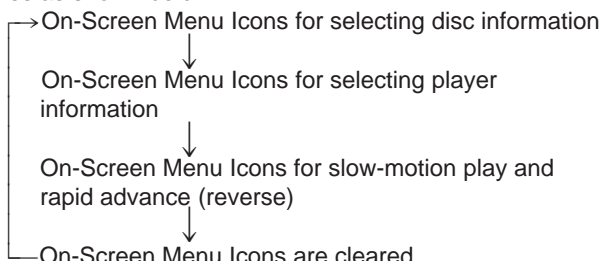
General information about On-Screen Menu Icons

This unit features On-Screen Menu Icons showing disc information (title/chapter/track number, elapsed playing time, audio/subtitle language, and angle) and player information (repeat play, play mode, marker, Karaoke vocal ON/OFF, etc.). Some icons only show the indicated information. Other icons allow the settings to be changed.

Common procedures **A**

1 Press ON SCREEN 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 ◀/▶ to select the preferred item.

- The currently selected item is indicated by the yellow frame on the On-Screen Menu Icons.

3 Press ▲/▼ to select the preferred setting.

- When numbers are displayed (e.g. title No.), the numeric buttons are also effective for setting instead of ▲/▼.
- For some functions, the setting will be registered immediately; for others, SELECT must be pressed.

Press ON SCREEN, RETURN or CLEAR to clear the On-Screen Menu Icons.

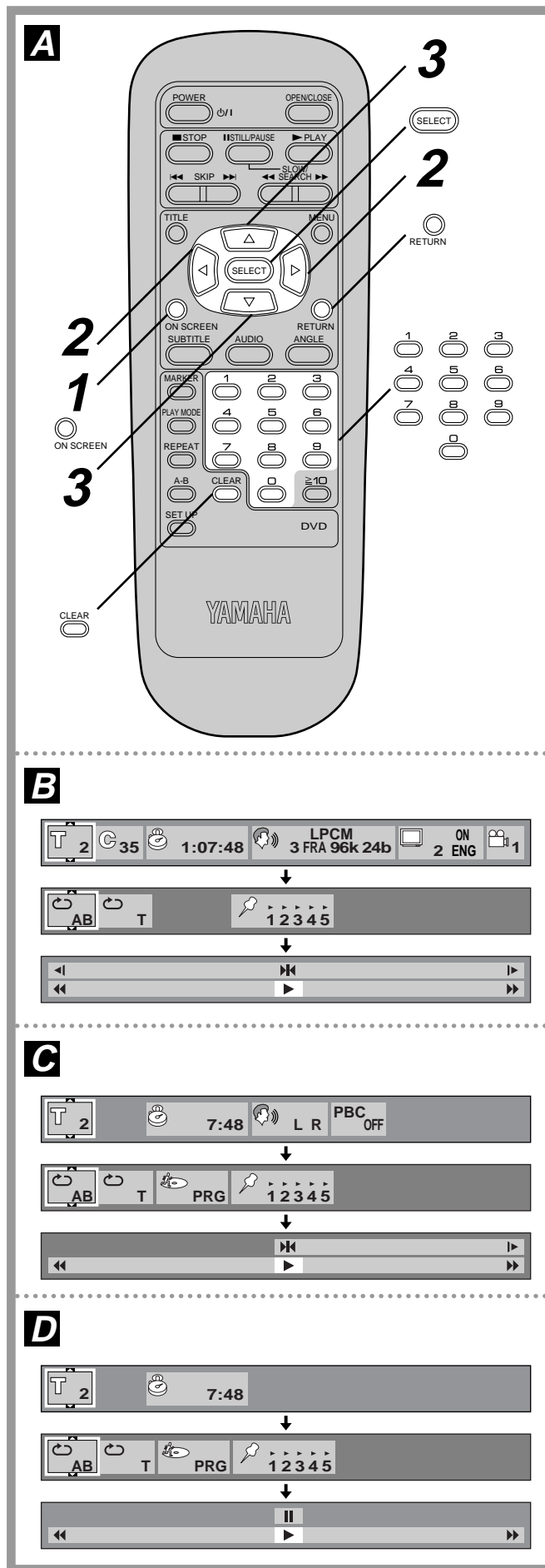
Examples of On-Screen Menu Icons

(See **B**, **C** and **D** for detailed illustration.)
(The screens may differ depending on the disc contents.)

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


For your reference:

- Depending on the type of DVD software and a TV with automatic picture zoom function enabled, the On-Screen Menu Icons may not be displayed or only partially displayed on the TV screen.
In this case, select the appropriate TV Screen type by consulting the operation manual of the TV.



Detailed descriptions of each On-Screen Menu Icon

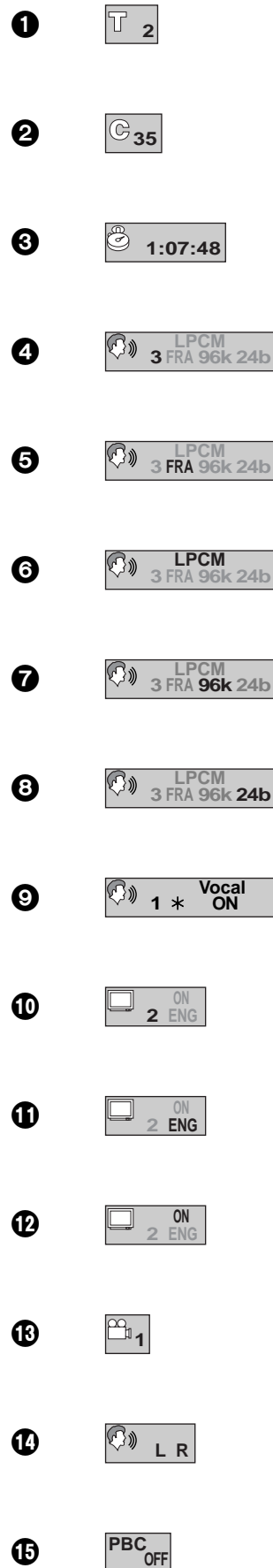
On-Screen Menu Icons for disc information

No.	Remarks	Changing method
①	To show the current title No. [DVD] or track No. [Video CD/CD] and to jump to the desired title No. or track No.* ¹	▲ ▼ or Numeric/SELECT
②	To show the current chapter No. or to jump to the desired chapter No. [DVD only]	▲ ▼ or Numeric/SELECT
③	To show the elapsed time and to directly select scenes by the elapsed time* ² [DVD] or to show the elapsed time [Video CD/CD]	Numeric/SELECT
④	To show the current audio soundtrack language No. and to change to the desired one [DVD only] (See page 56.)	▲ ▼ or Numeric
⑤	To show the audio soundtrack language selected using the above icon [DVD only]	—
⑥	To show the audio attribute (type) of the disc currently being played [DVD only] ●LPCM (Linear PCM), dts or  [Dolby Digital (AC-3)]	—
⑦	To show the audio attribute (sampling frequency or channel No.) of the disc currently being played [DVD only] ●For Linear PCM disc: 48 kHz or 96 kHz ●For Dolby Digital (AC-3) disc: 1ch to 5.1ch ●For dts disc: 1ch to 5.1ch	—
⑧	To show the audio attribute (bit No.) of the disc currently being played [DVD only] ●For Linear PCM disc: 16 bit to 24 bit	—
⑨	To show the number of recorded vocals [DVD Karaoke only] (See page 56.) ●1 vocal: ON or "----" (OFF) ●2 vocals: V1+V2, V1, V2 or "----" (OFF)	—
⑩	To show the current subtitles language No. and to change to the desired one [DVD only] (See page 54.)	▲ ▼ or Numeric
⑪	To show the subtitle language selected using the above icon [DVD only]	—
⑫	To display/clear subtitles [DVD only] (See page 54.)	▲ ▼
⑬	To show the current angle No. and to change to the desired one [DVD only] (See page 58.)	▲ ▼ or Numeric
⑭	To select the audio mode [Video CD only] (See page 56.) ●LR, L or R	▲ ▼
⑮	To show whether Video CD menu play is ON or OFF [Video CD with playback control only] (See pages 28, 30 and 36.)	—

●“▲ ▼” means pressing ▲/▼ and “Numeric” means pressing the numeric button on the remote control.

*¹The track number cannot be selected during menu play of the Video CD.

*²This function does not work with some DVDs.



Detailed descriptions of each On-Screen Menu Icon

For your reference:

- For the language abbreviations used for the audio soundtrack and subtitle language icons, see the table **A**.

On-Screen Menu Icons for player information **B**

No.	Remarks	Changing method
^{※1} 1	To start A-B repeat play (See page 50.)	SELECT
^{※1} 2	To select the repeat play mode (See page 48.) • C (chapter repeat), T (title repeat) or OFF (normal play) [DVD] • T (track repeat), A (disc repeat) or OFF (normal play) [Video CD/CD]	▲ ▼
3	To show the current play mode [Video CD/CD only] (See pages 44 and 46.) • “----” (normal play), PRG (program play) or RND (random play)	—
^{※1} 4	To store a marker ----- To recall a marker ----- To clear a marker ----- (See page 52.)	SELECT ◀▶→▲ ◀▶ →CLEAR

- “◀▶ ▲▼” means pressing ◀/▶/▲/▼ on the remote control.

^{※1}This function does not work with an interactive DVD or during menu play of Video CD.

On-Screen Menu Icons for slow-motion play and rapid advance (reverse) **C**

1 Still/Pause

Press ▲ to select “▶◀”.

2 Slow-motion play

Press ◀/▶.*

◀I: Backward [DVD only]

I▶: Forward [DVD/Video CD only]

3 Play

Press ▼ to select “▶”.

4 Rapid reverse/advance

Press ◀ (Backward)/▶ (Forward).*

*Each time the button is pressed, the speed increases up to 5 steps.

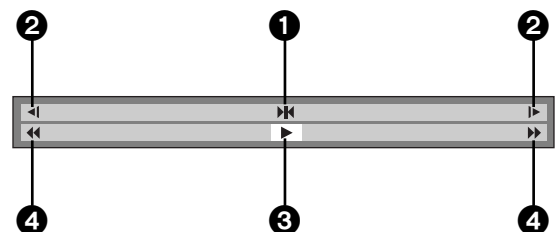
A

ENG	English/Anglais/Inglés
FRA	French/Français/Français
DEU	German/Allemand/Alem'an
ITA	Italian/Italien/Italiano
ESP	Spanish/Espagnol/Español
NLD	Dutch/Hollandais/Holandés
SVE	Swedish/Suédais/Sueco
NOR	Norwegian/Norvégien/Noruego
DAN	Danish/Danois/Danés
POR	Portuguese/Portugais/Portugués
RUS	Russian/Russe/Ruso
JPN	Japanese/Japonais/Japonés
CHI	Chinese/Chinois/Chino
KOR	Korean/Coréen/Coreano
MAL	Malay/Malais/Malayo
VIE	Vietnamese/Vietnamien/Vietnamita
THA	Thai/Thailandais/Tailandés
*	Others/Autres/Otros

B



C

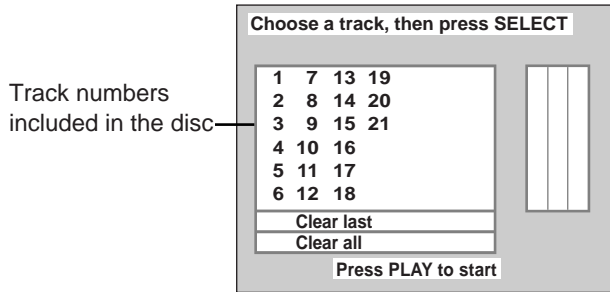


Program play [Video CD/CD]

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

1 Press PLAY MODE in the stop mode.

The program playback screen appears on the TV monitor.

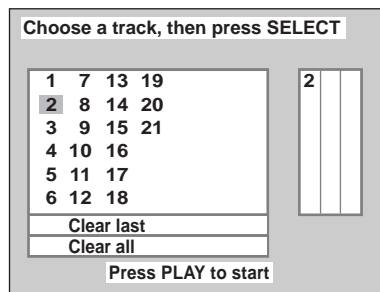


•To exit the screen

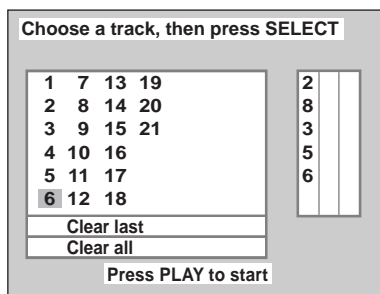
Press PLAY MODE twice.

2 Press ◀/▶/▲/▼ and press SELECT, or press the numeric button(s), to select the preferred track number.

The selected track is stored in the memory.



- Repeat step 2 to select another track.
- Up to 18 tracks can be programmed.

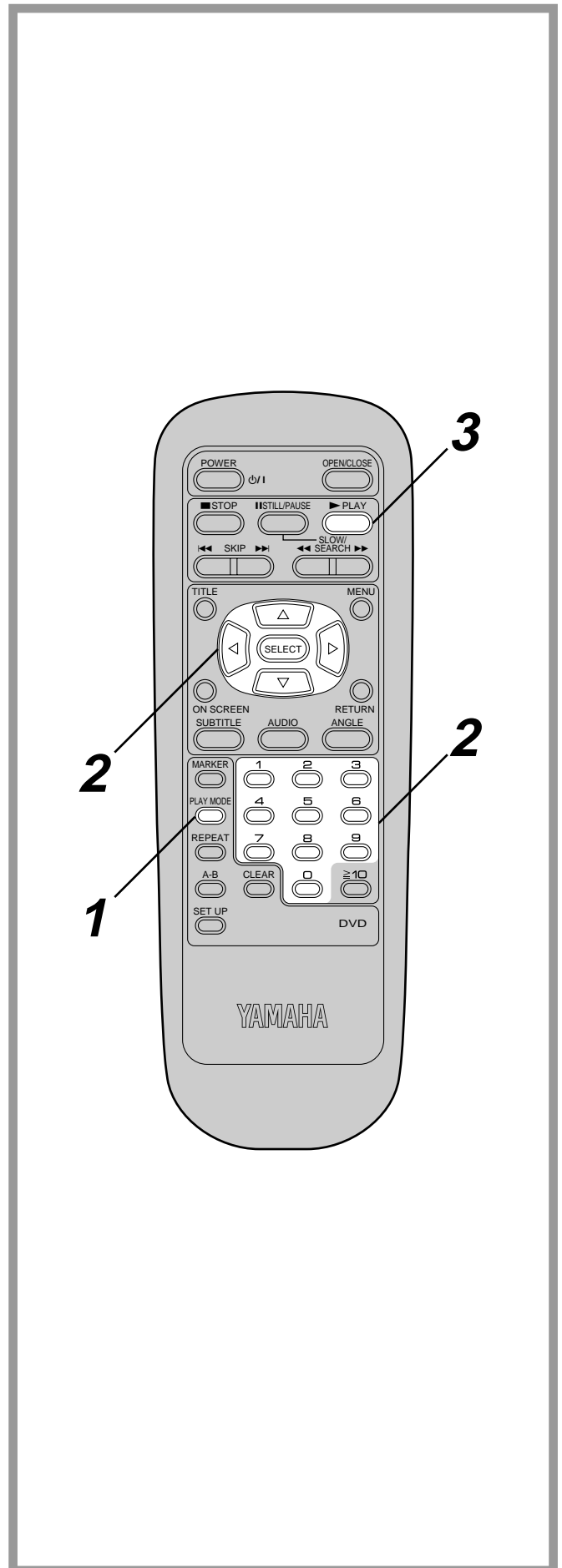


3 Press PLAY.

Play now begins in the programmed sequence.

After playback

Play is stopped and the program playback screen is displayed.



Program play [Video CD/CD]

Returning to normal play

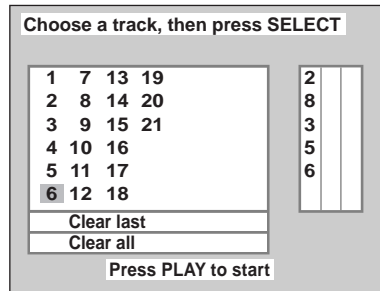
1. Press STOP. (Program play is suspended.)
2. Press PLAY MODE twice.
3. Press PLAY.

Normal play begins.

(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 CLEAR 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 power is turned off or the disc is removed.)

Random play [Video CD/CD]

The player plays the tracks in 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.

2 Press PLAY.

Play now begins in random order.

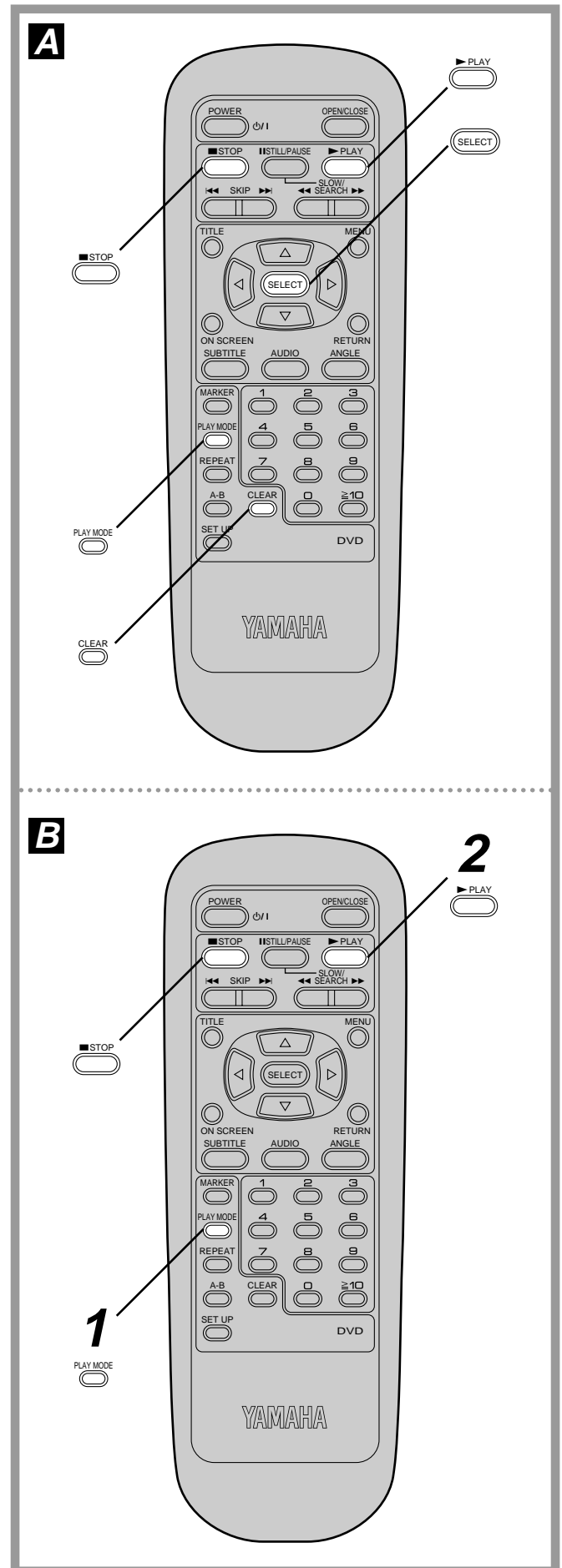
After playback

Play is stopped and the random playback screen is displayed.

Returning to normal play

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

Normal play begins.



Repeat play

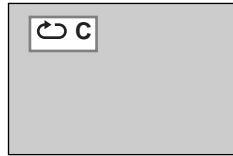
Repeat viewing (listening)

Press REPEAT during play.

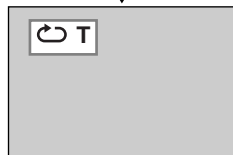
Each time this button is pressed, the TV monitor changes as shown below and the disc will repeat a chapter or title (DVD) or a track (Video CD/CD).

•DVD

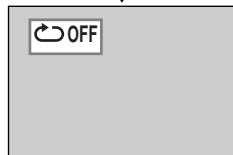
Repeat of chapter being played



Repeat of title being played



Cancel repeat mode
(Normal play)

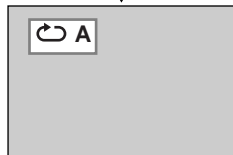


•Video CD/CD

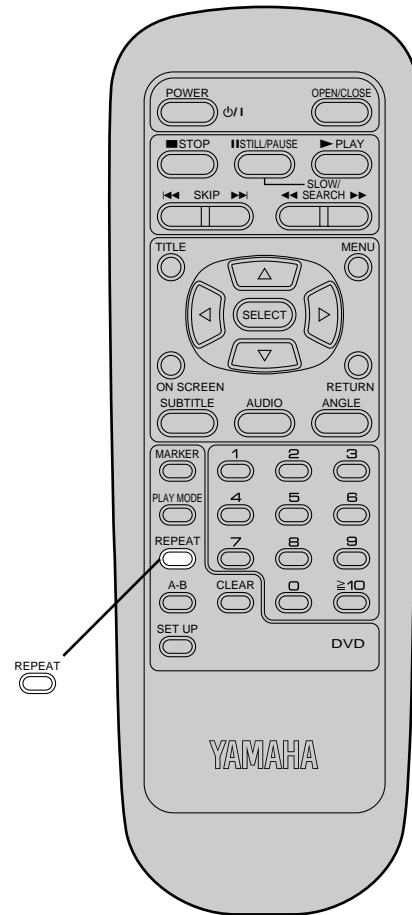
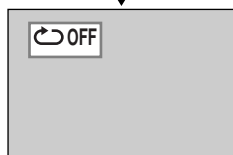
Repeat of track being played



Repeat of entire disc contents



Cancel repeat mode
(Normal play)



To return to normal play

Press REPEAT several times until "OFF" is displayed.

Note:

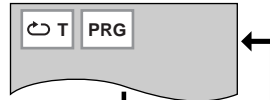
- Repeat play works only with discs for which the elapsed playing time appears on the unit's display during playback.
- Repeat play may not work correctly with some DVDs.

Repeat play

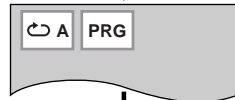
To enjoy program repeat play **A**

If REPEAT is pressed during program play (see pages 44 and 46), the display changes as follows:

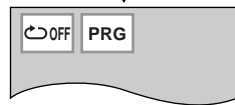
Repeat of programmed track being played



Repeat of all programs

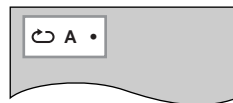


Cancel repeat mode (Normal program play)

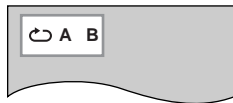


Repeating sections between two specific points (A-B repeat) **B**

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



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



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

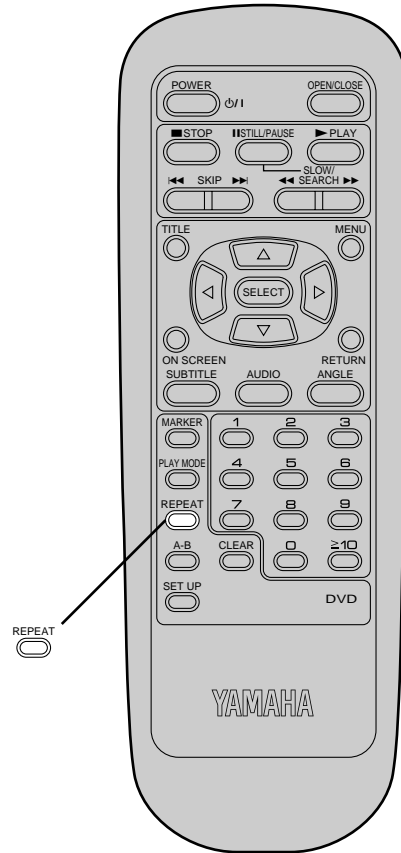
To return to normal play

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

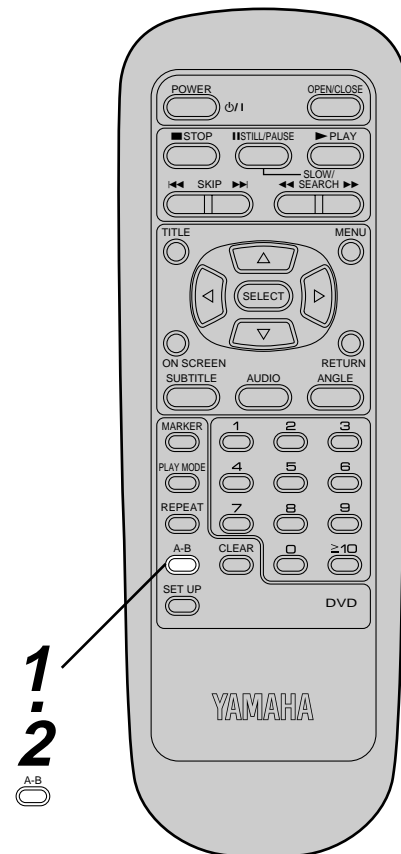
Note:

- A-B repeat play works only within a title [DVD] or a track [Video CD/CD].
- A-B repeat play works only with discs for which the elapsed playing time appears on the unit's display during playback.
- Some subtitles recorded around point A or B may fail to appear. [DVD]

A



B

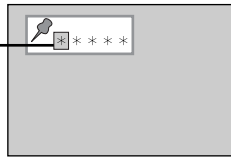


Storing markers in memory to be viewed (listened to) again

Storing a marker in the memory **A**

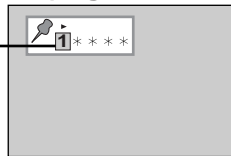
1 Press **MARKER** during play.

"*" 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.)

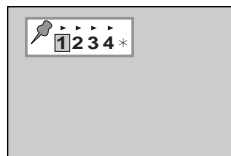


Up to 5 markers can be stored in the memory.

- To store markers 2 to 5, press ◀/▶ to move to "*" and press SELECT.
- Press MARKER to clear the display.

Recalling/clearing a marker **B**

1 Press **MARKER** during play.



2 Press ◀/▶ to select the marker to be recalled/cleared.



3 Press ▲ to recall a marker.

or
Press **CLEAR** to clear a marker.

Play resumes from the point corresponding to the selected marker. (The display will be cleared automatically.)

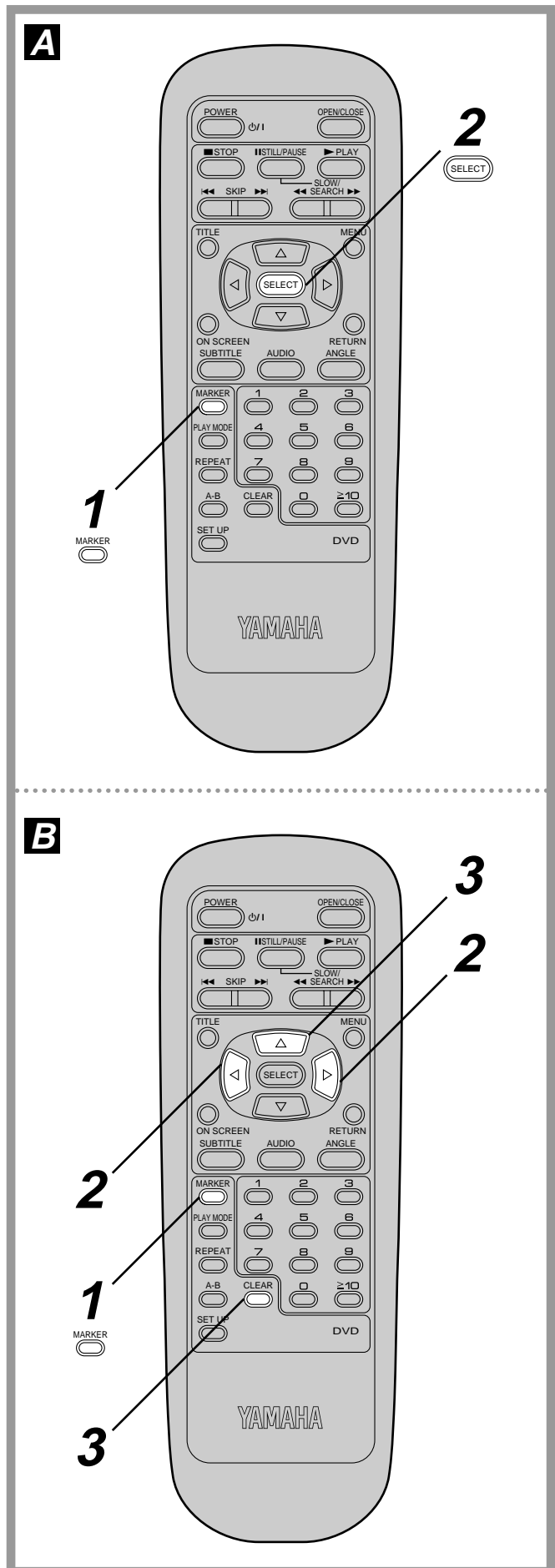
or
The selected marker is cleared. (Press MARKER to clear the display.)

Note:

- These operations work only with discs for which the elapsed playing time appears on the unit's display during playback.
- Some subtitles recorded around the marker may fail to appear. [DVD]

For your reference:

- All the markers are cleared when the unit is switched to the standby mode or the disc tray is opened.



Changing subtitle language

[DVD only]

It is possible to change the subtitle language to a different language from the one selected at the initial settings.

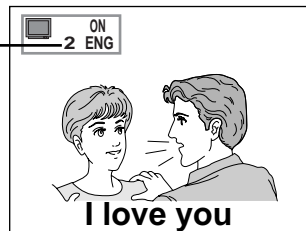
(If available. See page 64.)

(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 ▲/▼ until the preferred language is selected.

Pressing the numeric button(s) also changes the subtitle language.



- Press SUBTITLE or SELECT to clear the display.

To clear/display the subtitles

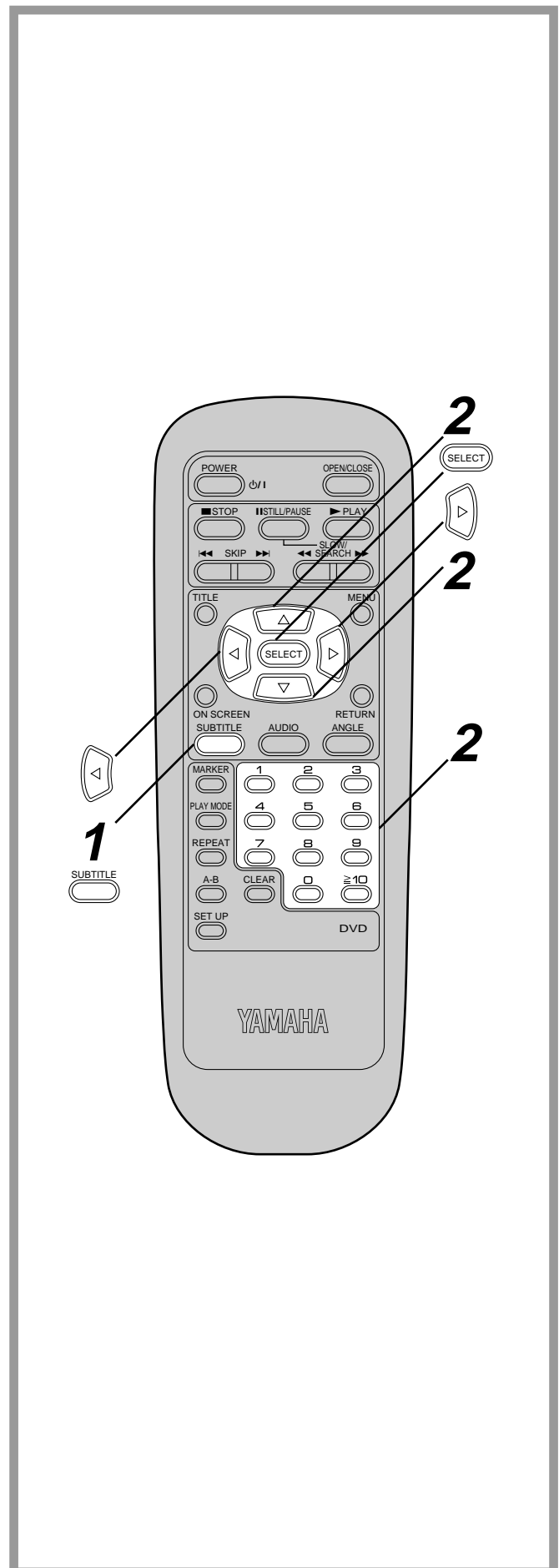
Press ◀▶ to select ON or OFF at step 2.

Note:

- In some cases, the subtitle language is not changed to the selected one immediately.
- When a disc supporting the closed caption is played, the subtitle and the closed caption may overlap each other on the TV monitor. In this case, turn the subtitle off.

For your reference:

- When the preferred language is not selected even after pressing the button several times, it means that the language is not available on the disc.
- When the unit is switched to the standby mode or the disc tray is opened, 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.



Changing audio soundtrack language [DVD only]

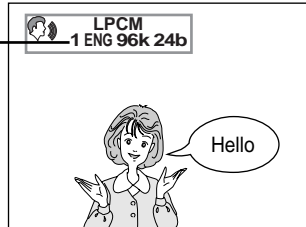
It is possible to change the audio soundtrack language to a different language from the one selected at the initial settings. (If available. See page 64.)

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

1 Press AUDIO during play.

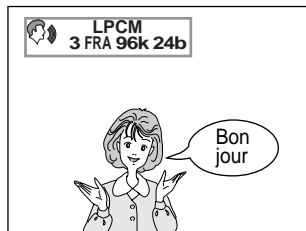
- When no audio soundtrack is recorded, “-” will be displayed instead of the language number.

Number of the audio soundtrack language being played back.



2 Press ▲/▼ until the preferred language is selected.

Pressing the numeric button(s) also changes the audio soundtrack language.



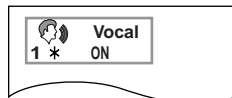
- Press AUDIO or SELECT to clear the display.

For your reference:

- When the preferred language is not selected even after pressing the button several times, it means that language is not available on the disc.
- When the unit is switched to the standby mode or the disc tray is opened, 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 ◀/▶ until the preferred setting is selected.

- DVD Karaoke (1 vocal)
ON ↔ ---- (OFF)



- DVD Karaoke (2 vocals)
1+2 → V1 → V2 → ---- (OFF)

- Video CD
LR → L → R

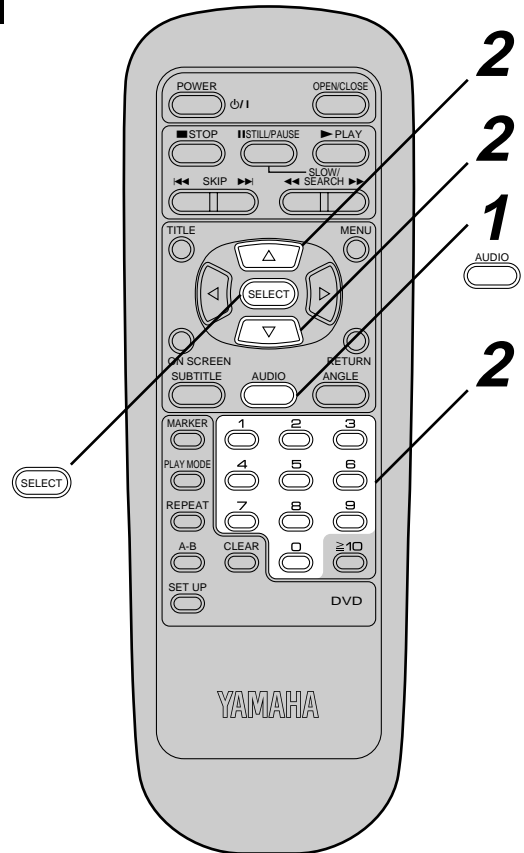


- Press AUDIO or SELECT to clear the display.

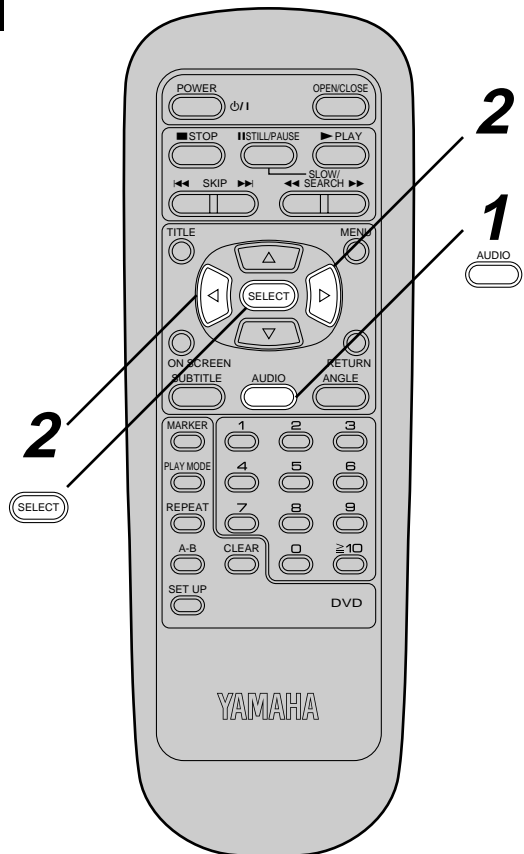
Note:

- This operation does not work with CDs.

A



B



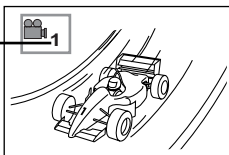
Viewing from another angle

[DVD only] 

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.)

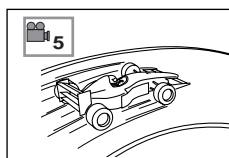
1 Press ANGLE during play.

Number of angle being played back.



2 Press ▲/▼ until the preferred angle is selected.

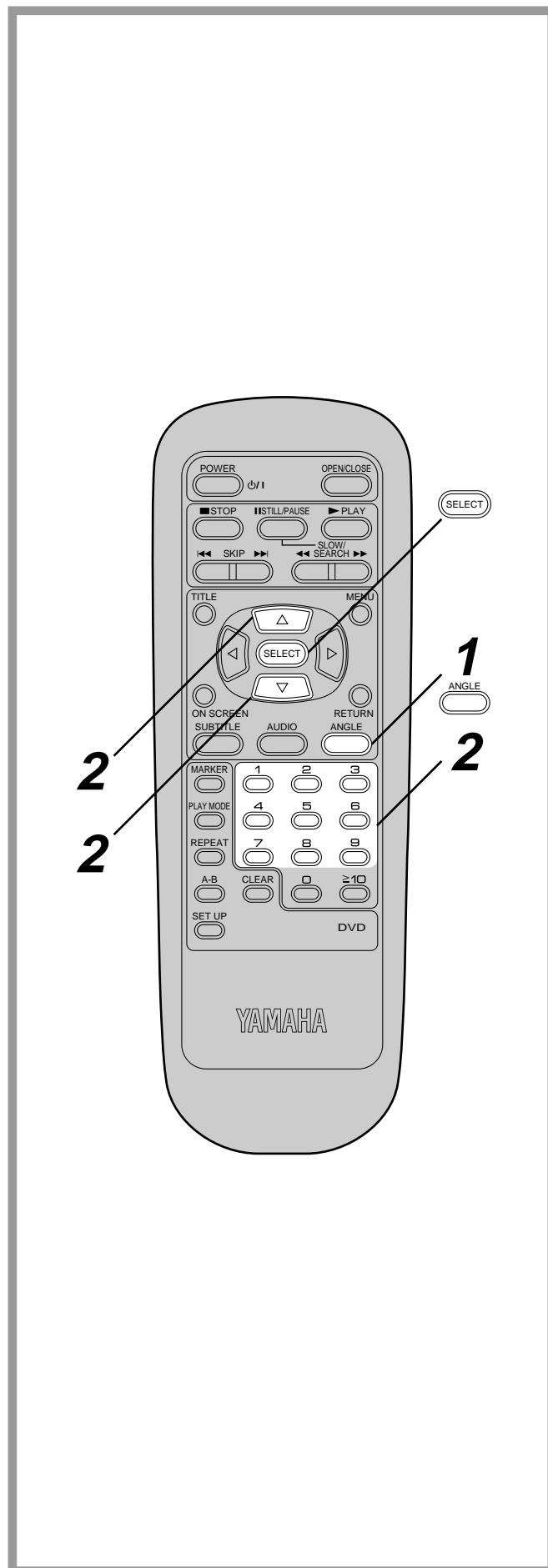
Pressing the numeric button(s) also changes the angle.



● Press ANGLE or SELECT to clear the display.

Note:

- This function only works for discs having scenes recorded at different angles.
 - "ANGLE" lights up on the unit's display at scenes recorded at different angles to indicate that angle switching is possible.
- The angle number can be programmed beforehand; the angle will be switched to the selected number when "ANGLE" lights up.

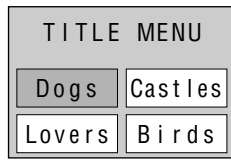


Using a title menu [DVD only]

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.

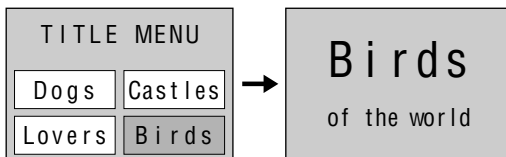
A list of the titles on the disc is now displayed.



(Example)

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

2 Press and press SELECT or PLAY, or press the numeric button(s), to select the preferred title.



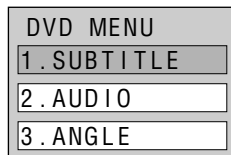
The selected title now starts playing.

Using a DVD menu [DVD only]

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.

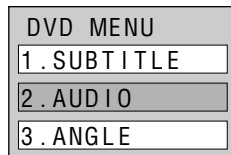
The DVD menu available on the disc is now displayed.



(Example)

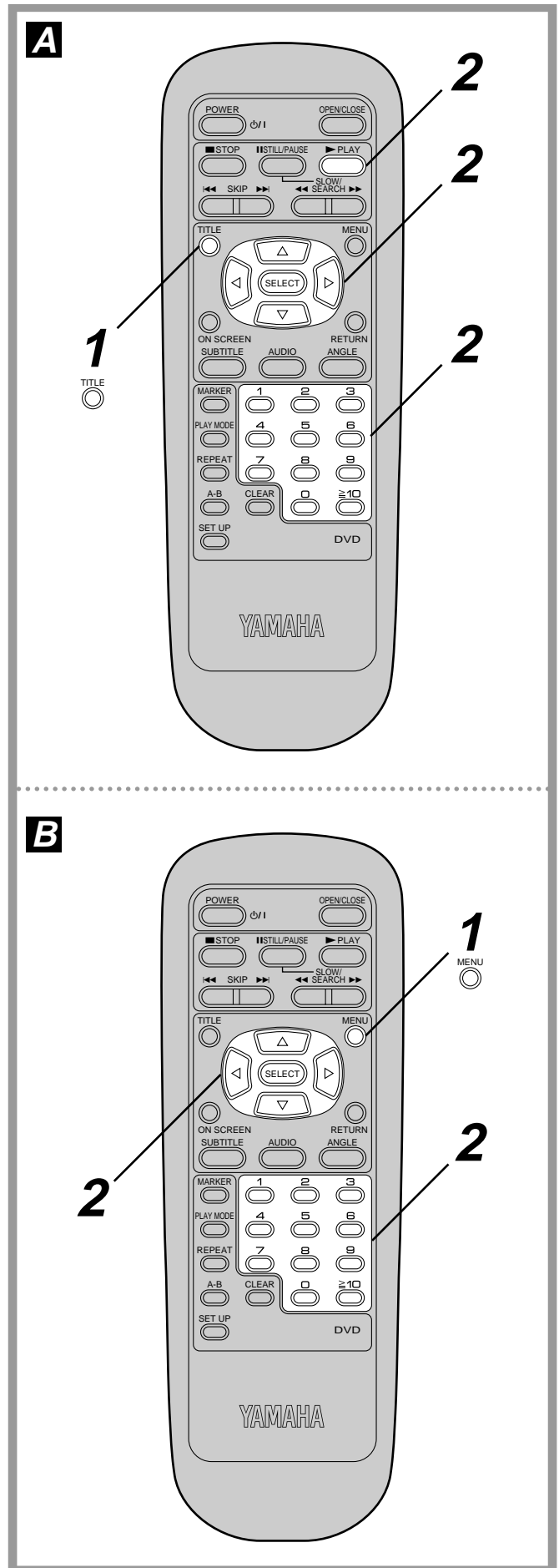
- Pressing MENU again resumes play from the scene when MENU was first pressed.

2 Press and press SELECT, or press the numeric button(s), to select the preferred item.



The selected item is now executed.

When the menu continues onto another screen
Repeat step 2.



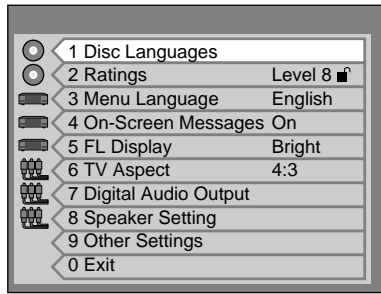
Initial settings

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 even after switching the power to the standby mode until the settings are changed.

Common procedures of initial settings

1 Press SET UP in the stop mode.



2 Press ▲/▼ to select the preferred item and SELECT.

Each screen for setting the value is displayed.

- 1 Disc Languages (see page 64)
- 2 Ratings (see page 66)
- 3 Menu Language (see page 70)
- 4 On-Screen Messages (see page 72)
- 5 FL Display (see page 72)
- 6 TV Aspect (see page 74)
- 7 Digital Audio Output (see page 76)
- 8 Speaker Setting (see page 78)
- 9 Other Settings (see page 82)

3 Press ▲/▼ 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

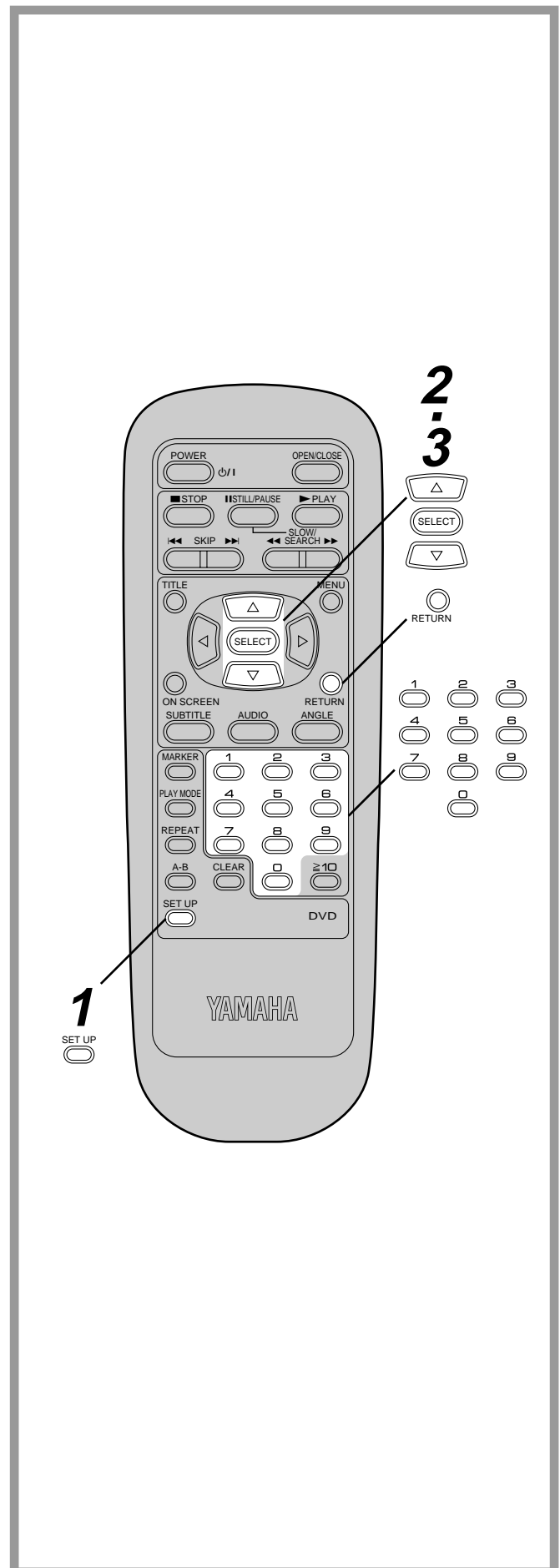
Press RETURN or select "0". (The previous screen is displayed.)

To clear the initial settings screen

Press ▲/▼ to select "0" and press SELECT. (Pressing SET UP or RETURN also clears the initial settings screen.)

For your reference:

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



Initial settings

Selecting disc languages [DVD only]

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.

- At the initial settings screen
Press ▲/▼ to select “1 Disc Languages” and press SELECT.



- Press ▲/▼ to select the preferred item (1–3) and press SELECT.

When “1 Audio” is selected

English: English is selected. (Factory preset)

French/Spanish: Each language is selected.

Original: The original language of each disc will be selected.

Other **:** Another language can be selected. (Refer to the language codes on page 95. Press CLEAR if an incorrect language code is entered.)

When “2 Subtitle” is selected

Automatic:

The same language selected for the “Audio” will be selected. (Factory preset)

- If the language selected for the “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 “Audio”.

English/French/Spanish: Each language is selected.

Other **:** Another language can be selected (Refer to the language codes on page 95. Press CLEAR if an incorrect language code is entered.)

When “3 Menus” is selected

English: English is selected. (Factory preset)

French/Spanish: Each language is selected.

Other **:** Another language can be selected (Refer to the language codes on page 95. Press CLEAR if an incorrect language code is entered.)

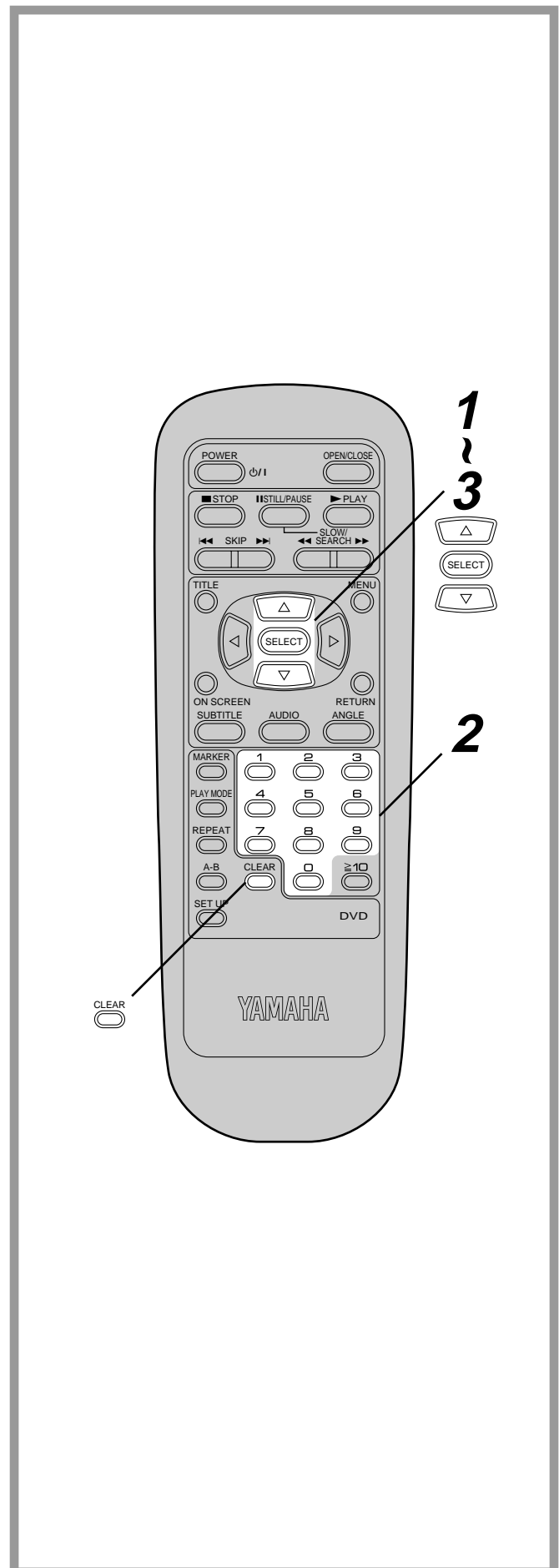
- Press ▲/▼ to select the preferred language at each screen and press SELECT.

The screen illustrated in step 1 is displayed. Press ▲/▼ to select “0” and press SELECT to return to the initial settings screen.

Note:

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

Also refer to “Common procedures of initial settings” on page 62.



Initial settings

Selecting rating level [DVD only]

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

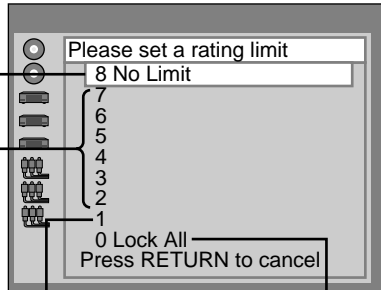
- Some DVDs are encoded with specific rating level. If the rating level of the disc is higher than that preset in the setup operation, playback of the disc will be prohibited.

1 At the initial settings screen

Press ▲/▼ to select “2 Ratings” and press SELECT.

All DVDs can be played back. (Factory preset)

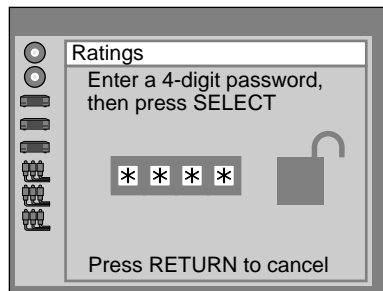
DVDs for general audiences/children can be played back. (DVDs for adults are prohibited.)



DVDs for children can be played back. (DVDs for adults/general audiences are prohibited.)

Playback of all DVDs is prohibited (e.g. to prohibit playback of DVDs for adults which are not encoded with rating level information).

2 Press ▲/▼ to select the preferred level and press SELECT.



3 When level 7 or lower is selected Input a 4-digit password and press SELECT.

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

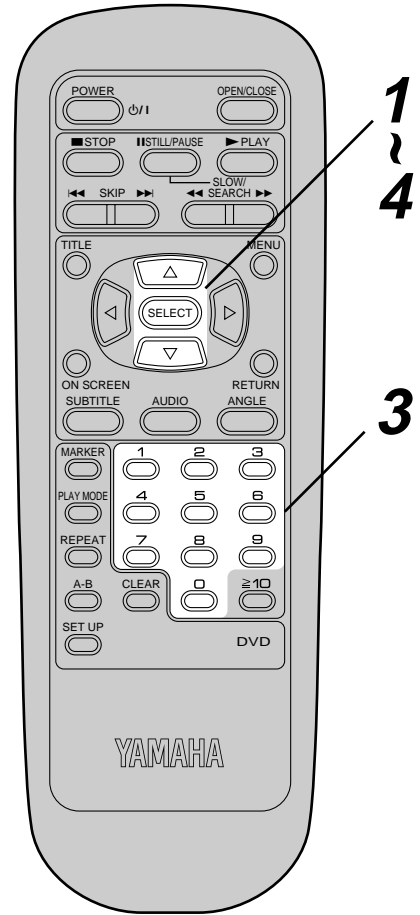
Example: “4343”
Do not forget your password.



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.



Also refer to “Common procedures of initial settings” on page 62.

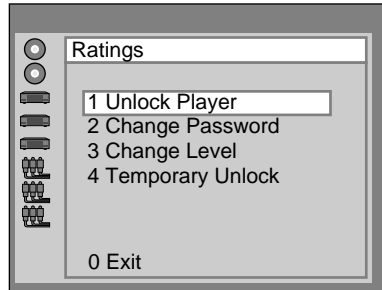
Initial settings

To change the settings

1. Press ▲/▼ to select "2" at the initial settings screen and press SELECT.



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

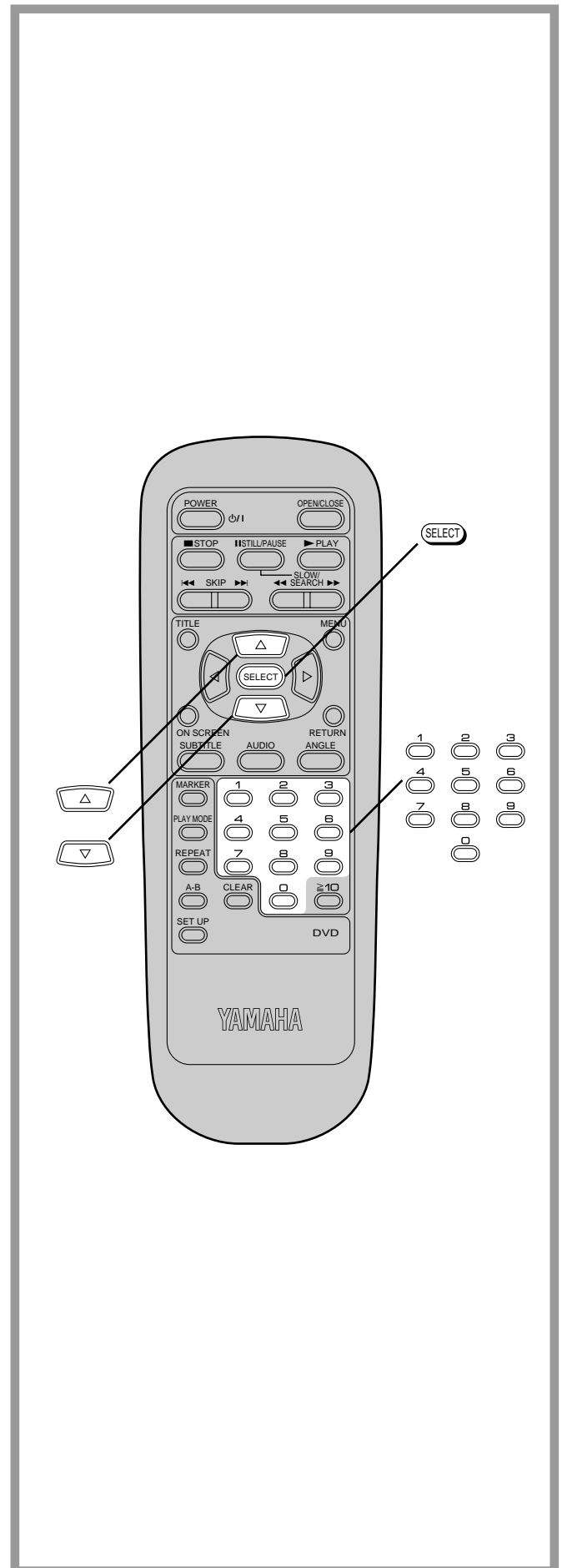


3. Press ▲/▼ to select the preferred item (1–4) and press SELECT.
 - Press ▲/▼ to select "0" and press SELECT to exit. (Setting is finished and the initial settings screen is displayed.)
4. **When "1 Unlock Player" is selected**
Press SELECT.
- When "2 Change Password" is selected**
Enter a new 4-digit password and press SELECT. Press SELECT again.
- When "3 Change Level" is selected**
Select a level and press SELECT.
- When "4 Temporary Unlock" is selected**
(The rating is unlocked temporarily only for the current disc.)
Press SELECT.

Setting is finished and the initial settings screen is displayed.

Note:

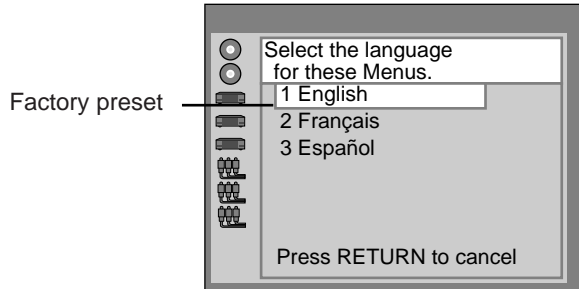
- Some discs may not be encoded with specific rating level information though its disc jacket says that it is for "adults". For those discs, the age restriction will not work.



Initial settings

Selecting language of On-Screen Display menu **B**

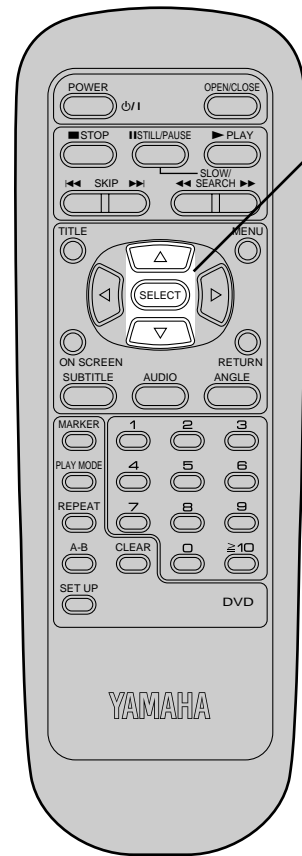
- 1 At the initial settings screen
Press **▲/▼** to select “3 Menu Language” and press **SELECT**.



- 2 Press **▲/▼** to select the preferred language (1–3) and press **SELECT**.

Setting is finished and the initial settings screen is displayed.

Also refer to “Common procedures of initial settings” on page 62.

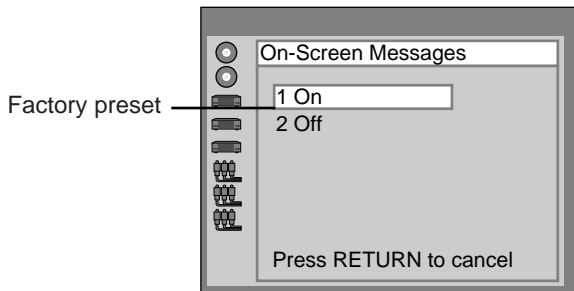


Initial settings

Switching the On-Screen Display ON or OFF **A**

You can select whether On-Screen Display messages such as Play and Stop will be displayed or not.

- At the initial settings screen
Press ▲/▼ to select “4 On-Screen Messages” and press SELECT.

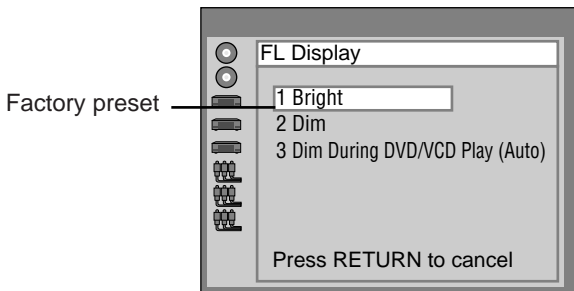


- Press ▲/▼ to select the preferred item (1 or 2) and press SELECT.

Setting is finished and the initial settings screen is displayed.

Selecting the display brightness **B**

- At the initial settings screen
Press ▲/▼ to select “5 FL Display” and press SELECT.



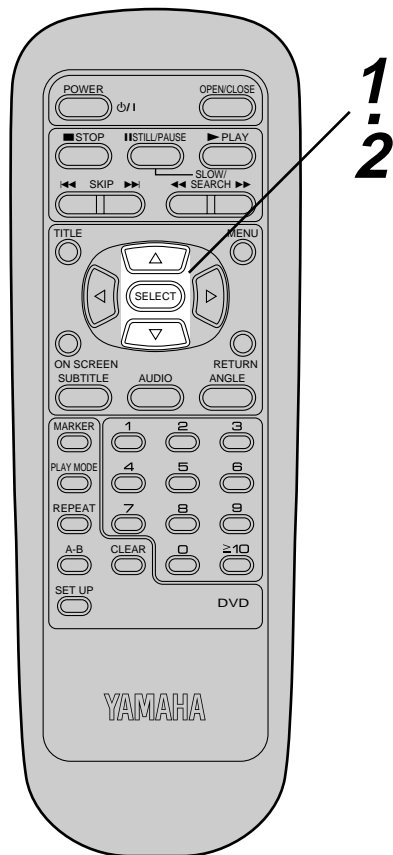
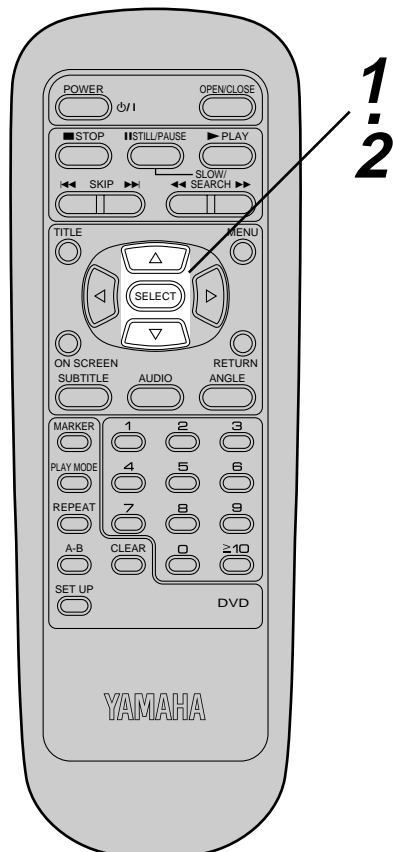
- Press ▲/▼ to select the preferred item (1 or 3) and press SELECT.

Setting is finished and the initial settings screen is displayed.

For your reference:

- Even if “3 Dim During DVD/VCD Play (Auto)” is selected, the display resumes brightness when a button for special play such as SLOW/SEARCH and STILL/PAUSE is pressed.

Also refer to “Common procedures of initial settings” on page 62.

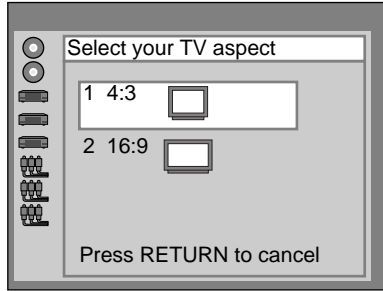
A**B**

Initial settings

Selecting TV screen type

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

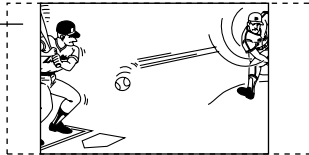
- At the initial settings screen Press ▲/▼ to select “6 TV Aspect” and press SELECT.



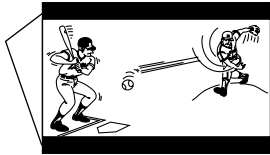
- Press ▲/▼ to select the preferred item (1 or 2) and press SELECT.

4:3 Select when a conventional TV set is connected. (Factory preset)

The video material formatted in the Pan & Scan style is played back in that style (the left and right edges are cut off).

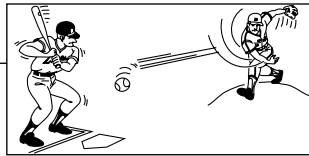


The video material not formatted in the Pan & Scan style is played back in the letterbox style (black bands appear at top and bottom of screen).



16:9 Select when a wide-screen TV set is connected.

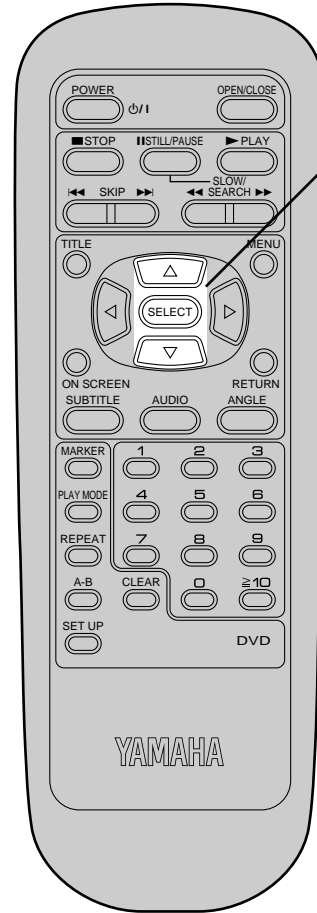
Played in “FULL” size. (Setting the wide-screen TV to “FULL” mode is also necessary.)



※ Each screen shows an example when the video material for a wide-screen is played. (This setting does not affect the video material for conventional size.)

Setting is finished and the initial settings screen is displayed.

Also refer to “Common procedures of initial settings” on page 62.



1

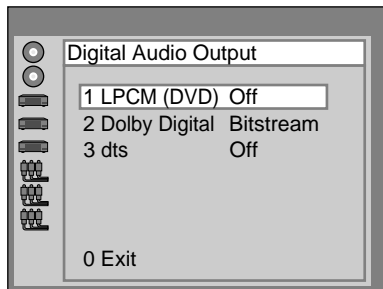
Initial settings

Selecting digital output **A**

Select the digital output to be output from the optical/coaxial digital audio output connector of the unit.

1 At the initial settings screen

Press ▲/▼ to select “7 Digital Audio Output” and press **SELECT**.



2 Press ▲/▼ to select the preferred item (1–3) and press **SELECT**.

When “1 LPCM (DVD)” is selected

Off: Only linear PCM of 48 kHz/16 bit is output from the digital audio output connector. During playback of the DVD recorded in the linear PCM of 48 kHz/20 bit/24 bit or 96 kHz, no digital audio is output. (Factory preset)

PCM: During playback of the DVD recorded in the linear PCM of 48 kHz/20 bit/24 bit 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: Dolby Digital (AC-3) bitstream (2ch–5.1ch) is output. (Factory preset)

PCM: PCM (2ch) of 48 kHz/16 bit is output.

When “3 dts” is selected

Off: No output (Factory preset)

Bitstream: dts bitstream is output.

3 Press ▲/▼ to select the preferred value at each screen and press **SELECT**.

The screen illustrated in step 1 is displayed. Press ▲/▼ to select “0” and press **SELECT** to return to the initial settings screen.

For your reference:

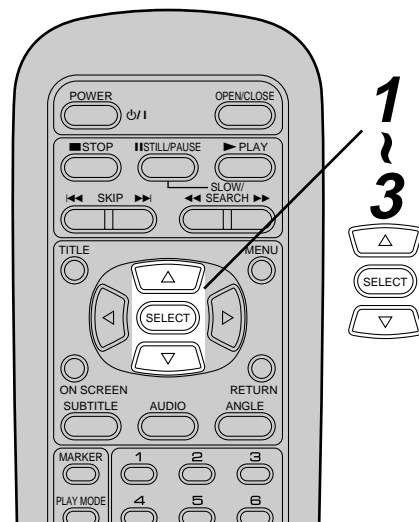
•Make settings as shown in table **B** depending on the kind of amplifier that is connected to the optical/coaxial digital audio output connector.

*1Audio output from the unit’s audio output connectors is converted to 48 kHz/16 bit in addition to audio from the digital audio output connector.

To enjoy high quality sound at 48 kHz/20 bit/24 bit or 96 kHz, connect the amplifier or decoder directly to the audio output connectors, not to the digital audio output connector. [Select “Off” at the “1 LPCM (DVD)”.]

*2When connecting an amplifier (with an optical/coaxial digital input connector) which does not contain the Dolby Digital (AC-3) or dts decoder, be sure to select “PCM” or “Off”. If “Bitstream” is selected, any attempt to play DVDs may cause such a high level of noise that it may be harmful to your ears and damage your speakers.

A



B Type of amplifier to be connected	Recommendable setting		
	LPCM (DVD)	Dolby Digital	dts
No amplifier is connected	Off	Bitstream	Off
AV amplifier (with digital audio input connector) without Dolby Digital/dts decoder	PCM*1	PCM*2	Off*2
AV amplifier including Dolby Digital decoder	PCM*1	Bitstream	Off
AV amplifier including Dolby Digital/dts decoder	PCM*1	Bitstream	Bitstream

C Type d’amplificateur à raccorder	Réglage recommandé		
	LPCM (DVD)	Dolby Digital	dts
Aucun amplificateur raccordé	Non	Bitstream	Non
Amplificateur AV (avec connecteur d’entrée audio numérique) sans décodeur Dolby Digital/dts	PCM*1	PCM*2	Non*2
Amplificateur AV équipé d’un décodeur Dolby Digital	PCM*1	Bitstream	Non
Amplificateur AV équipé d’un décodeur Dolby Digital/dts	PCM*1	Bitstream	Bitstream

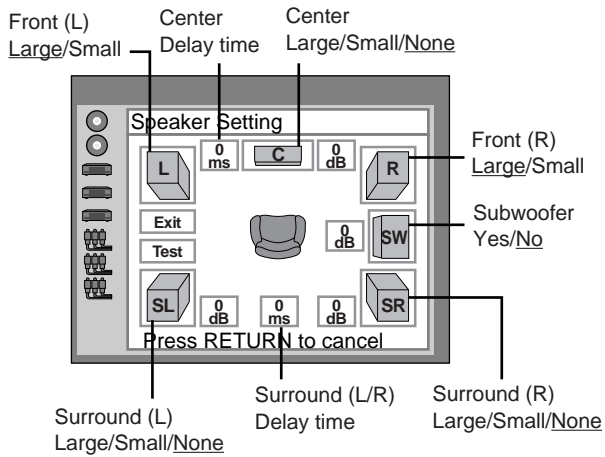
D Tipo de amplificador que va a ser conectado	Ajuste recomendado		
	LPCM (DVD)	Dolby Digital	dts
No está conectado un amplificador	No	Bitstream	No
Amplificador AV (con conector de entrada de audio digital) sin decodificador Dolby Digital/dts	PCM*1	PCM*2	No*2
Amplificador AV incluyendo decodificador Dolby Digital	PCM*1	Bitstream	No
Amplificador AV incluyendo decodificador Dolby Digital/dts	PCM*1	Bitstream	Bitstream

Also refer to “Common procedures of initial settings” on page 62.

Initial settings

Speaker setting

- At the initial settings screen
Press ▲/▼ to select “8 Speaker Setting”
and press SELECT.



• Underlined item is a factory preset.

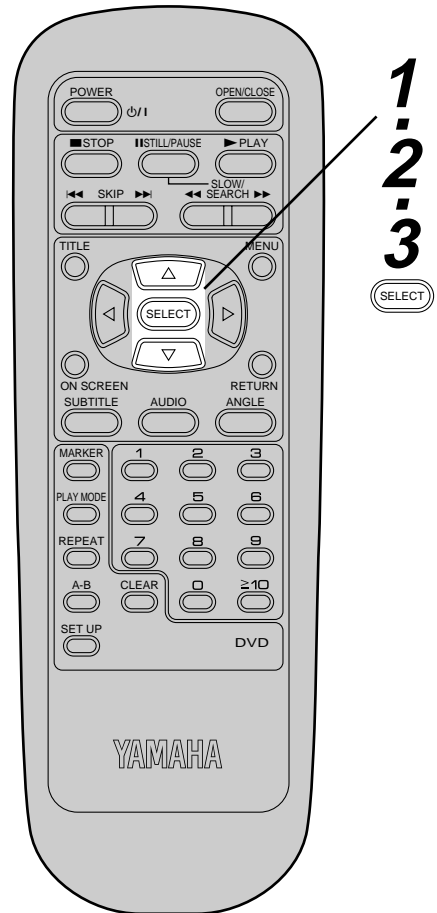
- Press ▲/▼ to select the preferred item and press SELECT.

- Press ▲/▼ to select the preferred value and press SELECT.

Speaker icons

- If the speaker is connected, display the icon by pressing the cursor buttons and pressing SELECT.
- If the speaker supports low-frequency (under 100 Hz) reproduction, select the larger icon. If the speaker's low-frequency (under 100 Hz) reproduction ability is poor, select the smaller icon. [When the subwoofer is not connected, be sure to select “Large” for the front speakers (L/R).]

(Continued on the next page)



Initial settings

Delay time:

If the surround speakers or the center speaker can't be installed at an equal distance to (or further away) the front speakers from the listening position, change the delay time to get better surround effect.

- When D2 or D3 is equal to or larger than D1, no setting is necessary (E). Otherwise, change the setting according to the table below.

Speaker	Delay time	Difference between D1 and D2/D3
Center speaker (D2)	1.3 ms	approx. 1 1/2 feet (50 cm)
	2.6 ms	approx. 3 feet (100 cm)
	3.9 ms	approx. 5 feet (150 cm)
	5.3 ms	approx. 6 feet (200 cm)
Surround speakers (D3)	5.3 ms	approx. 6 feet (200 cm)
	10.6 ms	approx. 12 feet (400 cm)
	15.9 ms	approx. 18 feet (600 cm)

Channel balance:

While listening to the test signal, adjust the volume of the center, surround (L), surround (R) speakers and the subwoofer so that the volume is equal to that of the front speakers.

4 Press ▲/▼ to select “Exit” and press SELECT.

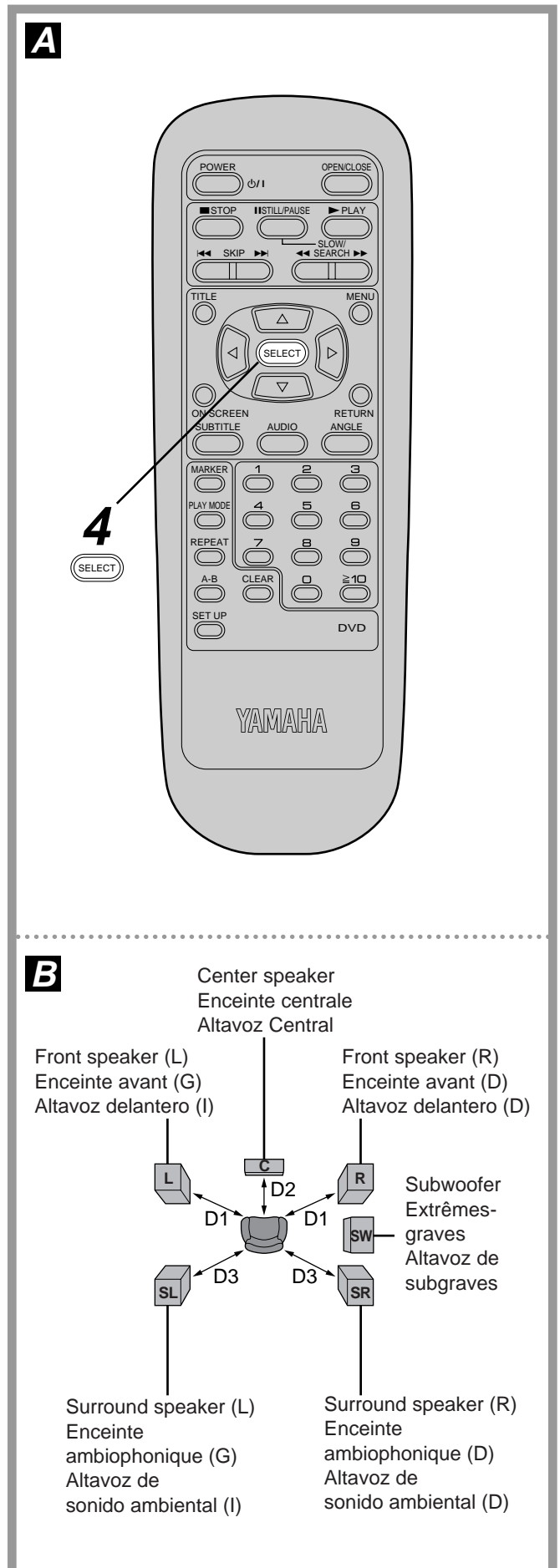
Setting is finished and the initial settings screen is displayed.

For your reference:

•To output the test signal

1. Select “Test” and then press SELECT.
(Test signals will be output clockwise from each speaker consecutively.)
2. Select the appropriate volume (−6 dB through +6 dB) while the test signal is being output from the speaker.
(The output test signal of subwoofer is lower than the other speakers.)
3. Press SELECT. (The test signals are stopped.)

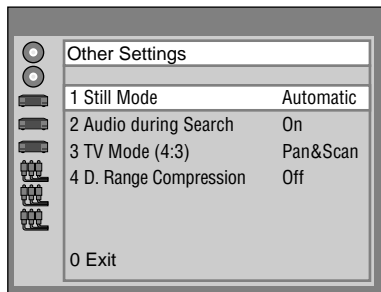
Also refer to “Common procedures of initial settings” on page 62.



Initial settings

Other settings

- 1** At the initial settings screen
Press ▲/▼ to select “9 Other Settings”
and press SELECT.



- 2** Press ▲/▼ to select the preferred item (1–4) and press SELECT.

When “1 Still Mode” is selected

Automatic: “Frame still” and “Field still” are automatically selected during the still mode.

(Factory preset)

Field: Select this setting when jittering occurs in the pictures even when “Automatic” is selected.

When “2 Audio during Search” is selected

On: Factory preset (When audio during search is not desired, select “Off”.)

Off: Select this setting if audio during search is not desired.

When “3 TV Mode (4:3)” is selected

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 74.)

Letterbox: Select this setting to play back the video material for a wide-screen in the letterbox style on a conventional size TV.

When “4 D. (Dynamic) Range Compression” is selected

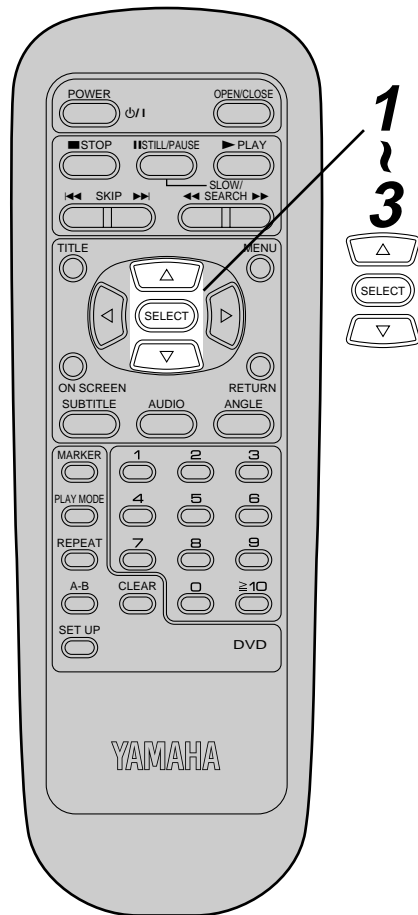
Off: Normal audio range is selected. (Factory preset)

On: Select this setting to enjoy listening to dynamic sound even on a low volume. This is useful for late-night listening. [This function only works with Dolby Digital (AC-3) DVDs.]

- 3** Press ▲/▼ to select the preferred value at each screen and press SELECT.

The screen illustrated in step 1 is displayed. Press ▲/▼ to select “0” and press SELECT to return to the initial settings screen.

Also refer to “Common procedures of initial settings” on page 62.



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. **(B)**
- 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

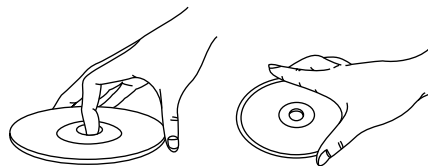
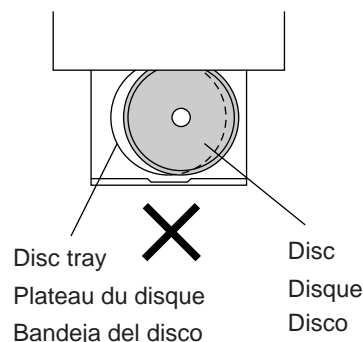
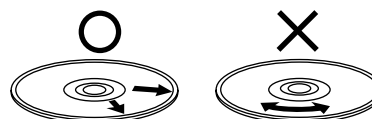
- DVD with Region No. other than "1" or "ALL"
- DVD of PAL system
- DVD-ROM
- DVD-R/DVD-RAM
- CD-ROM
- CDV
- CD-G
- Do not try to play Photo CD or CD-R.

To prevent a malfunction of this unit

- Do not use any non standard shaped CD (heart etc.) available on the market, because it may damage the unit.
- Do not use a CD with tape, seals, or paste on it, because damage to the unit may result.

Maintenance

- Be sure to turn the power button OFF and disconnect the AC power cord before maintaining the unit.
- Wipe this unit 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

If the unit fails to operate normally, check the following points to determine whether the fault can be corrected by the simple measures suggested. If it cannot be corrected, or if the fault is not listed in the SYMPTOM column, disconnect the power cord and contact your authorized YAMAHA dealer or service center for help.

Symptom (Common)	Remedy
No power.	Insert the AC power plug securely into the power outlet.
Power is automatically switched to the standby mode.	The power is automatically switched to the standby mode after approx. 30 minutes have elapsed in the stop mode (auto turn-off function). Turn the power back 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 discs other than DVDs, Video CDs and CDs. ● The disc may be dirty and may require cleaning. ● Ensure that the disc is installed with the label side up.
No picture.	<ul style="list-style-type: none"> ● Ensure that the equipment is connected properly. ● Ensure that the input setting for the TV is "Video".
<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 rapid advance (or rapid reverse) play.	Some discs may have sections which prohibit rapid advance (or rapid reverse).
No 4:3 (16:9) picture.	Choose the correct setup "TV Aspect" item which matches the TV set used.
No on-screen display.	The "Off" setting is selected for "On-Screen Messages": select "On".
No operations can be performed with the remote control.	<ul style="list-style-type: none"> ● 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 23 feet (7 meters) from the remote control sensor. ● Remove the obstacles between the remote control unit and remote control sensor.
No key operation (by the unit and/or the remote control) is effective.	Switch the power to the standby mode and then return to ON. Alternatively, switch the power to the standby mode, disconnect the AC power cord and then re-connect it. (The player may not be operating properly due to lightning, static electricity or some other external factor.)
On-Screen Menu Icons not displayed or only partially displayed on the TV Screen.	Select the appropriate TV screen type by consulting the operating manual for the TV.

Symptom [DVD]	Remedy
Play does not start even when title is selected.	Confirm the "Ratings" setting.

Symptom [DVD]	Remedy
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 "Menus" of "Disc Languages" is set to French: select English.
Lightening and darkening of the picture.	Some discs will be copy protected at the direction of copyright owners. During playback of those discs, picture may not be normally played back when video signals containing a copy protected signal are played back through a VCR. It is recommended to connect the DVD/Video CD/CD player directly to an AV amplifier or to a TV set, not through a VCR.
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 54 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 the ANGLE indicator lights up on the unit's display.)
The password for rating level has been forgotten. Reset all the settings to Factory preset.	While the unit is in the stop mode, hold the unit's ◀◀ SKIP button and the STILL/ PAUSE button down simultaneously and then hold the POWER 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 display window. When a service number has appeared, check out the details given below.

Service number	Player status	Remedy
U11	Disc is dirty.	Wipe the disc clean.
H □ □	Trouble is likely to have occurred. The number following "H" differs depending on the status of the player.	Set the POWER button to OFF and then back to ON. Alternatively, switch the power to the standby mode, disconnect the AC power plug, and then re-connect it. If the service number fails to be cleared even when the remedial action is taken, ask for the service engineer to repair the player.

Product service

Do not attempt to remove the cover(s) or repair the unit yourself. Refer servicing to qualified personnel only. The servicer will require all components to service your system. Therefore, should service ever be necessary, be sure to bring the entire system.

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.

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 II) 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 play.

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

These are the printed lines appearing at the bottom of the screen which translate or transcribe the dialogue. They are recorded on 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).

Specifications

Power

requirements: AC 120 V, 60 Hz

Power

consumption: 24 W (approx. 1.8 W when power is OFF by the power button or the remote control)

Signal system: NTSC

Weight: 7.9 lbs. (3.6 kg)

Dimensions: 17³/₁₆" (W) × 11³/₁₆" (D) × 3¹/₂" (H)
[435 (W) × 284 (D) × 87.5 (H) mm]
(excluding protrusions)

Operating temperature range:

+41 to +95°F (+5 to +35°C)

Operating humidity range:

5 to 90% (no condensation)

Discs played:

(1) DVD-VIDEO disc

5" (12 cm) single-sided, single-layer
5" (12 cm) single-sided, double-layer
5" (12 cm) double-sided, double-layer
(one layer per side)
3" (8 cm) single-sided, single-layer
3" (8 cm) single-sided, double-layer
3" (8 cm) double-sided, double-layer
(one layer per side)

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

5" (12 cm) disc
3" (8 cm) disc

S-video output:

Y output level: 1 Vp-p (75Ω)
C output level: 0.286 Vp-p (75Ω) (NTSC)
Output connector: S terminal (1 system)

Video output:

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

Component video output:

Y output level: 1 Vp-p (75Ω), green
P_B output level: 0.648 Vp-p (75Ω), blue
P_R output level: 0.648 Vp-p (75Ω), red
Output connector: Pin jack

Audio output:

Output level: 2 Vrms (1 kHz, 0 dB)
Output connector: Pin jack
5.1ch mixed output: 1 system (2ch)
5.1ch discrete output: 1 system (5.1ch)

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): 102 dB
 - CD audio: 99 dB (EIAJ)
- (4) Total harmonic distortion:
 - CD audio: 0.0025% (EIAJ)

Digital audio output:

Optical digital output: Optical connector
Coaxial digital output: Pin jack

Pickup: Wave length: 655 nm
Laser power: CLASS II

Specifications are subject to change without notice.

Weight and dimensions are approximate.

Language code list/Liste des codes de langue/ Lista de códigos de idiomas

Enter the appropriate code number for the initial settings “Audio”, “Subtitle” and/or “Menus” (see page 64).

Entrer le numéro de code voulu pour le réglage initial de “Audio”, “Sous-titres” et/ou “Menu” (voir page 65).

Introduzca el número de código apropiado para la fijación inicial de “Audio”, “Subtítulos” y/o “Menú” (consulte la página 65).

Code/ Code/ Código	Language/ Langue/ Idioma	Code/ Code/ Código	Language/ Langue/ Idioma	Code/ Code/ Código	Language/ Langue/ Idioma	Code/ Code/ Código	Language/ Langue/ Idioma
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

Region Management Information/ Information sur la gestion des régions/ Información de gestión de zonas

Region Management Information: This DVD/VIDEO CD/CD player is designed and manufactured to respond to the Region Management Information that is recorded on a DVD disc. If the Region number described on the DVD disc does not correspond to the Region number of this DVD/VIDEO CD/CD player, this DVD/VIDEO CD/CD player cannot play this disc.

Information sur la gestion des régions: Ce lecteur DVD/CD vidéo/CD est conçu et fabriqué de façon à répondre à l'information de gestion de région enregistrée sur les disques DVD. Si le numéro de région du DVD ne correspond pas au numéro de région de ce lecteur DVD/CD vidéo/CD, le disque ne pourra pas être lu sur l'appareil.

Información de gestión de zonas: Este DVD/Video CD/CD Player ha sido diseñado y fabricado para responder a la información de gestión de zonas grabada en los discos DVD. Si el número de zona descrito en el DVD no corresponde al número de zona de este DVD/Video CD/CD Player, el disco no podrá ser reproducido en este aparato.

The Region number for this DVD/VIDEO CD/CD player is 1.
Le numéro de région de ce lecteur DVD/CD vidéo/CD est 1.
El número de zona para este DVD/VIDEO CD/CD player es el 1.



Apparatus Claims of U.S. Patent Nos. 4, 631,603, 4,577,216, and 4,819,098, licensed for limited viewing uses only.

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 VQT7520 Printed in Japan