

# KENWOOD

DVD / CD PLAYER

**DVF-3530**

**DV-402**

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**INSTRUCTION MANUAL**

KENWOOD CORPORATION



B60-4833-08 (EN)

## Before applying power

 **Caution : Read this page carefully to ensure safe operation.**

Units are designed for operation as follows.

**U.S.A. and Canada** ..... AC 120V only  
**Australia** ..... AC 240 V only

**Europe and U.K.** ..... AC 230V only  
**\*Other countries** ..... AC 110-120 / 220-240 V switchable

### For the United Kingdom

#### Factory fitted moulded mains plug

1. The mains plug contains a fuse. For replacement, use only a 3-Amp ASTA-approved (BS 1362) fuse.
2. The fuse cover must be refitted when replacing the fuse in the moulded plug.
3. Do not cut off the mains plug from this equipment. 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, then obtain an appropriate safety approved extension lead or adapter, or consult your dealer. If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent. Connection to the mains supply.

#### IMPORTANT :

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

Blue : Neutral





Brown : Live

Do not connect those leads to the earth terminal of a three-pin plug.

## Safety precautions

 **Caution : Read this page carefully to ensure safe operation.**

**WARNING : TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

	<p><b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN</p>		<p><b>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.</b></p>
	<p>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.</p>		
	<p>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.</p>		

### The marking of products using lasers (Except for some areas)

**CLASS 1  
LASER PRODUCT**

The marking is located on the rear panel and says that the component uses laser beams that have been classified as Class 1. It means that the unit is utilizing laser beams that are of a weaker class. There is no danger of hazardous radiation outside the unit.

## Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails to operate, notify your dealer immediately.

If your unit was shipped to you directly, notify the shipping company without delay. Only the consignee (the person or company receiving the unit) can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

**Keep this manual handy for future reference.**

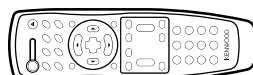
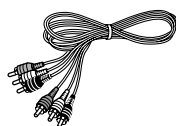
## Accessories

Please confirm that the following accessories are present.

Audio video cord (Red, White, Yellow) ..... (1)

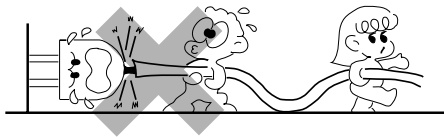
Remote control unit ..... (1)

Batteries (R03/AAA) ..... (2)



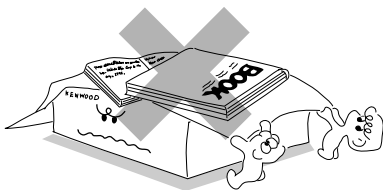
Please read all of the safety and operating instructions before operating this appliance. Adhere to all warnings on the appliance and in the instruction manual. Follow all the safety and operating instructions. These safety and operating instructions should be retained for future reference.

- 1. Power sources** – The appliance should be connected to a power supply only of the type described in the instruction manual or as marked on the appliance. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For appliances intended to operate from battery power, or other sources, refer to the instruction manual.
- 2. Power-cord protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.



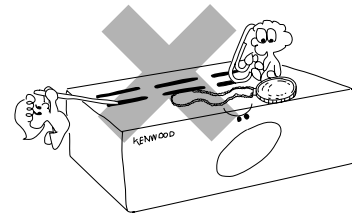
- 3. CAUTION – Polarization** – This appliance may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.

- 4. Ventilation** – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the appliance and to protect it from overheating, and these openings must not be blocked or covered. The appliance should be situated so that its location or position does not interfere with its proper ventilation.  
To maintain good ventilation, do not put records or a tablecloth on the appliance. Place the appliance at least 10 cm away from the walls.  
Do not use the appliance on a bed, sofa, rug or similar surface that may block the ventilation openings. This appliance should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

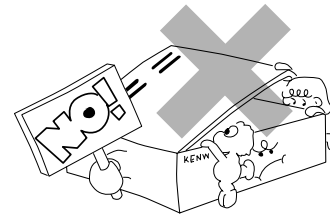


- 5. Water and moisture** – The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

- 6. Temperature** – The appliance may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).
- 7. Heat** – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- 8. Electric shock** – Care should be taken so that objects do not fall and liquid is not spilled into the enclosure through openings. If a metal objects, such as a hair pin or a needle, comes into contact with the inside of this appliance, a dangerous electric shock may result. For families with children, never permit children to put anything, especially metal, inside this appliance.



- 9. Enclosure removal** – Never remove the enclosure. If the internal parts are touched accidentally, a serious electric shock might occur.

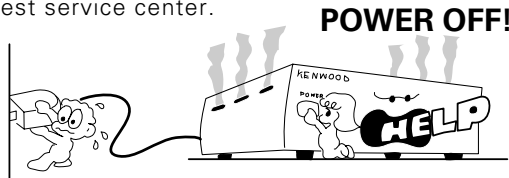


- 10. Magnetic fields** – Keep the appliance away from sources of magnetic fields such as TV sets, speaker systems, radios, motorized toys or magnetized objects.
- 11. Cleaning** – Unplug this appliance from the wall outlet before cleaning. Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzene, etc. to clean the cabinet. Use a clean dry cloth.
- 12. Accessories** – Do not place this appliance on an unstable cart, stand, tripod, bracket, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the appliance. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



**13. Lightning** – For added protection for this appliance during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the appliance due to lightning and power-line surges.

**14. Abnormal smell** – If an abnormal smell or smoke is detected, immediately turn the power OFF and unplug the appliance from the wall outlet. Contact your dealer or nearest service center.

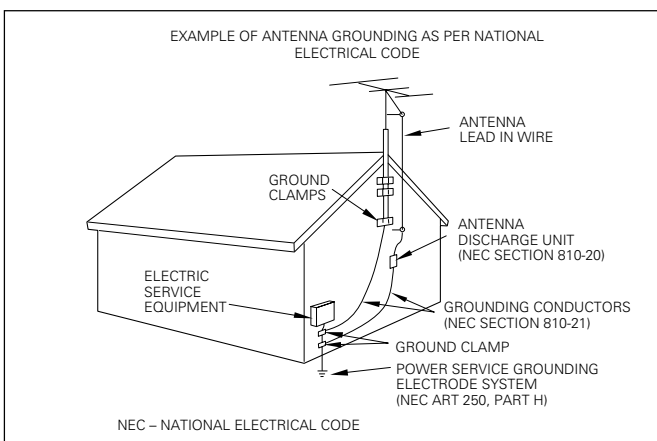


**15. Damage requiring service** – The appliance should be serviced by qualified service personnel when:

- A.** The power-supply cord or the plug has been damaged.
- B.** Objects have fallen, or liquid has been spilled into the appliance.
- C.** The appliance has been exposed to rain or water.
- D.** The appliance does not appear to operate normally by following the instruction manual. Adjust only those controls that are covered by the instruction manual as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to its normal operation.
- E.** The appliance has been dropped, or the enclosure damaged.
- F.** The appliance exhibits a marked change in performance.

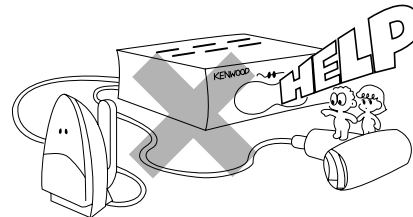
**16. Servicing** – The user should not attempt to service the appliance beyond that described in the instruction manual. All other servicing should be referred to qualified service personnel.

**17. Outdoor antenna grounding** – If an outside antenna is connected to the appliance, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Article 810 of the National Electrical Code ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.



**18. Power lines** – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

**19. AC outlets** – Do not connect other audio equipment with a power consumption larger than that specified to the AC outlet on the rear panel. Never connect other electrical appliances, such as an iron or toaster, to it to prevent fire or electric shock.



**20. Overloading** – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.

**21. Attachment** – Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.

**22. Replacement parts** – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.

**23. Safety check** – Upon completion of any service or repairs to this appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operating condition.

**Notes:**

1. Item 3 is not required except for grounded or polarized equipment.
2. Item 17 and 18 are not required except for units provided with antenna terminals.
3. Item 17 complies with UL in the U.S.A.

## Special features

This document classifies the applications of each feature using the following marks

**DVD** : Description of a feature that can be used with DVD.

**CD** : Description of a feature that can be used with CD.



**DVD** Higher video quality than S-VHS video and LaserDisc

**DVD** Higher audio quality than music CD

**DVD** **CD** Graphical user interface (GUI) compatibility

**DVD** Versatile DVD playback features

**DVD** **CD** DTS digital output compatibility







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## Recording systems and types of playable discs

The system using this unit does not only play music from CD but can also play the discs listed below to offer you high-quality entertainment of video of movies and live concerts.

Playable Disc		DVD		CD	
Logo mark on disc					
Disc size		 8cm	 12cm	 8cm	 12cm
Played sides		One or both	One or both	One side only	One side only
Contents	Video + Audio	Approx. 41 min. (1 side, 1 layer) Approx. 75 min. (1 side, 2 layers) Approx. 82 min. (2 sides, 1 layer) Approx. 150 min. (2 sides, 2 layers)	Approx. 133 min. (1 side, 1 layer) Approx. 242 min. (1 side, 2 layers) Approx. 266 min. (2 sides, 1 layer) Approx. 484 min. (2 sides, 2 layers)	/	/
	Audio	/	/	Max. 20 min., digital	Max. 74 min., digital






Preparations

## Unplayable discs

This player cannot play back any of the following discs.

- DVD-ROM discs
- DVD-R/DVD-RAM discs
- CD-ROM discs
- VSD discs
- CDV discs (Only the audio part can be reproduced.)
- CD-G/CD-EG/CD-EXTRA discs (Only the audio can be reproduced.)
- CD-R/CD-RW discs (Never attempt to play them.)
- Photo CD discs (Never attempt to play them.)

## Icons on the DVD discs

Icon	Description
	Indicates the region code where the disc can be played.
	Number of voice languages recorded with the audio function. The number in the icon indicates the number of voice languages. (Max. 8 languages)
	Number of subtitle languages recorded with the subtitle function. The number in the icon indicates the number of subtitle languages. (Max. 32 languages)
	Number of angles provided by the angle function. The number in the icon indicates the number of angles. (Max. 9 angles)
	Aspect ratios that can be selected. "LB" stands for Letter Box and "PS" for Pan/Scan. In the example on the left, the 16:9 video can be converted into letter box video.

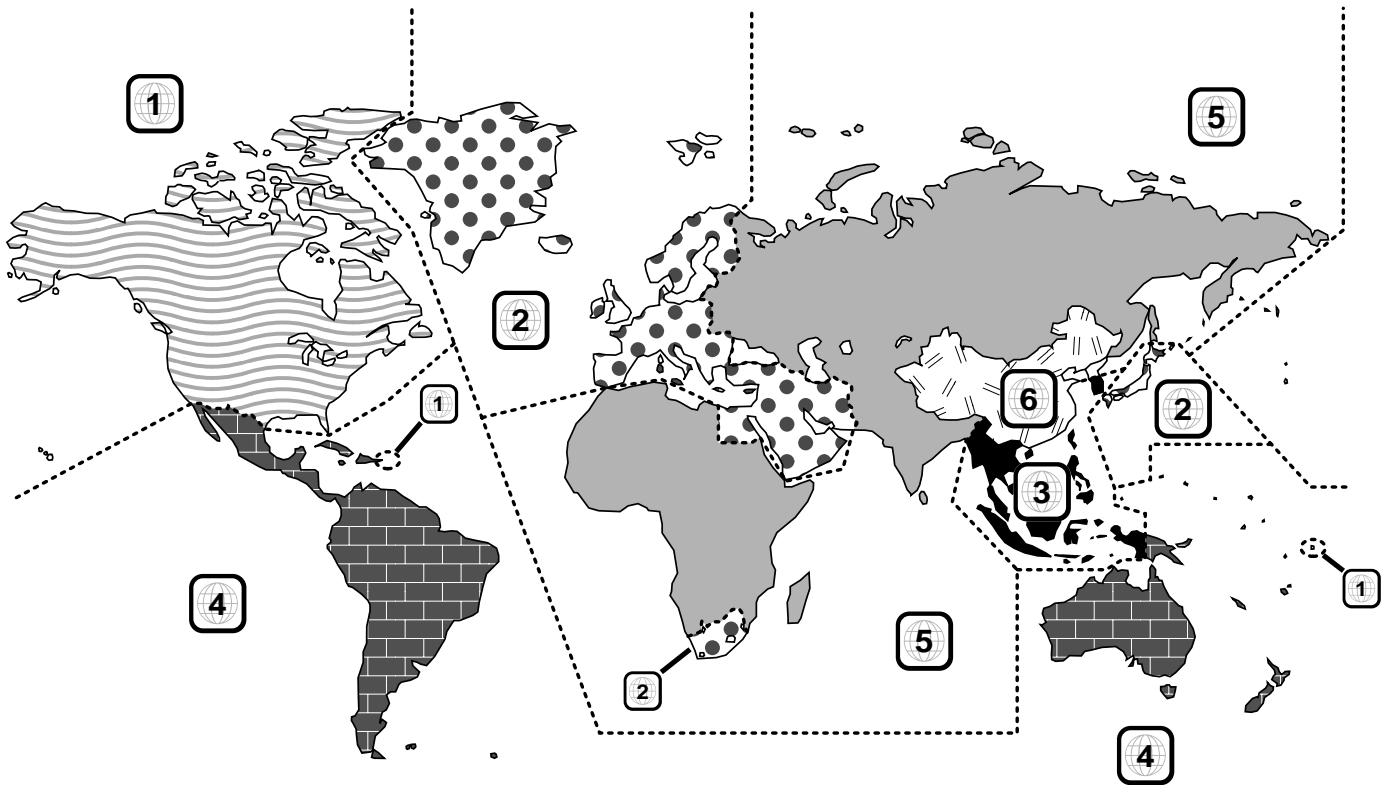
Every player of this model has a certain region code assigned to it based on the country where the player is used. When the player is used to play back DVD discs, it can only play the DVD discs carrying the region codes matching the region code of the player.

The region code for this player is described on the rear panel of the player.

## Region codes in the world

The DVD players are given a region code according to the country or area it is marketed, as shown in the following map.

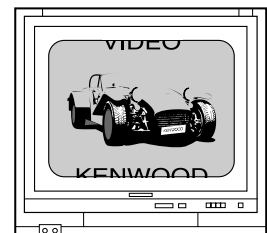
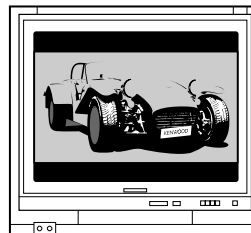
Preparations



## Examples of TV screen display of each video format

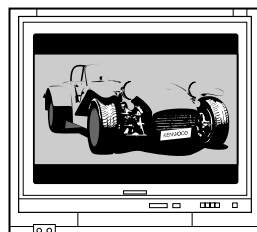
### When your TV is switchable between PAL/NTSC

Try play a disc. If the picture is black and white or as shown on the right, stop playback and switch the screen display formats of this unit and the TV to another format. This will improve the played picture quality.



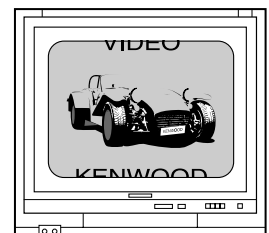
### When your TV is compatible only with the PAL format

With certain discs, the playback picture may have black spaces above and below it (as shown on the right). This is because the disc has been recorded in the NTSC format. The screen may be somewhat hard to see but this is not malfunction.



### When your TV is compatible only with the NTSC format

With certain discs, the playback picture may be cut above and below it (as shown on the right). This is because the disc has been recorded in the PAL format. The screen may be somewhat hard to see but this is not malfunction.





The video signals used to display TV pictures and video disc pictures are mainly based on two types of signal formats (PAL and NTSC), which are assigned to each country or area as shown on the right. As a result, it is required to select discs according to the video format used with your TV monitor (in your country or area).

### TV formats of major countries

TV Format	Major Countries & Areas
NTSC	Japan, Taiwan, Korea, U.S.A., Canada, Mexico, Philippines, Chile, etc.
PAL	China, North Korea, U.K., Germany, Australia, New Zealand, Kuwait, Singapore, etc.

## Video formats of DVD discs that can be played on this unit

Set the video formats of the DVD discs to be played on this unit as described below.

### 1 Check the video format(s) used by your TV monitor.

- Refer to the operating instructions of your TV monitor for details.

### 2 Select DVD discs recorded with the playable video format by referring to the following table.

- See the region code table on the bottom of this page for details on districts 1 to 6.

Your TV format	Playable Disc Formats								
	District 1	District 2-1	District 2-2	District 2-3	District 3	District 4-1	District 4-2	District 5	District 6
NTSC only	NTSC	NTSC* PAL*	NTSC	NTSC PAL*	NTSC PAL*	NTSC* PAL*	NTSC	NTSC* PAL*	NTSC PAL*
PAL only	NTSC*	NTSC PAL	NTSC*	NTSC* PAL	NTSC* PAL	NTSC PAL	NTSC*	NTSC PAL	NTSC* PAL
NTSC/PAL switchable	NTSC	NTSC PAL	NTSC	NTSC PAL	NTSC PAL	NTSC PAL	NTSC	NTSC PAL	NTSC PAL



Normal video may not be reproduced when a disc recorded with the video format marked \* in the above table is played. See "Examples of TV screen display of each video format" for details.



### 3 When your TV is switchable between NTSC and PAL,

- Districts 1, 2-2 and 4-2: Set the TV to NTSC.
- Districts 2-1, 4-1 and 5: Set the TV to PAL.
- Districts 2-3, 3 and 6: Set the TV according to each disc to be played.

## Region code table

	District 1	District 2-1	District 2-2	District 2-3	District 3	District 4-1	District 4-2	District 5	District 6
Area or Country Name, Region Code	North America 	Europe 	Japan 	Middle East 	Southeast Asia 	Oceania 	South America 	Russia 	China 

### Restrictions due to difference between discs

Some DVD discs can be played only in certain playback modes according to the intentions of the software producers. As this player plays discs according to their intentions, some functions may not work as intended by you. Please be sure to read the instructions provided with each disc. When an inhibition icon is displayed on the TV screen connected to the player, it indicates that the disc being played is under the restriction as described above.

Inhibition icon



## Maintenance

### Cleaning

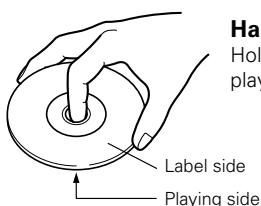
Unplug this appliance from the wall outlet before cleaning. Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzene, etc. to clean the cabinet. Use a clean dry cloth.

### Caution against contact revitalizer

Do not use contact cleaners because it could cause a malfunction. Be specially careful against contact cleaners containing oil, for they may deform the plastic component.

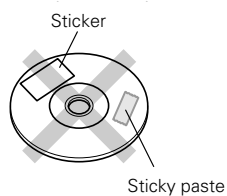
## Reference

### Disc handling precautions

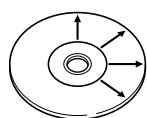


#### Handling

Hold the discs so that you do not touch the playing surface.



Do not attach paper or tape to either the playing side or the label side of the discs.



#### Cleaning

If fingerprints or foreign matter become attached to the disc, lightly wipe the disc with a soft cotton cloth (or similar) from the center of the disc outwards in a radial manner.

#### Storage

When a disc is not to be played for a long period of time, remove it from the player and store it in its case.

### Never play a cracked or warped disc

During playback, the disc rotates at high speed in the player. Therefore, to avoid danger, never use a cracked or deformed disc or a disc repaired with tape or adhesive agent. Please do not use discs which are not round because they may cause a malfunction.

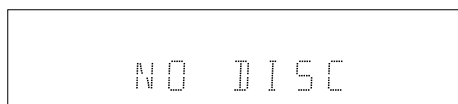
### Disc accessories

The disc accessories (stabilizer, protection sheet, protection ring, etc.) which are marketed for improving the sound quality or protecting discs as well as the disc cleaner should not be used with this system because they may cause malfunction.

### Note related to transportation and movement

Before transporting or moving this unit, carry out the following operations.

1. Set the POWER key to ON without loading a disc.
2. Wait a few seconds and verify that the display shown appears.
3. Set the POWER key to OFF.



### Beware of condensation

When the difference between the internal temperature of the unit and external atmosphere is large, dew (mist) may be produced on the internal parts of the unit. In such a case, turn the unit ON and leave it for a few hours until the condensation has dried up.

#### Be especially careful in the following conditions:

When the unit is brought into a place where there is a large difference in temperature between the previous location, when the humidity of the listening room is high, etc.

Make connections as shown below.  
When connecting the related system components, refer also to the instruction manuals of the related components.

**Caution:**

Do not plug in the power lead until all connections are completed.

**Caution**

- Be sure to adhere followings. Or proper ventilation will be blocked causing damage or fire hazard.
- Do not place any objects impairing heat radiation onto the top of unit.
  - Leave a space around the unit (from the largest outside dimension including projection) equal or greater than, shown below.

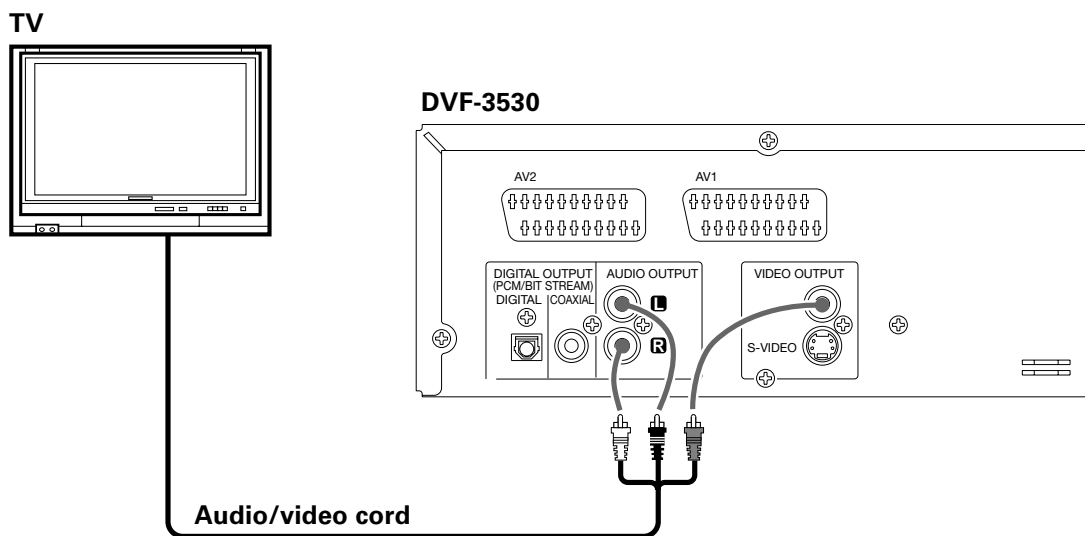
Top panel : 50 cm      Side panel : 10 cm      Back panel : 10 cm

**Malfunction of microcomputer**

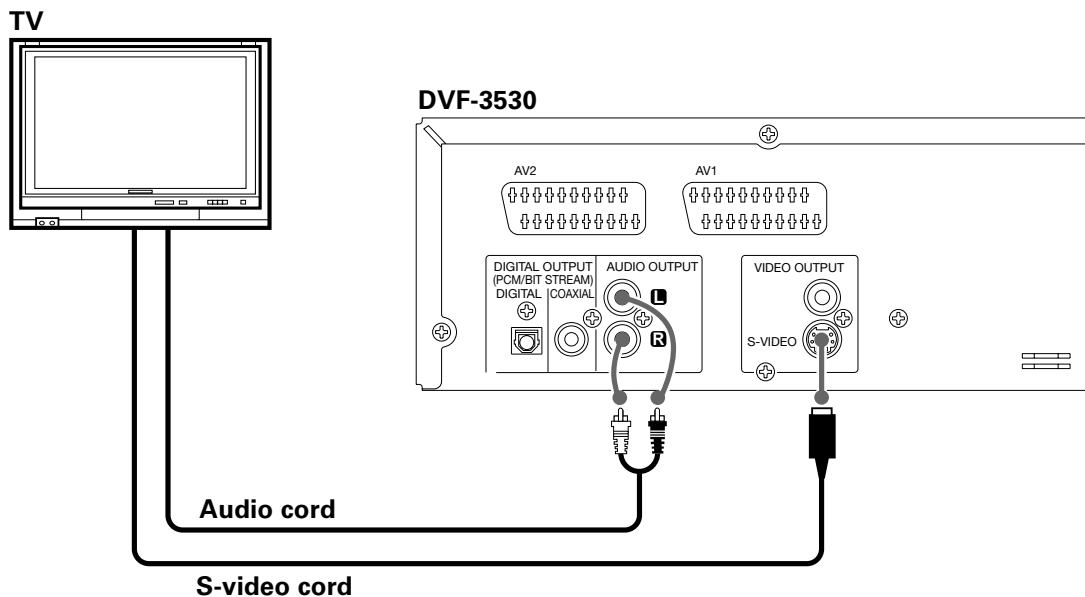
If operation is not possible or erroneous display appears even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty".



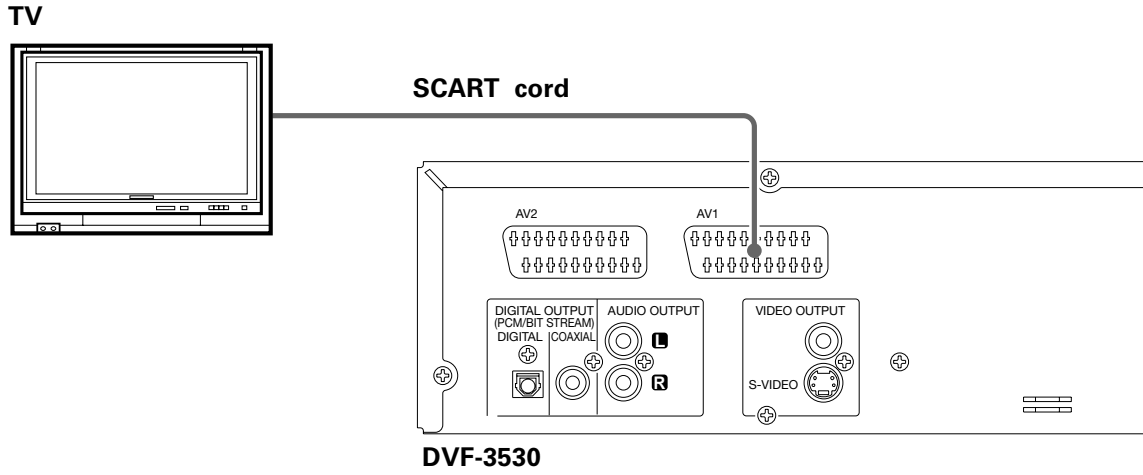
## Connecting to a TV with video (composite) input terminal



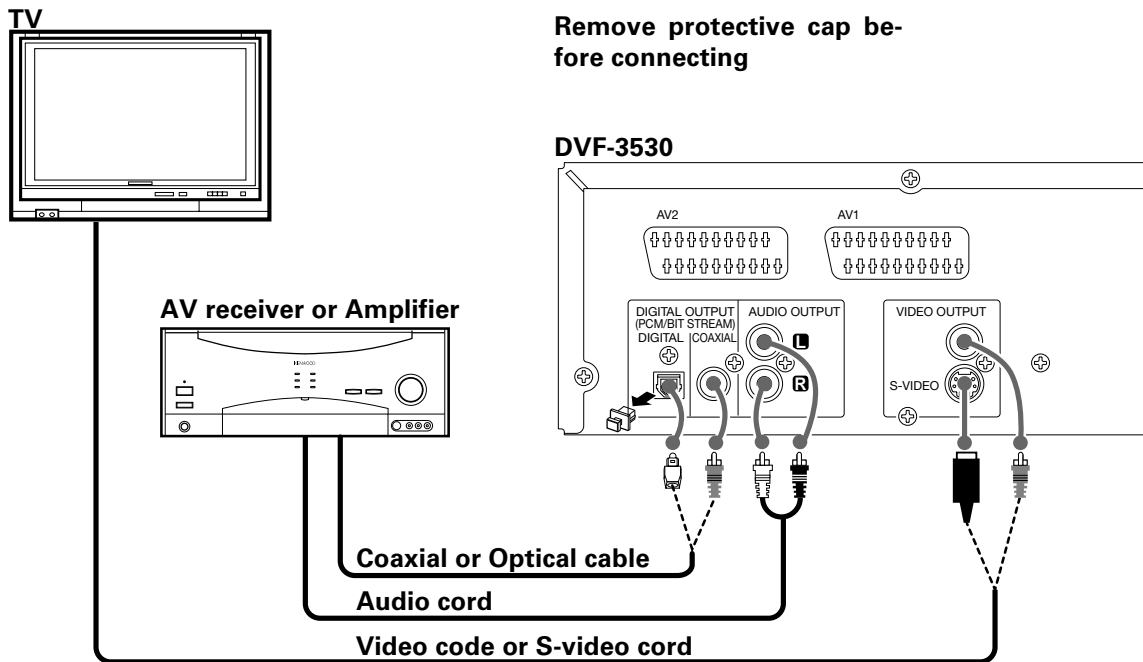
## Connecting to a TV with S-video input terminal



## Connecting to a TV with SCART input terminal



## Connecting to an Audio component



Make connections as shown below.  
When connecting the related system components, refer also to the instruction manuals of the related components.

**Caution:**  
Do not plug in the power lead until all connections are completed.

Except for U.S.A. and Canada

**Caution**

- Be sure to adhere followings. Or proper ventilation will be blocked causing damage or fire hazard.
- Do not place any objects impairing heat radiation onto the top of unit.
  - Leave a space around the unit (from the largest outside dimension including projection) equal or greater than, shown below.

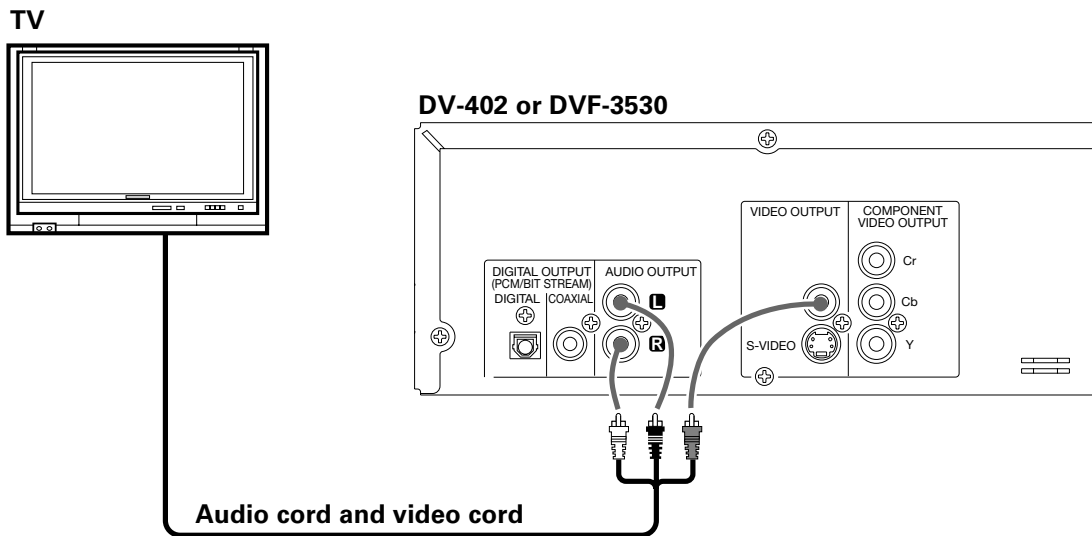
Top panel : 50 cm      Side panel : 10 cm      Back panel : 10 cm

**Malfunction of microcomputer**

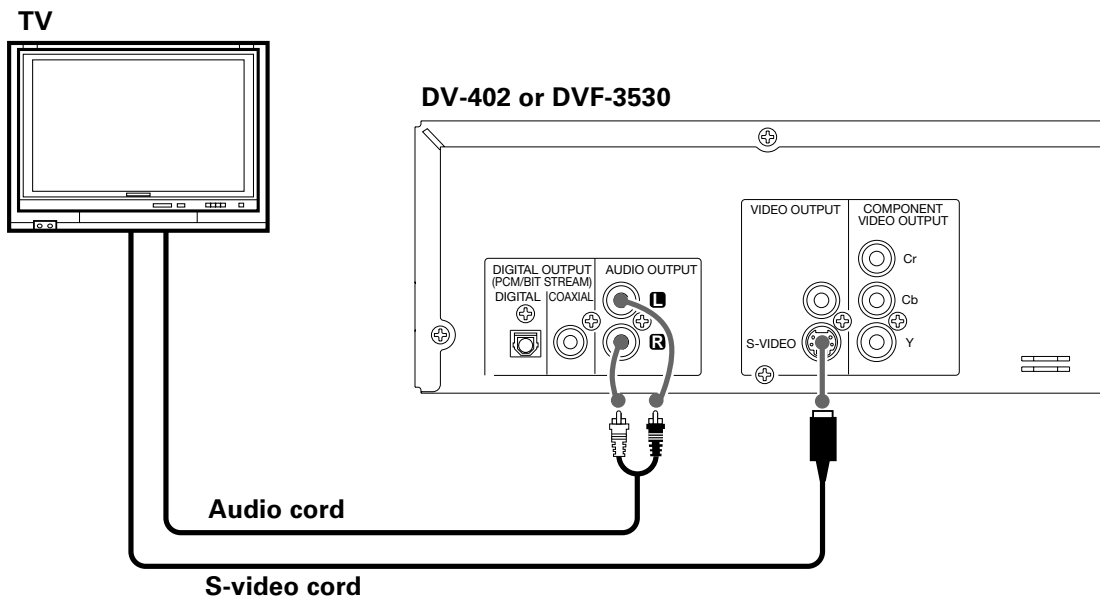
If operation is not possible or erroneous display appears even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty".



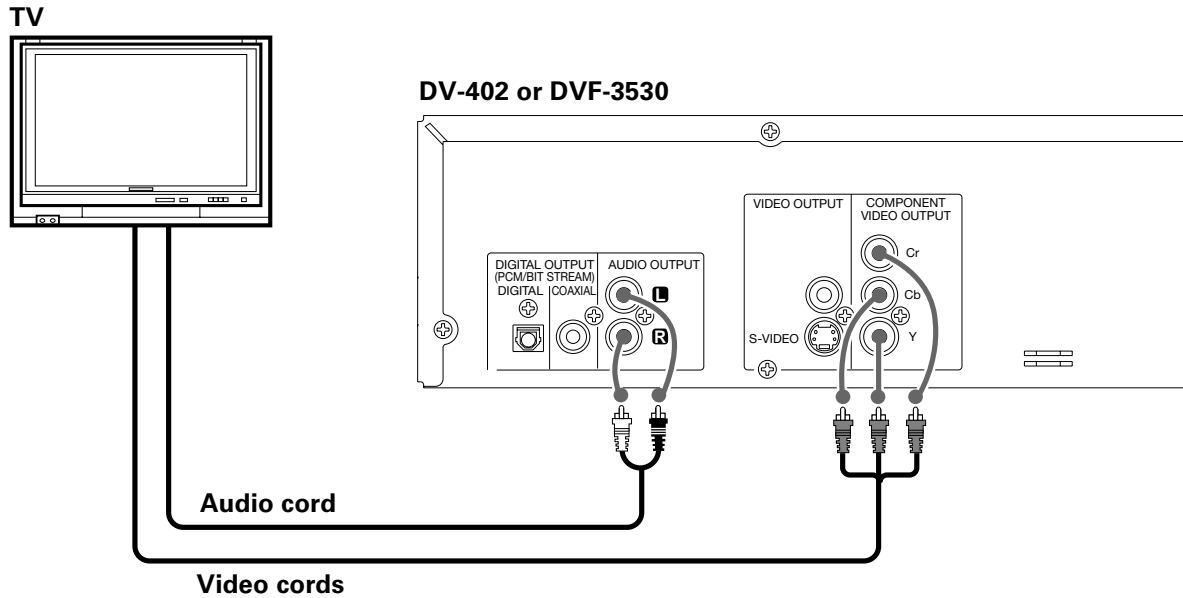
## Connecting to a TV with video (composite) input terminal



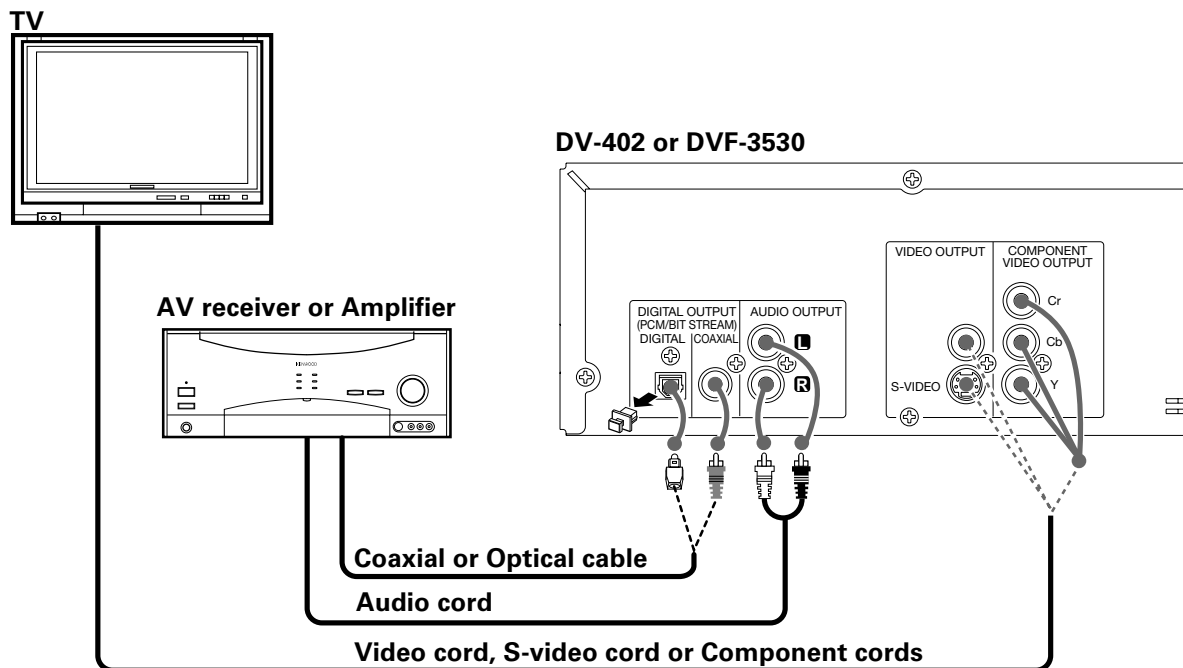
## Connecting to a TV with S-video input terminal

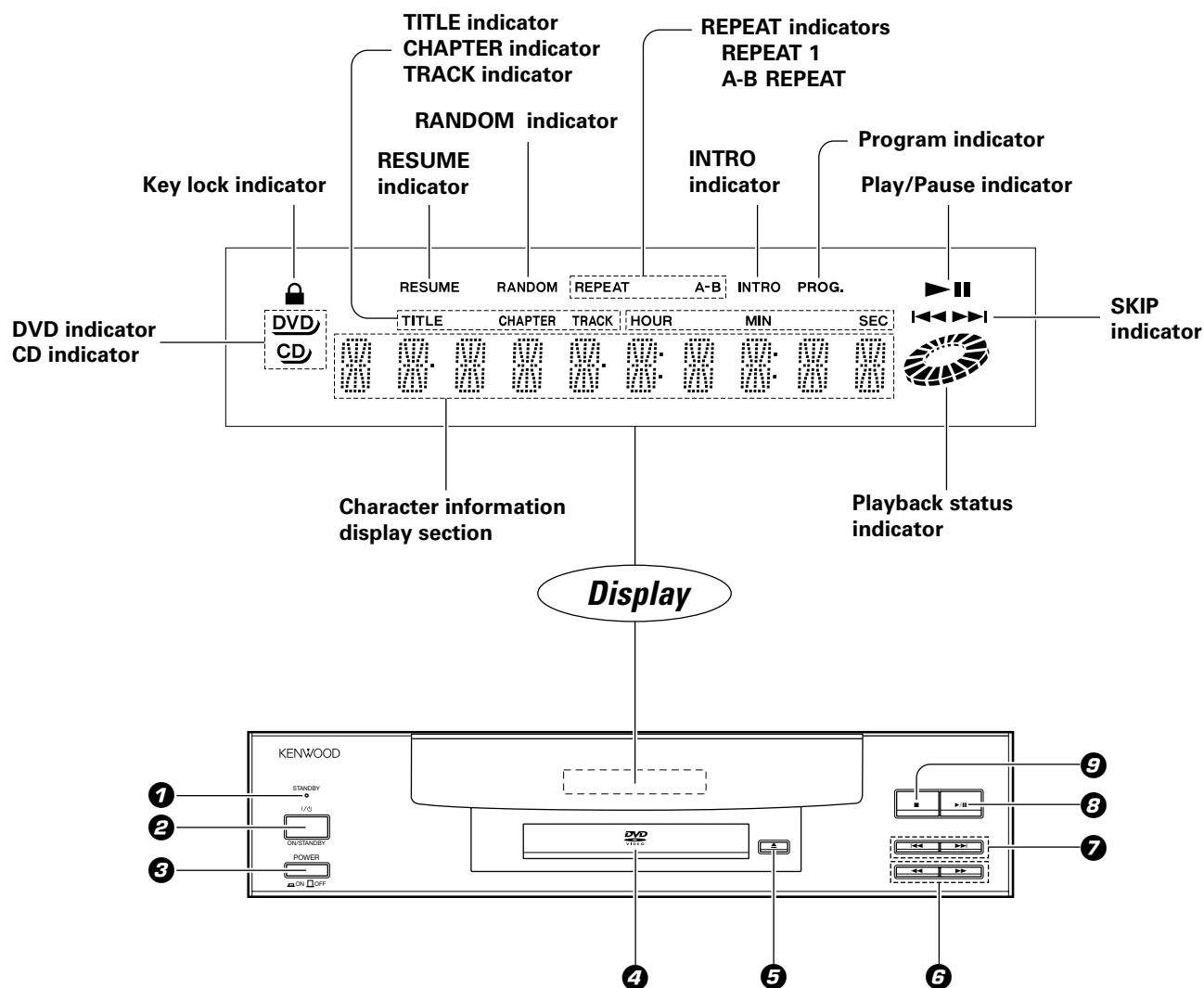


## Connecting to a TV with Component input terminals

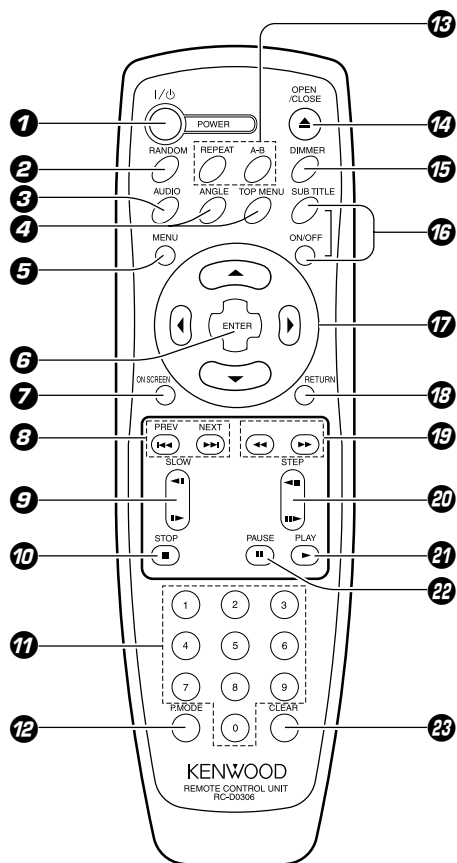


## Connecting to an Audio component





- |   |                       |      |   |                      |      |
|---|-----------------------|------|---|----------------------|------|
| 1 | STANDBY indicator     | - 17 | 7 | ◀▶ (Skip) keys       | - 18 |
| 2 | ON/STANDBY (I/O) key  | - 17 | 8 | ▶   (Play/Pause) key | - 17 |
| 3 | POWER ON / OFF switch | - 17 | 9 | ■ (Stop) key         | - 17 |
| 4 | Disc tray             | - 17 |   |                      |      |
| 5 | ▲ (open/Close) key    | - 17 |   |                      |      |
| 6 | ◀▶ (Search) keys      | - 18 |   |                      |      |



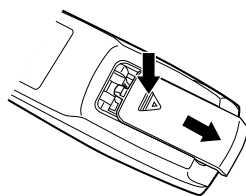
The keys on the remote control unit with the same names as on the main unit have the same function as the keys on the main unit.

- |  |      |  |      |
|--|------|--|------|
| <b>1</b> POWER (I/ϕ) key                     | - 17 | <b>12</b> P.MODE key   | - 26 |
| Power ON/OFF switching is executed.          |      | <b>13</b> REPEAT key   | - 24 |
| <b>2</b> RANDOM key                          | - 25 | A-B Repeat key   | - 24 |
| <b>3</b> AUDIO key                           | - 21 | <b>14</b> OPEN/CLOSE (▲) key                                   | - 17 |
| <b>4</b> ANGLE key                           | - 22 | <b>15</b> DIMMER key   | - 35 |
| TOP MENU key                                 | - 17 | <b>16</b> SUB TITLE key  | - 21 |
| <b>5</b> MENU key                            | - 17 | (SUB TITLE) ON/OFF key   | - 21 |
| <b>6</b> ENTRE key                           | - 19 | <b>17</b> Cursor Up (▲), Down (▼), Left (◀) and Right (▶) keys | - 19 |
| <b>7</b> ON SCREEN key                       | - 19 | <b>18</b> RETURN key   | - 19 |
| <b>8</b> Back skip (◀◀) /PREV (Previous) key | - 18 | <b>19</b> ◀◀ (REV) key   | - 18 |
| Forward skip (▶▶) /NEXT key                  | - 18 | ▶▶ (FF) key  | - 18 |
| <b>9</b> SLOW (Back slow/Forward slow) keys  | - 18 | <b>20</b> STEP (Back step/Forward step) keys                   | - 18 |
| <b>10</b> STOP (■) key                       | - 17 | <b>21</b> PLAY (▶) key   | - 17 |
| <b>11</b> Numeric keys                       | - 20 | <b>22</b> PAUSE (  ) key                                       | - 17 |
|  |      | <b>23</b> CLEAR key  | - 19 |

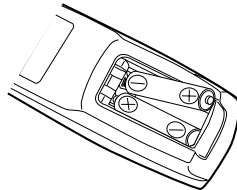
Model : RC-D0306  
Infrared ray system

## Loading batteries

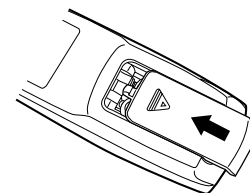
**1** Remove the cover.



**2** Insert batteries.



**3** Close the cover.



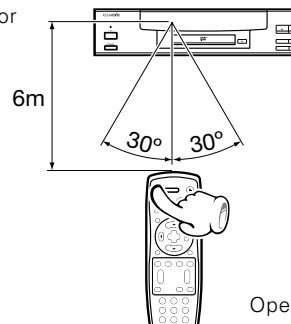
- Insert two R03/LR03 ("AAA"-size) batteries following the polarity indications.

## Operation

Insert the power plug into a power outlet, press the POWER key of the main unit to ON, then press the desired remote control key.

- When pressing more than one remote control keys successively, press the keys securely by leaving an interval of 1 second or more between pressing of keys.

Remote sensor



Operating range (approx.)

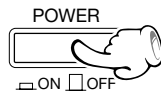


1. The provided batteries are intended for use in operation checking, and their service life may be short.
2. When the remote controllable distance becomes short, replace both of the batteries with new ones.
3. If direct sunlight or the light of a high-frequency fluorescent lamp (inverter type, etc.) is incident to the remote sensor, malfunction may occur. In such a case, change the installation position to avoid malfunction.

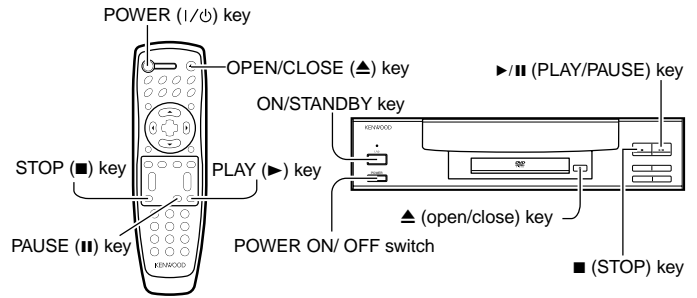


## Basic play

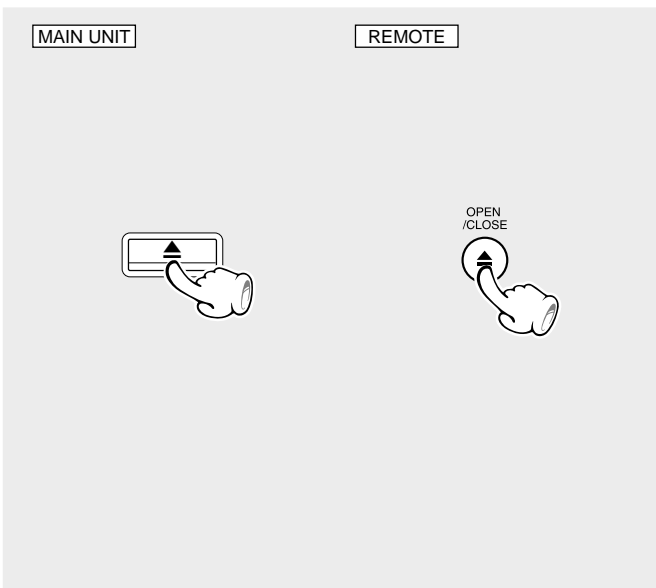
### Preparation



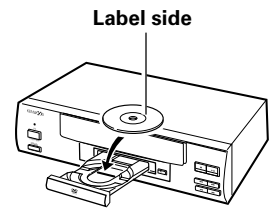
- set the **POWER ON/OFF** switch to the ON (■) position.
- When the **POWER ON/OFF** switch of the main unit is left ON at all times, the power can be switched on and off with the remote control unit.



### 1 Load a disc



- 1 Open the tray.
- 2 Place a disc
- 3 Close the tray



- When the key is pressed, turns power automatically ON. Then the tray opens.

When the key is pressed again, the tray closes. When the **PLAY/PAUSE (PLAY)** key is pressed while a tray is open, the tray closes automatically, and then playback begins.

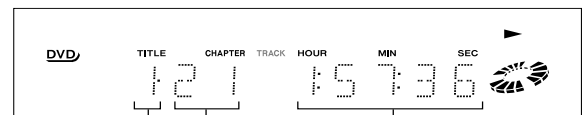
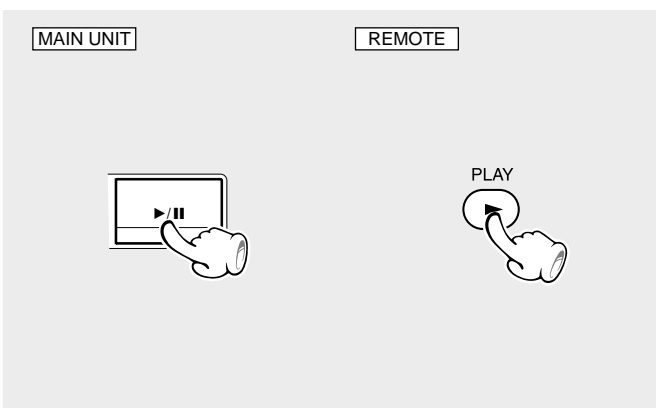
#### When a Disc Menu appears on the screen

In case of interactive DVDs, a Disc Menu appears on the screen. Then press **ENTER** to select specific menu you want to play by using Cursor keys.

When a menu screen is recorded on the disc, the menu screen will be displayed when the **TOP MENU** key is pressed. At the menu screen, the menu can be selected by pressing the Cursor keys.

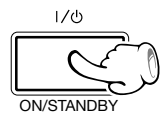


### 2 Start playback

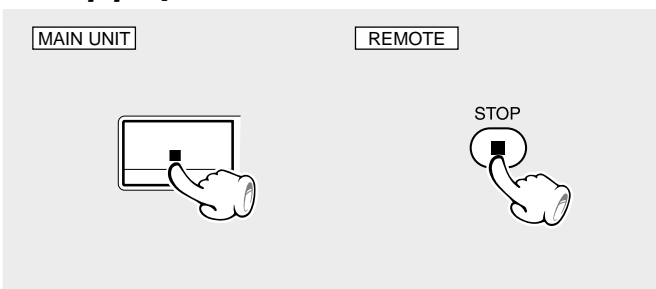


Time display  
 TRACK No. (CD)  
 CHAPTER No. (DVD)  
 TITLE No. (DVD)

- If a disc has already been loaded in the tray and the power is OFF, simply pressing the **PLAY/PAUSE (PLAY)** key turns power automatically ON and starts playback.
- Each press pauses and plays the disc alternately



### To stop playback



### RESUME playback

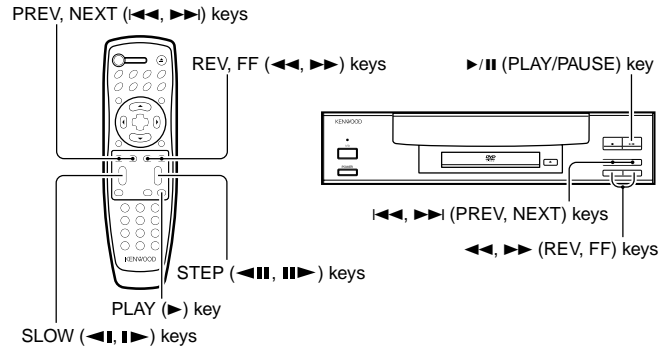
When the **STOP** key has been pressed once during playback to stop the playback, and then playback is started again, play will start from the point where the playback had been stopped. This is called the **RESUME** function. When the **STOP** key is pressed again during stop, the **RESUME** function is cancelled.

**RESUME** is cancelled when 5 minutes have passed in **RESUME** status.

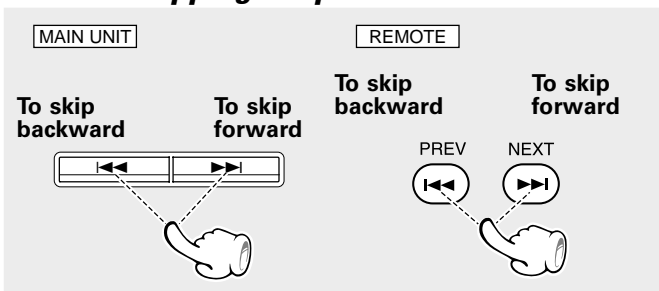
# Disc playback features



- You won't hear the sound (audio) on the DVD when you're using the Skip, Search, Step or Slow motion features.
- Playback features are not available during the opening credits of a movie.

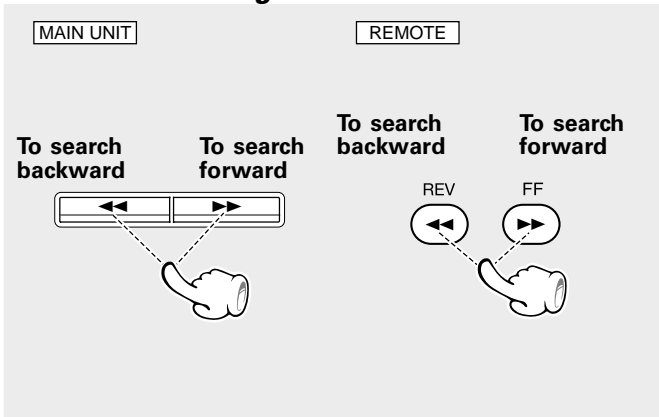


## CD DVD Skipping chapters or tracks



- The chapter (or track) in the direction of the key pressed is skipped, and the selected chapter (or track) will be played from the beginning.
- When the I◀◀ key is pressed once during playback, the chapter (or track) being played will be played from the beginning.

## CD DVD Searching



- During playback, press the **FF** or **REV** key
- Each press switches the searching speed.

**(At the time of DVD playback)**

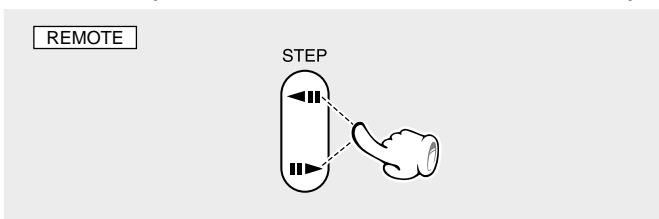
- ① × 2 (F.SEARCH 1)/(R.SEARCH 1)
- ② × 4 (F.SEARCH 2)/(R.SEARCH 2)
- ③ × 8 (F.SEARCH 3)/(R.SEARCH 3)
- ④ × 16 (F.SEARCH 4)/(R.SEARCH 4)

**(At the time of CD playback)**

- ① × 2 (F.SEARCH 1)/(R.SEARCH 1)
- ② × 4 (F.SEARCH 2)/(R.SEARCH 2)
- ③ × 8 (F.SEARCH 3)/(R.SEARCH 3)

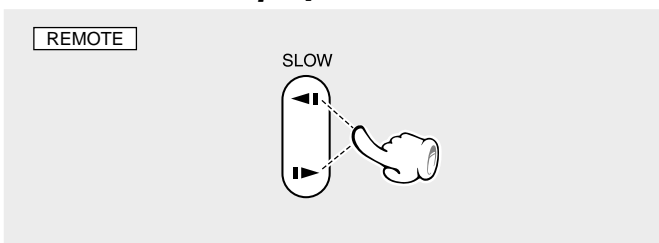
- Press the **PLAY** key at any time to resume normal playback.

## DVD STEP (freeze frame and frame advance)



- Each time you press the keys, the picture advances one frame.
- Press the **PLAY** key to resume normal playback.

## DVD Slow motion playback



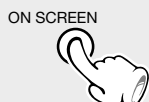
- During playback, press the **SLOW** keys
- Each press switches the motion speed.

- ① F.SLOW 1/16 (R.SLOW 1/16)
- ② F.SLOW 1/8 (R.SLOW 1/8)
- ③ F.SLOW 1/4 (R.SLOW 1/4)
- ④ F.SLOW 1/2 (R.SLOW 1/2)

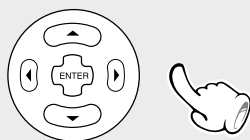
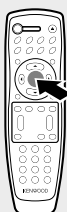
- Press the **PLAY** key to resume normal playback.

The on-screen Banner Display contains many playback features. To see the Banner Display, press ON SCREEN key on the remote while a disc is playing. Use the Cursor (Up/Down/Left/Right) keys on the remote to move through the different features in the Banner Display. Each feature is illustrated with an icon.

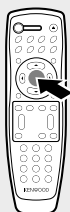
1 During playback, press the ON SCREEN key on the remote.



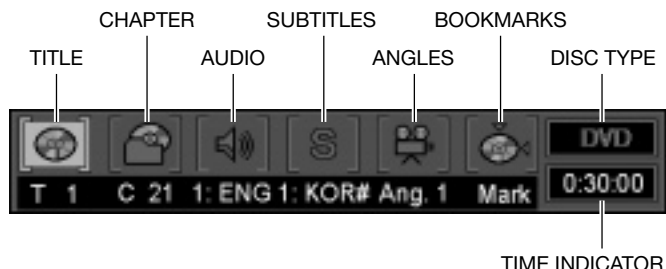
2 Press the Cursor left/right (◀/▶) keys to highlight a banner display icon.



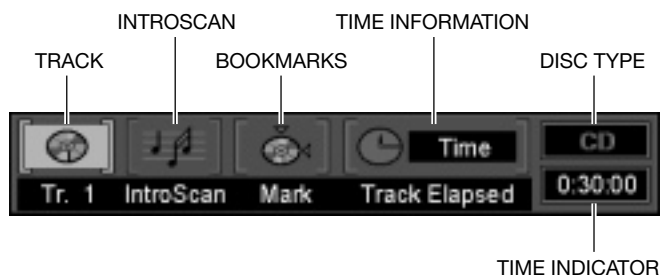
3 Press the ENTER key.



## When playing a DVD



## When playing a CD

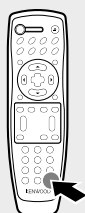


- You can only access the banner display when you're playing a disc.
- The banner display feature are only available if the disc was created with that particular feature (i.e., if you select the Subtitle icon, you won't be able to change the subtitle language unless the author of the disc created the disc with subtitles).
- The invalid symbol ⓪ appears on the screen when you press a key that doesn't have any function. If one of the icons is "grayed out," the banner display feature isn't available for the disc you're playing.

## To display disappear from the screen



or



ON SCREEN



CLEAR



## DVD Selecting a Title

Some discs contain more than one title. For example, there might be four movies on one disc (each movie might be considered a title).

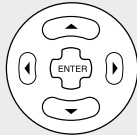
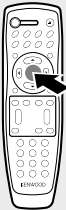
- ① During playback, press the ON SCREEN key on the remote.



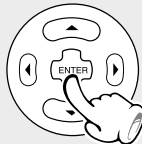
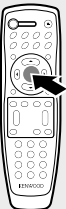
ON SCREEN



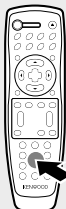
- ② Press the Cursor left/right (◀/▶) keys until the TITLE icon is highlighted.



- ③ Press the ENTER key. ("T\_" appears)



- ④ Use the numeric keys to enter the title number.



When you enter a one-digit Title number, you may have to press ENTER on the remote after pressing the numeric key (1~9) on the remote. Otherwise press 0 first and the other value. Then play starts. This varies depending on number of Title within the disc you're playing.



Some discs only have one title.

## DVD CD Selecting a Chapter or Track

Because DVD discs use digital technology, a title can be divided into individual chapters (similar to tracks on a CD). You can skip a specific chapter by using the Chapter section in the Banner Display.

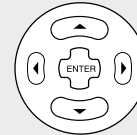
- ① During playback, press the ON SCREEN key on the remote.



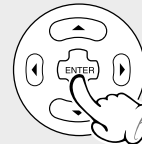
ON SCREEN



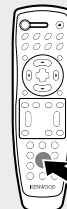
- ② Press the Cursor left/right (◀/▶) keys until the CHAPTER or TRACK icon is highlighted.



- ③ Press the ENTER key. ("C\_" or "Tr\_" appears)



- ④ Use the numeric keys to enter the chapter or title number.




When you enter a one-digit chapter or title number, you may have to press ENTER on the remote after pressing the numeric key (1~9) on the remote. Otherwise press 0 first and the other value. Then play starts. This varies depending on number of chapter or track within the disc you're playing.



The Chapter feature won't work if the disc isn't formatted with separate chapters

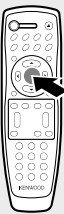
**DVD Changing the Audio Language**

If the disc was created with different language tracks, you can use the Banner Display to temporarily change the DVD player's Audio setting.

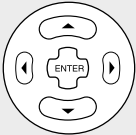
**Using the on-screen banner display**


**1** During playback, press the ON SCREEN key on the remote.

ON SCREEN

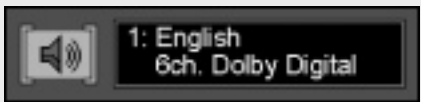


**2** Press the Cursor left/right (◀/▶) keys until the AUDIO icon is highlighted.



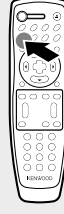
**3** Press the ENTER key.

The audio menu appears



**4** Select the audio language with press the ENTER key.

- The menu is switched off when no operation is performed for about 3 seconds.

**Using the AUDIO key on the remote**


**1** During playback, press the AUDIO key on the remote.

AUDIO

**2** Select the audio language with press the ENTER key or AUDIO key.


- The menu is switched off when no operation is performed for about 3 seconds.



1. The language feature only works if the disc was created with multiple audio tracks.
2. When you chose an audio language from the Banner Display, you only override the audio language setting in the DVD Player's main menu (in the Language Preferences menu within Setup menu) temporarily.

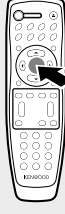
**DVD Changing the Subtitle Language**

You can change the Subtitle language while you're watching a disc (but only if the disc was created with subtitles).

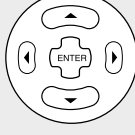
**Using the on-screen banner display**


**1** During playback, press the ON SCREEN key on the remote.

ON SCREEN

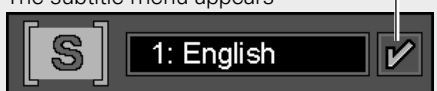


**2** Press the Cursor left/right (◀/▶) keys until the SUBTITLE icon is highlighted.




**3** Press the ENTER key.

The subtitle menu appears



**4** Select the subtitle language with press the ENTER key.

- The menu is switched off when no operation is performed for about 3 seconds.


**Using the SUB TITLE key on the remote**


**1** During playback, press the SUB TITLE key on the remote

**2** Select the subtitle language with press the ENTER key or SUB TITLE key.

**3** When the SUB TITLE ON/OFF key is pressed, subtitles will be displayed. Switching between display of subtitles and no display of subtitles is done each time the key is pressed.

Displayed when SUB TITLE is ON




1. The subtitle feature only works if the disc was created with multiple audio tracks.

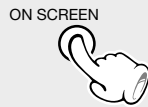
## DVD Changing the Camera angle

Some disc contains multiple angles particular scene or sequence. If the disc only has one angle, this feature won't work.

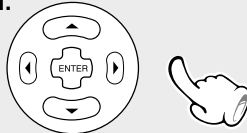
### Using the on-screen banner display



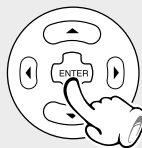
- 1 During playback, press the ON SCREEN key on the remote.



- 2 Press the Cursor left/right (◀/▶) keys until the ANGLE icon is highlighted.



- 3 Press the ENTER key.



The ANGLE menu appears



- 4 Select the angle with press the ENTER key.

- The menu is switched off when no operation is performed for about 3 seconds.

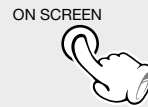
## CD Using IntroScan function

IntroScan plays the first few seconds of each track on the CD similar to the scan feature that's on many car radios.

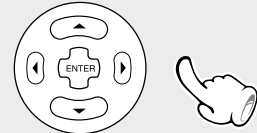
### Using the on-screen banner display



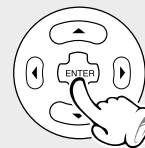
- 1 During playback, press the ON SCREEN key on the remote.



- 2 Press the Cursor left/right (◀/▶) keys until the IntroScan icon is highlighted.

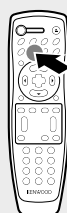


- 3 Press the ENTER key.



- The first 10 seconds of each track play.
- After Intro Scan goes through all of the tracks, it stops.
- If you want to stop IntroScan while it's in progress, just press PLAY (▶) key on the remote (the current track starts playing in its entirety).

### Using the ANGLE key on the remote



- 1 During playback, press the ANGLE key on the remote.




- 2 Select the audio language with press the ENTER key or ANGLE key.

- The menu is switched off when no operation is performed for about 3 seconds.

## DVD CD Using Bookmarks

The bookmark feature lets you mark a point on the disc that you can go to quickly. You can store up to 9 bookmarks.

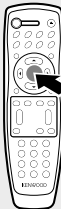
### Create the bookmark

- 

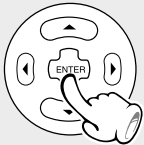
**1** During playback, press the ON SCREEN key on the remote.


- 


**2** Press the Cursor left/right (◀/▶) keys until the BOOKMARK icon is highlighted.


- 

**3** Press the ENTER key.




The bookmark menu appears


- 

**4** When you reach the scene you want to mark, press ENTER.



The bookmark appears on under square



- Press the ON SCREEN key or CLEAR key to switch the menu off.


### Clearing a bookmark

- The bookmark is cleared each time a disc is removed from the player or when the power is turned off.

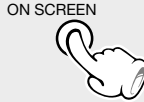



- If all 9 bookmarks are in use, you can still mark new scenes, but the previous bookmarks will be erased.

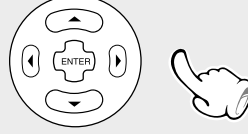

### Recalling a bookmarked scene

- 

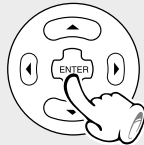
**1** During playback, press the ON SCREEN key on the remote.


- 



**2** Press the Cursor left/right (◀/▶) keys until the BOOKMARK icon is highlighted.


- 

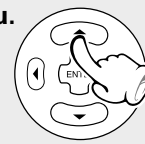

**3** Press the ENTER key.



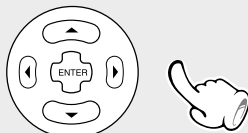
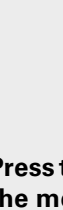
The bookmark appears on under square


- 

**2** Press the Cursor up (▲) key on the remote to go the parts of the Bookmark menu.


- 

**3** Use the Cursor left/right (◀/▶) keys on the remote to select the bookmarked scene you want to activate.


- 

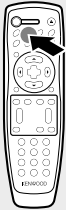
**4** Press the ENTER key to active the bookmark.

- Press the ON SCREEN key or CLEAR key to switch the menu off.

**DVD CD Repeat play**

Desired titles or discs can be played back repeatedly. There are four Repeat options:

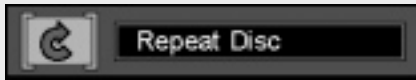
- Disc – Repeat the disc that is playing.
- Title – Repeat the title that is playing.
- Chapter – Repeat the chapter that is playing.



1 During playback, press REPEAT on the remote.



The Repeat display appears



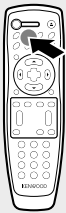
Each press the key switches the REPEAT mode.

At the time of DVD playback

- 1 REPEAT DISC
- 2 REPEAT TITLE
- 3 REPEAT CHAPTER
- 4 REPEAT OFF

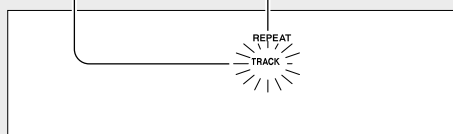
At the time of CD playback

- 1 REPEAT DISC
- 2 REPEAT TRACK
- 3 REPEAT OFF



TRACK, TITLE, or CHAPTER mode  
Flashing

At the time of REPEAT mode "REPEAT" is light.



LED display

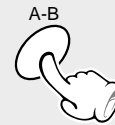
- To cancel repeat playback, press the REPEAT key and select "Repeat off".
- The menu is switched off when no operation is performed for about 3 seconds.

**DVD CD A-B Repeat play**

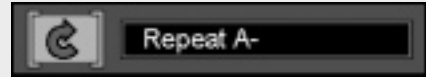
The A-B repeat function lets you mark a segment to repeat between the beginning "A" and the end "B" of the segment you want to replay.



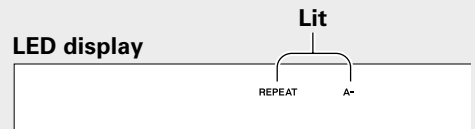
1 Press the A-B key on the remote when you want to choose a scene (sound) as the beginning point.



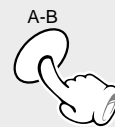
The Repeat A- display appears



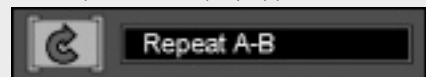
LED display



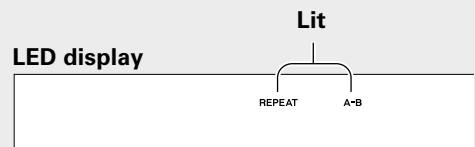
2 Press the A-B key again to choose a scene (sound) as the end point.



The Repeat A-B display appears



LED display

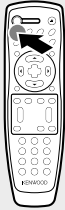


- To cancel A-B Repeat playback, press the A-B key and select "Repeat off".
- The menu is switched off when no operation is performed for about 3 seconds.



**CD** *Random play*

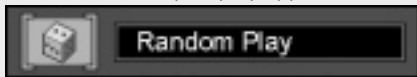
The chapters or tracks of the disc are played in random order.



**1** During playback or stop mode, press **RANDOM** on the remote.

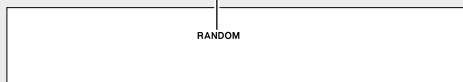


The Random Play display appears



LED display

Lit



Each time you press **RANDOM** on the remote, random play would be on and off.

- ① "Random Play"
- ② "Standard Play"

The Standard Play display appears when random is off.



- The menu is switched off when no operation is performed for about 3 seconds.

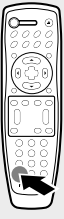



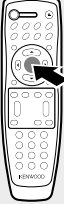
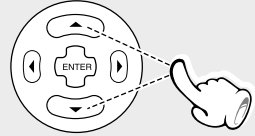
**Note** When playing a DVD, the Random function may not work.

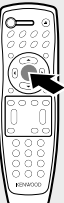

You can listen to the desired tracks or chapters of the current disc in any desired order.

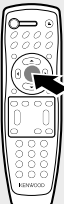
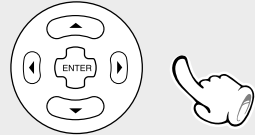
## Program Edit

- 1** During stop mode, press the P.MODE key on the remote

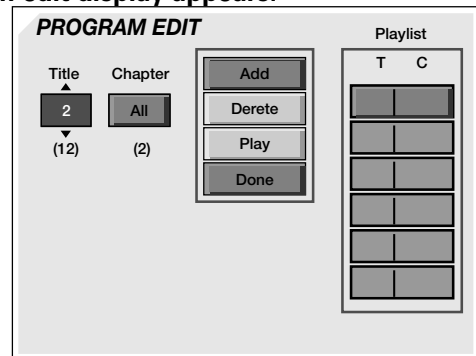


- 2** Select specific title/chapter or track by Press Cursor up/down (▲/▼) keys or numeric keys (0-9).



- 3** Press the ENTER key.






- 4** Select ADD icon on the screen to register selected value onto Playlist.

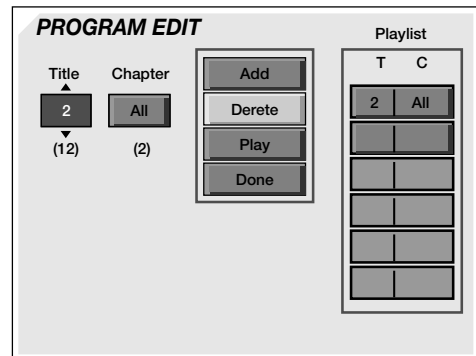


- 5** You can select maximum 32 values by repeating step 2 - 4.

Program edit display appears.



(An example of DVD program edit menu)


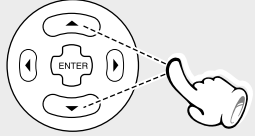
-  : Selected icon
-  : An icon which can be selected
-  : An icon which presently can not be selected

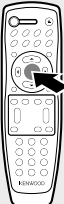
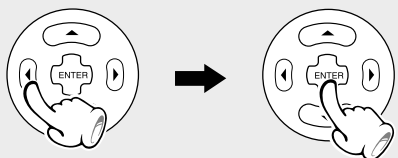


- When you don't add values onto "Playlist" and return to play mode, select Done icon and press ENTER key on the remote.
- While a disc is playing, press P.MODE key on the remote to start Program play
- To return to standard play, press the P.MODE key again.

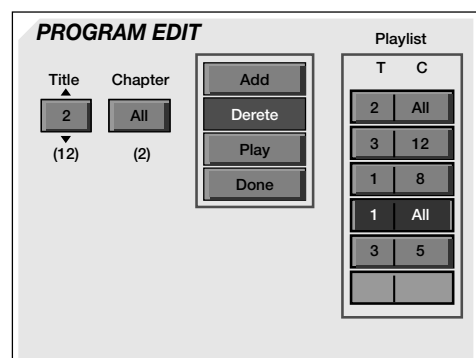
## Delete Program

- 1** Use the Cursor up/down (▲/▼) keys to select the column to be deleted from the "Play list". (The color of the column where the Cursor is located will change.)



- 2** Press the Cursor left (◀) key, use the Cursor up/down keys to move the Cursor to the Delete icon, and press the ENTER key.

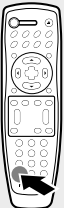



Selected value deletes



### Insert chapter or track


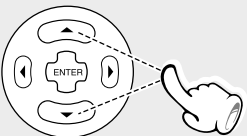
**1** Press the P.MODE key on the remote



P.MODE



**2** Select specific title/chapter or track to insert by Press Cursor up/down (▲/▼) keys or numeric keys (0-9).

**3** Move the cursor with the Cursor right (▶) key to the "Play list" and select the column to be added with the Cursor up/down (▲/▼) keys.



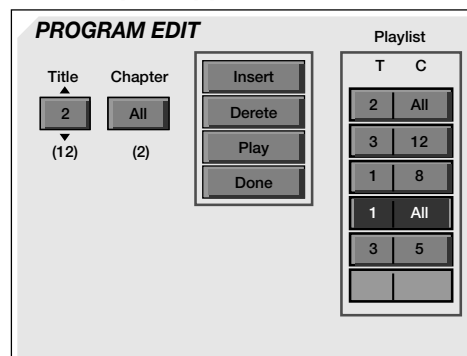

(The color of the column where the Cursor is located will change.)

**4** Move the cursor with the Cursor left (◀) key to the Insert icon and press the ENTER key.

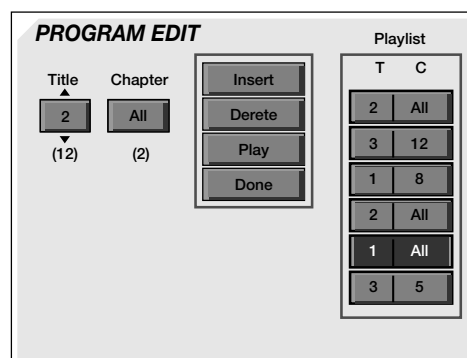



The new chapter or track will be inserted before (above) the selected column.

Program edit display appears.



(An example of DVD program edit menu)



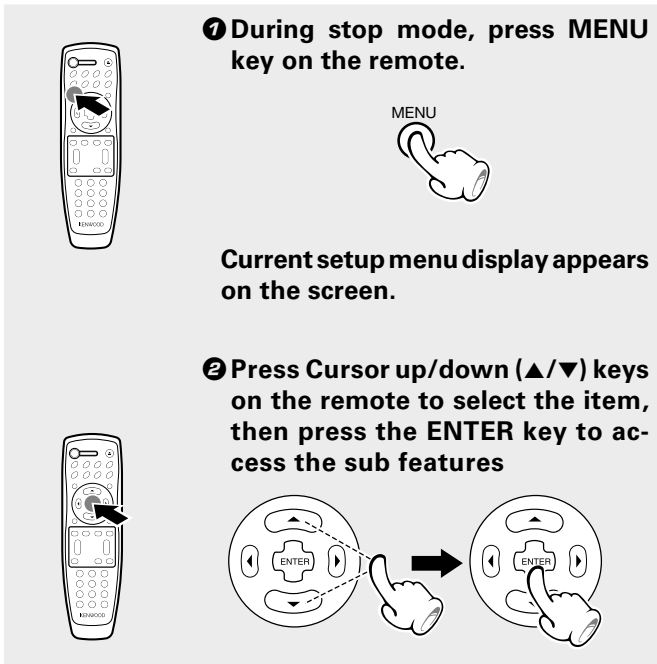
### Release Program play

In following case, Program play would be released.

1. When you open and close tray.
2. When you turn power off and on.

## Set up menu

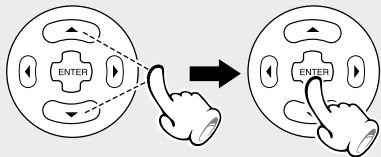
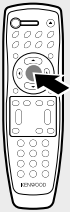
The initial setup of the player, which has been made at the factory, can be changed to the desired setup.



- Audio / Subtitle (disc languages)** : This sets the language to be used when playing a disc. (If a disc does not contain the recording the selected language, it is played in the priority language set for each disc.)
- Menus** : This sets the initial setup of language as well as the language used in on-screen messages such as "PLAY".
- Rating** : This can restrict playback of adult-oriented DVD discs that you do not want to be seen by children.  
However, even when a DVD disc is marked "Adult-oriented" or so on the label, its viewing cannot be restricted unless the restriction level is recorded in the disc itself.
- Password** : The password for rating setting, change, cancellation, etc. is set.
- TV Aspect** : This sets the screen size (4:3 or 16:9 aspect ratio) according to the connected TV.
  - 4 x 3 letterbox** : Choose this setting if you would prefer to see movies in their original aspect ratio. You will see the entire frame of the movie, but it will occupy a smaller portion of the screen. This setting may result in the movie appearing with black bars at the top and bottom of the screen.
  - 4 x 3 Pan Scan** : Choose this setting if you want the movie to fill the entire screen of your TV. You won't see part of the picture (particularly the right and left edge).  
Some disc produced in a wide screen format can't be cropped in this fashion, which means the black bars would appear at the top and the bottom of the screen.
  - 16 x 9 Widescreen** : Choose this setting if your DVD player is connected to a widescreen TV.
- Dynamic Range** : This is set to ON when the volume change should not become overly large, for example when listening late at night.
- Digital Audio Out** : This sets the type of audio output from the digital audio output jack.

## DVD Select Audio Language

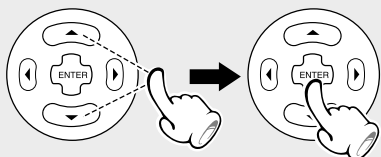
- 1 Press Cursor up/down (▲/▼) keys on the remote to select Audio on the set up menu display, then press the ENTER key.



(Audio menu appears.)

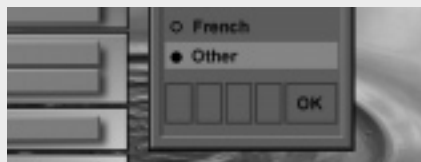


- 2 Press Cursor up/down (▲/▼) keys on the remote to select specific Audio language, then press the ENTER key.



### To select other language

- 1 Select "Other" and press ENTER key



- 2 Input code in the first digit by Press Cursor up/down (▲/▼) keys or numeric keys on the remote and repeat other 3 code with same way.

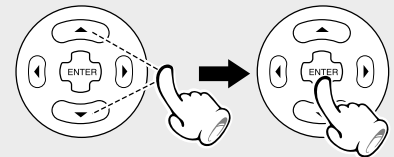
- 3 Select "OK" icon and press ENTER.

(DVD menu language code list - 35)

- Press PLAY key to resume normal playback.

## DVD Select Subtitle Language

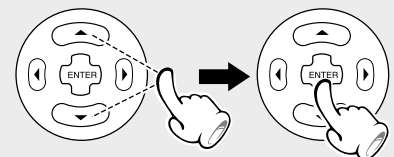
- 1 Press Cursor up/down (▲/▼) keys on the remote to select Subtitle on the set up menu display, then press the ENTER key.



(Subtitle menu appears.)

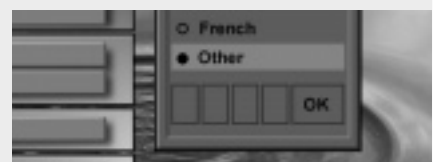


- 2 Press Cursor up/down (▲/▼) keys on the remote to select specific Subtitle language, then press the ENTER key.



### To select other language

- 1 Select "Other" and press ENTER key



- 2 Input code in the first digit by Press Cursor up/down (▲/▼) keys or numeric keys on the remote and repeat other 3 code with same way.

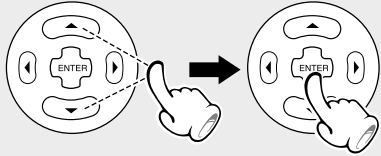
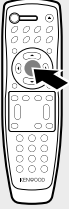
- 3 Select "OK" icon and press ENTER.

(DVD menu language code list - 35)

- Press PLAY key to resume normal playback.

## DVD Select Menu Language

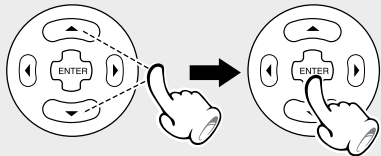
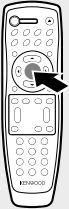
- ① Press Cursor up/down (▲/▼) keys on the remote to select Menus on the set up menu display, then press the ENTER key.



(Menus appears.)



- ② Press Cursor up/down (▲/▼) keys on the remote to select specific Audio language, then press the ENTER key.

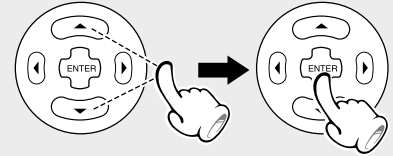


- Press PLAY key to resume normal playback.

## DVD Select Rating

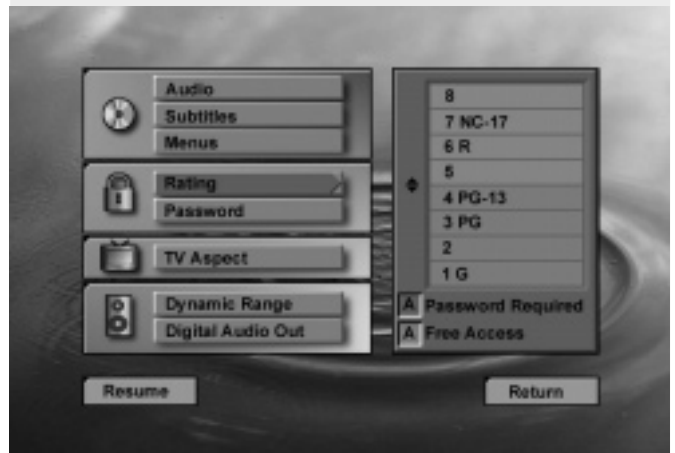
This part of DVD rating lets you determine how your player will react discs that contain movies that are rated (in the U.S.A. the Motion Pictures Association of America rates movies as G, PG, PG-13, etc.).

- ① Press Cursor up/down (▲/▼) keys on the remote to select Menus on the set up menu display, then press the ENTER key.

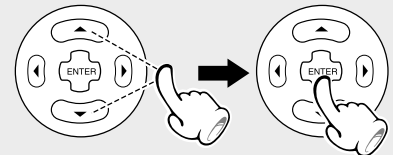


When a password already has been set, the screen for change of the entered password will be displayed. In that case, enter the password. (See page 31.)

(Rating aspect menu appears.)



- ② Press Cursor up/down (▲/▼) keys on the remote to highlight rated titles, then press the ENTER key.

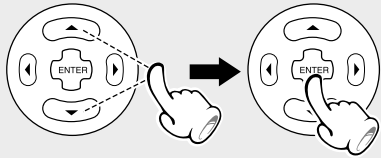
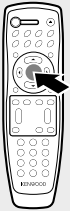


- Press PLAY key to resume normal playback.

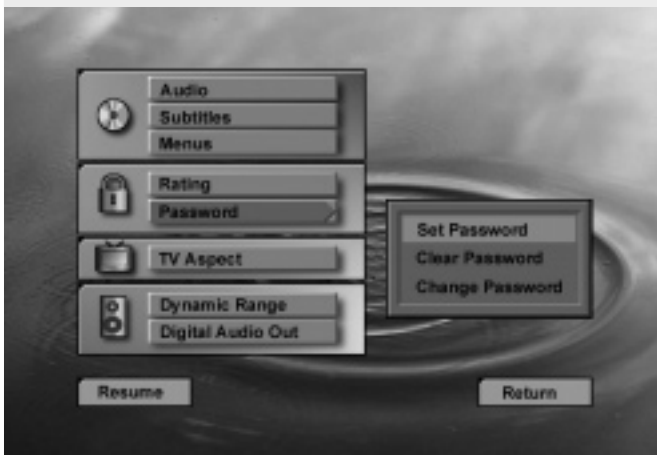
**DVD Password**

**Input password**

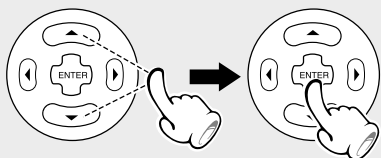
- 1 Press Cursor up/down (▲/▼) keys on the remote to select Password on the set up menu display, then press the ENTER key.



(Password menu appears.)

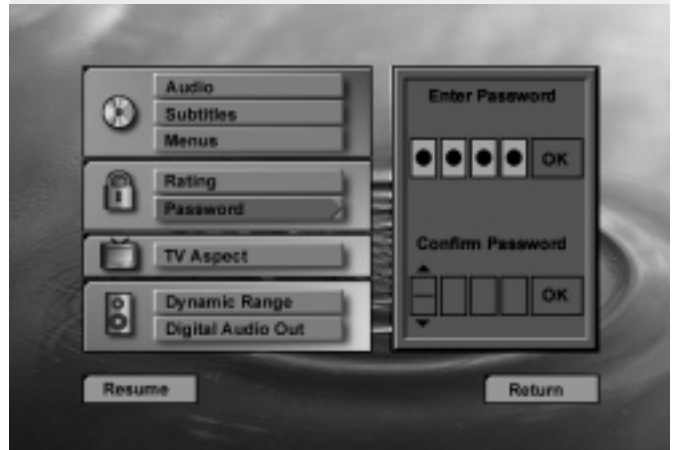


- 2 After select "Set Password", press the ENTER key.

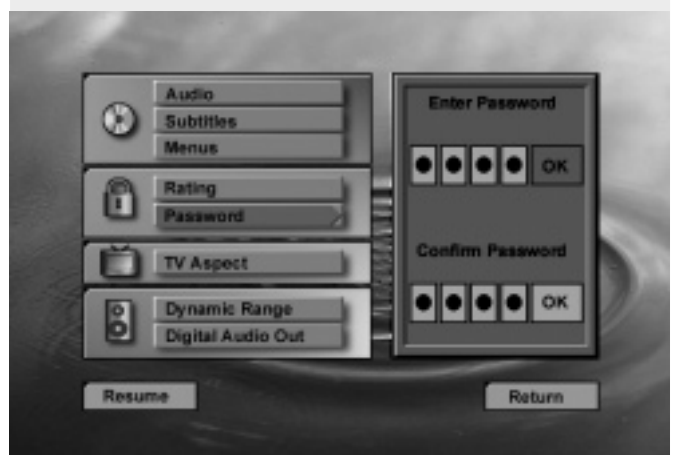
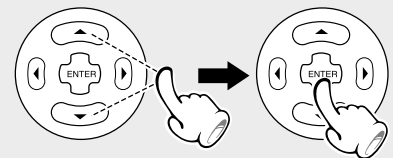


- 3 Press Cursor up/down (▲/▼) keys or numeric keys on the remote to enter password.

- 4 Press ENTER key to finish password input (Confirm Password display appears below Enter Password display).



- 5 Press Cursor up/down (▲/▼) keys or numeric keys on the remote to enter again password that you entered, then press the ENTER key.



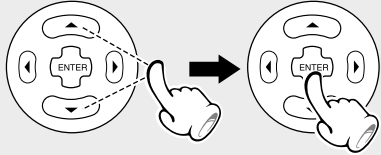
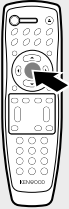
- 6 Select OK and press the ENTER key.

- Press PLAY key to resume normal playback.

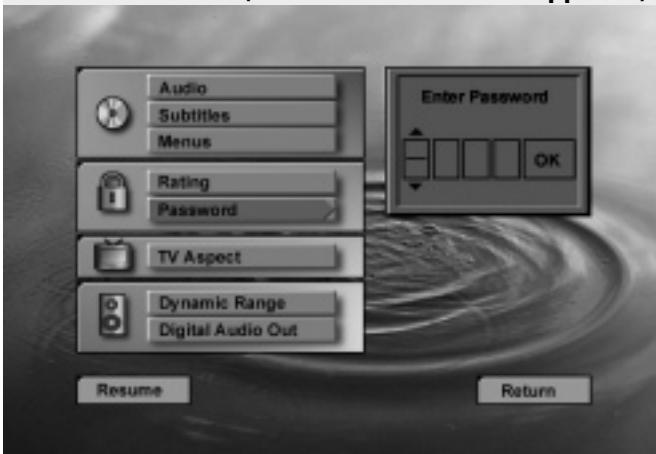
## DVD Password (continued)

### Change password

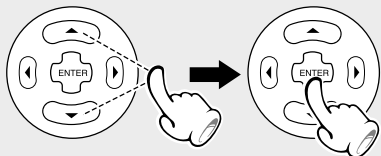
- ① Press Cursor up/down (▲/▼) keys on the remote to select Password on the set up menu display, then press the ENTER key.



(Enter Password menu appears.)

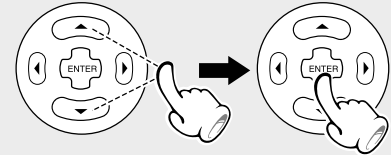


- ② Press Cursor up/down (▲/▼) keys or numeric keys on the remote to enter password. Select OK and press ENTER key.

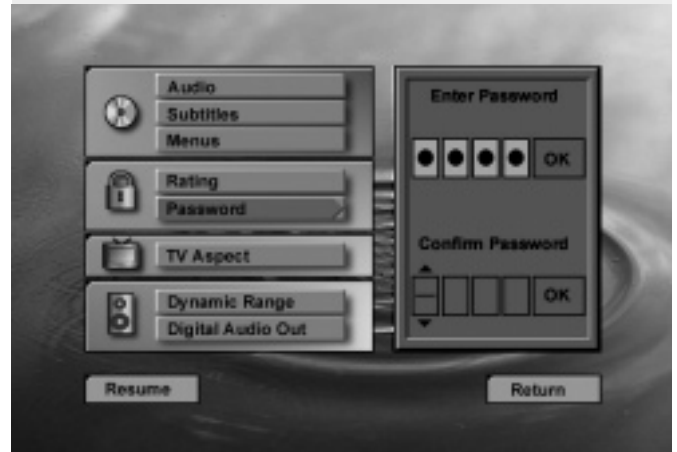


- ③ Press Cursor up/down (▲/▼) keys to select Change Password, then press ENTER key.

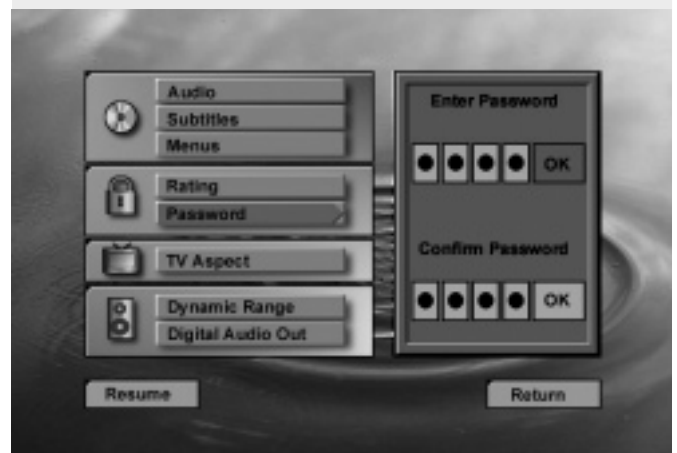
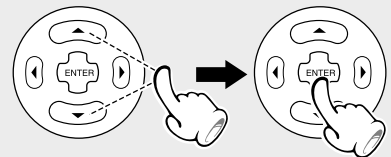
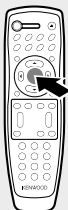
- ④ Press Cursor up/down (▲/▼) keys or numeric keys on the remote to enter password.



- ⑤ Press ENTER key to finish password input (Confirm Password display appears below Enter Password display).



- ⑥ Press Cursor up/down (▲/▼) keys or numeric keys on the remote to enter again password that you entered, then press the ENTER key.



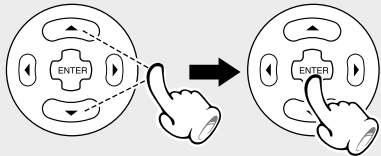
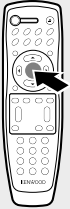
- ⑦ Select OK and press the ENTER key.



## DVD Password (continued)

### Clear password

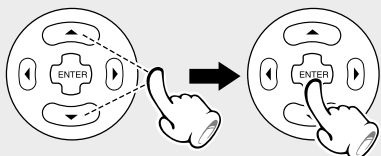
- 1 Press Cursor up/down (▲/▼) keys on the remote to select Password on the set up menu display, then press the ENTER key.



(Enter Password menu appears.)



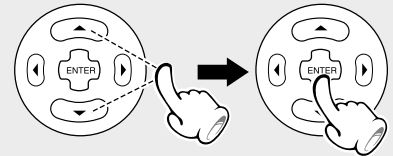
- 2 Press Cursor up/down (▲/▼) keys or numeric keys on the remote to enter password. Select OK and press ENTER key.



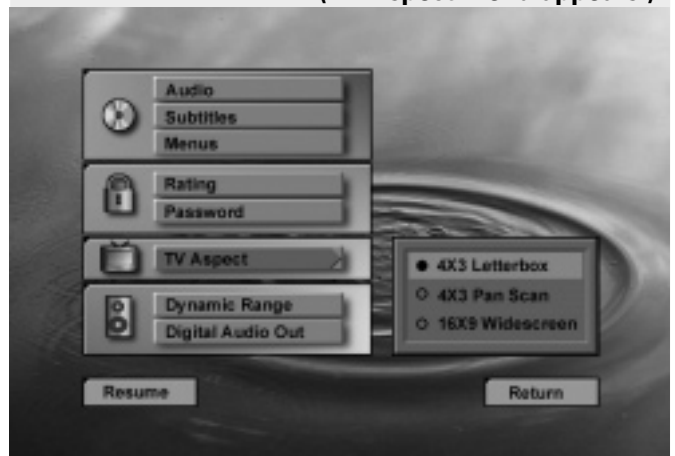
- 3 Press Cursor up/down (▲/▼) keys to select Clear Password, then press ENTER key.

## DVD TV aspect

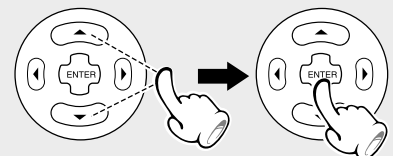
- 1 Press Cursor up/down (▲/▼) keys on the remote to select TV Aspect on the set up menu display, then press the ENTER key.



(TV Aspect menu appears.)



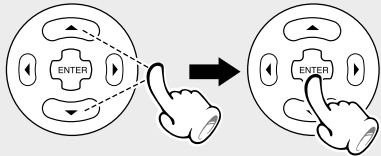
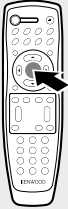
- 2 Press Cursor up/down (▲/▼) keys on the remote to select TV Aspect menu, then press the ENTER key.



- Press PLAY key to resume normal playback.

## DVD Dynamic Range

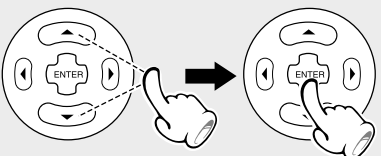
- ① Press Cursor up/down (▲/▼) keys on the remote to select Dynamic Range on the set up menu display, then press the ENTER key.



(Dynamic Range menu appears.)



- ② Press Cursor up/down (▲/▼) keys on the remote to select Dynamic Range mode (on or off), then press the ENTER key.



- Press PLAY key to resume normal playback.

### DTS disclaimer clause

When playing DTS-encoded (CDs, DVDs), excessive noise will be exhibited from the analog stereo outputs. To avoid possible damage to the audio system, the consumer should take proper pre-cautions when the analog stereo outputs of the DVD player is connected to an amplification system. To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the digital output (S/P DIF, AES/EBU, or TosLink) of the DVD player.

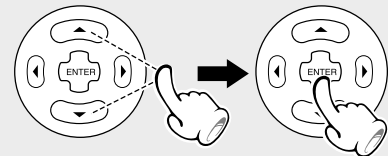
## DVD Digital Audio Out

**PCM** : Choose this setting for all connection scenarios, except the Dolby Digital or DTS receiver or decoder connection.

**Dolby Digital** : Choose this setting if you connected Dolby Digital receiver or decoder to your DVD player.

**MPEG-2/DTS** : Choose this setting if you connected DTS receiver or decoder to your DVD player

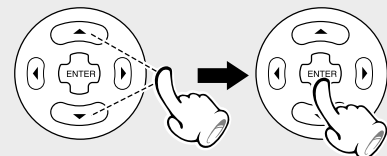
- ① Press Cursor up/down (▲/▼) keys on the remote to select Digital Audio Out on the set up menu display, then press the ENTER key.



(Digital Audio Out display appears.)



- ② Press Cursor up/down (▲/▼) keys on the remote to select specific Digital Audio Out mode, then press the ENTER key.



- Press PLAY key to resume normal playback.

## DVD menu language code list

Cord No.	Language
6565	Afar
6566	Abkhazian
6570	Afrikaans
6577	Amharic
6582	Arabic
6583	Assamese
6588	Aymara
6590	Azerbaijani
6665	Bashkir
6669	Byelorussian
6671	Bulgarian
6672	Bihari
6678	Bengali; Bangla
6679	Tibetan
6682	Breton
6765	Catalan
6779	Corsican
6783	Czech
6789	Welsh
6865	Danish
6869	German
6890	Bhutani
6976	Greek
6978	English
6979	Esperanto
6983	Spanish
6984	Estonian
6985	Basque
7065	Persian
7073	Finnish
7074	Fiji
7079	Faroese
7082	French
7089	Frisian
7165	Irish
7168	Scots Gaelic
7176	Galician
7178	Guarani
7185	Gujarati
7265	Hausa
7273	Hindi

Cord No.	Language
7282	Croatian
7285	Hungarian
7289	Armenian
7365	Interlingua
7378	Indonesian
7383	Icelandic
7384	Italian
7387	Hebrew
7465	Japanese
7473	Yiddish
7487	Javanese
7565	Geogian
7575	Kazakh
7576	Greenlandic
7577	Cambodian
7578	Kannada
7579	Korean
7583	Kashmiri
7585	Kurdish
7589	Kirghiz
7665	Latin
7678	Lingala
7679	Laothian
7684	Lithuanian
7686	Latvian; Lettish
7771	Malagasy
7773	Maori
7775	Macedonian
7776	Malayalam
7778	Mongolian
7779	Moldavian
7782	Marathi
7783	Malay
7784	Maltese
7789	Burmese
7865	Nauru
7869	Nepali
7876	Dutch
7879	Nowegian
7982	Oriya
8065	Punjabi

Cord No.	Language
8076	Polish
8083	Pashto; Pushto
8084	Portuguese
8185	Quechua
8277	Rhaeto-Romance
8279	Romanian
8285	Russian
8365	Sanskrit
8368	Sindhi
8372	Serbo-Croatian
8373	Singhalese
8375	Slovak
8376	Slovenian
8377	Samoan
8378	Shona
8379	Somali
8381	Albanian
8382	Serbian
8385	Sundanese
8386	Swedish
8387	Swahili
8465	Tamil
8469	Telugu
8471	Tajik
8472	Thai
8473	Tigrinya
8475	Turkmen
8476	Tagalog
8479	Tonga
8482	Turkish
8484	Tatar
8487	Twi
8575	Ukrainian
8582	Urdu
8590	Uzbek
8673	Vietnamese
8679	Volapük
8779	Wolof
8872	Xhosa
8979	Yoruda
9072	Chinese
9085	Zulu

## DIMMER function

The display brightness of the main unit can be changed.

Switching as shown below is done each time the DIMMER key on the remote control is pressed.

- ① Dim
- ② Not lit
- ③ Bright

What appears to be a malfunction may not always be serious. If your unit should not perform as expected, consult the table below to see if the problem can be corrected before seeking help from your dealer or service representative.

### Operation to reset

The microprocessor may fall into malfunction (impossibility to operate erroneous display, etc.) when the power cord is unplugged while power is ON or due to an external factor. In this case, execute the following procedure to reset the microprocessor and return it to normal condition.

- ❶ In **POWER ON** condition, keep the **■** (STOP) key and the **ON/STANDBY** key pressed at the same time.
- ❷ When both keys are pressed, the region code of the unit, the software version, etc. will be displayed on the display. (When nothing is done, the display of this information continues.) Example: 71 . 101 . 06:14
- ❸ Press the **ON/STANDBY** key to go to STANDBY mode.
- ❹ When Power ON is performed with the **ON/STANDBY** key, the settings become the default factory settings.

● Please note that resetting the microprocessor clears the contents stored in, it returns the microprocessor to the condition when it left the factory.

### DVD player unit

Symptom	Cause	Remedy
Playback does not start when the play (▶) key is pressed.	<ul style="list-style-type: none"> <li>● There is no disc in the player.</li> <li>● There are no signals recorded on the side of the disc being played.</li> </ul>	<ul style="list-style-type: none"> <li>● Load a disc and press the play (▶) key.</li> <li>● Turn the disc over and properly place it on the disc tray.</li> </ul>
Playback starts but no image/sound is seen/heard.	<ul style="list-style-type: none"> <li>● The TV is not turned on.</li> <li>● The connection cords are not properly connected.</li> </ul>	<ul style="list-style-type: none"> <li>● Turn on the TV.</li> <li>● Properly reconnect the connection cords.</li> </ul>
The picture is disrupted when the image is fast forwarded or fast reversed.	<ul style="list-style-type: none"> <li>● The picture is slightly disrupted during fast forward and fast reverse operations.</li> </ul>	<ul style="list-style-type: none"> <li>● This is not a malfunction.</li> </ul>
No sound is heard.	<ul style="list-style-type: none"> <li>● The audio output cords are not properly connected.</li> <li>● The volume control of the TV or amplifier is not adjusted properly.</li> <li>● The player is in a special playback mode.</li> </ul>	<ul style="list-style-type: none"> <li>● Properly connect the audio cords.</li> <li>● Set the sound volume to an appropriate level.</li> <li>● Press the play (▶) key to resume normal playback mode.</li> </ul>
The picture does not look good or the picture/sound quality is poor.	<ul style="list-style-type: none"> <li>● A nearby device is generating noise.</li> <li>● The disc is dirty.</li> <li>● The disc is damaged.</li> <li>● There is condensation on the optical lens.</li> </ul>	<ul style="list-style-type: none"> <li>● Separate this unit as far as possible from the device you think is generating the noise.</li> <li>● Refer to the "Disc handling precautions" section and wipe dirt from the disc.</li> <li>● Use a new disc.</li> <li>● Refer to the "Beware of condensation" section and evaporate the condensation.</li> </ul>
It takes a while for the disc to start playing.	<ul style="list-style-type: none"> <li>● Time is required for the unit to detect the disc type and size and for the rotation of the motor to stabilize. This is not a malfunction.</li> </ul>	<ul style="list-style-type: none"> <li>● Approximately 10 to 20 seconds are required for a disc to start playing, although the time differs depending on the disc.</li> </ul>
The tray opens automatically.	<ul style="list-style-type: none"> <li>● The disc is not placed horizontally.</li> </ul>	<ul style="list-style-type: none"> <li>● Properly place the disc on the tray.</li> </ul>
The top and bottom of the screen cannot be seen.	<ul style="list-style-type: none"> <li>● The video format of the disc being played does not match that of the connected TV monitor.</li> </ul>	<ul style="list-style-type: none"> <li>● Refer to the "Video formats" section, and use a disc with the appropriate video format for your TV or a TV with the appropriate video format for the disc.</li> </ul>
The subtitle is not displayed.	<ul style="list-style-type: none"> <li>● The DVD disc being played does not contain the recording of subtitles.</li> <li>● The subtitle mode is set to off.</li> </ul>	<ul style="list-style-type: none"> <li>● The subtitle cannot be displayed when the DVD disc being played does not contain the recording of subtitles.</li> <li>● Press the <b>SUB TITLE-ON/OFF</b> key to switch on the subtitle mode.</li> </ul>
The voice (or subtitle) language cannot be changed.	<ul style="list-style-type: none"> <li>● The DVD disc being played does not contain the recording of more than one audio (or subtitle) language.</li> </ul>	<ul style="list-style-type: none"> <li>● The voice (or subtitle) language cannot be changed when the DVD disc being played does not contain the recording of more than one voice (or subtitle) language.</li> </ul>
The viewing angle cannot be changed.	<ul style="list-style-type: none"> <li>● The DVD disc being played does not contain the recording of more than one angle.</li> <li>● You are attempting to switch the angle in a DVD section where more than one angle is not recorded.</li> </ul>	<ul style="list-style-type: none"> <li>● The viewing angle cannot be changed when the DVD disc being played does not contain the recording of more than one angle.</li> <li>● More than one viewing angle may be recorded only in limited sections in a disc.</li> </ul>


## DVD player unit

Symptom	Cause	Remedy
Playback will not start even after a title is selected.	<ul style="list-style-type: none"> <li>● A viewing restriction (RATING) has been set for the disc.</li> </ul>	<ul style="list-style-type: none"> <li>● Check the viewing restriction level (RATING) setting.</li> </ul>
The viewing restriction level (RATING) cannot be changed.	<ul style="list-style-type: none"> <li>● You have forgotten the viewing restriction (RATING) password.</li> </ul>	<ul style="list-style-type: none"> <li>● Set the initial setup to the factory setup with the following procedure.               <ol style="list-style-type: none"> <li>① At the time of Power ON, press the <b>ON/STANDBY</b> key while keeping the 4 (backskip) key pressed.</li> <li>② "BYE" is displayed.</li> <li>③ Press the <b>ON/STANDBY</b> key to go to <b>STANDBY</b> mode.</li> <li>④ When Power ON is performed with the <b>ON/STANDBY</b> key, the settings become the default factory settings</li> </ol> </li> </ul>
The voice or subtitle language selected in the initial setting is not played.	<ul style="list-style-type: none"> <li>● The DVD disc being played does not contain the recording of the selected voice or subtitle language.</li> </ul>	<ul style="list-style-type: none"> <li>● Use a DVD disc containing the recording of the selected voice or subtitle language.</li> </ul>
No message appears on the TV screen after a key is pressed.	<ul style="list-style-type: none"> <li>● The function for displaying message on the TV screen (On-Screen Messages) is set to off.</li> </ul>	<ul style="list-style-type: none"> <li>● Set On-Screen Messages to on.</li> </ul>
Menu screen messages are not shown in the desired language.	<ul style="list-style-type: none"> <li>● The menu language function (MENU) is not set.</li> </ul>	<ul style="list-style-type: none"> <li>● Set the disc menu language function (MENU) as required.</li> </ul>

## Remote control unit

Symptom	Cause	Remedy
Remote control operation is not possible.	<ul style="list-style-type: none"> <li>● Batteries are exhausted.</li> <li>● The remote control is too far away from the system, the controlling angle is deviated or there is an obstacle in between.</li> </ul>	<ul style="list-style-type: none"> <li>● Replace with new batteries.</li> <li>● Operate the unit inside the remote controllable range.</li> </ul>

## Inhibition icon

Symptom	Cause	Remedy
 <p>The inhibition icon is displayed and remote control is not possible.</p>	<ul style="list-style-type: none"> <li>● Playback is restricted intentionally by the software producer.</li> </ul>	<ul style="list-style-type: none"> <li>● The operation is inhibited. Please try another operation.</li> </ul>

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

This product is compatible with the MacroVision type copy protection. Some discs contain the recording of copy inhibit signals, and the video may be disturbed when the video of such discs is recorded onto a VCR and played back.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property right 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.

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**[Type]**

System ..... DVD video player system  
Signal read system ..... Semiconductor laser

**[D/A Conversion Section]**

D/A conversion ..... 24 Bit  
Oversampling ..... 8 fs (Sampling frequency; 44.1, 48 kHz)  
4 fs (Sampling frequency; 96 kHz)

**[Audio section]**

Frequency response  
Sampling frequency ; 44.1 kHz ..... 10 Hz ~ 20 kHz  
Sampling frequency ; 48 kHz ..... 10 Hz ~ 22 kHz  
Sampling frequency ; 96 kHz ..... 10 Hz ~ 22 kHz  
Signal to noise ratio ..... More than 98 dB  
Dynamic range ..... More than 95 dB  
Total harmonic distortion ..... Less than 0.005 % (1 kHz)  
Channel separation ..... More than 95 dB (1 kHz)  
Wow and flutter ..... Below measurable limit  
Analog output level/impedance ..... 2 V / 1 k $\Omega$   
Digital output level/impedance

COAXIAL ..... 0.5 Vp-p / 75  $\Omega$   
OPTICAL ..... -21 dBm ~ -15 dBm (Wave length 660 nm)

**[Video Section]**

Video output format ..... NTSC/PAL  
Video compression  
DVD ..... MPEG-2  
Composite video output level  
..... 1 Vp-p (75  $\Omega$  load, sync. negative)  
S-video output level  
(Y-signal) ..... 1 Vp-p (75  $\Omega$  load, sync. negative)  
(C-signal)  
NTSC ..... 0.286 Vp-p (75  $\Omega$ )  
PAL ..... 0.300 Vp-p (75  $\Omega$ )  
Horizontal resolution ..... More than 480 lines  
Video signal to noise ratio ..... More than 60 dB

**[General]**

Power consumption ..... 20 W  
Dimensions ..... W:440 mm (17-5/16")  
H: 109 mm (4-5/16")  
D: 325 mm (12-13/16")  
Weight (net) ..... 4.0 kg (8.8 lb)



**KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.**

- Sufficient performance may not be exhibited at extremely cold locations (Where water freezes).



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# KENWOOD

***For your records***

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model \_\_\_\_\_ Serial Number \_\_\_\_\_



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