

DVD PLAYER

# XD-DV370

OPERATING INSTRUCTIONS

8A-AV4-906-11  
000731BMK-Y-L



**SPATIALIZER**<sup>®</sup>  
N-2-2™



**K**

## WARNING (FOR USE IN THE UNITED KINGDOM)

This appliance is supplied with a fitted three pin mains plug. A 13 amp fuse is fitted in the plug.

Should the fuse need to be replaced, use a 13 amp fuse approved by ASTA or BSI to BS 1362. When replacing the fuse, you must ensure that any removable fuse covers are correctly refitted.

If you should lose the fuse cover, please contact your nearest AIWA dealer.

### Do not cut off the plug from this appliance

If the plug fitted is not suitable for the power points in your home, or the cable is too short to reach a power point, obtain an appropriate safety approved extension lead or adaptor. If in any doubt please consult a qualified electrician.

If the plug is cut off, remove the fuse and dispose of the plug immediately.

**There is a danger of severe electrical shock if the cut off plug is inserted into any 13 amp socket.**

If a new plug is to be fitted please ensure it contains a 13 amp fuse, otherwise the circuit should be protected by a 5 amp fuse at the distribution board.

## IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

**BLUE — NEUTRAL**  
**BROWN — LIVE**

As the colours of the wires in the mains lead of this appliance may not correspond with the colour markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured BLUE must be connected to the terminal which is marked by the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked by the letter L or coloured RED.

**DO NOT** connect either the BLUE or BROWN wire of the mains lead to the earth terminal (marked with the letter E or by the earth symbol  $\perp$  or coloured GREEN or GREEN/YELLOW) of a three pin plug.

## WARNING

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

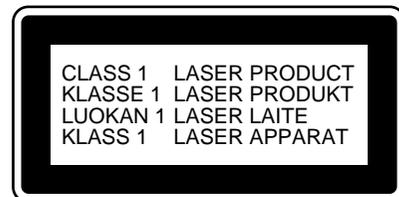


## CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

This DVD player is classified as a CLASS 1 LASER product.

The CLASS 1 LASER PRODUCT label is located on the exterior.



## CAUTION!



Invisible laser radiation when open and inter locks defeated. Avoid exposure to beam.

## ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

## VAROITUS!

Laitteen käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyttäjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

## VARNING!

Om apparaten används på annat sätt än i denna bruksanvisning specificerats, kan användaren utsätta för osynlig laser-strålning, som överskrider gränsen för laserklass 1.

## IMPORTANT SAFETY INSTRUCTIONS

Read the Operating Instructions carefully and completely before operating the unit. Be sure to keep the Operating Instructions for future reference. All warnings and cautions in the Operating Instructions and on the unit should be strictly followed, as well as the safety suggestions below.

### Installation

- 1 Water and moisture** — Do not use this unit near water, such as near a bathtub, sink, swimming pool, or the like.
- 2 Heat** — Do not use this unit near sources of heat, including heating vents, stoves, or other appliances that generate heat. This unit should not be placed in temperatures less than 5°C (41°F) or greater than 35°C (95°F).
- 3 Mounting place** — Place the unit:
  - on a flat, even surface
  - away from strong magnetic fields
  - at least one metre away from any radios or receivers
 Do not place heavy objects on the unit.
- 4 Ventilation** — The unit should be situated with adequate space around it so that proper heat ventilation is assured. Allow a clearance of 10 cm (4 in.) from the rear and the top of the unit, and 5 cm (2 in.) from each side.
  - Do not place the unit on a bed, rug, or similar surface that may block the ventilation openings.
  - Do not install the unit in a bookcase, cabinet, or airtight rack where ventilation may be impeded.
  - **To avoid internal heat build-up, do not cover the ventilation openings on the rear panel.**
- 5 Foreign objects and liquid** — Be careful that foreign objects or liquid do not enter the unit through the ventilation openings.
- 6 Carts and stands** — The unit should be moved with care when placed or mounted on a stand or cart. Sudden stops, excessive force, or an uneven surface may cause the unit or cart to fall over.
- 7 Condensation** — Moisture may form on the pickup lens when:
  - This unit is moved from a cold spot to a warm spot
  - A heating system has just been turned on
  - The unit is used in a very humid room
  - The unit is cooled by an air conditioner
 When this unit has condensation inside, it may not function normally. Should this occur, leave the unit for a few hours, then try to operate again.

### Electric power

- 1 Power sources** — Connect this unit only to power sources specified in the Operating Instructions, and as marked on the unit.
- 2 AC power cord**
  - When disconnecting the mains lead, pull it out by the mains plug. Do not pull the mains lead itself.
  - Never handle the mains plug with wet hands, as this could result in fire or electrical shock.
  - Mains lead should be firmly secured to avoid being severely bent, pinched, or walked upon. Pay particular attention to the mains lead from the unit to the mains.
  - Avoid overloading mains plugs and extension leads beyond their capacity, as this could result in fire or electrical shock.
- 3 When not in use** — Unplug the mains lead from the mains if the unit will not be used for several months or more. When the mains lead is plugged in, a small electrical current continues to flow into the unit, even if the power is turned off.
- 4 In case of lightning** — Immediately disconnect the mains lead from the mains.

### Maintenance

Clean the unit only as recommended in the Operating Instructions.

### Damage requiring service

Have this unit serviced by a qualified service technician if:

- The mains lead or plug has been damaged
- A foreign object or liquid has entered the unit
- The unit has been exposed to rain or water
- The unit does not seem to operate normally
- The unit exhibits a marked change in performance
- The unit has been dropped, or the cabinet has been damaged

**DO NOT OPEN THE CABINET AND ATTEMPT TO SERVICE THE UNIT YOURSELF.**

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## Features

**DVD: providing a completely new dimension in video entertainment.**

- **With the multi-language function\*** you can select an audio soundtrack in up to 8 languages, and subtitles in up to 32 languages.
- **With the multi-angle function\*** you can select a viewing angle of scenes shot from multiple camera angles and recorded on the disc.
- **With the parental lock function\*** you can prevent playback of specified discs unsuitable for certain audiences.

\* All of the above functions are dependent on the DVD software.

### High quality digital audio and images

- **The linear PCM sound of a 96 kHz/24 bit** creates audio quality superior to that of audio CDs.
- **Compatible with video CDs and audio CDs as well as DVDs**
- **MP3 playback**

## Accessory checklist

- Remote control (1)
- Audio cord (1)
- Video cord (1)
- Operating Instructions

# BEFORE USE

Please read the following before operating the DVD player.

## Supported disc formats

This DVD player can play discs with the following marks only.

	DVDs (8 cm disc/12 cm disc)
	Video CDs (VCDs) (8 cm disc/12 cm disc)
	Audio CDs (8 cm disc/12 cm disc)

In addition, this unit can play back a CD-R or CD-RW that contains audio titles or MP3 files.

### NOTES

- Depending on the condition of the recording equipment or the CD-R/RW disc itself, some CD-R/RW discs can not be played on this unit.
- The unit can not play back the CD-R/RW discs that contain no data or different kinds of formatted data other than MP3.  
For more information about MP3, see page 35.
- Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc.
- Do not use irregular shape CDs (example: heart-shaped, octagonal ones). It may result in malfunctions.

### Notes on colour system

Although this unit is designed for the PAL, NTSC and Multi colour system, the default setting sets to the PAL colour system. When connecting to a TV set which is NTSC or Multi colour system, you need to change the TV SYSTEM SELECT switch (see page 10).

### Notes on DVDs and video CDs

Some playback operations of DVDs and video CDs may be intentionally fixed by software manufacturers. As this player plays DVDs and video CDs according to disc contents designed by the software manufacturer, some playback features of this player may not be available, or other functions may be added.

Also refer to the instructions supplied with the DVDs and video CDs.

Some DVDs made for business purposes may not be played on this player.

### Region code of the DVD player and DVDs

This DVD player is designed and manufactured for playback of region "2" encoded DVD software. Region code labels appear on the labels of some DVD discs to indicate which type of player can play those discs. Unless "2" is included in these labels, or "ALL" appears on the DVD disc labels, those discs cannot be played on this player. If you try to play these discs, the message "Check Regional Code" will appear on the TV screen. Some DVD discs may not have a region code label even though their playback is prohibited by area limits.

### Note on DTS-encoded CDs

When playing DTS-encoded CDs, excessive noise will be exhibited from the analogue stereo outputs. To avoid possible damage to the audio system, the consumer should turn down the volume before playing back such a disc, adjust the volume gradually, and keep the volume level low. To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the digital output of this unit.

## Disc-related terms

### Title (DVD only)

The longest section of a picture or a musical piece on a DVD; a movie for a picture piece on video software, or an album for a musical piece on audio software. Each title is assigned a title number enabling you to locate the title you want.

### Chapter (DVD only)

Sections of a picture or a musical piece that are smaller than titles.

A title is composed of several chapters. Each chapter is assigned a chapter number, enabling you to locate the chapter you want. Depending on the disc, there may be no chapters recorded.

### Track (Video CD and audio CD only)

Sections of a picture or a musical piece on a video CD or an audio CD. Each track is assigned a track number, enabling you to locate the track you want.

### Scene

On a video CD with PBC (playback control) functions, moving pictures and still pictures are divided into sections called "Scenes". Each scene is displayed in the menu screen and assigned a scene number, enabling you to locate the scene you want.

A scene is composed of one or several tracks.

## Types of video CDs

There are two types of video CD (VCD)s.

### Video CDs equipped with PBC (Version 2.0)

PBC (playback control) allows you to interact with the system via menus, search functions or other typical computer-like operations. Moreover, still pictures of high resolution can be played, if they are included in the disc.

### Video CDs not equipped with PBC (Version 1.1)

Operated in the same way as audio CDs, these discs allow playback of video pictures as well as sound, but they are not equipped with PBC.

## BEFORE USE (CONTINUED)

### Handling the unit

#### When shipping the DVD player

The original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packed at the factory.

#### When setting the DVD player

The picture and sound of a nearby TV, VCR or radio may be distorted during DVD playback. In this case, position the player away from the TV, radio or VCR, or turn off the player after removing the disc.

#### To keep the surface clean

Do not use volatile liquids, such as insecticide spray, near the player. Do not leave rubber or plastic products in contact with the player for a long period of time. They will leave marks on the surface.

### Handling discs

Do not touch the playback side of the disc.

Hold the disc by the edges so that fingerprints will not get on the surface.

Do not stick paper or tape on the disc.

### Cleaning the unit

#### To clean the cabinet

Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents, such as alcohol, benzene or thinner, as these might damage the surface of the player.

#### To obtain a clear picture

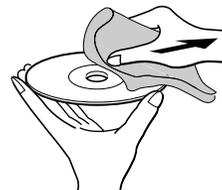
The DVD player is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality will be poor.

Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.)

For details, please contact your Aiwa dealer.

### Cleaning discs

Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.



Do not use strong solvents such as alcohol, benzene, thinner, commercially available cleaners or anti-static spray intended for analogue records.

### Storing discs

After playing, store the disc in its case.

Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

### Notes on copyright

*It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyright material without permission.*

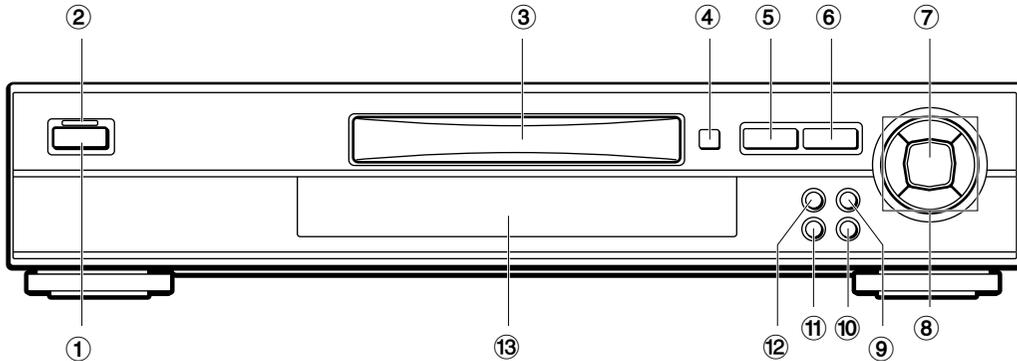
This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs. When recording and playing the pictures of these discs on a VCR, the picture noise will appear.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

# PARTS AND CONTROLS

The instructions in this manual refer mainly to the buttons on the remote control. Buttons on the main unit with the same names as those on the remote control can be used as well.

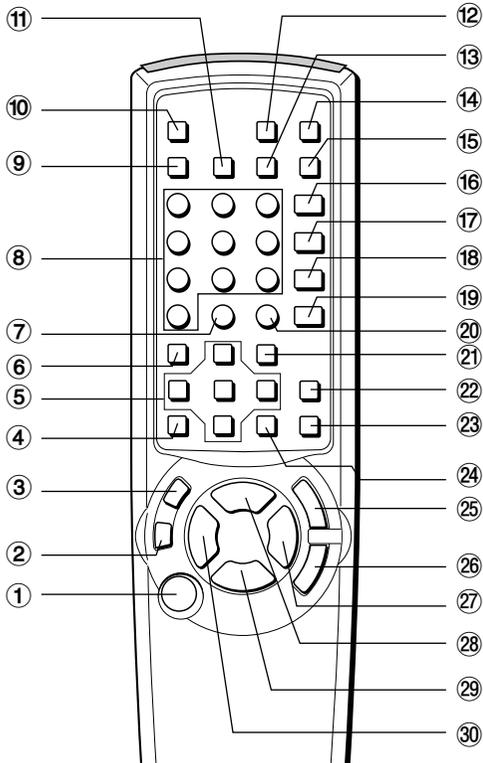
## Front panel



- ① **POWER** button  
Press to turn on and off the unit.
- ② **STANBY/ON** indicator
  - Lights in red when the unit is in standby mode.
  - Lights in green when the unit is turned on.
- ③ **Disc tray**  
Loading and removing discs.
- ④ **▲ OPEN/CLOSE** button  
Press to open and close the disc tray.
- ⑤ **▶ PLAY** button  
Press to begin playback.
- ⑥ **■ STOP** button  
Press to stop playing back a disc.
- ⑦ **ENTER** button  
Press to execute or fix the selected item on the disc menus.
- ⑧ **▲/▼/◀/▶** cursor buttons  
Press to select an item.
- ⑨ **▶▶/▶▶▶** button  
Press to skip to the next track. Hold down to playback a disc forward.
- ⑩ **MENU** button  
Press to display the DVD menu on the TV screen.
- ⑪ **||** button  
Press to pause playback.
- ⑫ **◀◀/◀◀◀** button  
Press to return to the beginning of the current track or skip back to the previous track. Hold down to play back a disc in reverse.
- ⑬ **Display window**  
Displays the information of the unit's status.

# PARTS AND CONTROLS (CONTINUED)

## Remote control



- ① **POWER** button  
Press to turn on and off the unit.
- ② **ON SCREEN DISPLAY ON/OFF** button  
Press to display the On Screen Display information.
- ③ **II** button  
Press to pause a playback.
- ④ **RETURN** button
  - Press to display the title menu on the video CD that supports PBC (Playback Control).
  - Press to exit the setup menu screen.
- ⑤ **▲/▼/◀/▶/ENTER** buttons
  - Press a ▲/▼/◀/▶ button to select a item.
  - Press **ENTER** to execute or fix the selected item on the disc menus.
- ⑥ **TOP MENU** button  
Press to display the title menu on the DVD.
- ⑦ **CLEAR** button
  - Press to clear the MARK memory.
  - Press to cancel the wrong track number when programming tracks on the disc.
- ⑧ **Numbered** buttons  
Press to select a track or title directly.
- ⑨ **MARK** button  
Press to mark any point in a DVD during a playback.

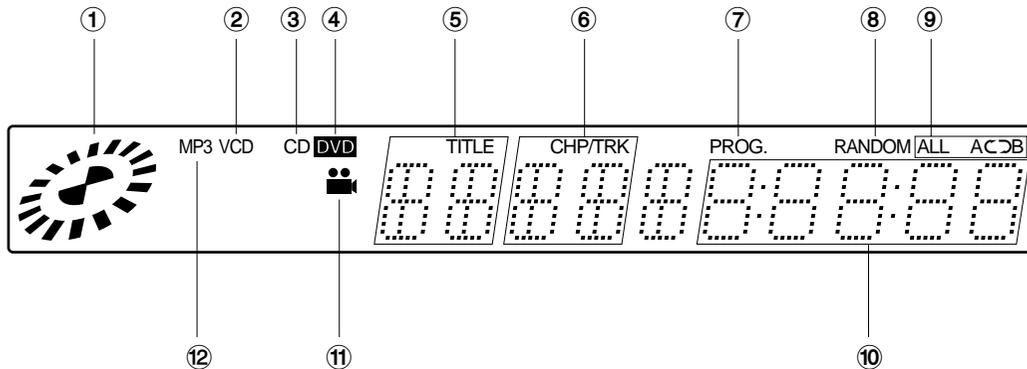
- ⑩ **OPEN/CLOSE** button  
Press to open and close the disc tray.
- ⑪ **MARK SEARCH** button  
Press to display the marked point on the TV screen during playback or stop mode.
- ⑫ **ZOOM** button  
Press to enlarge the picture during a DVD playback.
- ⑬ **REPEAT** button  
Press to execute a repeat playback.
- ⑭ **SURROUND** button  
Press to turn on and off the 3D surround effect.
- ⑮ **A-B** button  
Press to memorize the point you want to repeat.
- ⑯ **ANGLE**  button  
Press to change the picture angle during a DVD playback.
- ⑰ **AUDIO SELECT** button  
Press to select the sound tracks on the DVD, Video CD or audio CD.
- ⑱ **SUBTITLE SELECT** button  
Press to change the subtitle language during a DVD playback.
- ⑲ **RANDOM** button  
Press to execute a random playback.
- ⑳ **PROGRAM** button  
Press to execute a programmed playback.
- ㉑ **MENU** button  
Press to display the menu programs on the DVD.
- ㉒ **F.SLOW** button  
Press to execute a forward slow playback when playing back a DVD or Video CD.
- ㉓ **B.SLOW** button  
Press to execute a backward slow playback when playing back a DVD.
- ㉔ **SETUP** button  
Press to display the setup menu on the TV screen.
- ㉕ **▶▶** button  
Hold down to play back a disc forward.
- ㉖ **◀◀** button  
Hold down to play back a disc in reverse.
- ㉗ **▶▶|** button  
Press to skip to the next track.
- ㉘ **▶** button  
Press to begin a playback.
- ㉙ **■** button  
Press to stop playing back a disc.
- ㉚ **◀◀|** button  
Press to return to the beginning of the current track or skip back to the previous track.

## Display window

This player shows On-Screen Display messages on the screen of the TV set to which the DVD player is connected, as well as those on the display window of the unit.

The On-Screen Display messages, which accompany each operation of the unit, make operation simple and easy especially when playing DVDs or video CDs. They are also displayed when pressing the ON SCREEN DISPLAY ON /OFF button on the remote control.

The instructions in this manual refer mainly to the On-Screen Display messages.



- ① Operating status indicator**  
Rotates when loading and playing back a disc.
- ② VCD indicator**  
Lights when a Video CD is loaded.
- ③ CD indicator**  
Lights when a CD is loaded.
- ④ DVD indicator**  
Lights when a DVD is loaded.
- ⑤ TITLE indicator**  
The title number indicates the number of the title being played during a DVD playback.
- ⑥ CHP/TRK indicator**
  - The chapter number indicates the number of the chapter being played during a DVD playback.
  - "PBC" is displayed and the CHP/TRK indicator disappears when a Video CD that supports PBC is loaded.
  - The total number of tracks in stop mode and the number of the track being played during a playback are displayed, when a CD or Video CD that does not support PBC is loaded.
- ⑦ PROG. indicator**  
Lights during a programmed playback.
- ⑧ RANDOM indicator**  
Lights during a random playback.
- ⑨ ALL ACDB repeat indicator**
  - **↺**: One track is played back repeatedly.
  - **↻**: All tracks on the disc are played back repeatedly.
  - **ACDB**: A desired portion is played back repeatedly.
- ⑩ Time counter**
  - The total playing time of a Video CD or CD is displayed during stop mode. (The total playing time is not displayed when a DVD or MP3 disc is loaded.)
  - The elapsed time of the chapter or track is displayed.
- ⑪ ANGLE indicator**  
Blinks when a multi-angle scene comes on during a DVD playback.
- ⑫ MP3 indicator**  
Lights when an MP3 disc is loaded.

# CONNECTIONS

At first, decide the outline of the connection among this unit, your TV set and the amplifier, etc. It is necessary to set the setup menu of this unit according to the connection.

Before connection, identify the type of your audio equipment or of the TV set referring to the following chart. Then decide the connection and the setup menu according to the types.

Audio system to be connected	Input jack of equipment to be connected to the DVD player	Referring Letter
None (only the television is connected)	—	See <b>A</b> .
A stereo system or an amplifier	Digital input jack	See <b>B</b> .
	Analog audio input jacks (L/R)	See <b>C</b> .
An AV amplifier equipped with Dolby Digital decoder or a Dolby Digital decoder	Digital input jack	See <b>D</b> .
	Analog audio input jacks (L/R)	See <b>F</b> .
An AV amplifier equipped with DTS decoder or a DTS decoder	Digital input jack	See <b>E</b> .

## Before making connections

- **Connect the AC cords of the unit and external equipment at the end, after finishing the other connections.**
- Insert the plugs completely into the jacks. Loose connections may produce a humming sound or other noise interference.
- When using an optical connection, remove the dust cap from the DIGITAL OUT (OPTICAL) jack on the rear of this unit. Keep the cap in store. When not using optical connections, the dust cap should be in place.
- Refer to the instructions for the connected equipment.

## CAUTION

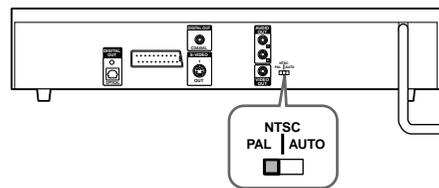
Do not select **"DOLBY DIGITAL/PCM or Stream/PCM"** in the "Digital Audio Output" when connecting to an AV amplifier not equipped with a Dolby Digital decoder or DTS decoder (with an optical or coaxial connecting cord). Merely attempting to play a DVD may cause a high level of noise which could be harmful to your ears and damage the speakers. In such a case, be sure to select **"PCM"** in the "Digital Audio Output".

## NOTES

- When the picture noise appears while copy-protected DVDs are played, connect the unit directly to a TV set. Do not connect through a VCR, TV/VCR or AV selector.
- For the speakers and their connection, refer to the instructions for the AV amplifier.

## TV SYSTEM SELECT switch

This switch enables you to make use of a TV set which is NTSC or Multi colour system. The default setting is "PAL".



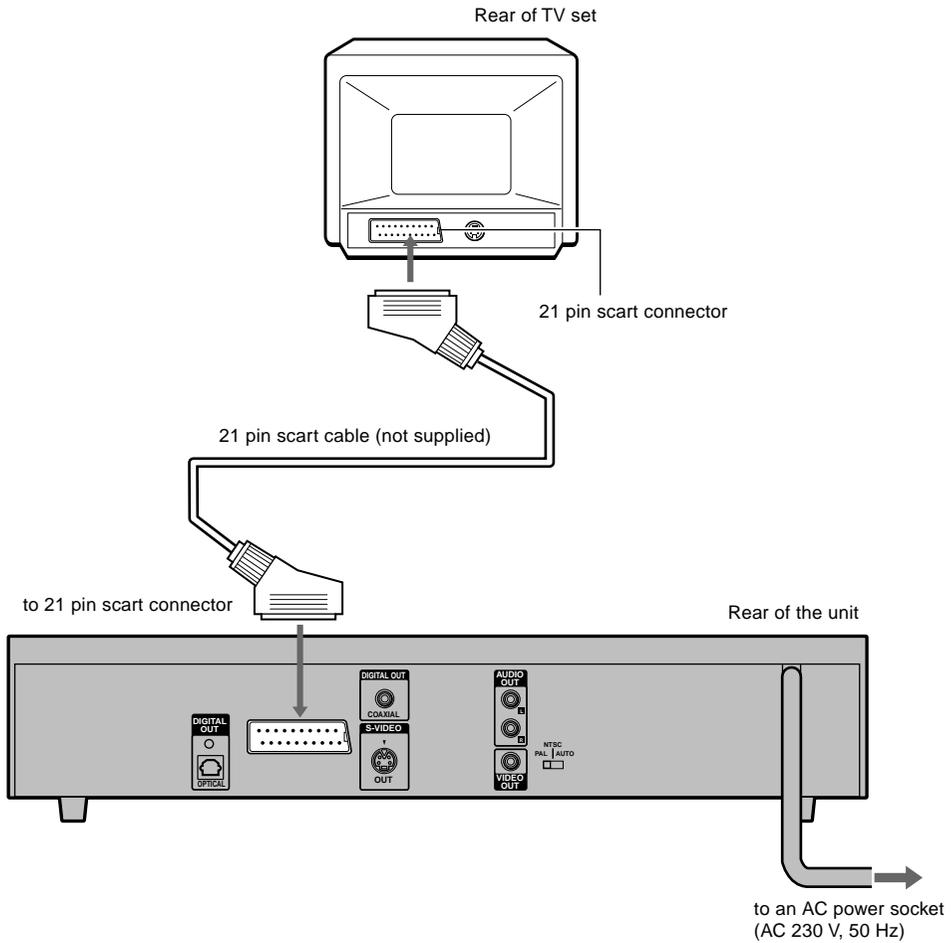
## Before turning on the unit;

- Set to **"PAL"**, when connecting to the TV set of PAL colour system.
- Set to **"AUTO"**, when connecting to the TV set of Multi colour system.
- Set to **"NTSC"**, when connecting to the TV set of NTSC colour system.

## NOTE

The unit cannot playback DVDs and video CDs that are recorded in the PAL colour system, if "NTSC" is set.

**A** Connecting to a TV set only



When your TV set is equipped with an S-video input terminal, see page 17.

**Set the setup menu correctly after connecting!**

According to the audio equipment and TV set to which the unit is connected, set the "TV Aspect" of the setup menu correctly referring to the following below. See "CHANGING SETUP VALUE" on page 39 in detail.

**TV Aspect**

When your TV set is a conventional-screen size TV:  
4:3 Letter box

When your TV set is a wide-screen size TV:  
16:9 Wide

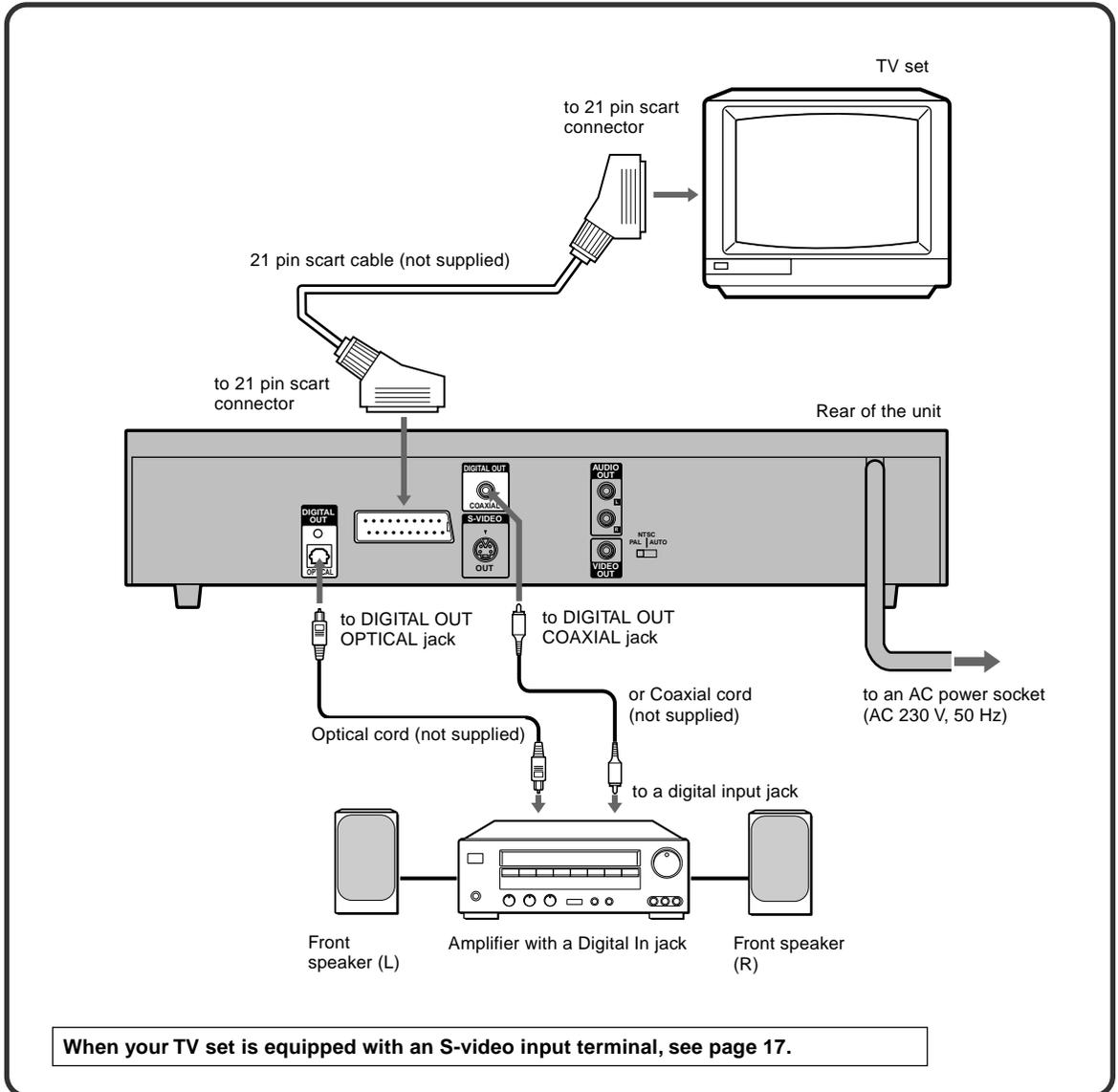
**NOTE**

When the picture noise appears while copy-protected DVDs are played, connect the unit directly to a TV set. Do not connect through a VCR, TV/VCR or AV selector.

## CONNECTIONS (CONTINUED)

### **E** Connecting to a TV set and an amplifier with a Digital In jack

Use either the commercially available optical cord or 75 ohm coaxial cord when connecting this unit to an AV amplifier with a Digital In jack. The supplied video cord is also available instead of the coaxial cord.



#### **Set the setup menu correctly after connecting!**

According to the audio equipment and TV set to which the unit is connected, set the "Digital Audio Output" and "TV Aspect" of the setup menu correctly referring to the following below.

See "CHANGING SETUP VALUE" on page 39 in detail.

#### **Digital Audio Output**

PCM

#### **TV Aspect**

When your TV set is a conventional-screen size TV:

4:3 Letter box

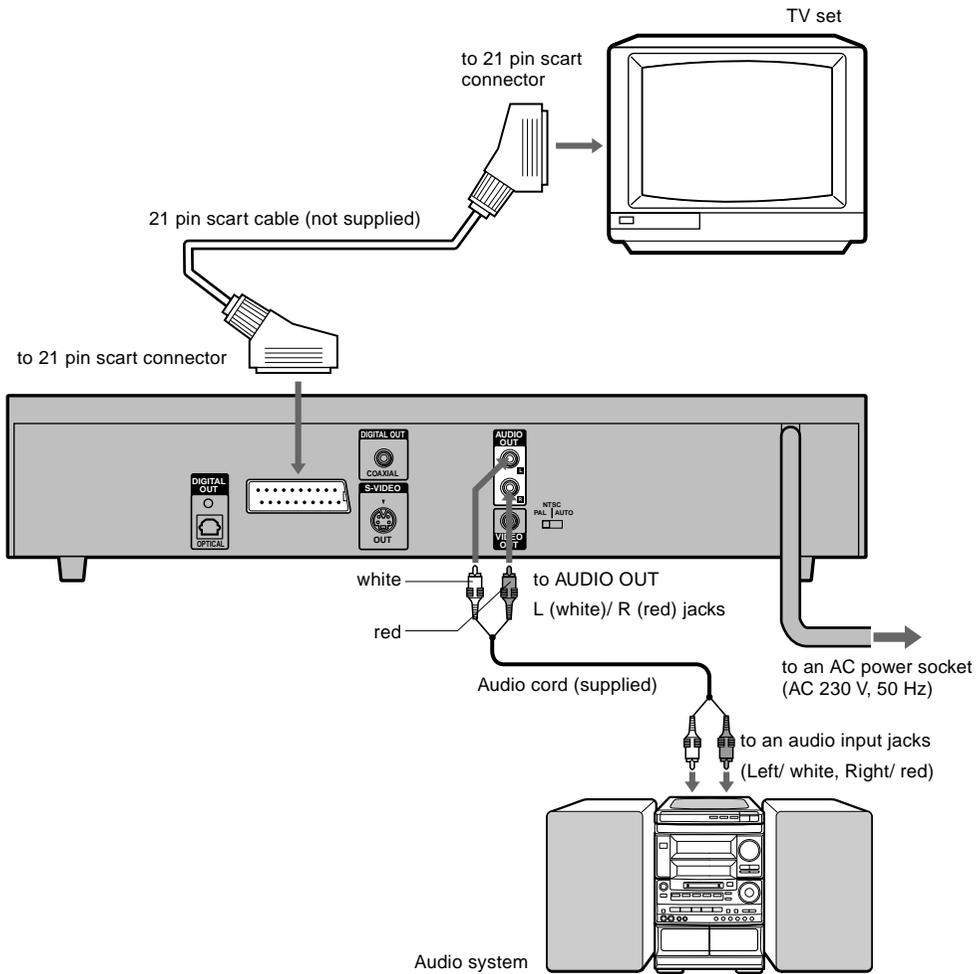
When your TV set is a wide-screen size TV:

16:9 Wide

#### **NOTE**

When the picture noise appears while copy-protected DVDs are played, connect the unit directly to a TV set. Do not connect through a VCR, TV/VCR or AV selector.

**C Connecting to a TV set and an audio system**



**When your TV set is equipped with an S-video input terminal, see page 17.**

**Set the setup menu correctly after connecting!**

According to the audio equipment and TV set to which the unit is connected, set the "TV Aspect" of the setup menu correctly referring to the following below. See "CHANGING SETUP VALUE" on page 39 in detail.

**TV Aspect**

- When your TV set is a conventional-screen size TV:  
4:3 Letter box
- When your TV set is a wide-screen size TV:  
16:9 Wide

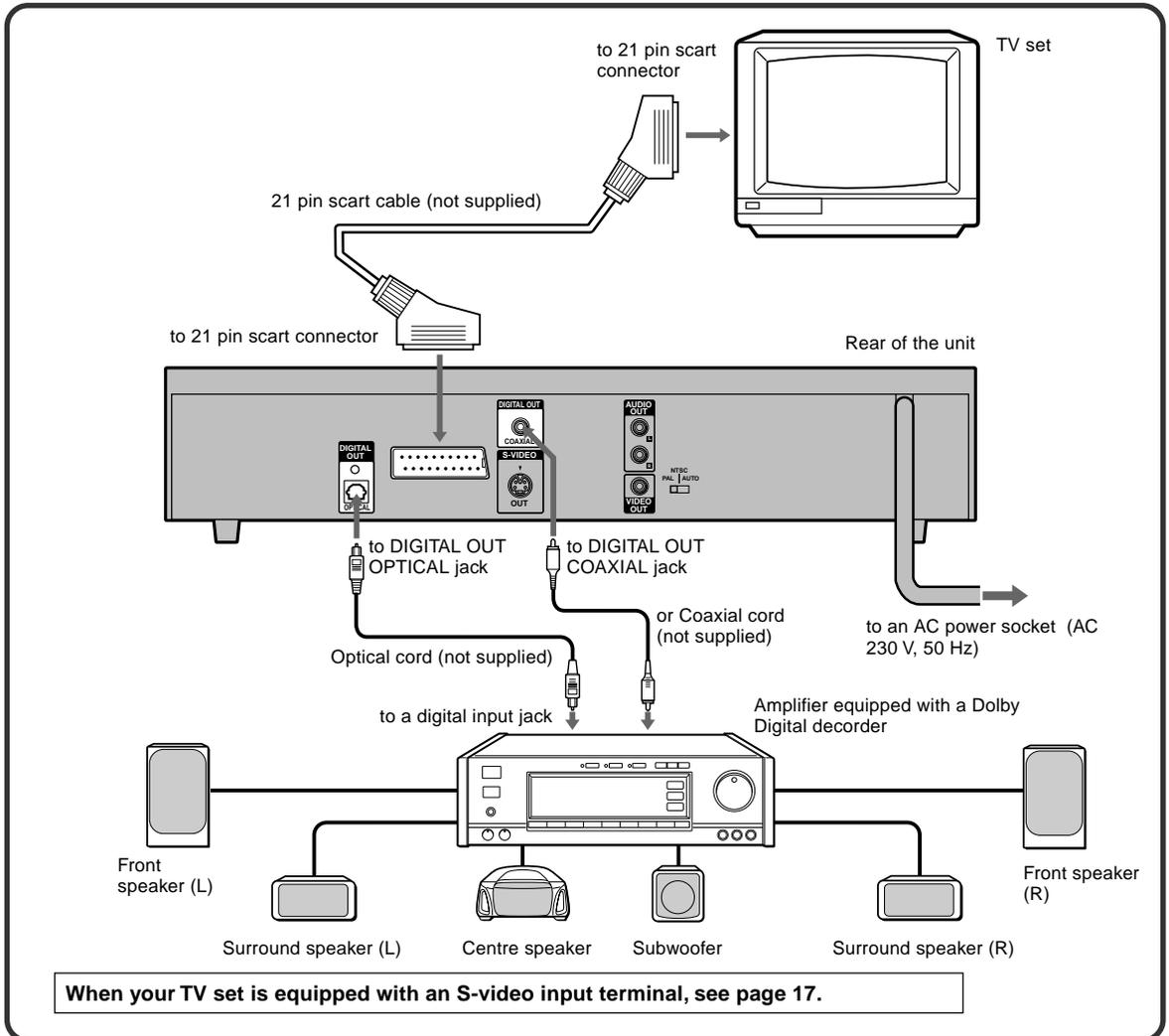
**NOTE**

When the picture noise appears while copy-protected DVDs are played, connect the unit directly to a TV set. Do not connect through a VCR, TV/VCR or AV selector.

## CONNECTIONS (CONTINUED)

### D Connecting to an AV amplifier equipped with a Dolby Digital (AC-3) decoder

Use either the commercially available optical cord or 75 ohm coaxial cord when connecting this unit to an AV amplifier with a Digital In jack. The supplied video cord is also available instead of the coaxial cord.



#### Set the setup menu correctly after connecting!

According to the audio equipment and TV set to which the unit is connected, set the "Digital Audio Output" and "TV Aspect" of the setup menu correctly referring to the following below.

See "CHANGING SETUP VALUE" on page 39 in detail.

#### Digital Audio Output

DOLBY DIGITAL/PCM

#### TV Aspect

When your TV set is a conventional-screen size TV:

4:3 Letter box

When your TV set is a wide-screen size TV:

16:9 Wide

#### NOTE

When the picture noise appears while copy-protected DVDs are played, connect the unit directly to a TV set. Do not connect through a VCR, TV/VCR or AV selector.

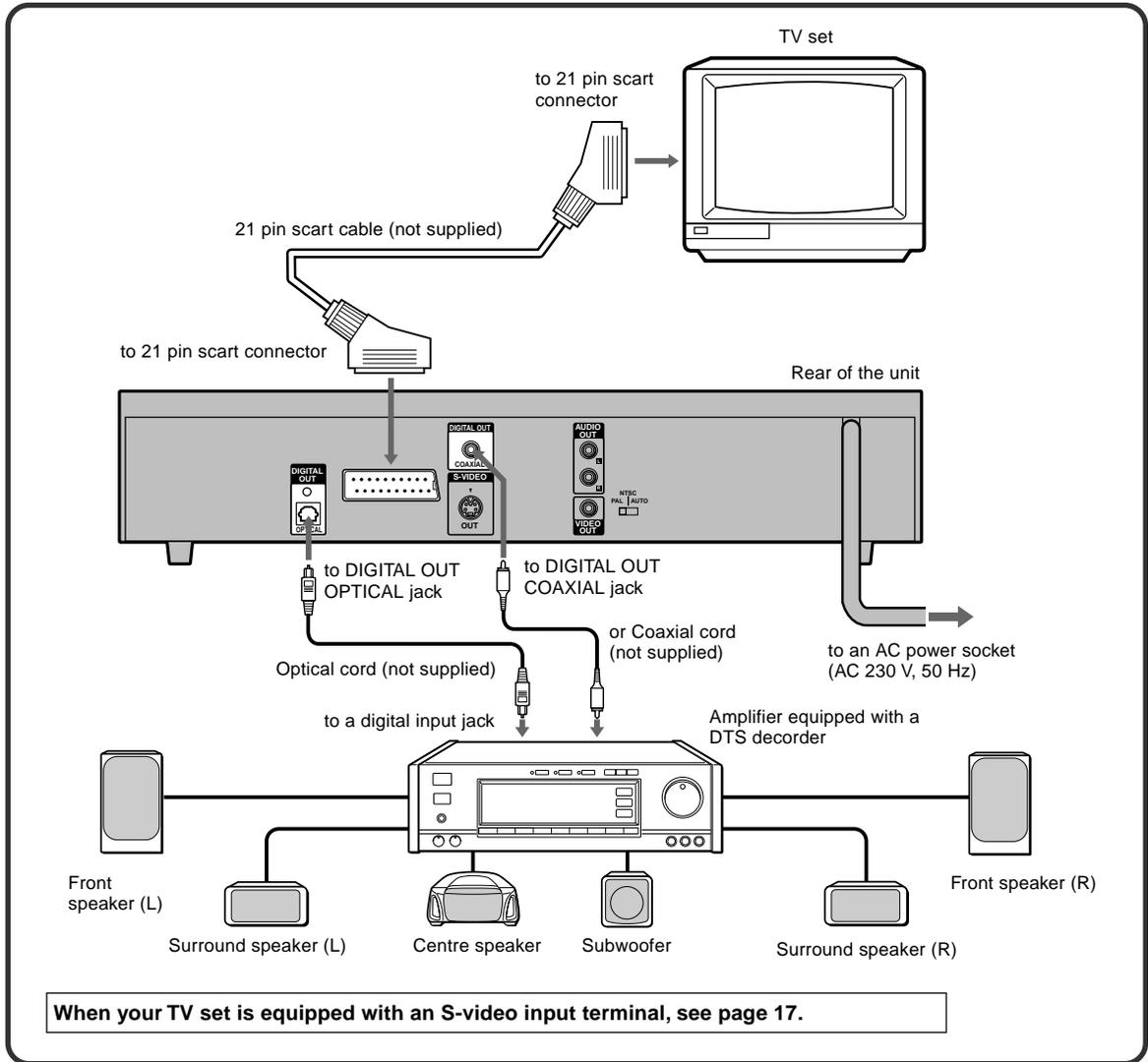
#### CAUTION

If the AV amplifier is not equipped with a Dolby Digital decoder, do not select "DOLBY DIGITAL/PCM" in the "Digital Audio Output" when connecting the AV amplifier with an optical or coaxial connecting cord.

Merely attempting to play a DVD may cause a high level of noise which could be harmful to your ears and damage the speakers. In such a case, be sure to select "PCM" in the "Digital Audio Output".

## Connecting to an AV amplifier equipped with a DTS decoder

Use either the commercially available optical cord or 75 ohm coaxial cord when connecting this unit to an AV amplifier with a Digital In jack. The supplied video cord is also available instead of the coaxial cord.



### Set the setup menu correctly after connecting!

According to the audio equipment and TV set to which the unit is connected, set the "Digital Audio Output" and "TV Aspect" of the setup menu correctly referring to the following below.

See "CHANGING SETUP VALUE" on page 39 in detail.

#### Digital Audio Output

Stream/PCM

#### TV Aspect

When your TV set is a conventional-screen size TV:

4:3 Letter box

When your TV set is a wide-screen size TV:

16:9 Wide

### NOTE

When the picture noise appears while copy-protected DVDs are played, connect the unit directly to a TV set. Do not connect through a VCR, TV/VCR or AV selector.

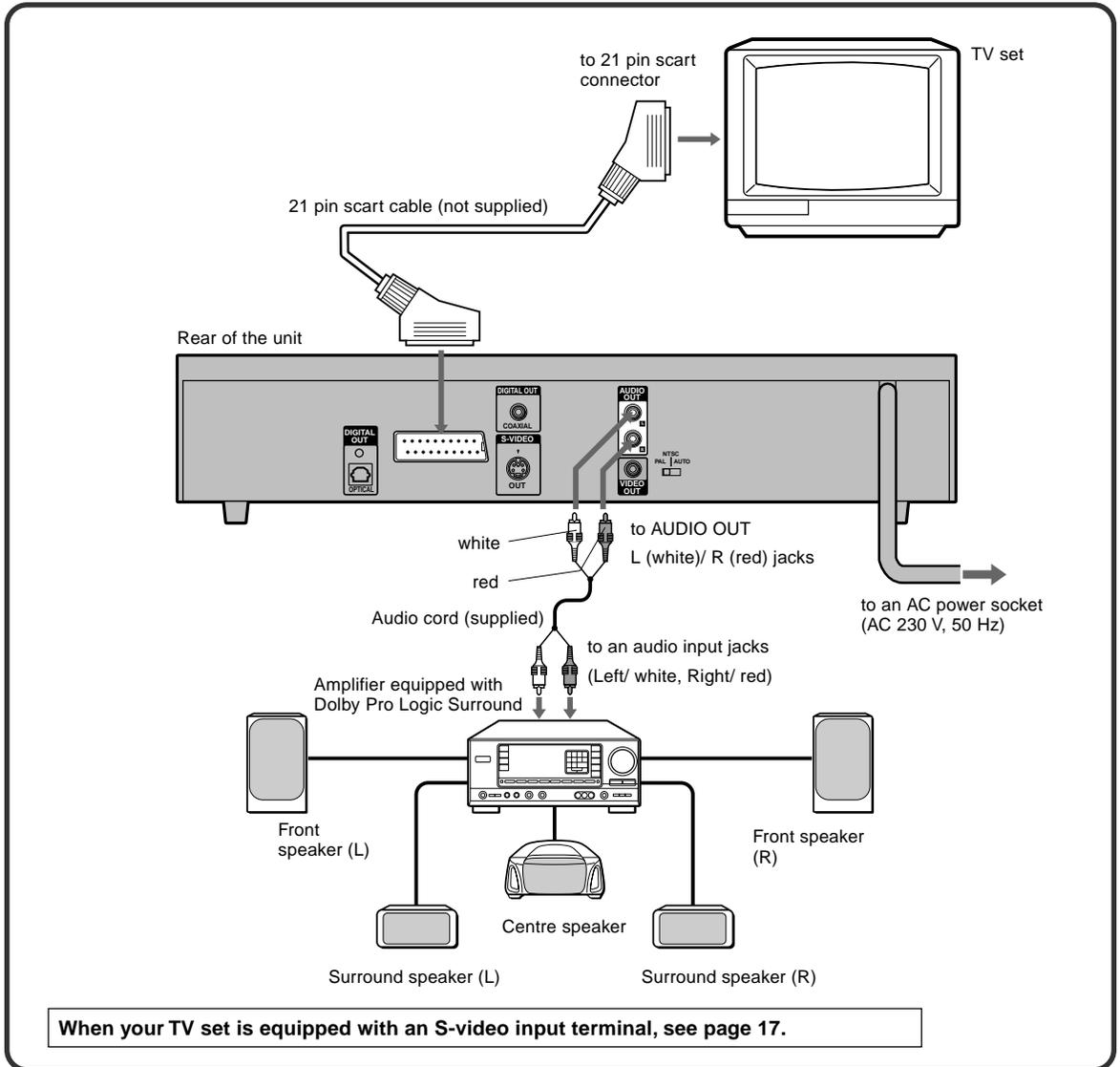
### CAUTION

If the AV amplifier is not equipped with a DTS decoder, do not select "Stream/PCM" in the "Digital Audio Output" when connecting the AV amplifier with an optical or coaxial connecting cord.

Merely attempting to play a DVD may cause a high level of noise which could be harmful to your ears and damage the speakers. In such a case, be sure to select "PCM" in the "Digital Audio Output".

## CONNECTIONS (CONTINUED)

### F Connecting to a TV set and an AV amplifier with the Dolby Pro Logic Surround system



#### Set the setup menu correctly after connecting!

According to the audio equipment and TV set to which the unit is connected, set the "Digital Audio Output" and "TV Aspect" of the setup menu correctly referring to the following below.

See "CHANGING SETUP VALUE" on page 39 in detail.

#### Digital Audio Output

DOLBY DIGITAL/PCM

#### TV Aspect

When your TV set is a conventional-screen size TV:

4:3 Letter box

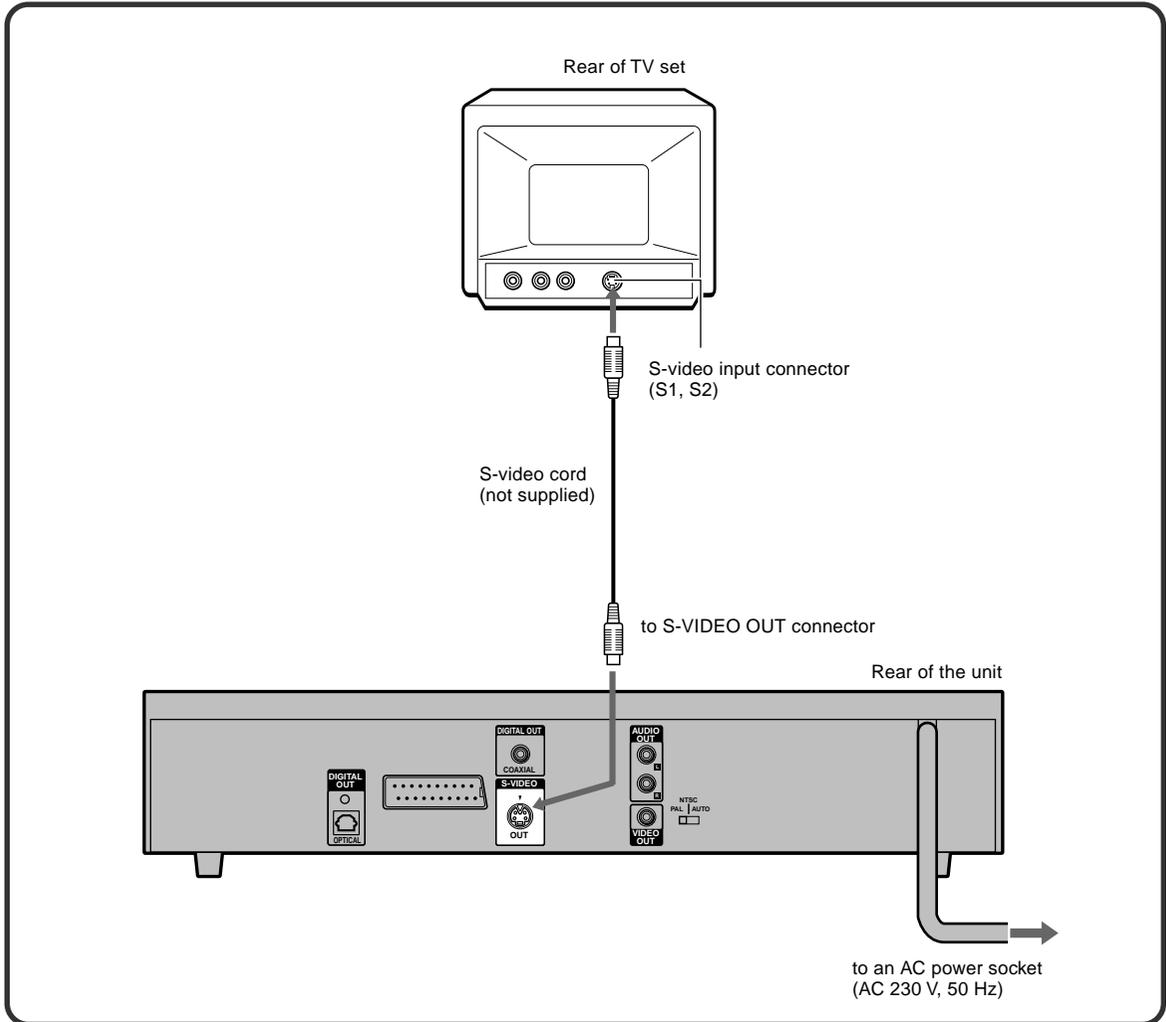
When your TV set is a wide-screen size TV:

16:9 Wide

#### NOTE

When the picture noise appears while copy-protected DVDs are played, connect the unit directly to a TV set. Do not connect through a VCR, TV/VCR or AV selector.

## Connecting to a TV set equipped with S-video jack



### Set the setup menu correctly after connecting!

Set the "TV Output Select" and "TV Aspect" of the setup menu correctly referring to the following below. See "CHANGING SETUP VALUE" on page 39 in detail.

#### TV Output Select

S-Video

#### TV Aspect

When your TV set is a conventional-screen size TV:

4:3 Letterbox

When your TV set is a wide-screen size TV:

16:9 Wide

### NOTE

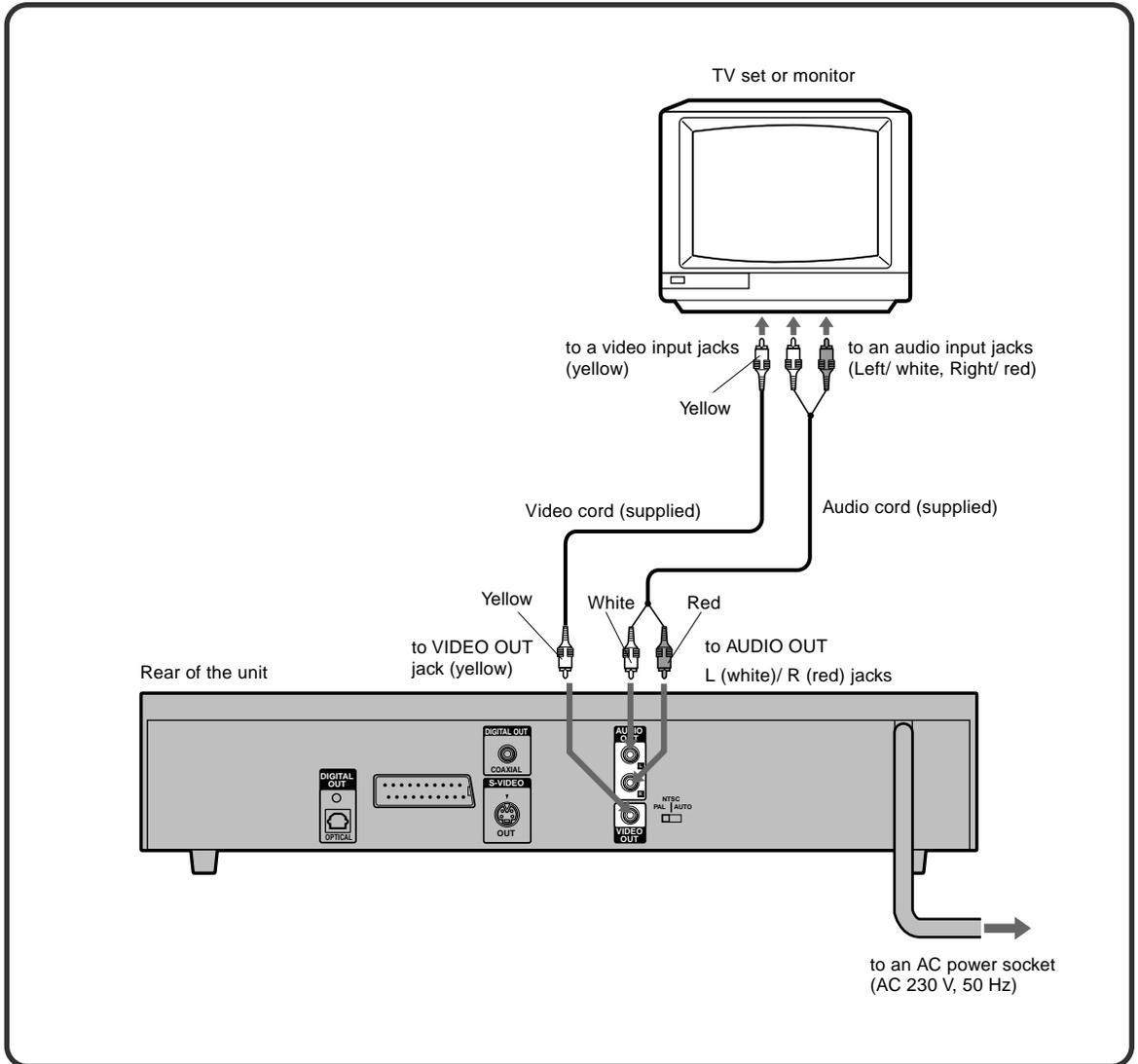
When the picture noise appears while copy-protected DVDs are played, connect the unit directly to a TV set. Do not connect through a VCR, TV/VCR or AV selector.

### CAUTION

Do not select "S-Video" when connecting to the TV set with the 21pin scart cable. Video signals are not output from the 21pin scart connector of this unit.

## CONNECTIONS (CONTINUED)

### Connecting to a TV set or monitor with video input connector



#### Set the setup menu correctly after connecting!

Set the "TV Aspect" of the setup menu correctly referring to the following below.

See "CHANGING SETUP VALUE" on page 39 in detail.

#### TV Aspect

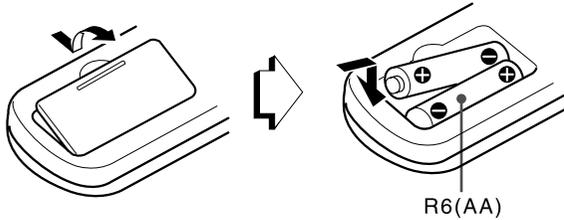
When your TV set is a conventional-screen size TV:  
4:3 Letterbox

When your TV set is a wide-screen size TV:  
16:9 Wide

# REMOTE CONTROL

## Installing batteries

Detach the battery cover on the rear of the remote control, and insert two R6 (size AA) batteries with  $\oplus$  and  $\ominus$  aligned correctly.



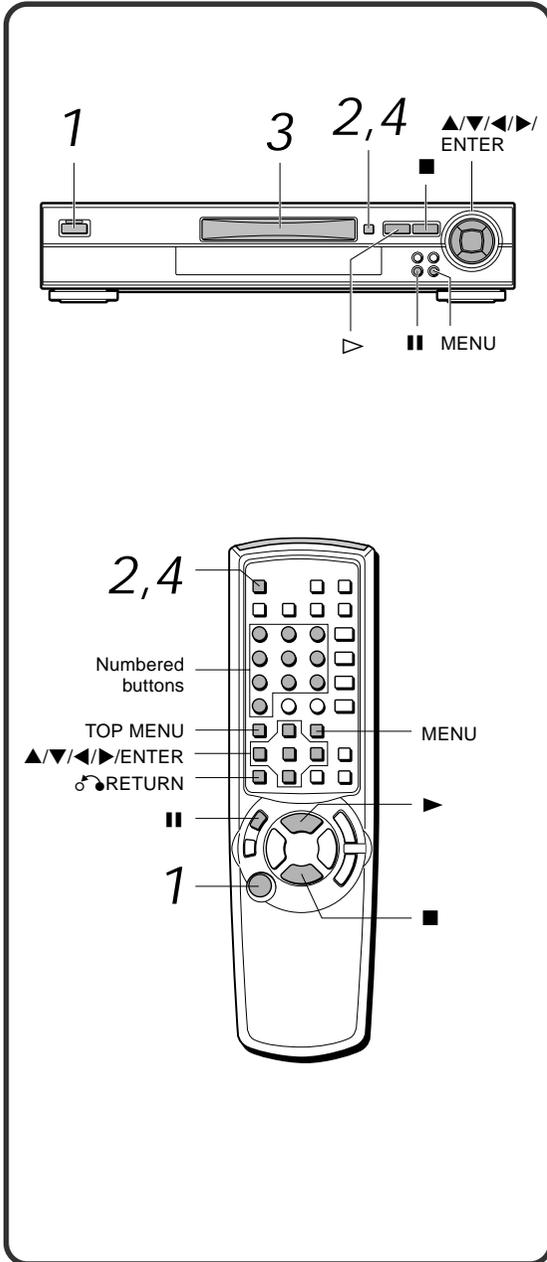
## When to replace the batteries

The maximum operational distance between the remote control and the sensor of the units should be approximately 7 meters. If this distance decreases, replace the batteries with new ones.

## NOTES

- When operating with the remote control, point the top of the remote control toward the player.
- If the unit is not going to be used for an extended period of time, remove the batteries to prevent possible electrolyte leakage.
- The remote control may not operate correctly when:
  - The line of sight between the remote control and the unit is exposed to intense light, such as direct sunlight
  - There is fluorescent lighting near the remote sensor in the display window.
  - Other remote controls are used nearby (those of a TV set, etc.).

# PLAYBACK

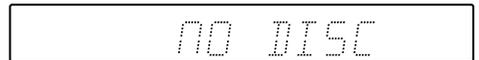


## Getting ready to play

- Turn on the television, and set its video source (Video 1, Video 2, Video 3, etc.) to the one connected to the DVD player.
- Turn on the audio device connected to the DVD player. Set its input source to the one connected to the DVD player.

### 1 Press POWER.

The power comes on, and the STANDBY/ON indicator turns green.



### 2 Press OPEN / CLOSE.

The disc tray opens.



### 3 Load a disc.

Place a disc in the tray guides (depression), with the label side facing up. When loading an 8-cm disc, place it in the inner depression.

### 4 Press OPEN / CLOSE.

The disc tray closes, and the DVD player automatically begins to play the disc.

If the disc does not begin to play, press .

- If a disc is placed in upside down, "DISC Error" will be indicated.

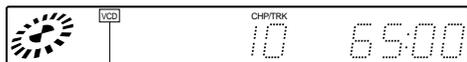


DVD:



#### About the symbol display

- The symbol will be displayed on the screen if you press a button which cannot be used or enter an incorrect number.
- Some DVD discs may have places where they do not allow pressing of the STOP, SKIP, or other buttons. The mark will be displayed on the screen if you press a button that is not allowed in such a place.

**Video CD with PBC:****CD/Video CD without PBC:**

"CD" is displayed when loading a CD.

**When the menu screen is displayed**

The menu screen may be displayed first after loading a DVD or VCD which contains a menu.

**DVD:** Use ▲▼◀▶ to select the program you would like to view, then press **ENTER** to begin playback. Press **TOP MENU** or **MENU** to return to the menu screen.

**VCD:** Use the numbered buttons to select the program you would like to view.  
Press ⏪ **RETURN** to return to the menu screen.

For either DVD or VCDs, menu continuations and the exact operating procedures for using the menu may vary from disc to disc. Follow the instructions on the menu screen.

**Tips**

This unit equips the Playback Control(PBC) On/Off function. After turning off the PBC, the unit can be play back the entire Video CD without returning to the menu screen, just like audio CDs. See "CHANGING SETUP VALUE", page 39.

**To turn the power off**

Press **POWER**. The unit enters the power standby mode, and the ⏻ **STANDBY/ON** indicator turns red.

**If 8 minutes have elapsed without performing any operation**

The unit enters the standby mode. Therefore, if you start repeat playback, for example, and leave the unit without performing any other operation for 8 minutes, the unit will stop and enter the standby mode.

**Still (Pause)**

Press **||** during playback.

**To return to normal playback**

Press ▶.

**Frame Advance (DVD, VCD)**

Press **||** while the disc is paused.

Each time you press the button, the program advances one frame. There is no audio when doing Frame Advance.

**To return to normal playback**

Press ▶.

**Stopping playback**

Press **■**.

When **■** is pressed during playback, the DVD player remembers the point at which playback stopped.

**To resume play from the point where it stopped**

Press ▶.

**To clear the point to be resumed**

Press **■** again.

When **▲OPEN/CLOSE** is pressed to open the disc tray or **POWER** is pressed to turn the power off, the point to be resumed is also cleared.

**NOTES**

- The disc continues to spin while the menu screen is displayed even if **■** is pressed. When you are finished using the DVD player, turn the power off after pressing **■**.
- During a VCD playback with the PBC feature turned on, resume function does not work.

Performing fast forward, fast reverse, or skipping operations during VCD playback with PBC on may cause the DVD player to return to the menu screen.

## PLAYBACK (CONTINUED)

### Fast Forward, Reverse

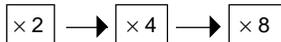
Press **▶▶** or **◀◀** on the remote control during playback.

Each time you press the button, the playback speed becomes faster as shown below.

DVD:



Video CD:



The playback speed is fixed to  $\times 2$  during playback of CDs.

**To return to normal playback**

Press **▶**.

#### NOTES

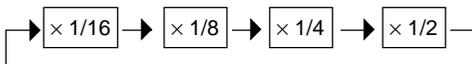
- There is no audio during DVD or Video CD playback.
- The search speed is the value of a disc which has an average bit rate. In some discs, the speed displayed on the display window may be different from the actual speed.

### Slow Playback (DVD/VCD)

Press **F.SLOW** or **B.SLOW** during playback.

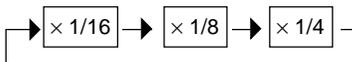
The playback speed changes each time the button is pressed, as shown below.

DVD Slow Playback



Video CD Slow Playback

- **F.SLOW** -



**To return to normal playback**

Press **▶**.

#### NOTES

- The **B.SLOW** playback does not work during VCDs playback.
- There is no audio during slow playback.
- Subtitles do not appear on the TV screen during slow playback.

### Skipping

Press **◀◀◀(◀◀◀/◀◀)** or **▶▶▶(▶▶▶/▶▶)**.

**Skip to the next chapter or track: ▶▶**

The disc position advances one chapter or track each time the button is pressed.

**Return to the previous chapter or track: ◀◀**

In each disc, pressing **◀◀** once skips to the beginning of the chapter (track) currently being played, and pressing **◀◀** twice skips to the previous chapter.

When pressing **◀◀◀(◀◀◀/◀◀)** during VCD playback, the reverse skipping playback only skips to the beginning of the track currently being played.

**To skip to the desired chapter or track directly using the remote control (VCD without PBC/CD)**

When stopped or during playback, enter the desired track number using the numbered buttons on the remote control.

Example: To play track 3

Press 3 on the remote control.

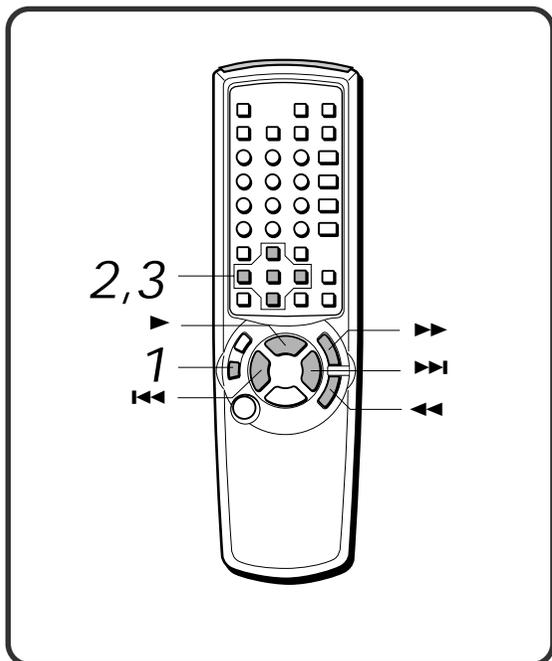
Example: To play track 20

Press 2, 0 on the remote control.

Playback begins at the beginning of the selected track.

## On Screen Display (OSD) menu

General playback status can be displayed on the TV screen. Some items only show the indicated information. Other items allow the settings to be changed.



**1** Press **ON SCREEN DISPLAY ON/OFF** during playback.

**2** Press **▲/▼** to select the desired item.

The currently selected item is indicated by a yellow frame on its OSD menu.

**3** Press **◀/▶** to select the desired setting.

When numbers are displayed (e.g. title NO.), the number buttons can also be used for setting instead of **◀/▶**. For some functions, the setting will be registered immediately; for others, **ENTER** must be pressed.

### To clear the OSD Menu

Press **ON SCREEN DISPLAY ON/OFF**.

### NOTE

If no button is pressed for 10 seconds, the OSD menu disappear.

### Examples of On Screen Display (OSD) menu

(The OSD menu may differ depending on the disc contents.)

#### DVD:



#### CD/Video CD without PBC:



#### Video CD with PBC:



## PLAYBACK (CONTINUED)

### Detailed description of each OSD menu

#### < DVD OSD >

Function (Press ▲/▼ to select desired item)	Selection method	Items
To show the current title No. and to skip to the desired title No.	◀▶, or Number ENTER	 1
To show the current chapter No. and to skip to the desired chapter No.	◀▶, or Number ENTER ◀◀▶▶	 1
To show the elapsed time and directly select scenes by the elapsed time.	Number ENTER	 0:16:57
To show the current audio soundtrack language, encoding method, channel No. and to change the settings.	◀▶, AUDIO SELECT	 1 ENG D D D 6 CH
To show the current subtitle language and to change the setting.	◀▶, SUBTITLE SELECT	 OFF
To show the current angle No. and to change the angle.	◀▶, ANGLE	 1
To show the current sound (NORMAL or 3D SURROUND) and to change the setting.	◀▶, SURROUND	 NORM.

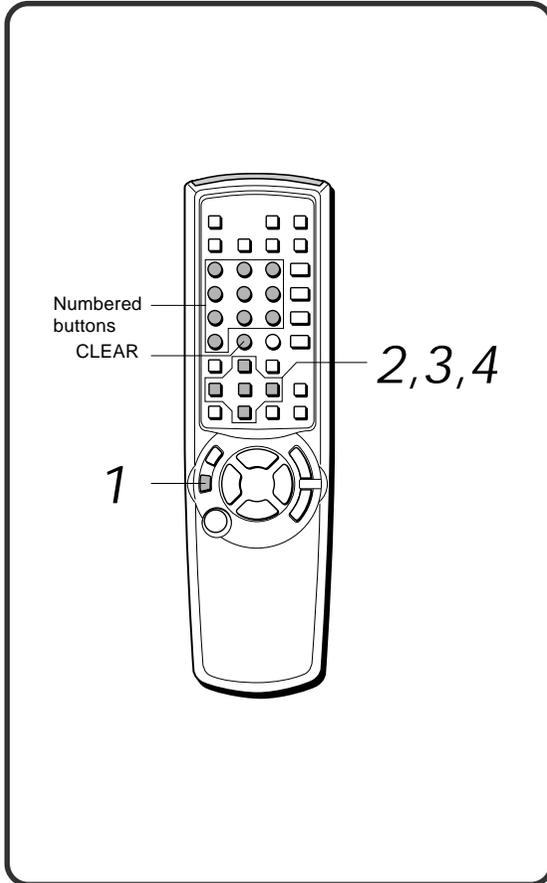
#### < VCD/CD OSD >

Function (Press ▲/▼ to select desired item)	Selection method	Items
To show the current track No. and to skip to the desired track No.	◀◀▶▶, ◀▶, or Number ENTER	 1
To show the elapsed time. (Display only)	—	 16:57
To show the current audio (STEREO, LEFT, RIGHT) and to select to the desired audio channel.	◀▶, AUDIO SELECT	 STER.
To show the current sound (NORMAL or 3D SURROUND) and to change the setting.	◀▶, SURROUND	 NORM.

#### NOTE

Some discs may not provide all of the above OSD menu.

# SEARCH



This DVD player provides three types of DVD searches.

## Title search

Specify a title number.

To use this feature with Video CDs that support PBC, turn off PBC first. (See "CHANGING SETUP VALUE" on page 39.)

## Chapter search

Specify a chapter number.

## Time search

Specify the elapsed time of the desired location.

## Title search (DVD)/Track search (VCD without PBC/CD)

- 1 Press **ON SCREEN DISPLAY ON/OFF**, either while playing or when stopped.

Go to step 3, if you press it while a DVD disc stops.

- 2 Press **▲** or **▼** to select "TITLE" or "TRACK".



- 3 Press **◀** or **▶** to enter the desired title or track number.



- Numbered button is also available to select the desired title number.

## How to enter numbers

Example: to play title number 2  
Press 2.

Example: to play title number 10  
Press 1, 0.

## If you enter the wrong number

Press **CLEAR** to remove the number you entered. Then enter the correct number.

- 4 Press **ENTER**.

Playback begins with the specified title or track.

## NOTE

If no button is pressed for 10 seconds, the OSD menu disappears.

## SEARCH (CONTINUED)

### Chapter search (DVD)

1 Press **ON SCREEN DISPLAY ON/OFF** during playback.

2 Press **▲** or **▼** to select "CHAPTER".



3 Press **◀** or **▶** to enter the desired chapter number.



- Numbered button is also available to select the desired chapter number.

#### How to enter numbers

Example: to play chapter number 17  
Press 1, 7.

#### If you enter the wrong number

Press **CLEAR** to remove the number you entered. Then enter the correct number.

4 Press **ENTER**.

Playback begins with the specified chapter.

#### NOTE

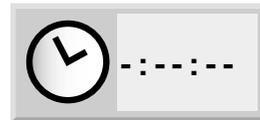
Chapter search will not work if you specify a chapter number which does not exist on the disc.

### Time search (DVD)

With a DVD which allows displaying of elapsed time, you can specify a time on the disc to search for a desired location.

1 Press **ON SCREEN DISPLAY ON/OFF** during playback.

2 Press **▲** or **▼** to select "TIME".



3 Use the numbered buttons to enter the time of the desired location.



#### How to enter numbers

Example: start play at 1 hour, 17 minutes, 30 seconds  
(1:17:30)

Press 1(hour), 1,7 (minutes), then 3, 0  
(seconds).

Example: start play at 8 minutes 7 seconds (0:08:07)  
Press 8 (minutes), then 0, 7 (seconds).

#### If you enter the wrong numbers

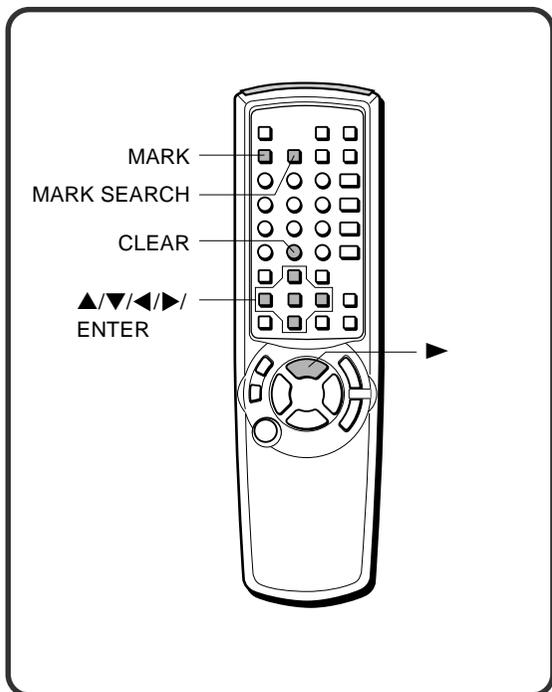
Press **CLEAR** several times to remove the numbers you entered. Then enter the correct numbers.

4 Press **ENTER**.

Playback begins at the specified location (time).

#### NOTES

- Time search does not work if you specify a time greater than the length of the disc.
- Time search may not work with some discs even if they are capable of elapsed time.



## Mark search (DVD)

Playback can restart from a memorized point. Up to 5 points can be memorized within the same title number.

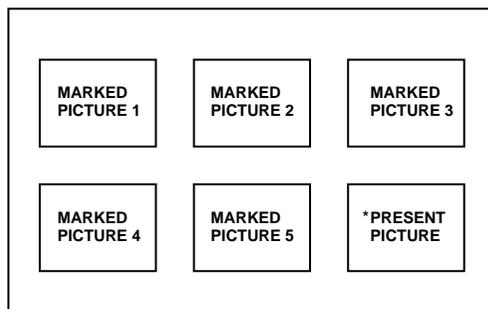
**To memorize a desired point, press MARK during playback.**



"Marker 1/5" is displayed and memorized. Each time you press **MARK**, the desired points are memorized.

**Restarting play from the memorized point**

**1** Press **MARK SEARCH** either while playing or when stopped.



\*The current picture being played is displayed.

**2** Press **▲/▼/◀/▶** to select the marked picture to be restarted.

**3** Press **▶** or **ENTER**.

Play resumes from the point corresponding to the selected marked picture.

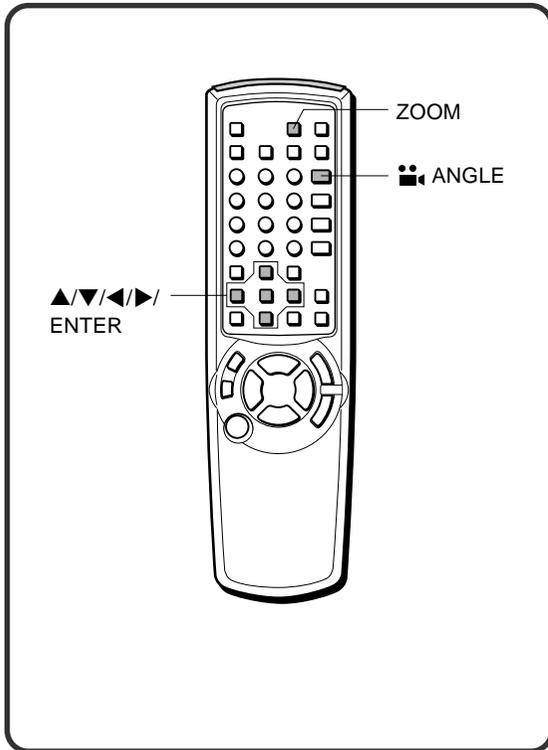
**To clear the memorized point, press ▲/▼/◀/▶ to select the marked picture then press CLEAR.**

The "PRESENT PICTURE" is not cleared.

### NOTES

- Mark search may not work on multi-angle scenes or subtitles recorded portions.
- All the marked pictures are cleared when the power is turned off or the disc is removed.
- When skipping or changing to an other title number, all of the memorized points are cleared.

# ZOOMING AND CHANGING THE ANGLE



## Changing the angle (DVD)

When playing a DVD which has been recorded in multi-angle (photographed from several different angles), you can select which angle you would like to view the action from.

When a multi-angle scene comes on during playback, "ANGLE" will blink in the display window to let you know that you can change the angle.

### 1 Press ANGLE during playback.

Number of angle being played back.



### 2 Press ANGLE repeatedly until the desired angle is selected.

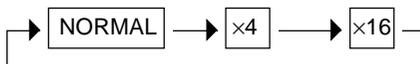


## Zoom function (DVD)

This function allows you to Zoom-in and enlarge the picture to either 4 times or 16 times.

### 1 Press ZOOM during playback or Still playback.

The zoom area changes each time the button is pressed, as shown below.



To move the zoom area, press .

### 2 Press ENTER.

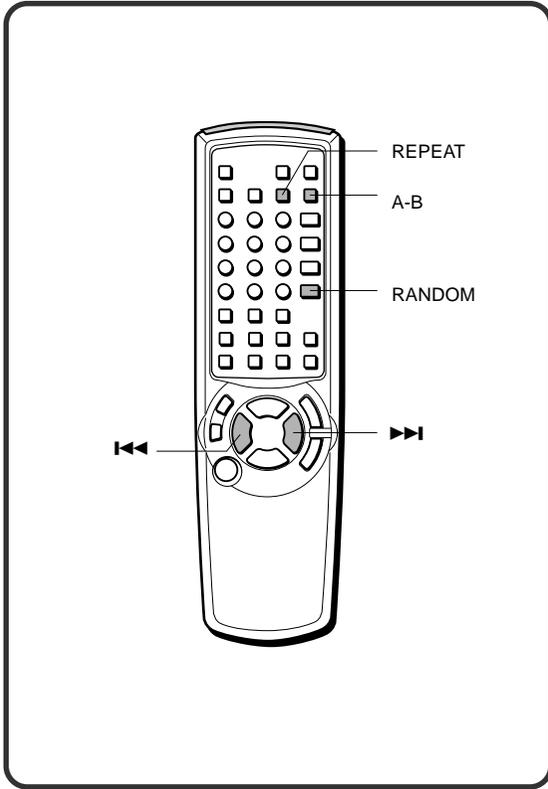
The selected zoom area is displayed in full size on the TV screen.

To return to the normal playback, press ZOOM repeatedly.

## NOTES

- Some DVDs may not respond to Zoom function.
- Zoom function may not work on multi-angle scenes.

# RANDOM AND REPEAT PLAYBACK



## Random playback (Karaoke DVD/CD)

### NOTES

- This function only works with DVD Karaoke discs and audio CDs.
  - Video CDs that are not equipped with PBC only allow Random playback as well as audio CDs.
- To turn off the PBC, see page 39.

## Press **RANDOM** either while playing or when stopped.

The DVD player automatically begins Random Playback and "RANDOM" indicator turns on. By pressing **◀◀** (**◀◀**/**◀◀**) or **▶▶** (**▶▶**/**▶▶**) during Random playback, the DVD player selects another title (track) and begins Random Playback.

### To resume normal playback

Press **RANDOM**. "RANDOM" indicator turns off.

## Repeat playback (DVD)

Press **REPEAT** during playback.

The repeat mode will change each time you press **REPEAT**.

### CHAPTER:

Repeat of the chapter being played.



TITLE: Repeat of the title being played.



OFF: Cancel repeat mode. (Normal playback)



### NOTES

- Title and Chapter repeat playback will be cancelled, when changing a title or chapter by pressing **▶▶**, **▶▶▶**, **◀◀** or **◀◀◀**.
- Title and Chapter repeat playback will be cancelled, when the DVD player is stopped.

## RANDOM AND REPEAT PLAYBACK (CONTINUED)

### Repeat playback (VCD without PBC/CD)

Press REPEAT during playback.

The repeat mode will change each time you press REPEAT.



ALL and TRACK cannot be used during menu playback with a video CD (when using the PBC feature).  
To turn off the PBC, see page 39.

#### NOTES

- TRACK repeat playback will be cancelled, when changing a track by pressing ►► (►►) or ◀◀ (◀◀).
- All repeat playback will be cancelled, when the DVD player is stopped.

### Repeating a portion between two specified points (A-B Repeat)

Allows you to select a portion of a track to be repeated. The portion to be repeated may not span a track boundary, but must be within a single track.

- 1 During playback, press A-B at the starting point of the section you want to repeat.



- 2 Press A-B again at the ending point of the section you want to repeat.

The player returns to point A and plays the section between A and B.



**To return to the normal playback**

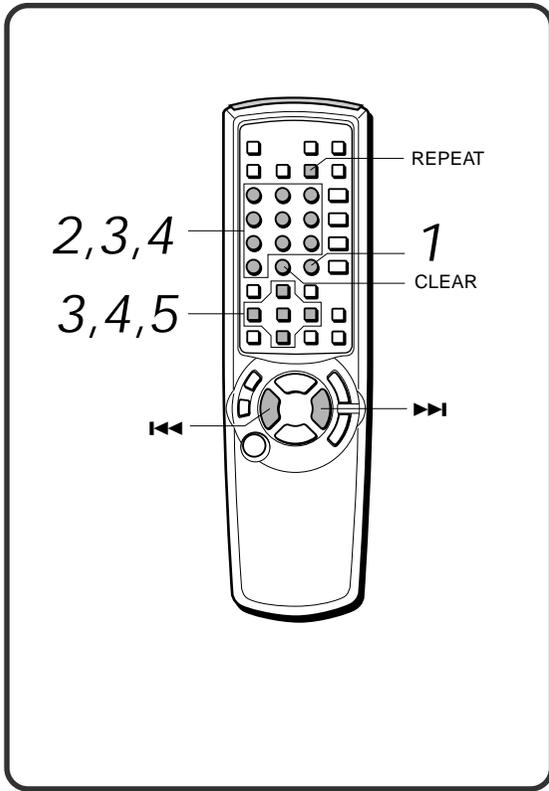
Press A-B again during playback.



#### NOTE

During a multi-angle scene, the unit may play the different scene that you memorized by pressing A-B button.

# PROGRAMMED PLAYBACK

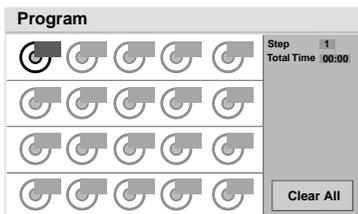


With video and audio CDs, you can select the tracks you would like to play, and play them in any order. You can specify up to 20 tracks.

To use this feature with Video CDs that support PBC, turn off PBC first. (See "CHANGING SETUP VALUE" on page 39.)

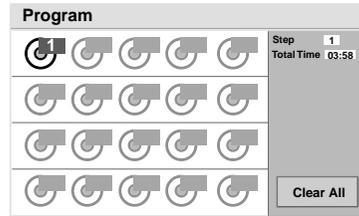
## 1 Press PROGRAM either while playing or when stopped.

The program menu screen appears on the TV screen.

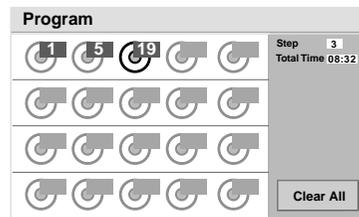


- To exit the screen, press **PROGRAM**.

## 2 Press the numbered buttons to select the desired track number.



## 3 Press ► and press the numbered buttons to select the desired track number.



## 4 Repeat step 3.

## 5 Press ENTER to start playback.

The selected tracks are stored in the memory and play now begins in the programmed sequence.

### After playback

Programmed playback is stopped.

### To play the programmed playback repeatedly

1 Follow all the above steps of "Programmed playback" to program tracks.

2 Press **REPEAT**.

The programmed tracks are played repeatedly.

### To skip tracks

Press ◀◀ or ▶▶ repeatedly. Playback skips to the previous or succeeding tracks within the program.

### To delete a track from the program

Press ▲/▼/◀▶ to select the unwanted track and press **CLEAR**.

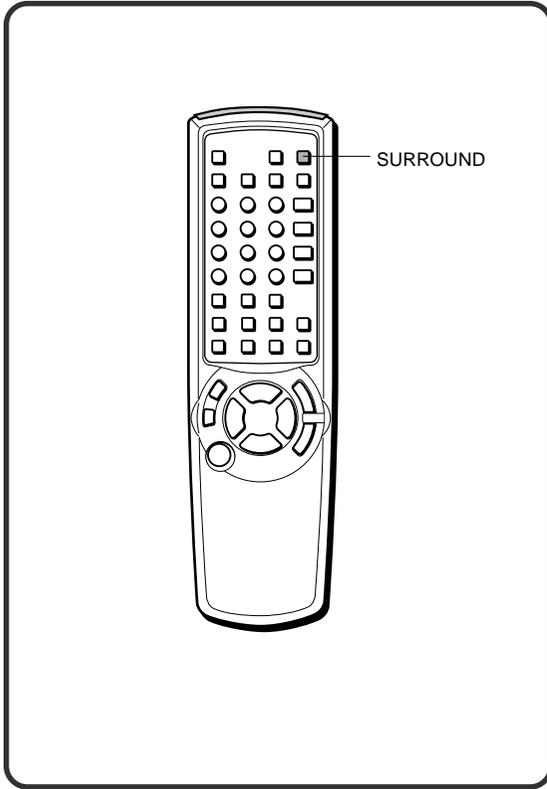
### To clear all the programs

1 Press ▲/▼/◀▶ to select the "Clear All" and press **ENTER**.

2 Press **ENTER** again.

(The programs are also cleared when the disc is removed.)

# CREATING A 3D SURROUND EFFECT



The DVD player can produce a 3D Surround effect, using Spatializer™ N-2-2™ technology, which simulates multi-channel audio playback from two conventional stereo speakers, instead of the five or more speakers normally required to listen to multi-channel audio from a home theater system. This feature works with DVD discs encoded with Dolby Pro Logic, Dolby Digital (AC-3).

## 1 Press SURROUND during playback.

Each time this button is pressed, the TV screen display changes:



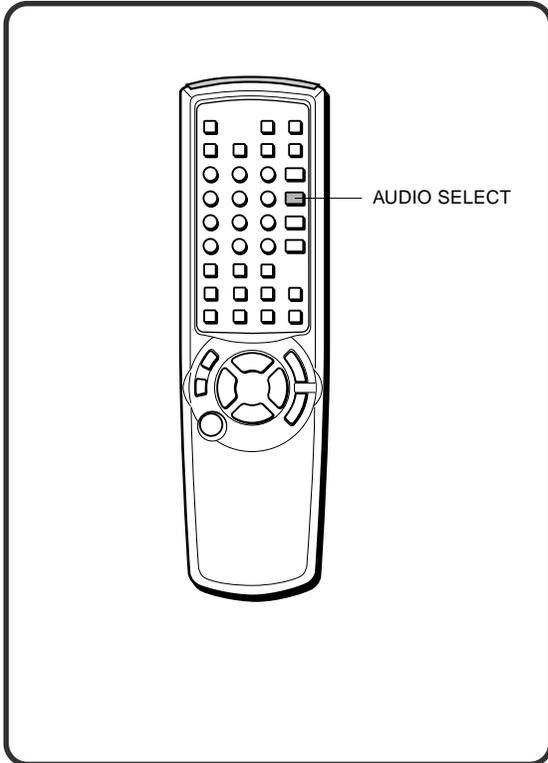
## 2 Press SURROUND repeatedly until the desired sound is selected.



### NOTES

- This 3D Surround effect may not be available on some DVD discs, such as those recorded with a mono audio soundtrack.
- Turn off the TV surround sound and other surround effects when using this 3D surround effect.
- For best 3D Surround effect using only two speakers it is recommended that the two speakers be positioned approximately 2m to 2.5m apart, and the listening position should be 2m to 2.5m away from the speakers.
- Do not press SURROUND while recording the music. The sound signals which come from this unit are intermitted.

# CHANGING THE AUDIO TRACK



Some discs have more than one audio track, such as soundtracks with different languages. While playing such a disc, the audio track can be changed to hear the different soundtracks.

## Changing audio tracks (DVD)

**1** Press **AUDIO SELECT** during playback.

Number of the audio soundtrack language being played back is displayed.



**2** Press **AUDIO SELECT** repeatedly until the desired language is selected.



- When playing a DVD with soundtracks in multiple languages, the audio will automatically be played in the language which was selected when the DVD player was set up. If there is not a soundtrack in that language on the disc, the disc will determine which audio track is played.
- The audio track may only be changed for discs which contain multiple audio tracks.
- The number of audio tracks available differs from disc to disc.

## Changing audio tracks (VCD/CD)

**1** Press **AUDIO SELECT** during playback.

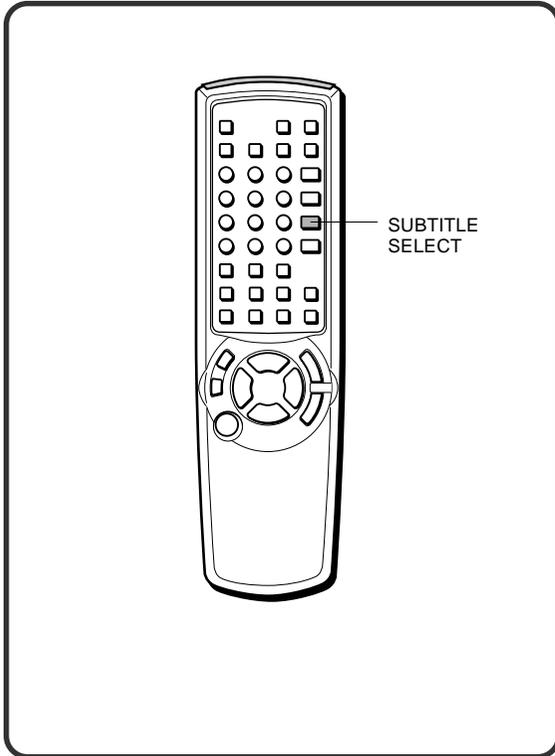


**2** Press **AUDIO SELECT** repeatedly until the desired sound is selected.

Each time you press the button, the display changes as follows.



# DISPLAYING AND CHANGING SUBTITLES



When playing DVD discs which contain subtitles, you can display the subtitles on the screen or change the language of the subtitles.

## 1 Press **SUBTITLE SELECT** during playback.

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



## 2 Press repeatedly **SUBTITLE SELECT** until the desired language is selected.

Number of the subtitle language being played back is displayed.



- The  symbol will be displayed if you try to show subtitles with a disc which does not contain them.
- The first subtitles displayed will be in the subtitle language selected with the subtitle setting (see page 39). If there are no subtitles in that language on the disc, the disc will determine which subtitles are shown.
- Subtitles may only be changed with discs which contain more than one set of subtitles.
- The number of subtitle languages varies from disc to disc.
- With some discs, it may take a few moments after you press **SUBTITLE SELECT** for the new subtitles to be displayed.

### To eliminate the On Screen Subtitles.

Press **SUBTITLE SELECT** repeatedly to select **OFF** at step 2.

### NOTE

When a disc supporting the closed caption is played, the subtitle and the closed caption may overlap each other on the TV screen. In this case, turn the subtitle off.

# PLAYING BACK AN MP3 DISC

The DVD player can play back MP3 recorded on a CD-ROM, CD-R or CD-RW discs.

Before playing back an MP3 disc, read the following notes.

## Notes on MP3 disc

### About MP3

- An MP3 file is audio data compressed by using MPEG1, the audio layer-3 file-coding scheme. We call files which have the ".mp3" extension "MP3 files".
- The unit cannot read an MP3 file which has a file extension other than ".mp3".
-  is displayed on the MP3 menu if a non-MP3 file was included in a directory or folder.
- Noises may be heard if you play a non-MP3 file that has the ".mp3" extension.

### The restriction of playing back MP3

- This unit can recognize up to 256 including files and folders per disc. A disc recorded with more than 256 cannot be played, including files and folders.
- The maximum allowable depth of nested folder is 50, including files.
- The unit may not play MP3 files in the order that you recorded them on the disc.
- The unit plays only the first session with a multi session disc.
- The unit plays only audio tracks if a disc contains both audio tracks and MP3 files.
- It may take over 30 seconds to read the MP3 files, depending on the complexity of the folder tree.

### The limitation of indications

- Up to 14 characters are displayed for the name of a folder or track.
- Characters other than uppercase letters ("A" to "Z"), numerals ("0" to "9") and underscore ("\_") may not be displayed, or may be displayed in different characters.
- The elapsed playing time on the display window may not be correct when playing MP3 files.
- Depending on the condition of the recording equipment or the CD-R/RW disc itself, a false folder or file which cannot be played on this unit is displayed on TV screen.

## Tips on recording MP3

- Enjoying high quality sound, we recommend to convert to MP3 files with a sampling frequency of 44.1kHz and a fixed bit rate of 128 kbps.

### To playback MP3 files in the order that you recorded

- 1 Writing software which is capable of recording MP3 files in numerical and alphabetical order is required.
- 2 Include a two or three digit number at the beginning of each file name. (e.g. "01", "02", ... or "001", "002", ...)
- 3 It's recommended that you use only the root folder (do not create child folder under the root folder).

## Glossary

### Extension:

An extension is the last three characters which divide a file name by period. The extension shows the attribution of the file.

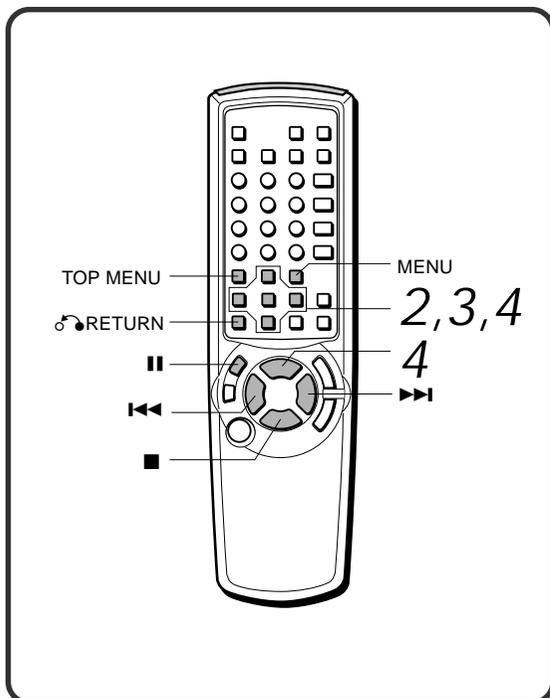
The extension of the MP3 file is "mp3".

### Session:

A session is one section on a disc between the beginning of written data and the end of written data.

A multi-session disc is a disc which has more than two sessions.

## PLAYING BACK AN MP3 DISC (CONTINUED)

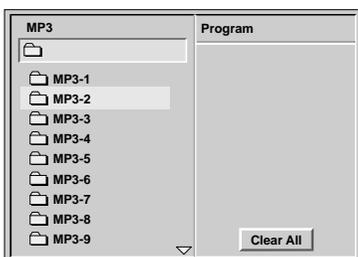


From the following explanations, we refer to what are called "MP3 file" and "folder" in PC terminology as "track" and "album", respectively.

### Playing back with MP3

#### 1 Load an MP3 disc.

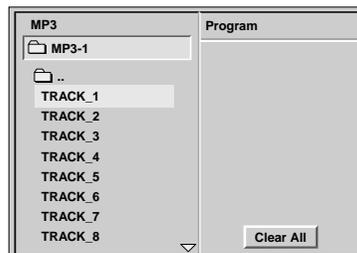
The MP3 menu is displayed.



#### NOTES

- It may take over 30 seconds to read the MP3 files, depending on the complexity of the folder tree.
- If you press **RETURN**, **MENU** or **TOP MENU** during playback, the playback stops.

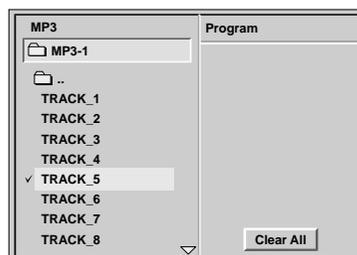
#### 2 Press **▲/▼** to select the album with the track that you want to play back.



To return to the previous MP3 menu  
Press **RETURN**.

To move to the first MP3 menu  
Press **MENU**.

#### 3 Press **ENTER** and Press **▲/▼** to select the desired track.



To return to the top of page within the album  
Press **TOP MENU**.

Pressing **TOP MENU** repeatedly, the pages within the album will change by turns.

#### 4 Press **ENTER** or **▶**.

Playback starts and will stop after playing back all of the tracks within the album.

To skip to the desired track during playback

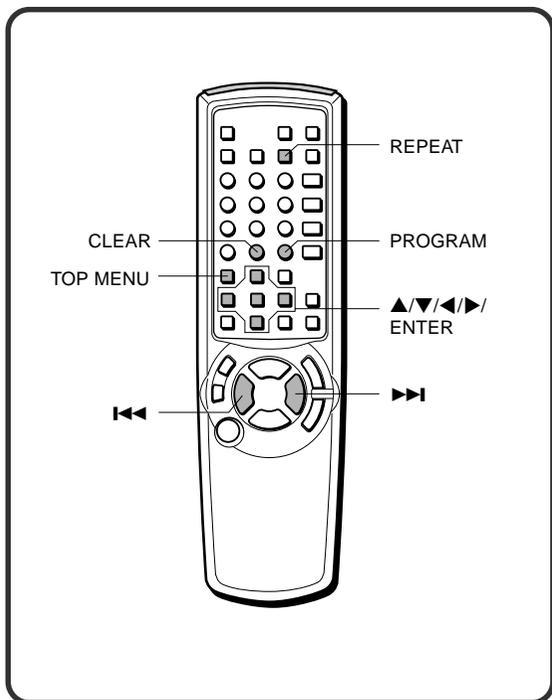
Press **▶▶** or **◀◀** repeatedly during playback.  
Or press **▲/▼** to select the desired track and press **ENTER**.  
Playback skips to the desired track within the album.

To stop playback

Press **■**.

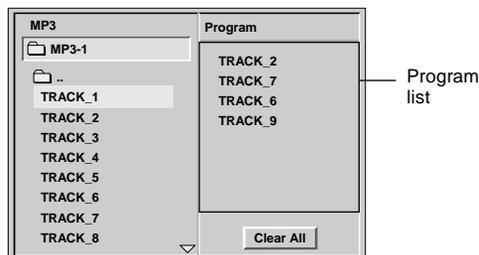
To pause playback

Press **||** during playback. To return to play back, Press **▶**.



### 3 Press PROGRAM to list the selected track on MP3 Program list.

Repeat step 2 to 3 to select tracks within the album or select another track in an other album.



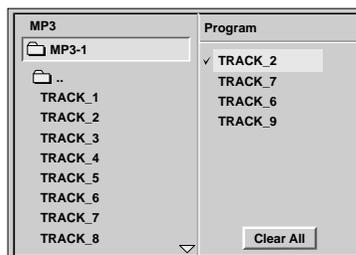
#### To check the order of programmed tracks

Press ►. Then press TOP MENU.

The program lists will change by turns when more than 9 tracks are selected. Press ◀ after checking.

### 4 Press ► to select the desired track. Then press ENTER or ► to start.

Playback begins in the listed sequence.



#### NOTE

Comparing with Audio CD operations, the following playback and functions do not work when playing back an MP3 disc.

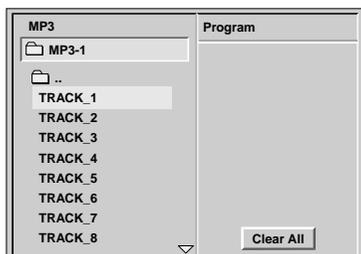
- Fast forward ►►, Fast reverse ◀◀, Random and A-B Repeat playback.
- OSD menu, Resume, Surround and Selecting audio track function.

## Programmed playback with MP3

Up to 60 tracks per disc can be programmed.

### 1 Follow step 1 to 2 on previous page.

### 2 Press ▲/▼ to select a track.



Playback stops after playing back all of the listed tracks on the MP3 Program list.

#### To clear the programs one by one

Press ▲/▼ to delete the track on the MP3 Program list and then press CLEAR.

#### To clear all the programs

Press ▲/▼ to select "Clear All" on the MP3 Program list and then press ENTER.

The programs are also cleared when the disc is removed.

#### To return to the normal playback

Press ◀. Then select a desired track or an album.

#### NOTES

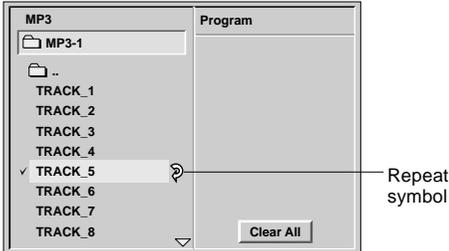
- RETURN and MENU buttons do not work during programmed playback.
- If you press TOP MENU repeatedly during programmed playback, the playback begins at the first track on each page of the program list.

# PLAYING BACK AN MP3 DISC (CONTINUED)

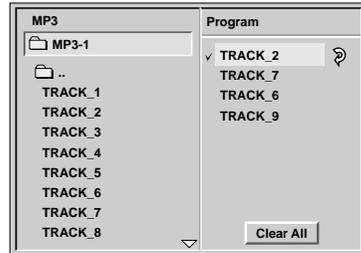
## Repeat playback with MP3

### To play back a track repeatedly

Press **REPEAT** once during playback.  
The current track will be played back repeatedly.

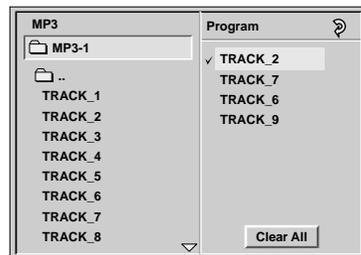
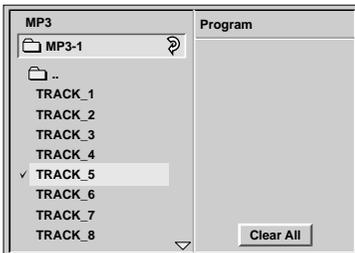


**To play back a programmed track repeatedly**  
Press **REPEAT** once during programmed playback.  
The current track will be played back repeatedly.



**To play back all of the listed tracks repeatedly**  
Press **REPEAT** twice during programmed playback.  
All of the listed tracks on the MP3 Program list will be played back repeatedly.

**To play back an entire album repeatedly**  
Press **REPEAT** twice during playback.  
All of the tracks within the album will be played back repeatedly.

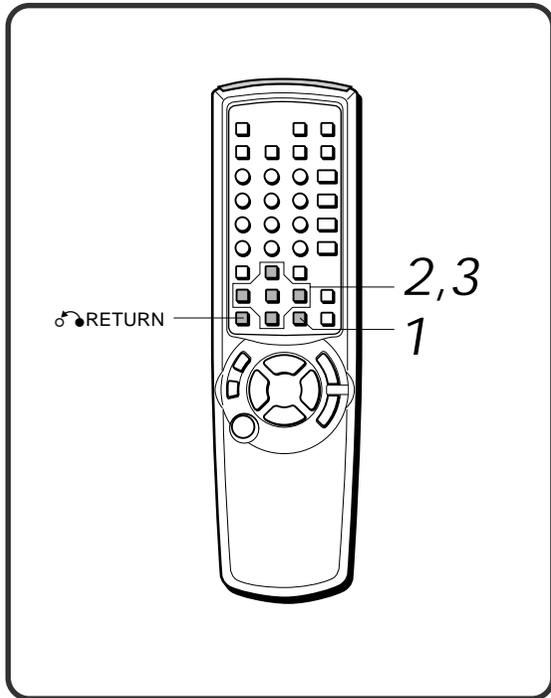


**To cancel repeat playback**  
Press **REPEAT** repeatedly until the Repeat symbol turns off.

### NOTE

Repeat playback with a track will be cancelled when pressing ▲/▼, ⏮ or ⏭.

# CHANGING SETUP VALUES



Your DVD player comes from the factory with all the basic items set properly.

- Check the "Digital Audio Output" and "TV Aspect" settings to make sure they are correct for the type of equipment connected to your DVD player. For more information, please refer to the "Connections" section, which begins on page 10.
- Change any other settings according to your individual setup and preferences.

## Basic operations

**1** Press **SETUP** either while playing or when stopped.

The setup menu is displayed.



**2** Press **▲/▼** to select the desired item.

### Disc Audio\*

Sets the audio soundtrack language.

### Disc Subtitle\*

Sets the subtitle language .

### Disc Menu\*

Sets the language used in the menu screen.

\* If the language selected by these settings does not exist on the disc, the disc's default language is used.

### Rating

When playing discs with preset restriction level encoding, this setting allows the unit to automatically cut scenes of excessive violence, etc.

### Password

Sets the password to prevent children from changing the restriction level.

### TV Aspect

Sets the aspect ratio of the television set to which the unit is connected.

### Menu Language

Sets the language on this setup menu.

### TV Output Select

Selects the video output jacks to be output video signals.

### CAUTION

Do not select "S-Video" when connecting to the TV set with the 21pin scart cable. Video signals are not output from the 21pin scart connector of this unit.

### Others

Sets the Pseudo PAL and PlayBack Control(PBC) function On/Off.

### Digital Audio Output

Sets the digital audio output to be output from the unit according to the type of audio equipment connected to the unit.

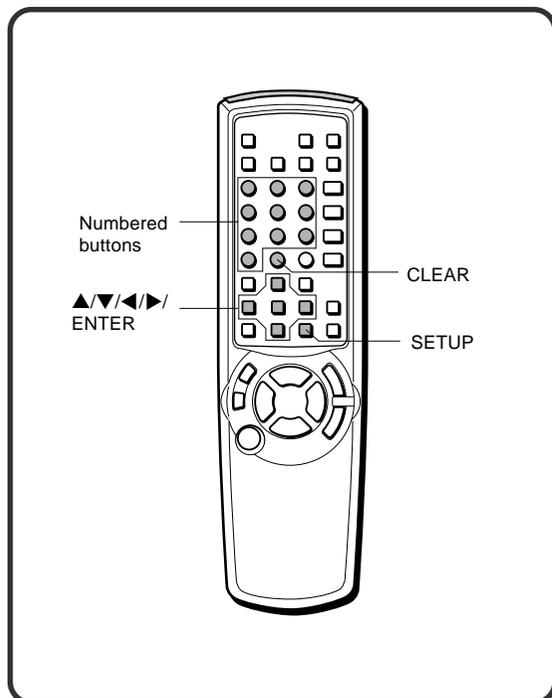
**3** Press **▶** and then **▲/▼** to select the desired setting and press **ENTER**.

- Some items require additional steps.

### To exit SETUP menu

Press **SETUP** or **RETURN**.

## CHANGING SETUP VALUES (CONTINUED)



### Disc Audio

The audio sound track language on a DVD disc can be changed. If the language selected is not available on the disc, the original language designated by each disc will be selected.

- 1 At the **SETUP** menu, press **▲/▼** to select "Disc Audio" and press **▶**.



- 2 Press **▲/▼** to select the desired language and press **ENTER**.

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

**English** : The English will be selected.

**French** : The French will be selected.

**German** : The German will be selected.

**Spanish** : The Spanish will be selected.

**Italian** : The Italian will be selected.

**Chinese** : The Chinese will be selected.

**Polish** : The Polish will be selected.

**Hungarian** : The Hungarian will be selected.

**Russian** : The Russian will be selected.

**Other** : Another language can be selected. You can input a 4-digit language code. (Refer to the language codes on page 47. Press **CLEAR** if an incorrect language code is entered.)

## Disc Subtitle

The subtitle language on a DVD disc can be changed. If the language selected is not available on the disc, the original language designated by each disc will be selected.

- 1 At the SETUP menu, press ▲/▼ to select "Disc Subtitle" and press ►.

Disc Audio	✓Original
Disc Subtitle	English
Disc Menu	French
Rating	German
Password	Spanish
TV Aspect	Italian
Menu Language	Chinese
TV Output Select	Polish
Others	Hungarian
Digital Audio Output	Russian
	Other ----

- 2 Press ▲/▼ to select the desired language and press ENTER.

## Disc Menu

The language used in the DVD menu can be changed. If the language selected is not available on the disc, the original language designated by each disc will be selected.

- 1 At the SETUP menu, press ▲/▼ to select "Disc Menu" and press ►.

Disc Audio	✓Original
Disc Subtitle	English
Disc Menu	French
Rating	German
Password	Spanish
TV Aspect	Italian
Menu Language	Chinese
TV Output Select	Polish
Others	Hungarian
Digital Audio Output	Russian
	Other ----

- 2 Press ▲/▼ to select the desired language and press ENTER.

## Rating

Some DVD discs contain a restriction level which enables parents to remove scenes or prevent playback of discs by children. The unit is equipped with a password designed to prevent children changing the level.

- 1 At the SETUP menu, press ▲/▼ to select "Rating" and press ►.

Disc Audio	8
Disc Subtitle	7
Disc Menu	6
Rating	5
Password	4
TV Aspect	3
Menu Language	2
TV Output Select	1
Others	►Unlock
Digital Audio Output	

- 2 Press ▲/▼ to select the desired level and press ENTER.

Disc Audio	8 Blocked
Disc Subtitle	7 Blocked
Disc Menu	✓6
Rating	5
Password	4
TV Aspect	3
Menu Language	2
TV Output Select	1
Others	Unlock
Digital Audio Output	

You cannot play DVD discs rated higher than the level you selected unless you cancel the parental lock function. For example, when you select level 6, discs rated higher than level 6 are blocked and cannot be played.

The parent lock level is equivalent to the following USA movie ratings.

### Example

Level 7: NC-17      Level 6: R      Level 4: PG 13  
Level 3: PG          Level 1: G

The password (4-digit) can be set not to change the Rating easily. After setting the password, the Rating can not be changed unless you input the password.

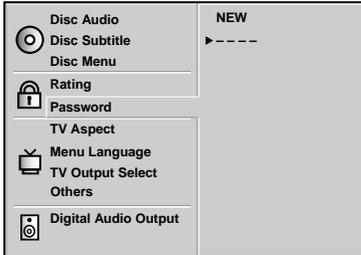
Refer to the Password on page 42.

# CHANGING SETUP VALUES (CONTINUED)

## Password

A 4-digit password can be set to prevent playback of discs with higher ratings.

- 1 At the SETUP menu, press ▲/▼ to select "Password" and press ►.



- 2 Input a 4-digit password using the numbered buttons, then press ENTER.

Example : 1234

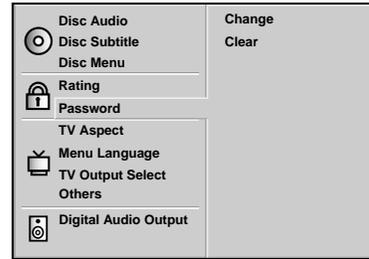
*Do not forget your password.*



- 3 Input the 4-digit password again to verify, then press ENTER.



Setting is finished and the SETUP menu 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.

### To change the settings

To change the rating level, enter your 4-digit password and follow the steps on page 41 again.

### To change the password

- 1 At the SETUP menu, select "Password" and press ►.
- 2 Input the 4-digit password and press **ENTER**.
- 3 Select "Change" and press **ENTER**.
- 4 Follow step 2 to 3 on the left.

### To clear the password

- 1 At the SETUP menu, select "Password" and press ►.
- 2 Input the 4-digit password and press **ENTER**.
- 3 Select "Clear" and press **ENTER**.

### When you forget your 4-digit password

If you forget your password, follow the procedure below.

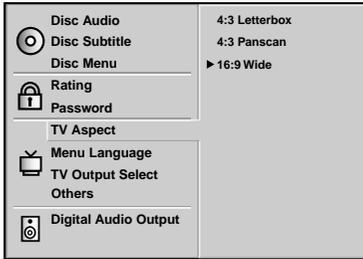
- 1 At the SETUP menu, select "Password".
- 2 Enter the 6-digit number "210499" and then press **ENTER**.

The 4-digit password is cleared.

## TV Aspect

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

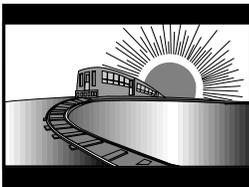
1 At the SETUP menu, press ▲/▼ to select "TV Aspect" and press ►.



2 Press ▲/▼ to select the desired Aspect and press ENTER.

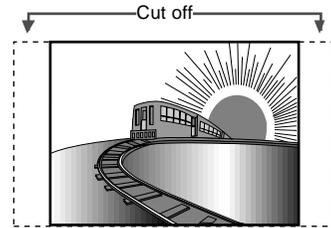


**4:3 Letterbox :** Select when a conventional TV set is connected. Media recorded in wide (16:9) format will be played in "letterbox" style, with black bands at the top and bottom of the screen.



4:3 Letterbox

**4:3 Panscan :** Media recorded in wide (16:9) format will be played at the full screen height, with the left and right portions cut off, for media which contains pan-scan encoding. Other media will be played in "letterbox" style.



4:3 Panscan

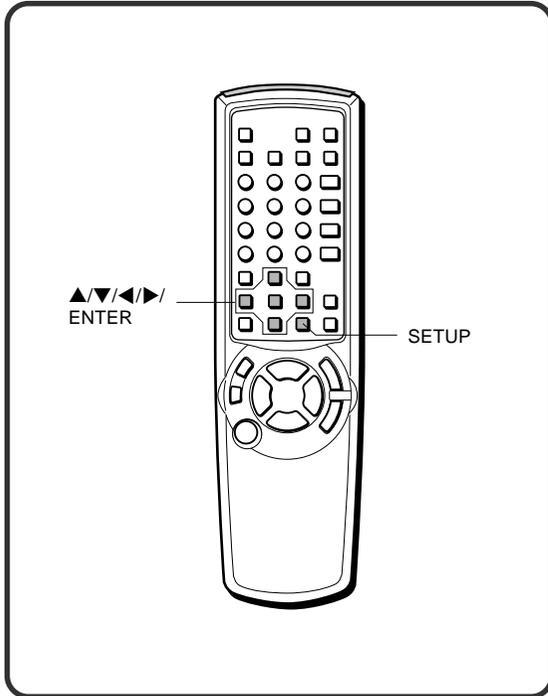
**16:9 Wide :** Select when a wide-screen TV set is connected. Played in "FULL" size. (Setting the wide-screen TV to "FULL" mode is also necessary.)



16:9 Wide

\*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.)

## CHANGING SETUP VALUES (CONTINUED)



### Menu Language

The language used in this SETUP menu can be changed.

- 1 At the SETUP menu, press ▲/▼ to select "Menu Language" and press ►.



- 2 Press ▲/▼ to select the desired language and press ENTER.



**English** : The setup menu is displayed in English.  
**Spanish** : The setup menu is displayed in Spanish.  
**French** : The setup menu is displayed in French.  
**German** : The setup menu is displayed in German.  
**Italian** : The setup menu is displayed in Italian.

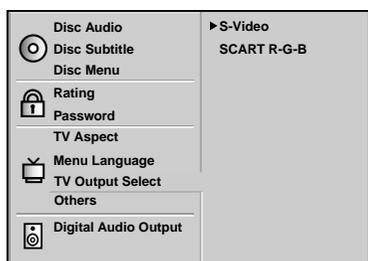
## TV Output Select

Select "S-Video" when connecting to a TV set with an S-Video cord.

### CAUTION

Do not select "S-Video" when connecting to the TV set with the 21pin scart cable. Video signals are not output from the 21pin scart connector of this unit.

- 1 At the SETUP menu, press ▲/▼ to select "TV Output Select" and press ►.



- 2 Press ▲/▼ to select the desired items and press ENTER.

### Video output settings

#### S-Video:

Video signals are output from the S-VIDEO OUT jack on the unit.

#### SCART R-G-B:

Video signals are output from the 21-pin scart connector on the unit.

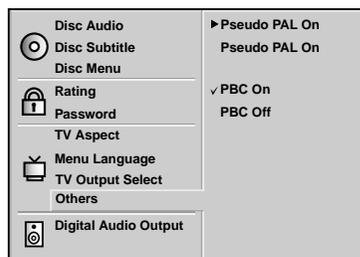
### NOTE

Video signals are always output from the VIDEO OUT jack on the unit regardless of these settings.

## Others (Pseudo PAL/PBC)

The Pseudo PAL and Playback Control settings(PBC) can be changed.

- 1 At the SETUP menu, press ▲/▼ to select "Others" and press ►.



- 2 Press ▲/▼ to select the desired items and press ENTER.

### Pseudo PAL settings

#### Pseudo PAL On:

A NTSC DVD disc can be played back with the PAL colour system TV set, depending on the disc.

#### Pseudo PAL Off:

A NTSC DVD disc cannot be played back with the PAL colour system TV set.

### NOTE

The Pseudo PAL function only works when TV SYSTEM SELECT switch on the rear panel is set to "PAL".

### PlayBack Control (PBC) settings

#### PBC On:

Video CDs are played back according to the PBC.

#### PBC Off:

Video CDs can be played back in the same way as Audio CDs.

# CHANGING SETUP VALUES (CONTINUED)

## Digital Audio Output

Each DVD disc has a variety of audio output options. Set the player's Digital Audio Output according to the type of audio system you use.

### CAUTION

*If the AV amplifier is not equipped with a Dolby Digital decoder or DTS decoder, do not select "DOLBY DIGITAL/PCM or Stream/PCM" in the "Digital Audio Output" when connecting the AV amplifier with an optical or coaxial connecting cord.*

Merely attempting to play a DVD may cause a high level of noise which could be harmful to your ears and damage the speakers. In such a case, be sure to select "PCM".

### DOLBY DIGITAL/PCM:

Select this when connecting to an AV amplifier or other equipment that is equipped with a Dolby Digital (AC-3) decoder or a Dolby Pro Logic Surround decoder.

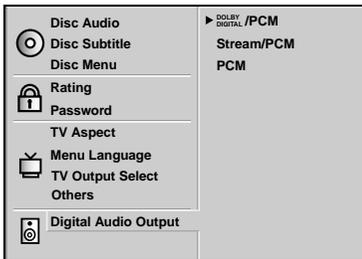
### Stream/PCM:

Select this when connecting to an AV amplifier or other equipment that is equipped with a DTS decoder or a MPEG decoder.

### PCM:

The default setting is "PCM". Select this when connecting to an audio system without a Dolby digital(AC-3), DTS or other special decoder.

- At the SETUP menu, press ▲/▼ to select "Digital Audio Output" and press ►.

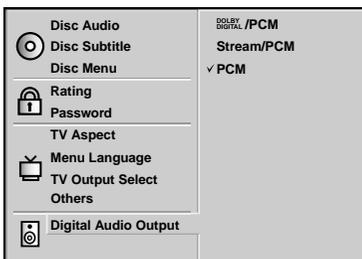


Playback Disc	OUTPUT		
	Stream/PCM	DOLBY DIGITAL/PCM	PCM
96kHz Linear PCM DVD	PCM	PCM	PCM
DTS DVD	DTS bit Stream	Not Output	Not Output
Dolby Digital DVD	Dolby Digital bit Stream	Dolby Digital bit Stream	PCM
MPEG DVD	MPEG bit Stream	PCM	PCM
Audio CD/ Video CD	PCM	PCM	PCM
DTS Audio CD	DTS bit Stream	DTS bit Stream	DTS bit Stream

### NOTE

When you are not using the player's digital audio output, don't select any of the options.

- Press ▲/▼ to select the desired output and press ENTER.



## Language codes

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

# TROUBLESHOOTING

If something seems to be wrong with your DVD player, first check the items in the table below.

Symptom	Check	See page
<b>The power does not come on.</b>	<ul style="list-style-type: none"> <li>• Make sure the power cord is plugged firmly into a live power socket.</li> </ul>	10
<b>A disc does not play. Playback stops almost immediately.</b>	<ul style="list-style-type: none"> <li>• Is there condensation inside the DVD player? (Leave the player idle with the power on for 1 to 2 hours.)</li> <li>• Are you trying to use a disc that can't be played, such as a PHOTO CD?</li> <li>• Is the disc dirty? Is it loaded properly?</li> <li>• Does the disc exceed the specified rating level?</li> </ul>	3 5 6, 20 41
<b>No picture</b>	<ul style="list-style-type: none"> <li>• Is the DVD player connected correctly?</li> <li>• Are the video connections firmly attached?</li> <li>• Is the television video mode set correctly?</li> <li>• Do you select "S-Video" in the TV Output Select menu?</li> </ul>	10 10 20 45
<b>The picture is bad.</b>	<ul style="list-style-type: none"> <li>• Is the player in a place with lots of vibration?</li> <li>• Are the video connections firmly attached?</li> <li>• Is the disc dirty?</li> <li>• Is the DVD player connected directly to the television set? Or is it connected through a video deck, a selector switch, or a television with a built-in video deck?</li> </ul> <p>The picture may be bad when used with some television sets or projectors, due to the DVD copy protection scheme.</p> <p>The picture quality may also suffer if the DVD player is connected through a selector switch with other video equipment. Try turning off the power to the other video equipment.</p> <p>The picture quality may be somewhat poor when paused, when doing Frame Advance, or during fast forward or fast reverse. This is normal.</p>	3 10 6 10
<b>No sound</b>	<ul style="list-style-type: none"> <li>• Is the DVD player connected correctly?</li> <li>• Are the audio connections firmly attached?</li> <li>• Is the connected audio equipment turned on? Is the volume set correctly? (Note that there will be no audio playback during slow playback, Frame Advance, fast forward, or fast reverse.)</li> </ul>	10 10 20
<b>The remote control does not work, or does not work correctly.</b>	<ul style="list-style-type: none"> <li>• Are the remote control batteries installed correctly?</li> <li>• Is the remote control too far from the main unit? Is there something in the way?</li> <li>• Are the remote control batteries getting weak?</li> <li>• Is the DVD player in sunlight or strong fluorescent light?</li> </ul>	19 19 19 19

## DVD has many capabilities

Some of these capabilities may differ based on the disc being played. The following situations may be caused by information on the disc itself.

- The audio or subtitles are not reproduced in the specified default language.
- The audio track or subtitles cannot be changed.
- There are no subtitles.
- No DVD menu. The DVD menu does not display in the language you want.
- The view angle cannot be changed.
- Everything on the disc is played back regardless of the rating level you have set.

# SPECIFICATIONS

Power supply	230 V AC, 50 Hz
Power consumption	16 W
Weight	3.2 kg
External dimensions	430 × 88 × 245 mm (w × h × d)
Laser	Semiconductor laser, wave length 650/750 nm
Signal format	PAL/NTSC
Supported discs	DVD video discs 12 cm (single-sided single-layer, single-sided double-layer, double-sided double-layer) 8 cm (single-sided single-layer, single-sided double-layer, double-sided double-layer) Compact discs (CD-DA, video CD) 12 cm and 8 cm discs
S video output	Y output: 1 Vp-p (75 ohms, sync negative) C output: 0.286 Vp-p 1 Mini DIN 4 pin
Video output	Video composite output 1 Vp-p (75 ohms, sync negative) 1 RCA jack 1 Scart connector
Audio output	Digital output 0.5 Vp-p (75 ohms) 1 Fiber optical connector 1 RCA jack Analogue output 2.0 Vrms (1kHz, 0dB, 330 ohms) 1 RCA jacks (L/R)
Audio output characteristics	Signal to noise ratio More than 105 dB (EIAJ) Dynamic range More than 95 dB (EIAJ) Harmonic distortion 0.003% Frequency range: CD / VCD: 2 Hz to 20 kHz DVD: 2Hz to 22kHz (48kHz sampling) 2Hz to 44kHz (96kHz sampling) Wow and flutter: unmeasurable
Operating conditions	5°C to 35°C
Accessories	Video cable (1) Audio cable (1) Remote control (1)

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Specifications are subject to change without notice.

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