

# KENWOOD

DVD RECEIVER

# DVR-505

# DVR-7000

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## INSTRUCTION MANUAL

KENWOOD CORPORATION



## 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

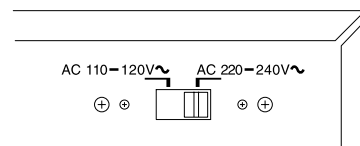
Do not connect those leads to the earth terminal of a three-pin plug.

### \*For other countries

#### AC voltage selection

This unit operates on 110-120 or 220-240 volts AC . The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction.

#### AC voltage selector switch



Move switch lever to match your line voltage with a small screwdriver or other pointed tool.




#### Note:

Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.

## 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)







The marking this product has been classified as Class 1. It means that there is no danger of hazardous radiation outside the product.  
 Location: Back panel

Preparations

Caution : Read the pages marked  carefully to ensure safe operation.

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## 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.


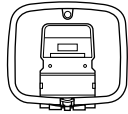

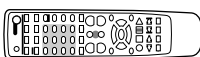
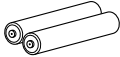
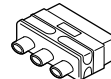

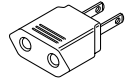
We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future.

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

## Accessories

Please confirm that the following accessories are present.

### Accessories packed with the main unit

<b>FM indoor antenna (1)</b> 	<b>Loop antenna (1)</b> 	<b>Video cord (1)</b> 
<b>Remote control unit (1)</b> 	<b>Batteries (LR03/AAA) (2)</b> 	<b>SCART plug (1) (for U.K. only)</b> 
<b>Speaker cords (6)</b> 	<b>*AC plug adaptor (1) *</b> Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.) 	

### Speaker model names

System	Front speakers and surround speakers	Subwoofer
DVR-505	KS-305DV (Left speaker, right speaker, center speaker and surround speakers)	SW-15DV
DVR-7000	KSW-7000 (Left speaker, right speaker, center speaker, surround speakers and subwoofer)	

## CHANNEL SPACE setting (Except for the U.S.A., Canada, U.K., Europe and Australia)

The space between radio channels has been set to the one that prevails in the area to which the system is shipped. However, if the current channel space setting does not match the setting in the area where the system is to be used, for instance when you move from area 1 or area 2 shown in the following table or vice versa, proper reception of AM/FM broadcasts cannot be expected. In this case, change the channel space setting in accordance with your area by referring to the following table.

Area	CHANNEL SPACE frequency
1 USA, Canada and South American countries	FM : 100 kHz AM : 10 kHz
2 Other countries	FM : 50 kHz AM : 9 kHz

### Setting the CHANNEL SPACE

- Set the **POWER** key to standby (power off) mode.
- press the **STOP** key, the **▶▶** key and the **◀◀** key on main unit in this order.

Each operate step ②, switches the modes as follows.

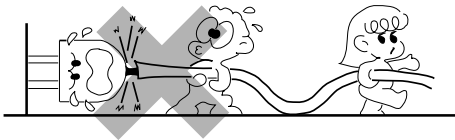
- "FM100/AM10 kHz" STEP
- "FM 50 /AM 9 kHz" STEP



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.

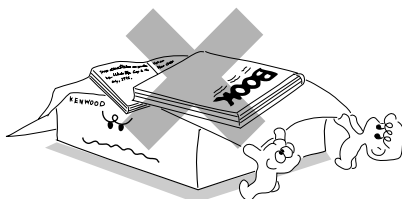


**3. CAUTION – Polarization** – This appliance may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try 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.

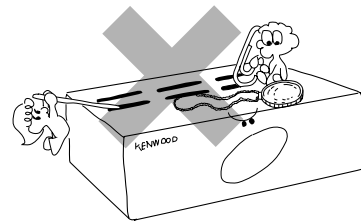


**5. Water and moisture** – The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

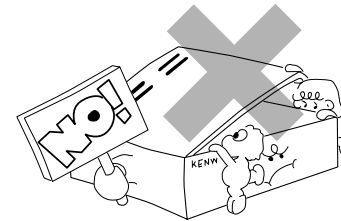
**6. Temperature** – The appliance may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).

**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.

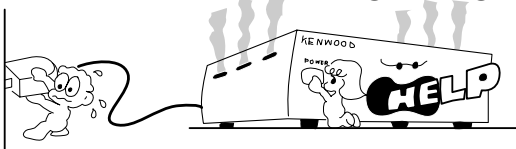
**12. Accessories** – Do not place this appliance on an unstable cart, stand, tripod, bracket, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or 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.

**POWER OFF!**

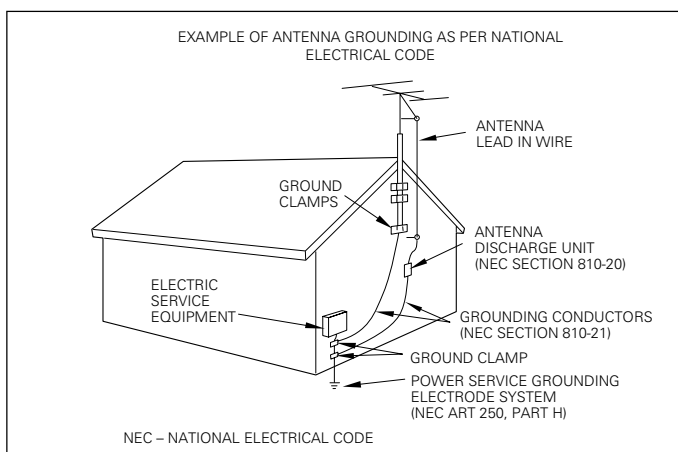


**15. Damage requiring service** – The appliance should be serviced by qualified service personnel when:

- 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.

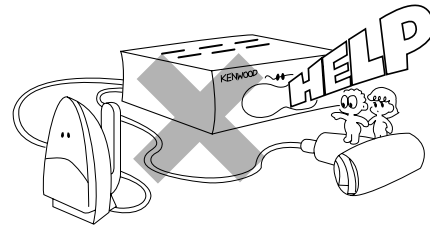
**16. Servicing** – The user should not attempt to service the appliance beyond that described in the instruction manual. All other servicing should be referred to qualified service personnel.

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



- DVD** **Higher video quality than S-VHS video and LaserDisc**
- DVD** **Higher audio quality than music CD**
- DVD** **CD** **VCD** **Graphical user interface (GUI) compatibility**
- DVD** **Versatile DVD playback features**
- DVD** **CD** **The DVR-505/DVR-7000 offers DTS decoder.**
- DVD** **CD** **VCD** **Dolby Pro Logic II decoder.**

## Reference

### Caution on condensation

Condensation (of dew) may occur inside the unit when there is a great difference in temperature between this unit and the outside.

This unit may not function properly if condensation occurs. In this case, leave the unit for a few hours with the power left ON, and restart the operation after the condensation has dried up.

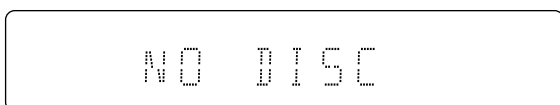
**Be specially cautious against condensation in a following circumstance:**

When this unit is carried from a place to another across a large difference in temperature, when the humidity in the room where this unit is installed increases, etc.

### Note related to transportation and movement

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

- ➊ Remove the disc from the unit.
- ➋ Press the ►/II key.



- ➌ Wait a few seconds and turn the unit OFF.

### Memory backup function

**Stored contents which are cleared in at least a week after power plug is unplugged from power outlet.**

- Amplifier section**
  - Last input selection
  - Volume control value
  - Surround setting
  - CINEMA EQUALIZER
  - B. BOOST
- Tuner section**
  - Receiving band
  - Frequency
  - Preset stations
  - Tuning mode setting
- DVD section**
  - Menu setup
- Power status**

### WARNING NOTICE:

IN MOST CASES IT IS AN INFRINGEMENT OF COPYRIGHT TO MAKE COPIES OF TAPES OR DISCS WITHOUT THE PERMISSION OF THE COPYRIGHT OWNERS. ANYONE WISHING TO COPY COMMERCIALY AVAILABLE TAPES OR DISC SHOULD CONTACT THE MECHANICAL COPYRIGHT PROTECTION SOCIETY LIMITED OR THE PERFORMING RIGHTS SOCIETY LIMITED.

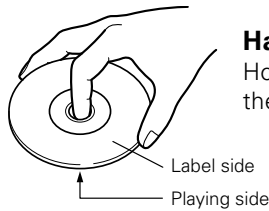
## Maintenance of the Set

When the front panel, the case, etc. becomes dirty, wipe with a soft, dry cloth. Do not use thinner, alcohol, etc., as these can cause discoloration.

## In regard to contact cleaners

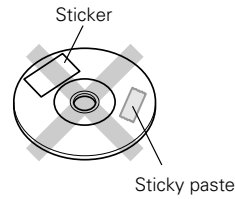
Do not use contact cleaners because it could cause a malfunction. Be specially careful not to use contact cleaners containing oil, for they may deform the plastic component.

## Disc handling precautions

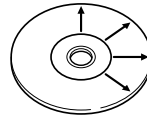


### Handling

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.

## For the U.S.A.

### CAUTION:

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

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD CORPORATION  
2967-3, ISHIKAWA-CHO,  
HACHIOJI-SHI,  
TOKYO, JAPAN

KENWOOD CORP. CERTIFIES THIS EQUIPMENT CONFORMS TO  
DHHS REGULATIONS NO. 21 CFR  
1040.10, CHAPTER 1, SUBCHAPTER J.

Location: Back Panel

CAUTION- LASER RADIATION WHEN OPEN.  
DO NOT STARE INTO BEAM.

Location: Laser Pick-up Unit Cover inside this product

## For the U.S.A.

### FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

### NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.



## 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		VCD
Logo mark on disc						
Disc size						
Played sides		One or both	One or both	One side only	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)	/		Max. 74 min.
	Audio	/		Max. 20 min., digital	Max. 74 min., digital	

## Unplayable discs

This player cannot play back any of the following discs.

- DVD-ROM discs
- DVD-R/DVD-RAM/DVD-RW discs
- VSD discs
- CDV discs (only the audio part can be reproduced.)
- CD-ROM discs (except MP3 (ISO 9660 level 1 format) disc.)
- CD-G/CD-EG/CD-EXTRA discs (only the audio can be reproduced.)
- Photo CD discs (never attempt to play them.)
- S-VCD discs

## 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.

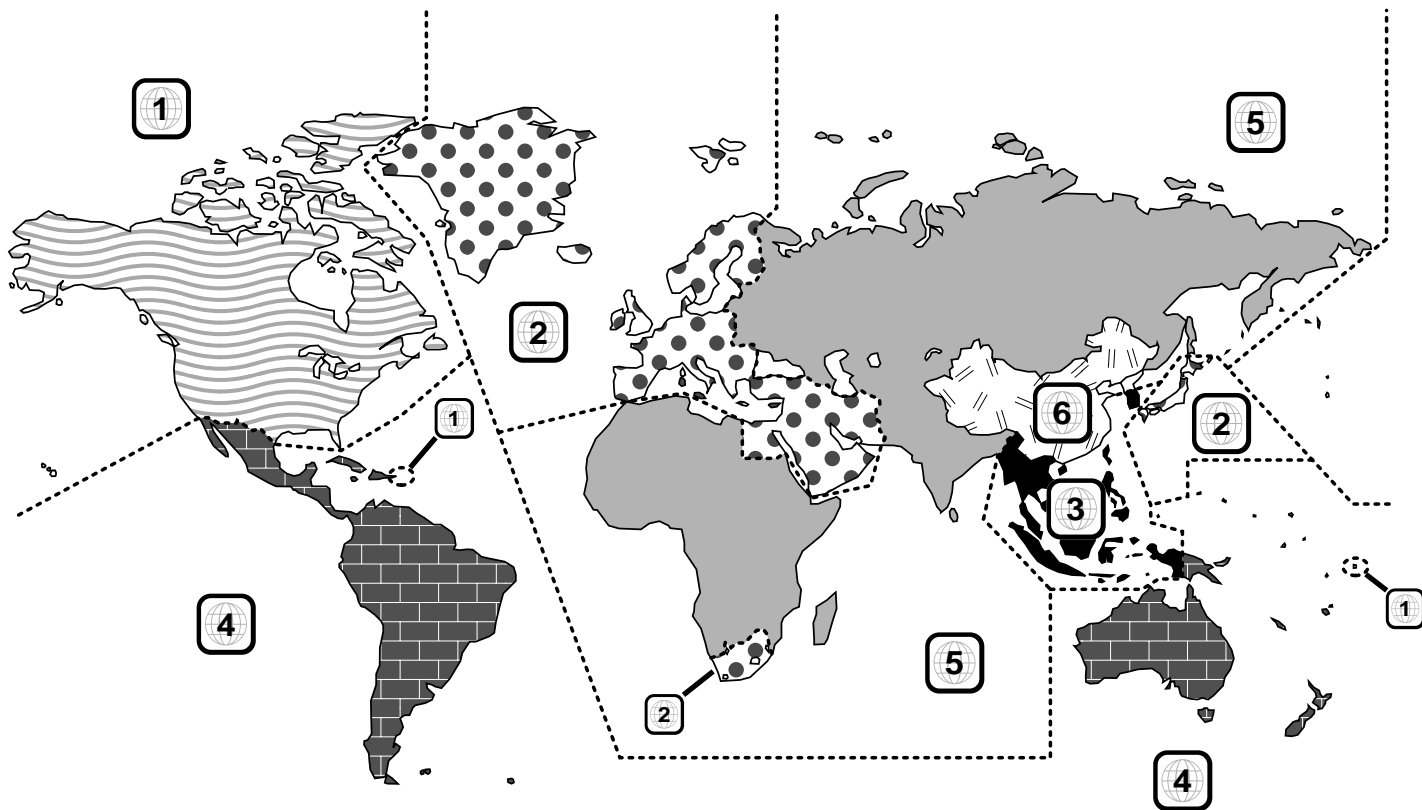
Every player of this model has a certain region code assigned to it based on the country where the player is used. When the player is used to play back DVD discs, it can only play the DVD discs carrying the region codes matching the region code of the player.

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.

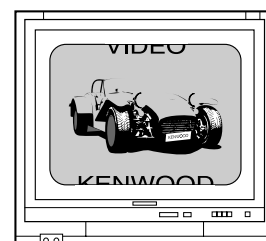
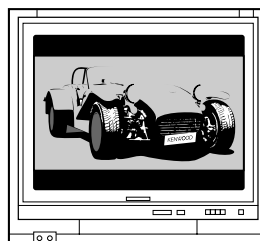
Preparations



## Examples of TV screen display of each video format

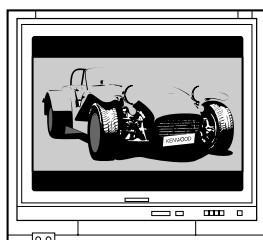
### When your TV is switchable between PAL/NTSC

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.



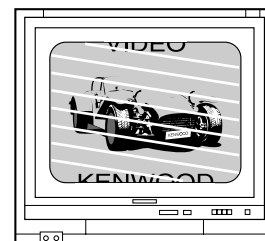
### When your TV is compatible only with the PAL format

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, U.K., Germany, Australia, New Zealand, Kuwait, Singapore, etc.

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

### 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 

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 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.

### 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



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.

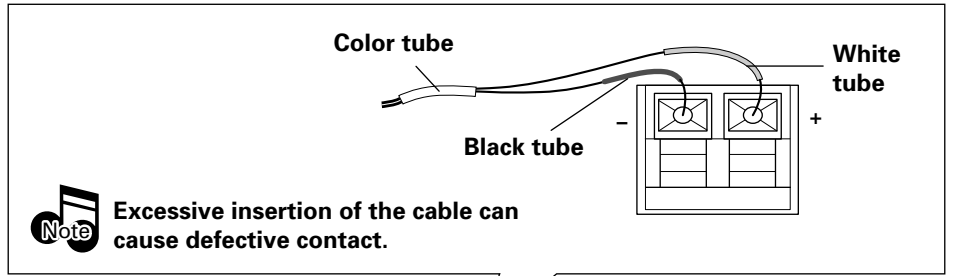
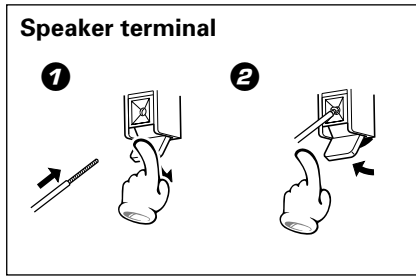
Top panel : 50 cm      Side panel : 10 cm      Back panel : 10 cm

**Malfunction of microcomputer**

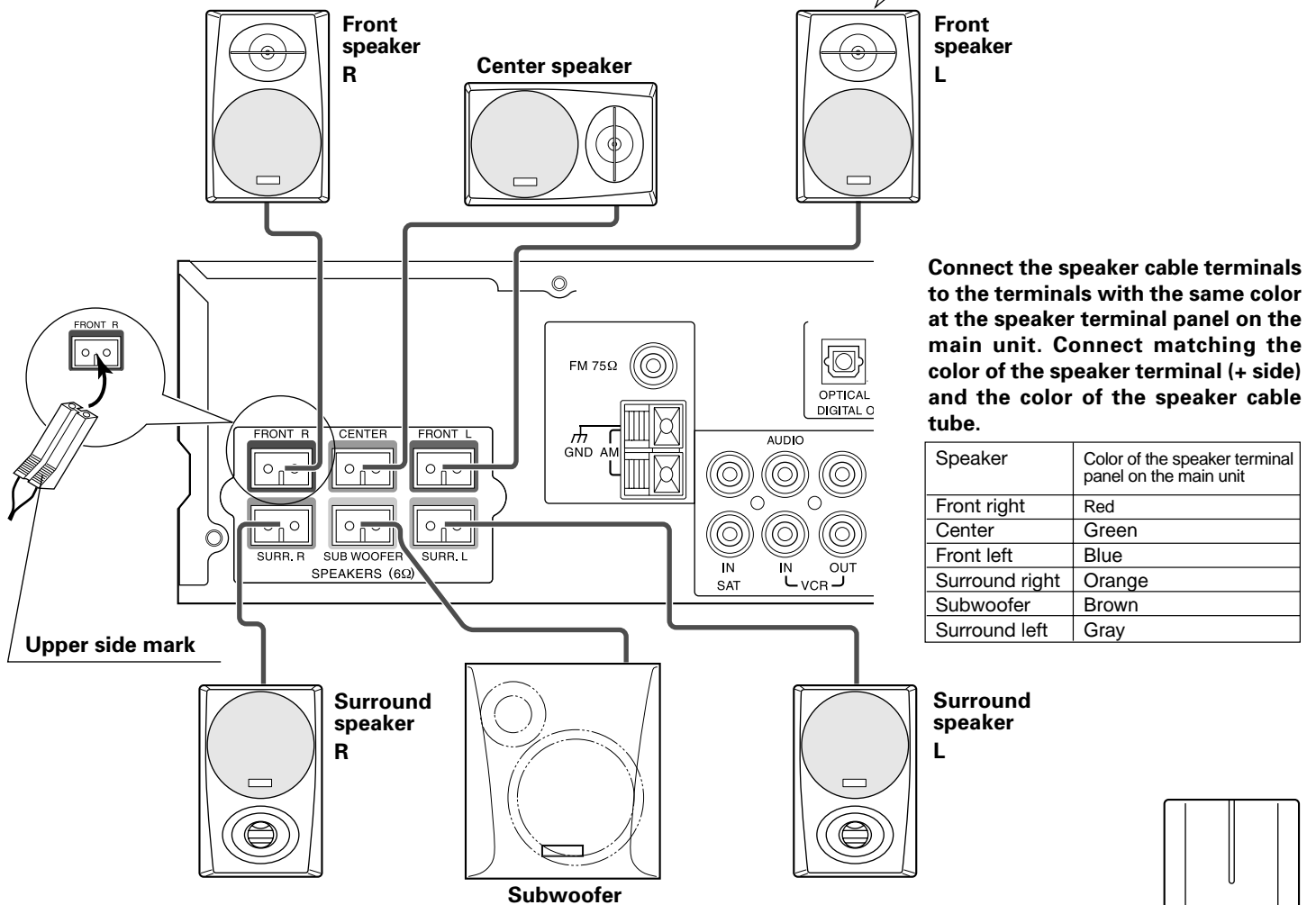
If operation is not possible or erroneous display appears even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty".

## Loudspeakers

Preparations



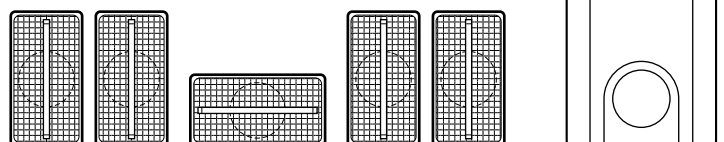
The figure shows an example for the speakers for DVR-505.



Connect the speaker cable terminals to the terminals with the same color at the speaker terminal panel on the main unit. Connect matching the color of the speaker terminal (+ side) and the color of the speaker cable tube.

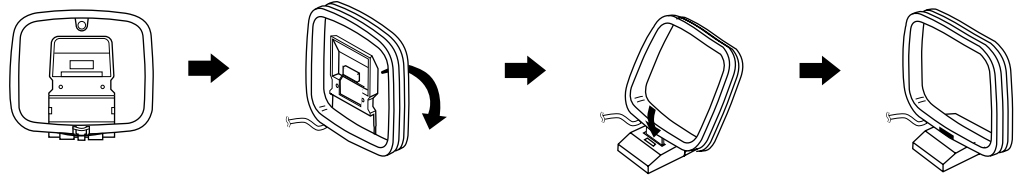
Speaker	Color of the speaker terminal panel on the main unit
Front right	Red
Center	Green
Front left	Blue
Surround right	Orange
Subwoofer	Brown
Surround left	Gray

**Speakers for DVR-7000**



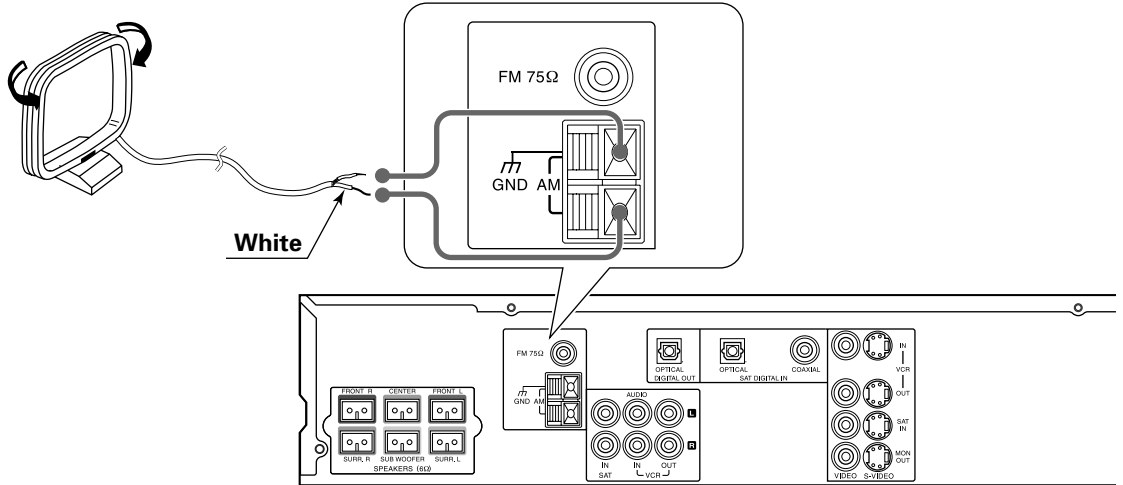
**⚠ Caution :** Read this page carefully to ensure safe operation.

## AM loop antenna



### AM loop antenna connection

The supplied antenna is for indoor use. Place it as far as possible from the main system, TV set, speaker cords and power cord, and set it to a direction which provides the best reception.



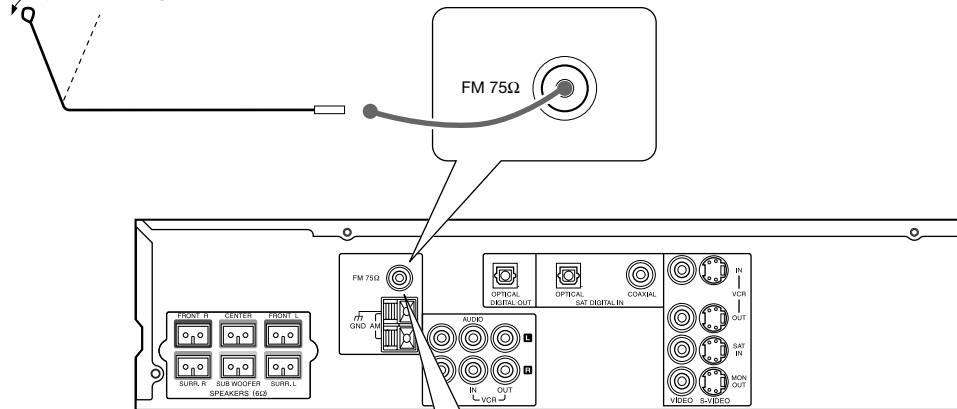
Preparations

## FM antenna

### FM indoor antenna connection

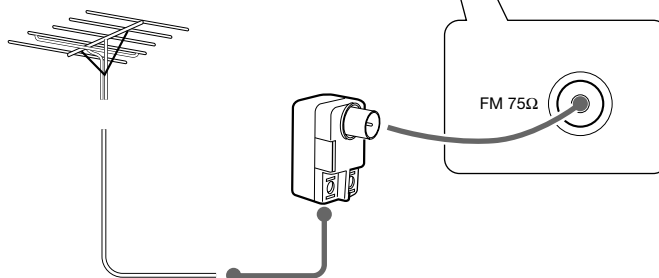
The accessory antenna is for temporary indoor use only. For stable signal reception we recommend using an outdoor antenna. Remove the indoor antenna if you connect one outdoors.

- ❶ Connect to the antenna terminal.
- ❷ Locate the position providing good reception condition.
- ❸ Fix the antenna.



### FM outdoor antenna (commercially available)

Lead the 75 Ω coaxial cable connected to the FM outdoor antenna into the room and connect it to the FM 75 Ω terminal.



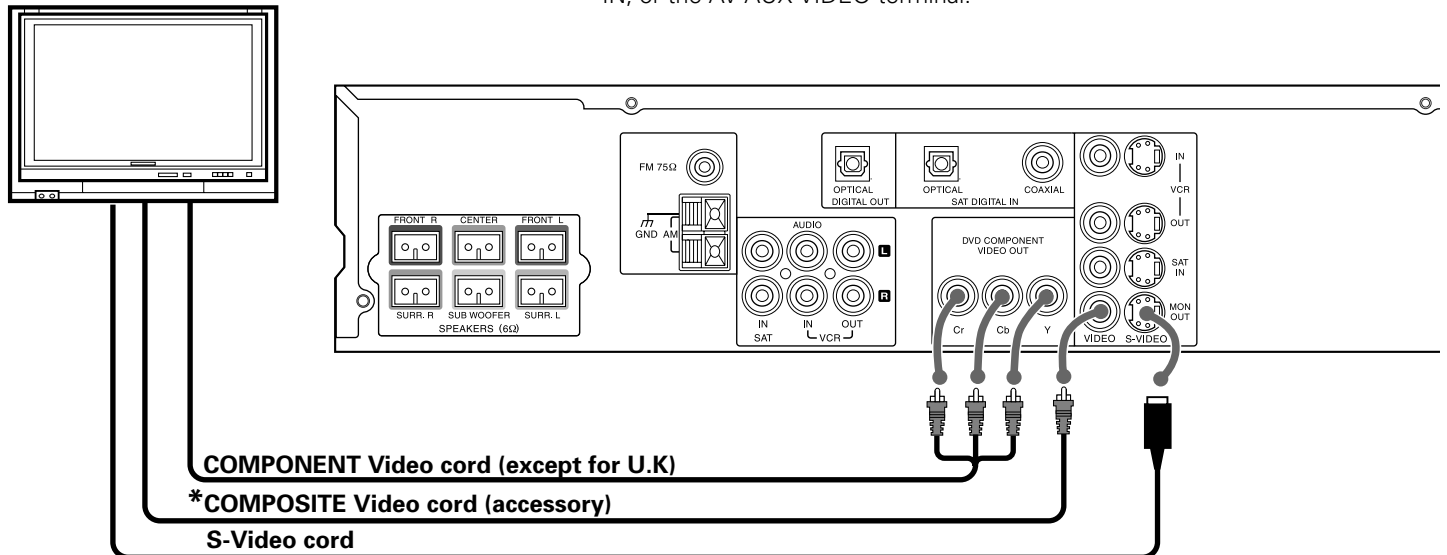
## Connecting to a TV

Depending on the input switching, the output from the MONITOR OUT terminal will be one of the following signals. Please note that a different signal type will not be put out.

**S-VIDEO terminal** : S-video signal connected to the (S-VIDEO) VCR IN, the (S-VIDEO) SAT IN, or the AV AUX S terminal.

**VIDEO terminal** : Composite video signal connected to the (VIDEO) VCR IN, the (VIDEO) SAT IN, or the AV AUX VIDEO terminal.

TV



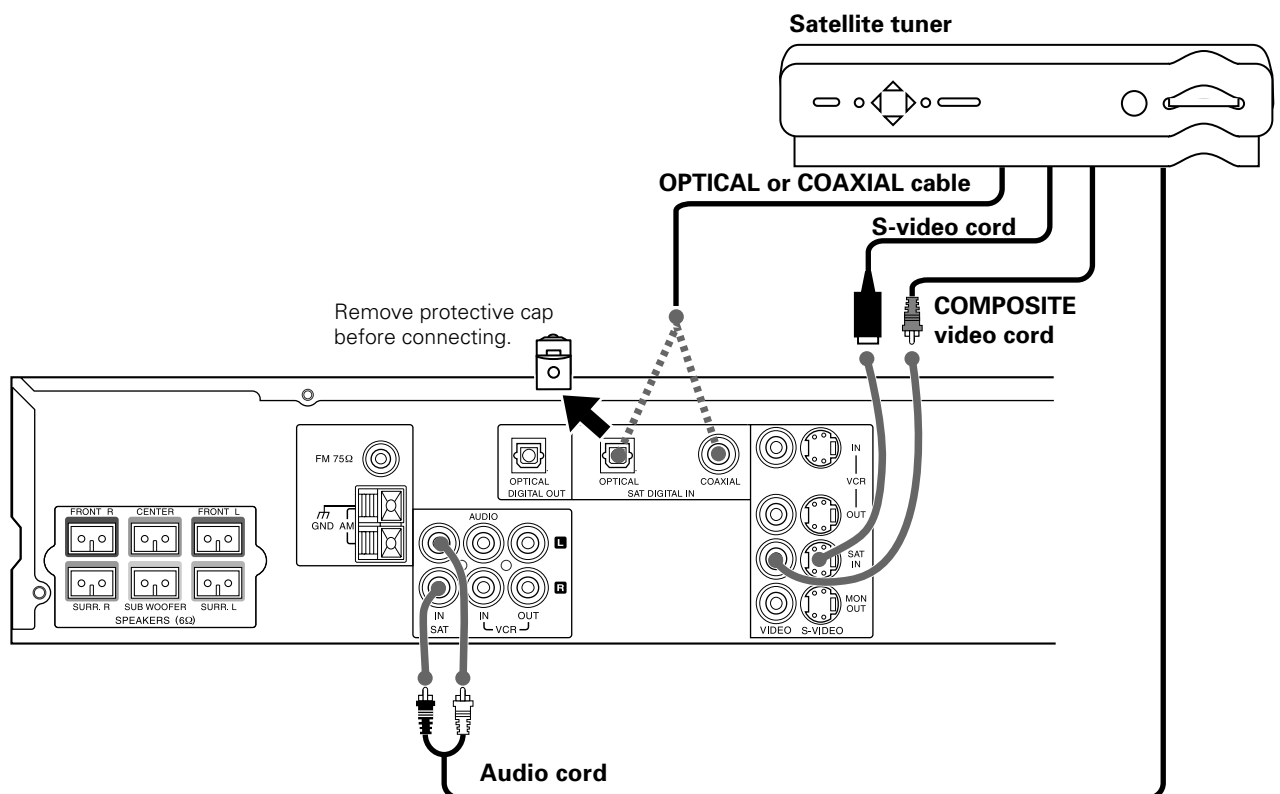
### COMPONENT connection corresponds only to some areas.

When the TV has a COMPONENT terminal, the DVD image will be played back with higher picture quality in case of COMPONENT connection. Connect the S-video or the COMPOSITE video cable also in this case.

### \* For U.K. only

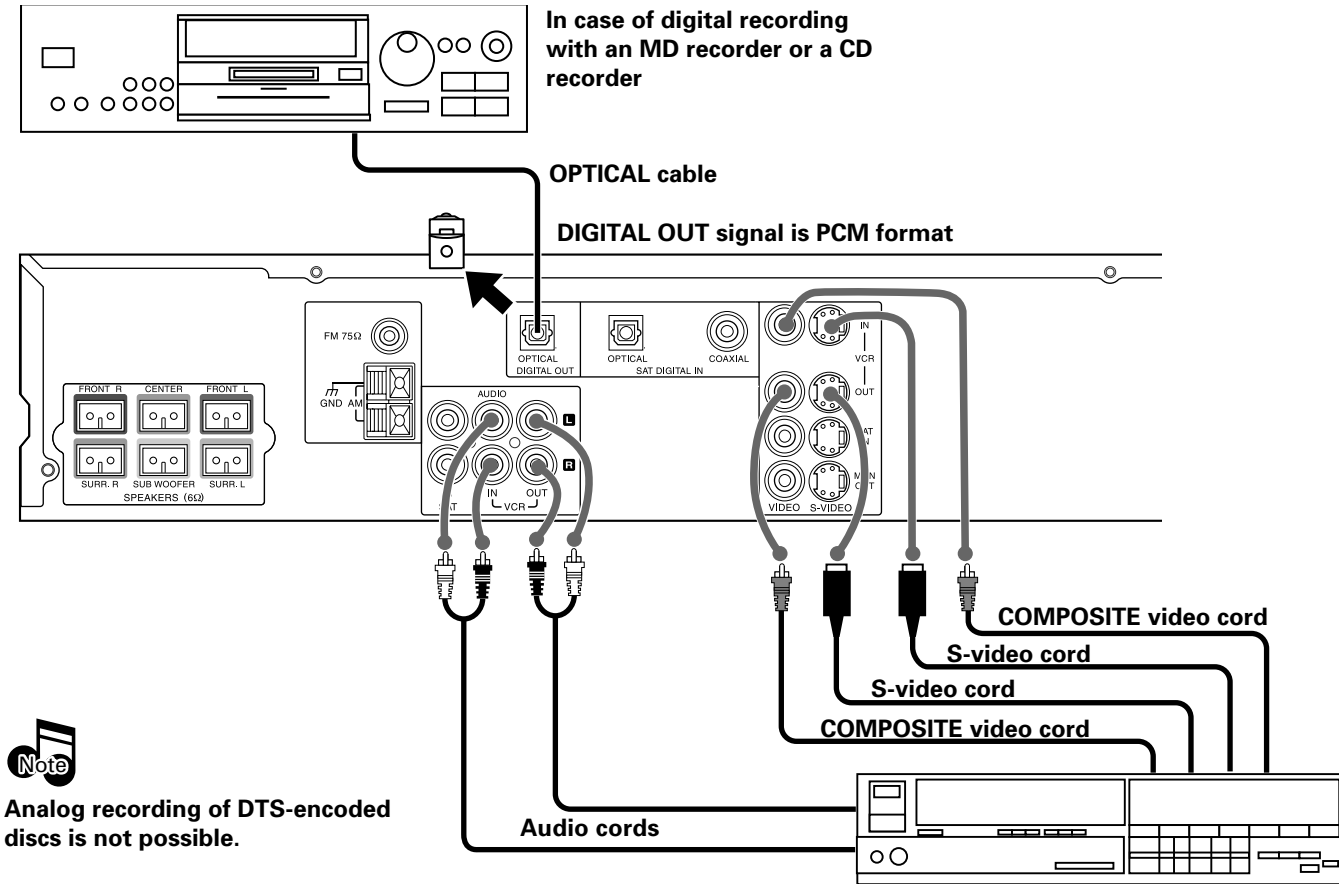
If your TV set has a SCART terminal, connect the accessory SCART plug to the SCART terminal of the TV and connect the COMPOSITE video cord.

## Connecting to a Satellite Tuner



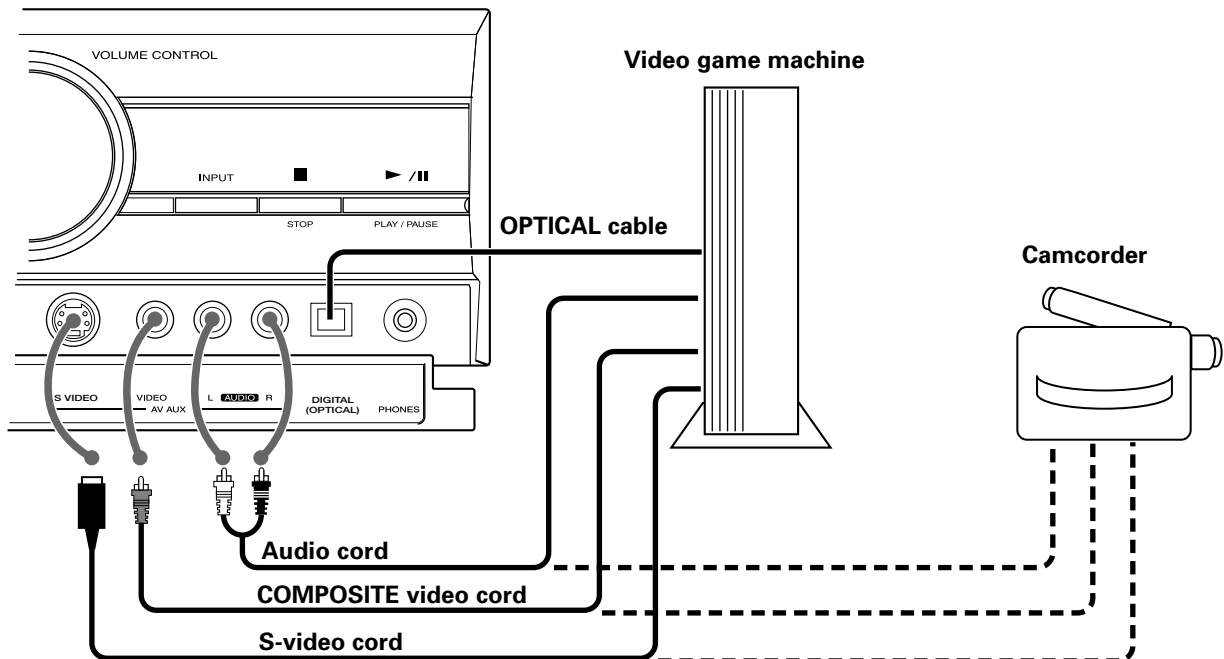
Connect the OPTICAL or the COAXIAL cable, depending on the digital output of the satellite tuner.

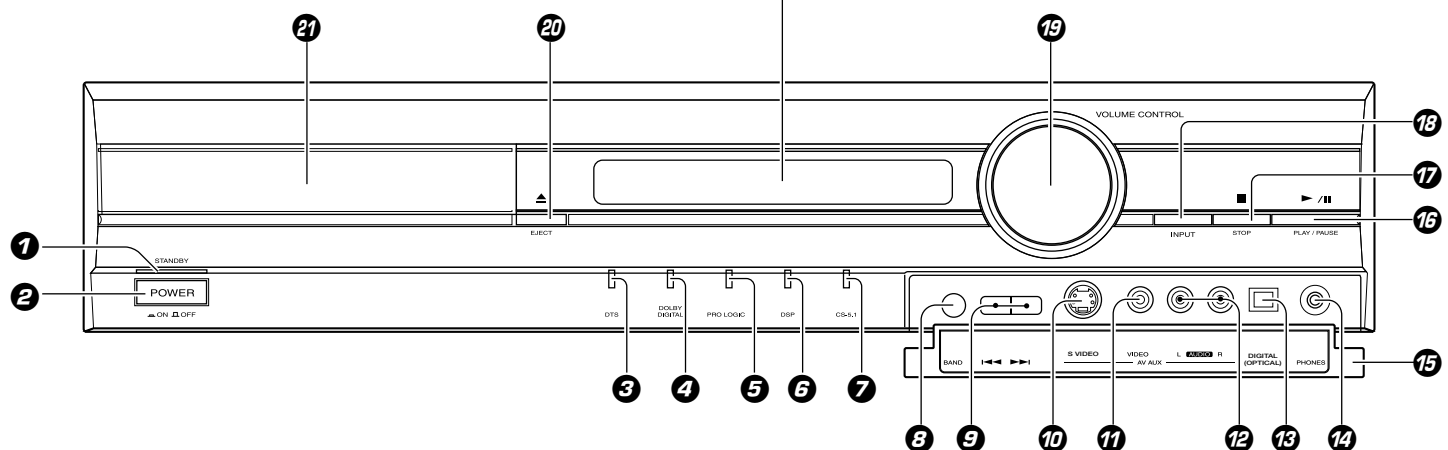
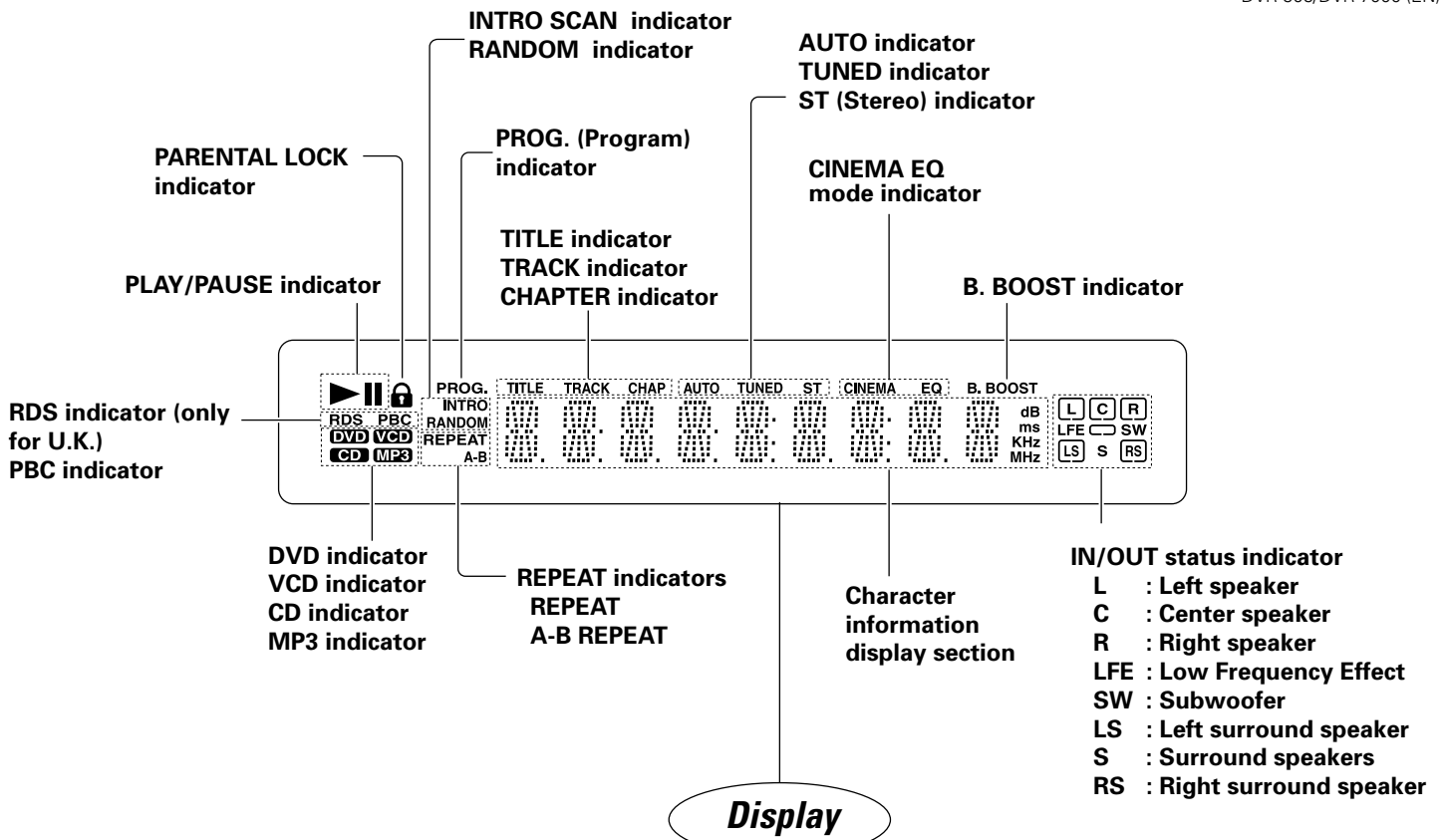
## Connecting to Audio video equipments



Preparations

## Connecting a Camcorder or Video game machine



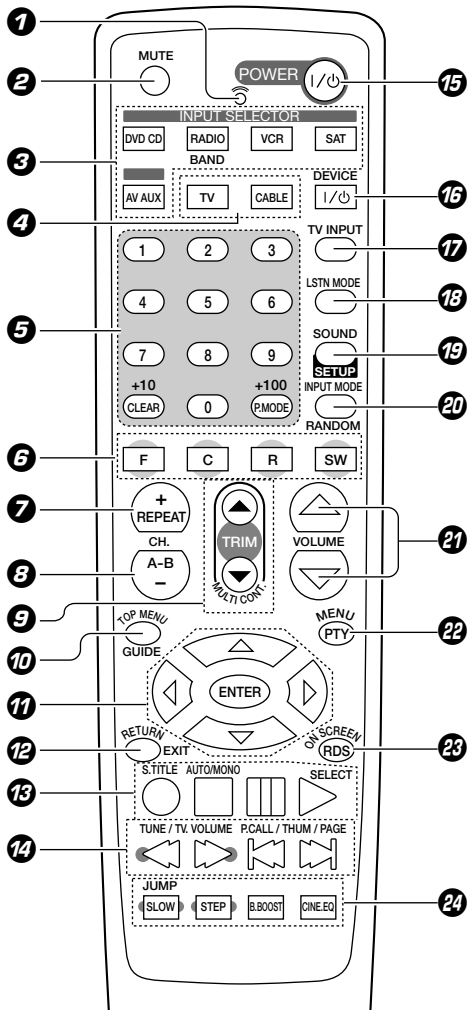


- |                                  |      |                                     |      |
|----------------------------------|------|-------------------------------------|------|
| 1 <b>STANDBY</b> indicator       | → 16 | 17 <b>AV AUX VIDEO</b> jack         | → 15 |
| 2 <b>POWER</b> switch            | → 18 | 18 <b>AV AUX AUDIO</b> jacks        | → 15 |
| <b>LISTEN MODE indicators</b>    |      |                                     |      |
| 3 <b>DTS</b> indicator           | → 49 | 19 <b>AV AUX OPTICAL</b> input jack | → 15 |
| 4 <b>DOLBY DIGITAL</b> indicator | → 49 | 20 <b>PHONES</b> jack               | → 18 |
| 5 <b>PRO LOGIC</b> indicator     | → 49 | 15 <b>Door</b>                      | → 18 |
| 6 <b>DSP</b> indicator           | → 49 | 16 <b>▶/   (PLAY/PAUSE)</b> key     | → 25 |
| 7 <b>CS-5.1</b> indicator        | → 49 | 17 <b>■ (STOP)</b> key              | → 25 |
| 8 <b>BAND</b> key                | → 21 | 18 <b>INPUT</b> key                 | → 18 |
| 9 <b>◀◀, ▶▶ (Skip)</b> keys      | → 21 | 19 <b>VOLUME CONTROL</b> knob       | → 18 |
| 10 <b>AV AUX S VIDEO</b> jack    | → 15 | 20 <b>▲ (EJECT)</b> key             | → 25 |
|                                  |      | 21 <b>Disc tray</b>                 | → 25 |

### STANDBY indicator

The **STANDBY** indicator lights when the power cable is plugged into an outlet and the **POWER** switch is set to **ON**. When the **POWER** key on the remote control unit is pressed in **STANDBY** status, the **STANDBY** indicator goes out and the main unit reaches operation status. When the **POWER** switch is set to **OFF** in operation status, the unit will return to operation status when the **POWER** switch is set to **ON** again. When the **POWER** switch is set to **OFF** in **STANDBY** status, the unit will return to **STANDBY** status when the **POWER** switch is set to **ON** again.





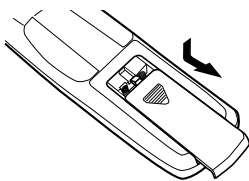
The keys on the remote control unit with the same names as on the main unit have the same function as the keys on the main unit.

- 1 LED indicator - 53
- 2 MUTE key - 18
- 3 INPUT SELECTOR keys - 18
  - DVD CD key - 21 - 25
  - RADIO/BAND key - 25
  - VCR key - 25
  - SAT (Satellite) key - 25
  - AV AUX key - 53
- 4 Device keys - 53
  - TV key - 26 - 60
  - CABLE key - 27
- 5 Numeric keys (0 - 9, +10, +100) - 26 - 60
  - CLEAR key - 27
  - P.MODE key - 34
- 6 Speaker select keys - 52
  - F (Front) key - 60
  - C (Center) key - 60
  - R (Rear/Surround) key - 32
  - SW (Subwoofer) key - 32
- 7 CH.(Channel) + key - 60
  - /REPEAT key - 32
- 8 CH.(Channel) - key - 60
  - /A-B Repeat key - 32
- 9 TRIM / MULTI CONT.
  - Up (▲), Down (▼) keys - 51
- 10 TOP MENU key - 37
  - /GUIDE key - 60
- 11 Cursor Up (▲), Down (▼), Left (◀) and Right (▶) keys - 34
- ENTER key - 28
- 12 RETURN key - 42
  - /EXIT key - 60
- 13 ● (record) /S.TITLE (SUB TITLE) key - 29
- (stop) / AUTO/MONO key - 21 - 25
- ⏸ (pause) key - 25
- ▶ (play) key - 25
- 14 ◀◀ / ▶▶ key (Search keys)
  - TUNE/ keys - 26
  - /TV. VOLUME keys - 60
  - ◀◀ key/▶▶ key (Skip keys) - 26
  - P.CALL keys - 60
  - /THUM/PAGE keys - 60
- 15 POWER key - 17
- 16 DEVICE Power key - 60
- 17 TV INPUT key - 60
- 18 LSTN MODE (LISTEN MODE) key - 20 - 49
- 19 SOUND / SETUP key - 19 - 50
- 20 INPUT MODE / RANDOM key - 33
- 21 VOLUME keys - 18
- 22 PTY (for U.K. only) / MENU key - 24 - 42
- 23 RDS (for U.K. only) / ON SCREEN key - 23 - 27
- 24 SLOW / JUMP key - 26
- STEP key - 26
- B.BOOST key - 19
- CINE.EQ key - 20

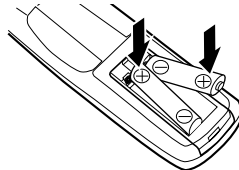
Model : RC-R0722 (for U.K.)  
 RC-R0721 (for other countries)  
 Infrared ray system

### Loading batteries

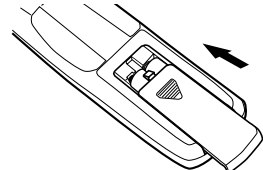
1 Remove the cover.



2 Insert batteries.



3 Close the cover.

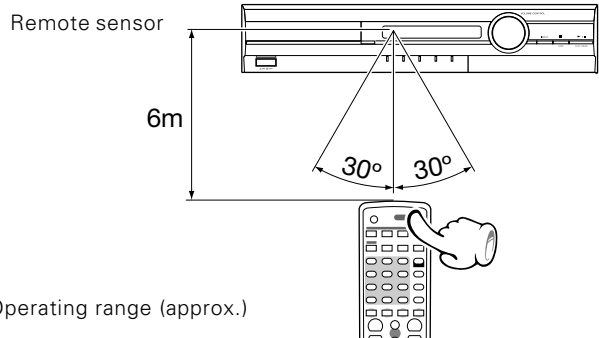


● Insert two LR03 ("AAA"-size) batteries following the polarity indications.

### Operation

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

● 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.

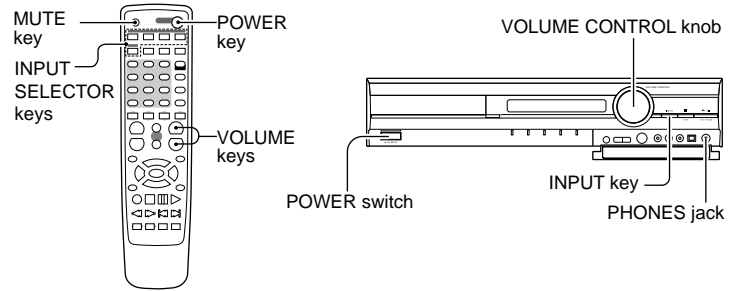


- 1. The provided batteries are intended for use in operation checking, and their service life may be short.
- 2. When the remote controllable distance becomes short, replace both of the batteries with new ones.
- 3. If direct sunlight or the light of a high-frequency fluorescent lamp (inverter type,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

## Preparation

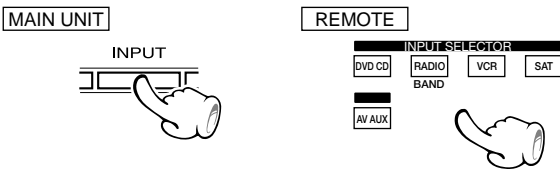


- set the **POWER ON/OFF** switch to the ON (I) position.



## Basic use method

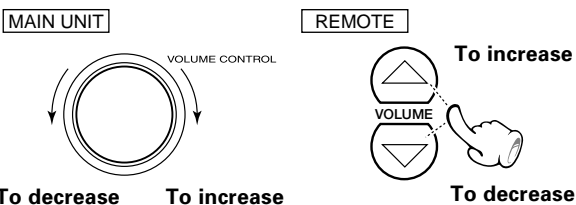
### 1 Selecting the desired input



Switching is done as follows when the INPUT key of the main unit is pressed.

- ① Tuner (frequency display)
- ② VCR (VCR/ANL)
- ③ SAT (SAT/ANL, SAT/COAX or SAT/OPTI)
- ④ AV AUX (AUX/ANL or AUX/OPTI)
- ⑤ DVD/CD

### 2 Volume adjustment



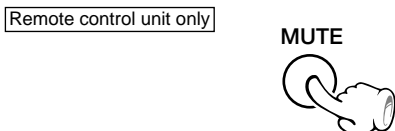
- When one of the keys on the left is pressed while STANDBY mode, the power will be switched on automatically and the input will be selected.
- The power will be switched on and the respective operation will be performed also when the **EJECT** key, the **PLAY/PAUSE** key or the **BAND** key on the main unit is pressed during STANDBY mode.
- When a disc is set in the disc tray and the **DVD CD** key is pressed, disc playback will start automatically.

**In case of operation with the remote control unit, first select the input or device to be operated with the INPUT SELECTOR keys etc., and then perform the desired operation. The present mode of the remote control unit may not coincide with the equipment to be operated.**

**Note** The input mode can be switched with SAT and AV AUX. Refer to "Changing the INPUT MODE" → 52

Normally "MAX" is displayed when the volume settings set to the maximum value. Depending on the speaker setting value or when CINE.EQ has been set to "ON", (→ 20), "MAX" will not be displayed.

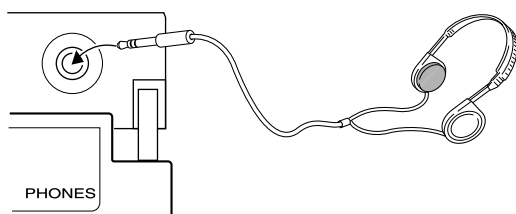
## Muting the sound temporarily



- Press **MUTE** key.
- Press again to resume the original volume.
- The sound muting is also cancelled when the volume is controlled.

## Listening through headphone

Insert the headphone plug into the PHONES jack.



This unit offers various surround modes, but it switches automatically to stereo mode when headphones are connected.

To open the door, pull the lower part on the right side of the main unit.

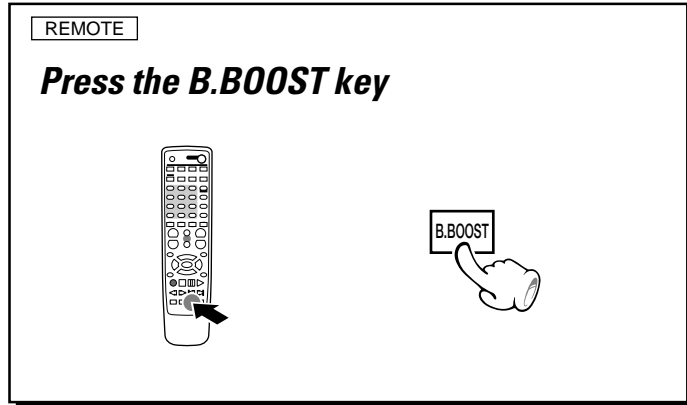
- **The sounds from all speakers are cut off.**

# Changing the Tone

This unit is equipped with various preset equalizers, so that various sounds can be enjoyed. In addition, it has an B.BOOST function for one-touch bass correction.

## B.BOOST

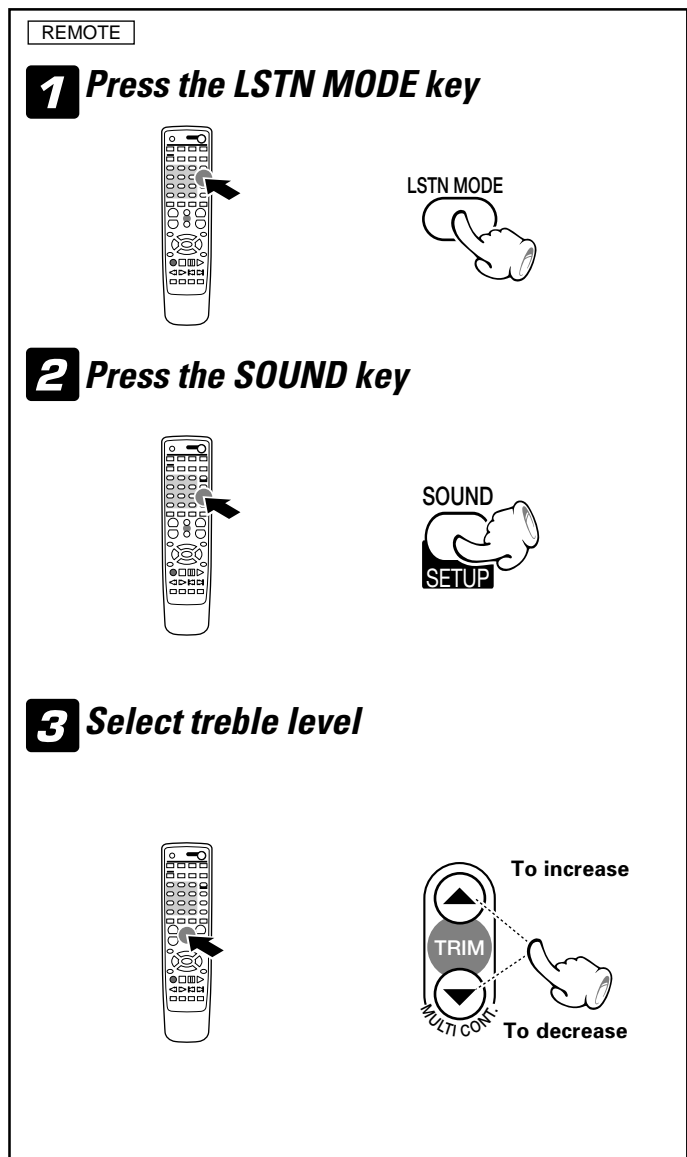
When the B.BOOST function is switched on, richer bass tones can be reproduced.



Each press switches the B.BOOST on or off.

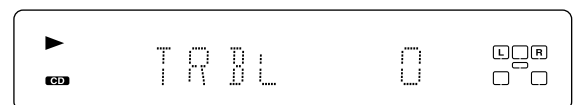
- ① B.BOOST lit
- ② B.BOOST goes off

## TREBLE CONTROL (Normal music CD, VCD and tuner only)



Set to STEREO mode. (The TREBLE CONTROL can be adjusted only STEREO mode)

TRBL is displayed.



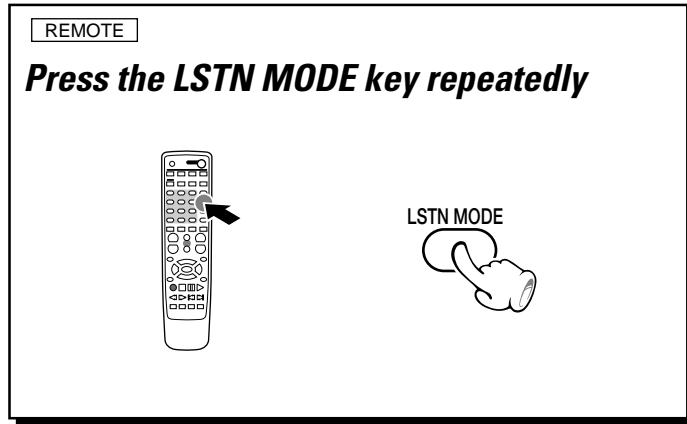
Operation is not possible with DOLBY DIGITAL and DTS source.

Each press switch the TRBL level

- The treble level can be adjusted between +10 and -10.

## Selecting the DSP mode

Five different sounds are preset in DSP mode. Please select the type you like.  
DSP mode can be selected only at the time of a PCM source (normal music CD, MP3 file, etc.).



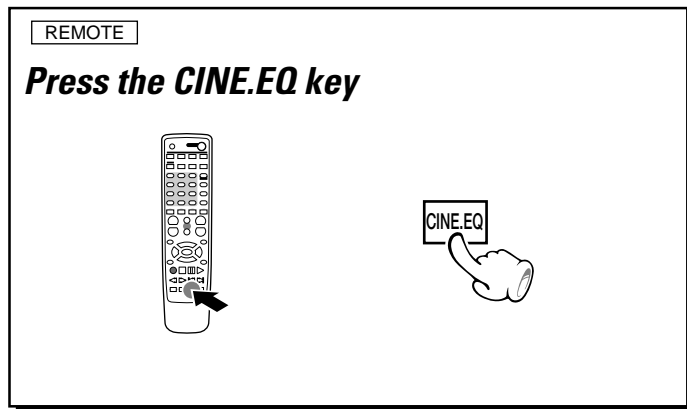
Each press switches the mode  
(At the time of music CD)

- ① DOLBY PL II MOVIE
  - ② DOLBY PL II MUSIC
  - ③ DOLBY PRO LOGIC
  - ④ CIRCLE SURROUND
  - ⑤ ARENA
  - ⑥ JAZZ CLUB
  - ⑦ THEATER
  - ⑧ STADIUM
  - ⑨ DISCO
  - ⑩ STEREO
- DSP modes



## Selecting the CINE.EQ (CINEMA EQUALIZER).

This function provides for better playback of movies etc.

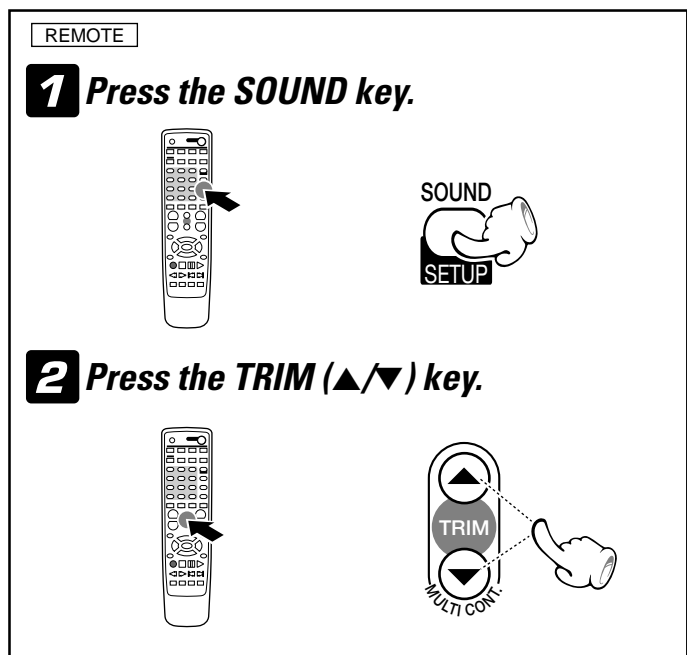


Each press switches the mode

- ① CINE.EQ
- ② OFF

## Selecting the NIGHT (MID NIGHT) mode. (Dolby Digital only)

Any time you don't want to experience the loud and soft volume extremes of recorded sound (for example, late at night), use NIGHT function to reduce volume extremes.

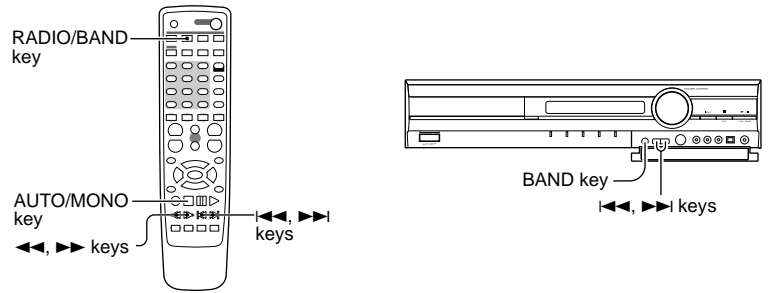


Displayed NIGHT OFF or NIGHT ON.

Each press switches the mode

- ① NIGHT ON
- ② NIGHT OFF

It is also possible to receive them by one-touch operations by storing up to 30 stations in the preset memory. (see page 22)



## 1 Select the TUNER input

MAIN UNIT

BAND

REMOTE

RADIO  
BAND

## 2 Select the broadcast band

MAIN UNIT

BAND

REMOTE

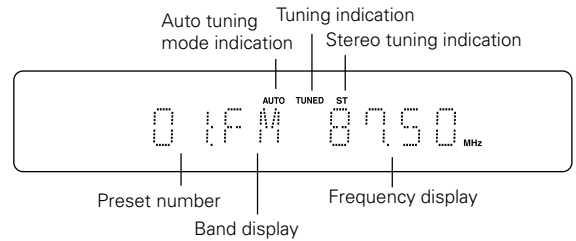
RADIO  
BAND

## 3 Select a tuning mode

REMOTE

AUTO/MONO

When the **BAND** key is pressed, this unit will be switched on automatically.



Each press changes the band.

- ① FM
- ② AM

Each press switches the mode

- ① auto tuning mode
- ② manual tuning mode



When the **TUNE** keys are pressed in AUTO mode, a station will be tuned in automatically and tuning will stop. Stereo reception will be made automatically when a stereo broadcast with sufficient signal strength is received.

## 4 Select a station

### P.CALL (preset call)

MAIN UNIT

REMOTE

P.CALL / THUM / PAGE

Press the  $\lll, \ggg$  keys to select a preset station.

### AUTO (auto tuning)

REMOTE

TUNE / TV VOLUME

Press the TUNE key to receive the next tuned station automatically

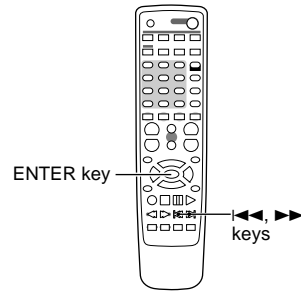
### MANUAL (manual tuning)

REMOTE

TUNE / TV VOLUME

Each time a key is pressed, the frequency is changed by one step. When a key is pressed continuously, the frequency changes continuously. Use the manual tuning mode when reception is noisy due to weak reception. (In the manual mode, stereo broadcasts are received in monaural.)

You can store up to 30 stations in the memory and recall with a single touch of the key.



## Storing the broadcast stations (one-by-one presetting)

**1** Select a station (auto tuning or manual tuning) → 

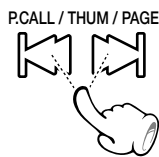
**2** Press the ENTER key

REMOTE



**3** Select the desired preset number

REMOTE



**4** Press the ENTER key

REMOTE

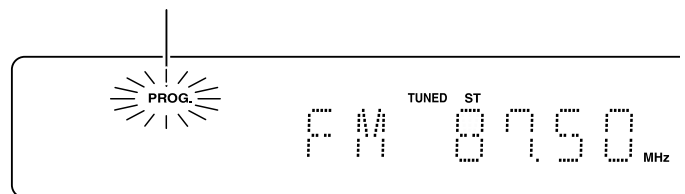


Repeat steps **1** to **4** to preset other stations.

Presetting can be done with mixing of FM and AM stations.  
(Example)

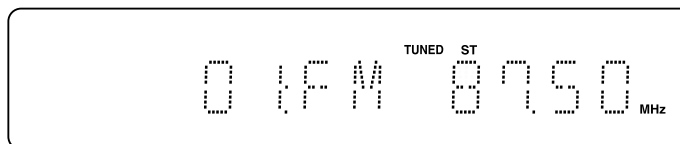
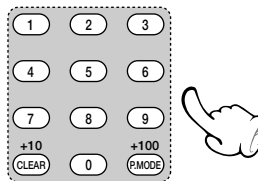
01: FM 90.00  
02: AM 531  
03: FM 88.00

Blinks

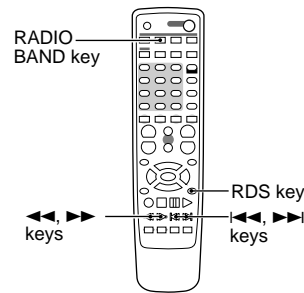


Please perform the next operation while the indicator is blinking.

In case of input with the number keys, a preset number will be decided simply by input of a 2-digit number without pressing the ENTER key.



RDS is a system which transmits useful information (digital data) for FM broadcasts together with the broadcast signal. Tuners and receivers designed for RDS reception can extract the information from the broadcast signal for use with various functions such as automatic display of the station name.



## Using RDS function ( for U.K. only)

### Functions made possible with RDS

**PTY (Program Type Identification) Search :**

The tuner automatically searches for a station which is currently broadcasting a specified program type (genre).

**PS (Program Service Name) Display :**

When an RDS broadcast is received, the station name is automatically displayed.

**RT (Radio text) :**

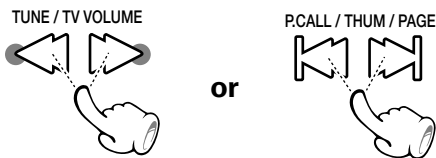
Displays the radio text data transmitted by some RDS stations when you select the **RT** mode.

**CT (Clock Time) :**

Decodes the real time clock from the FM frequency.

### Using the RDS Display function

**1 Select the FM broadcast station**

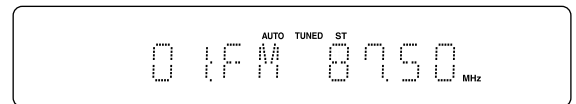


**2 Press the RDS key**



Each press switches the display mode as follows.

- ① PS NAME display
- ② PTY display
- ③ RT display
- ④ CT display
- ⑤ Current FM frequency display

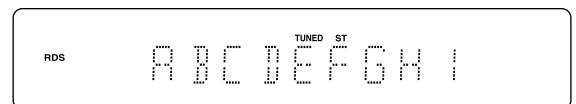


**PS NAME**

- If the PS information is being received, the PS name (**BBC**, **AFO**, **NDR**, etc.) is shown on the display.
- If the PS information is not received, the original FM frequency is shown.
- Even though no **RDS key** is pressed, the reception of PS information ensures the PS name is displayed.

**RT display**

- Text data accompanying the RDS broadcast scrolls across the display (64 characters can be displayed).



← Scrolled display

- If the RT information is not received, the "**NO RT**" is shown on the display.

**CT display**

- If the CT information will take up to 2 minutes to be decoded therefore the clock is not displayed immediately.
- If the CT information is not received, the "**NO CT**" is shown on the display.
- The CT clock does not update the system clock.

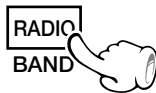
## PTY function

The PTY information is composed of an identification symbol, which helps the FM radio to recognize the program type of each FM station.

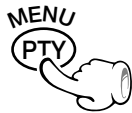
The 29 PTY modes are shown in the display by pressing the PTY key.

## Using the PTY search function

### 1 Select the FM band

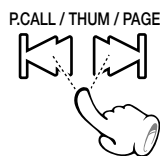


### 2 Press the PTY key

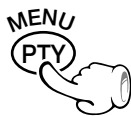


- The PTY MODE (POP M, ROCK M etc.) appears on the display.

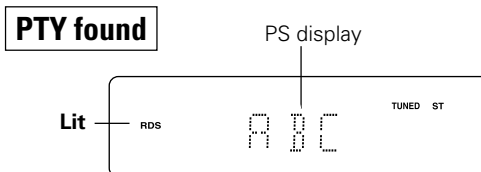
### 3 Press the P.CALL (|<<</>>>|) keys to select the desired program type.



### 4 When the program type is selected, press the PTY key.

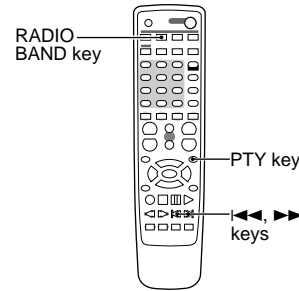


- Auto-search the station sequentially
- Press again during search to cancel.



#### PTY not found

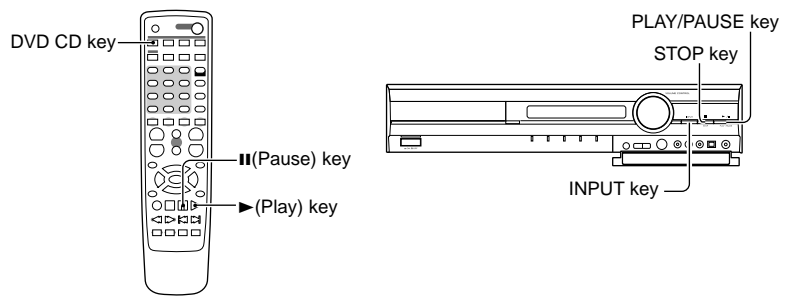
After display of NO PTY, return is made to the normal display.



## RDS Program types

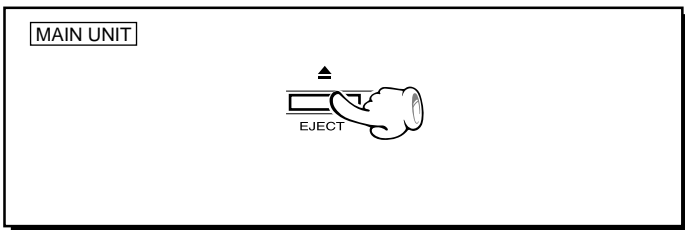
Program Type Name	Receiver Display
News	NEWS
Current Affairs	AFFAIRS
Information	INFO
Sport	SPORT
Education	EDUCATE
Drama	DRAMA
Culture	CULTURE
Science	SCIENCE
Varied	VARIED
Pop Music	POP M
Rock Music	ROCK M
Easy Listening Music	EASY M
Light Classical Music	LIGHT M
Serious Classical Music	CLASSICS
Other Music	OTHER M
Weather	WEATHER
Finance	FINANCE
Children's programs	CHILDREN
Social affairs	SOCIAL
Religion	RELIGION
Phone in	PHONE IN
Travel	TRAVEL
Leisure	LEISURE
Jazz Music	JAZZ
Country Music	COUNTRY
National Music	NATION M
Oldies Music	OLDIES
Folk Music	FOLK M
Documentary	DOCUMENT



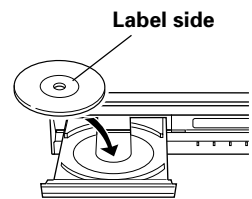


## Basic play

### 1 Load a disc

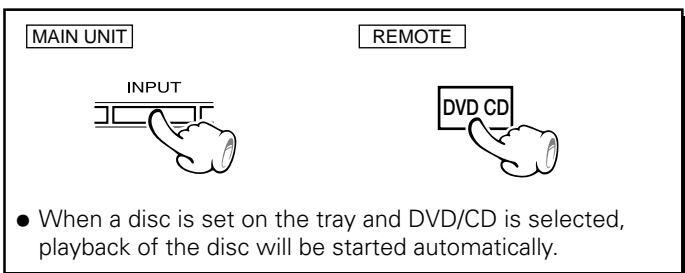


- 1 Open the tray.
- 2 Place a disc.
- 3 Close the tray.



- When the **PLAY/PAUSE** key on the main unit is pressed instead of the **EJECT** key in step 3, the tray will close and playback will start automatically.

### 2 Select the DVD CD



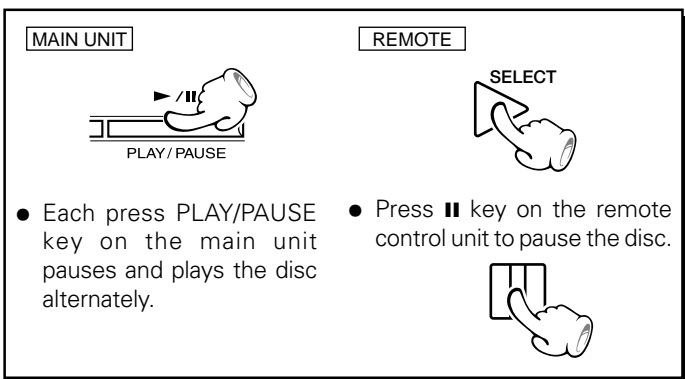
#### When a Disc Menu appears on the screen

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.

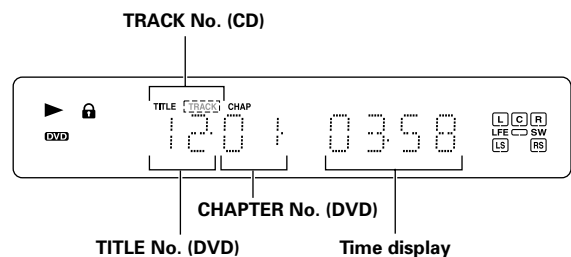
**When a menu screen is recorded on the disc, the menu screen will be displayed when the TOP MENU key is pressed. At the menu screen, the menu can be selected by pressing the Cursor keys.**



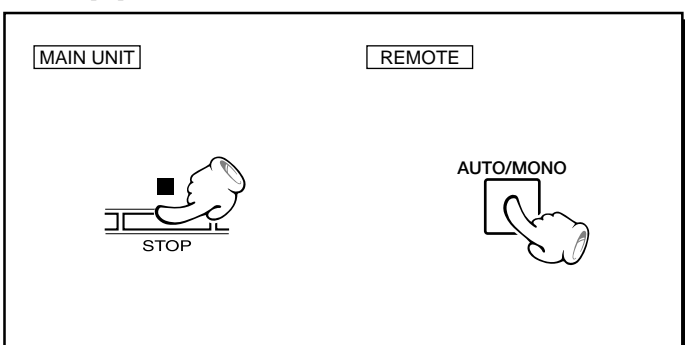
### 3 Start playback



- When the **PLAY/PAUSE** key on the main unit is pressed while an input other than disc is selected, the unit will be switched to DVD/CD and playback will start.



### To stop playback



#### RESUME playback

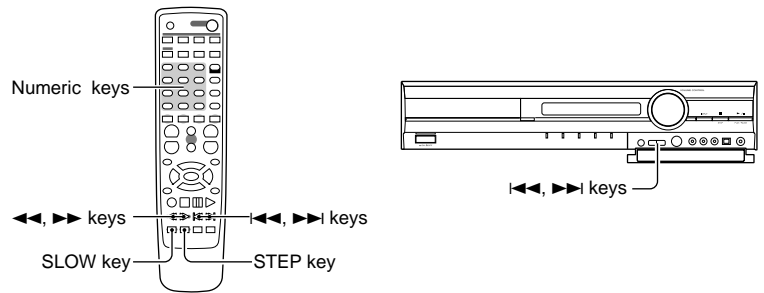
When the **STOP** key has been pressed once during playback to stop the playback, and then playback is started again, play will start from the point where the playback had been stopped. This is called the **RESUME** function. When the **STOP** key is pressed again during stop, the **RESUME** function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



### DVD CD VCD Skipping chapters or tracks

**MAIN UNIT**

To skip backward      To skip forward

**REMOTE**

To skip backward      To skip forward

- 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.

### DVD CD VCD Searching

**REMOTE**

To search backward

**TUNE / TV VOLUME**

To search forward

- During playback, press the I<< or I>> key
- Each press switches the searching speed.
  - 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 DVD playback only)
- Press the **PLAY** key at any time to resume normal playback.
- Audio is not output during F.SEARCH or R.SEARCH playback.**

### CD Playback from desired track

**REMOTE**

- Select the desired track No.
- Press the numeric keys as shown below (Example)  
To select track No. 23 : **2 3**
- When a number exceeding the largest track No. on the CD being played is specified, a question mark "Tr ?" will be displayed.

### DVD VCD STEP (freeze frame and frame advance)

**REMOTE**

STEP

**TUNE / TV VOLUME**

- Each time you press the I<<, I>> keys, the picture advances one frame.
- At the time of VCD playback, backward STEP is not possible.
- Press the **PLAY** key to resume normal playback.

### DVD VCD Slow motion playback

**REMOTE**



JUMP SLOW

**TUNE / TV VOLUME**

- During playback, press the **SLOW** keys, then press the I<<, I>> keys.
- Each press I<<, I>> keys switches the motion speed.
  - (At the time of DVD playback)**
    - 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)
  - (At the time of VCD playback)**
    - ① F.SLOW 1/8 (R.SLOW is not possible)
    - ② F.SLOW 1/4 (R.SLOW is not possible)
    - ③ F.SLOW 1/2 (R.SLOW is not possible)
- Press the **PLAY** key to resume normal playback.

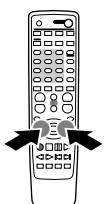
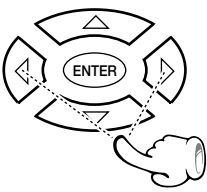
The on-screen Banner Display contains many playback features. To see the Banner Display, press ON SCREEN key on the remote while a disc is playing. Use the Cursor (Up/Down/Left/Right) keys on the remote to move through the different features in the Banner Display. Each feature is illustrated with an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

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

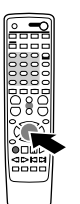




**Note** RDS display and function are provided only in some areas.

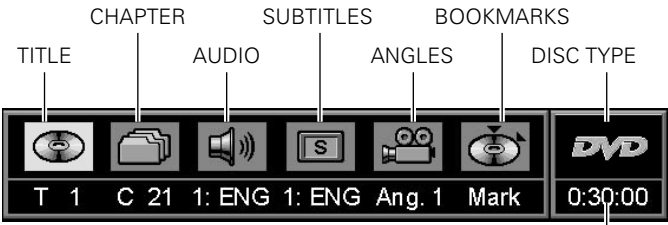
**2** Press the Cursor left/right (</>) keys to highlight a banner display icon.

**3** Press the ENTER key.

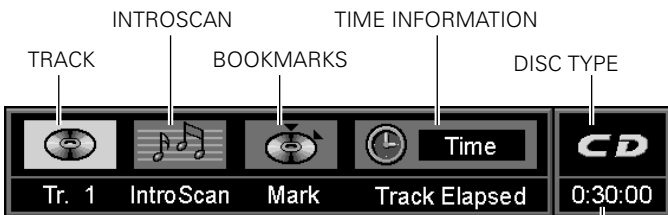



## When playing a DVD



TIME INDICATOR

## When playing a CD/VCD



TIME INDICATOR

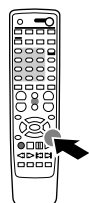
Time indicator contents

## Switch the CD time indicator as follows.




- 1** Select the time information with the cursor key.
- 2** Each time the ENTER key is pressed, the time indicator changes as follows.
  - 1** Track Elapsed (elapsed time of the track being played)
  - 2** Track Remain (remaining time of the track being played)
  - 3** Disc Elapsed (elapsed time of the disc being played)
  - 4** Disc Remain (remaining time of the disc being played)


## To display disappear from the screen

Press the ON SCREEN key or CLEAR key



or

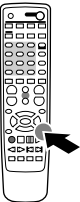





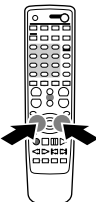
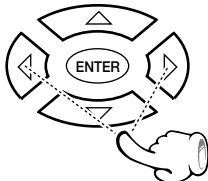

- You can only access the banner display when you're playing a disc.
- The banner display feature are only available if the disc was created with that particular feature (i.e., if you select the Subtitle icon, you won't be able to change the subtitle language unless the author of the disc created the disc with subtitles).
- The invalid symbol  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.

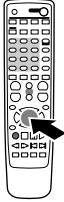

## DVD Selecting a Title

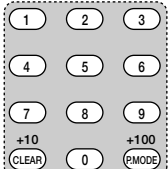

Some discs contain more than one title. For example, there might be four movies on one disc (each movie might be considered a title).

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



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



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



- 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.

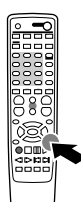




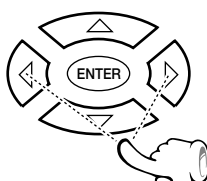
Some discs only have one title.



## DVD CD VCD Selecting a Chapter or Track

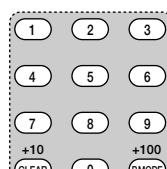

Because DVD discs use digital technology, a title can be divided into individual chapters (similar to tracks on a CD). You can skip a specific chapter by using the Chapter section in the Banner Display.

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



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



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



- Use the numeric keys to enter the chapter or track number.

When you enter a one-digit chapter or track 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.



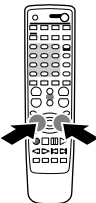
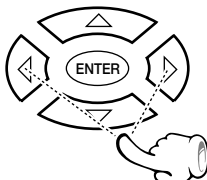
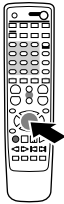



- The Chapter feature won't work if the disc isn't formatted with separate chapters.
- P.B.C. on mode of VCD, the Selecting a Track function may not work.

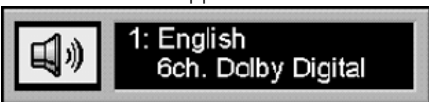
## DVD Changing the Audio Language


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.
 

- 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 5 seconds.

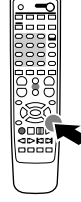
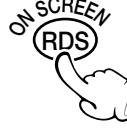
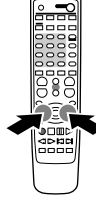
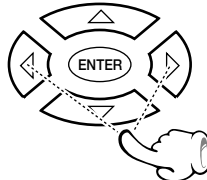




1. The language feature only works if the disc was created with multiple audio tracks.
2. When you chose an audio language from the Banner Display, you only override the audio language setting in the DVD Player's main menu (in the Language Preferences menu within Setup menu) temporarily.


## 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.
 

- 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.
 
- 5 Press the S.TITLE key to subtitle ON or OFF.
 

- The menu is switched off when no operation is performed for about 5 seconds.



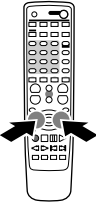
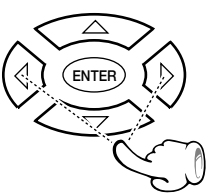




1. The subtitle feature only works if the disc was created with multiple subtitle tracks.
2. The subtitle menu of the disc appears in some discs.


## 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



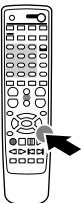

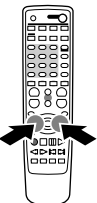
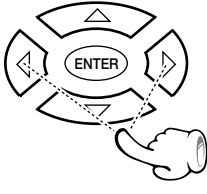
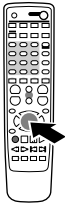

- 4 Select the angle with press the ENTER key.

- The menu is switched off when no operation is performed for about 5 seconds.

## CD VCD Using IntroScan function

IntroScan plays the first few seconds of each track on only one disc 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 ENTER key on the remote (the current track starts playing in its entirety).

(When the On-screen display has gone out, press the ON SCREEN key, select Intro Scan, and press the ENTER key.)

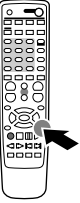


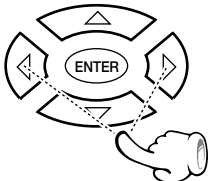




**Note**  
P.B.C. on mode of VCD, the IntroScan function may not work.

## DVD CD VCD Using Bookmarks

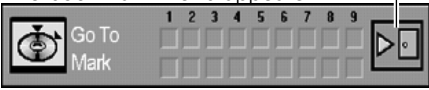
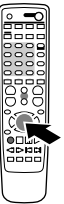

The bookmark feature lets you mark a point on the disc that you can go to quickly. You can store up to 9 bookmarks.

### Create the bookmark


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

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

- Press the ENTER key.
 


Return to the previous banner display

The bookmark menu appears


- When you reach the scene you want to mark, press ENTER key.
 


The bookmark appears on under square



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

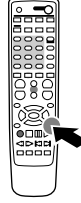
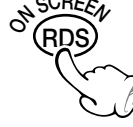
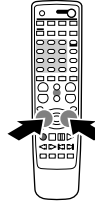
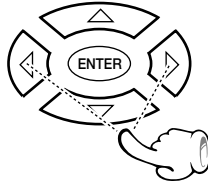
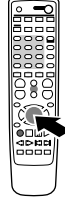

### Clearing a bookmark

- The bookmark is cleared each time the disc changes or when the power is turned off.


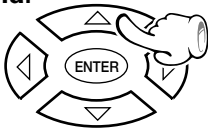
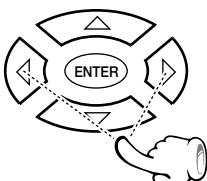



- If all 9 bookmarks are in use, you can still mark new scenes, but the previous bookmarks will be erased.
- Depending on the disc, the Bookmark function may not work
- P.B.C. on mode of VCD, the Bookmark function may not work.

### Recalling a bookmarked scene

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

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

- Press the ENTER key.
 


The bookmark appears on under square


- Press the Cursor up (▲) key on the remote to go the parts of the Bookmark menu.
 
- Use the Cursor left/right (◀/▶) keys on the remote to select the bookmarked scene you want to activate.
 
- Press the ENTER key to active the bookmark.
 



- You can go to bookmarked scene by the numeric key (1-9) on the step ⑤.
- Press the ON SCREEN key or CLEAR key to switch the menu off.

## DVD CD VCD Repeat play


Desired titles or discs can be played back repeatedly.

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


**During playback, press REPEAT on the remote.**

The Repeat display appears



**Each press the key switches the REPEAT mode.**



**When the REPEAT key is pressed, the following display is shown on the TV screen.**

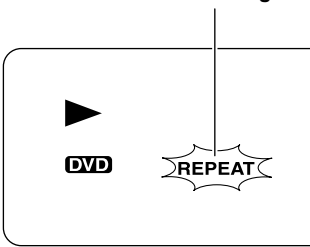
**At the time of DVD playback**

- ➔ ① Repeat Disc
- ➔ ② Repeat Title
- ➔ ③ Repeat Chapter
- ➔ ④ Repeat Off

**At the time of CD/VCD playback**

- ➔ ① Repeat Disc
- ➔ ② Repeat Track
- ➔ ③ Repeat Off

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



**Display**      **Lit**

- To cancel repeat playback, press the REPEAT key and select "Repeat off".
- The menu is switched off when no operation is performed for about 5 seconds.


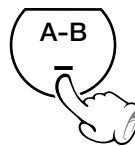


- P.B.C. on mode of VCD, the Repeat play function may not work.


## DVD CD VCD 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.


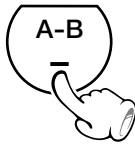
**① Press the A-B key on the remote when you want to choose a scene (sound) as the beginning point.**


The Repeat A- display appears



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

The Repeat A-B display appears



**Display**      **Lit**

- 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 5 seconds.



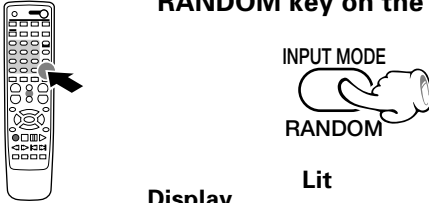
- P.B.C. on mode of VCD, the A-B Repeat play function may not work.



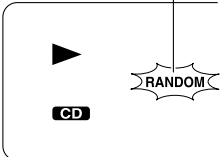
## CD VCD *Random play*

The tracks of disc are played in random order.


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



**Display** Lit



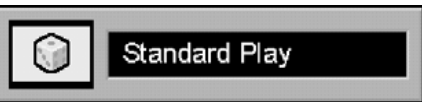
The Random Play display appears



**Each time you press RANDOM key 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 5 seconds.

- When the **RANDOM** key is pressed during playback, the tracks of the disc being played will be selected in random order for playback.
- After all tracks of a disc have been played in random order, playback will stop. (Random mode will be cancelled.)



- When playing a DVD, the Random function may not work.
- P.B.C. on mode of VCD, the Random play function may not work.



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

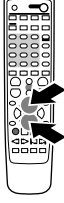
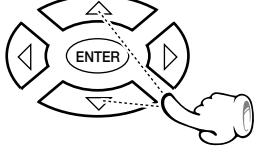
**Registering and playing the program**

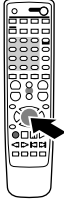

Insert the disc to be used in programming in the tray, close it and press the PLAY key so that the player reads the disc information by playing disc until display "READING" disappears. (If the tray is opened after this, the above procedure should be repeated so that the player reads disc information again.)


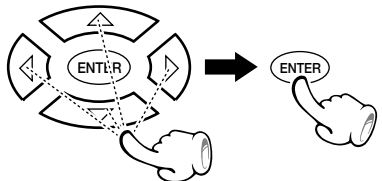
**Program Edit**

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

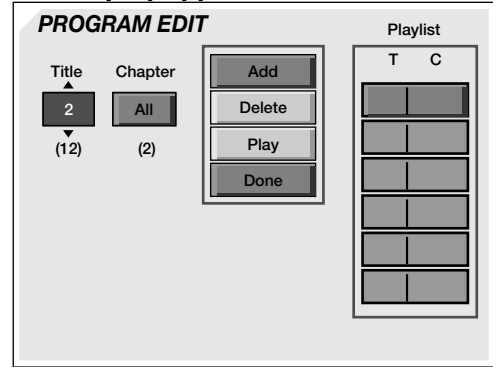


- 2** Select specific title/chapter or track by Press Cursor up/down (▲/▼) keys or numeric keys (0-9).



- 3** Press the ENTER key.






- 4** Select Add icon on the screen to register selected value onto Playlist, then press the ENTER key.

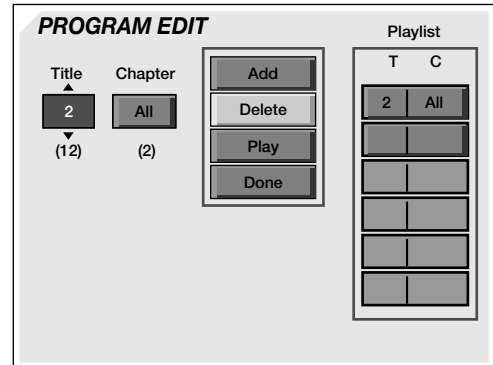


- 5** You can select maximum 32 values by repeating step 2 - 4.
- 6** Press the PLAY key to start playback.

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.
- MP3 discs can not be programmed with this program mode. (MP3 program play -- 41)

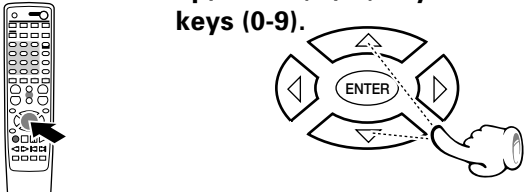


- Add icon --- Add value onto "Playlist"
- Delete icon --- Delete value from "Playlist"
- Insert icon --- Insert value in "Playlist"
- Play icon --- Play program play
- Done icon --- Return to stop or resume mode

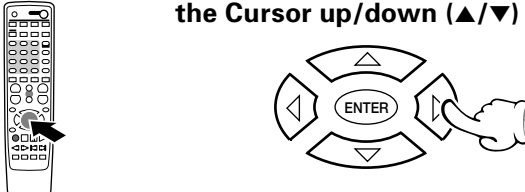
### Insert chapter or track

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

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




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

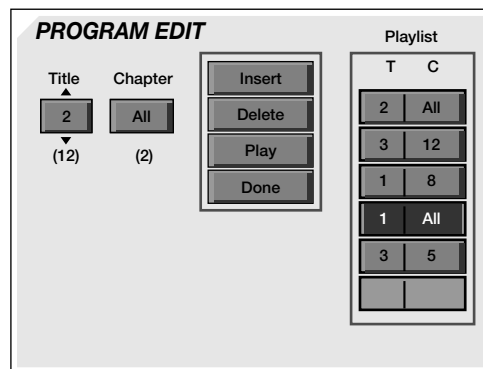


(The color of the column where the Cursor is located will change.)

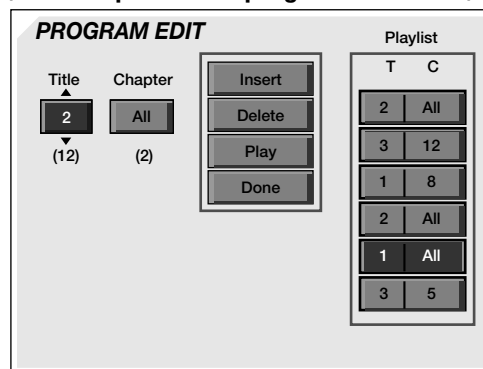
**3** Move the cursor with the Cursor left (◀) key to the Insert icon and press the ENTER key.



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



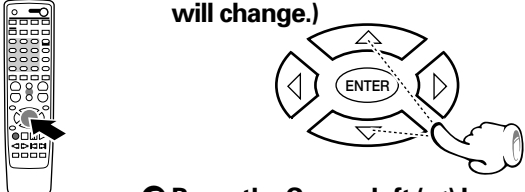
(An example of DVD program edit menu)



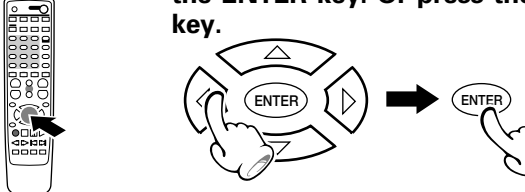
### Delete Program

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

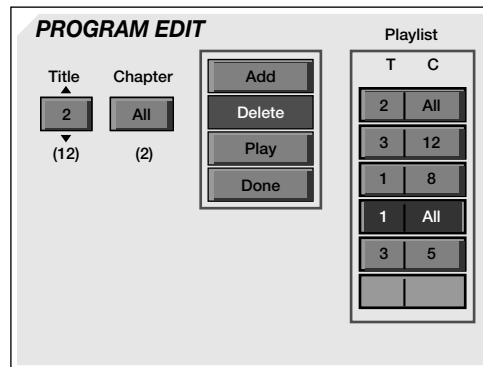
**1** Use the Cursor up/down (▲/▼) keys to select the column to be deleted from the "Playlist". (The color of the column where the Cursor is located will change.)



**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. Or press the clear key.



Selected value deletes



### 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.

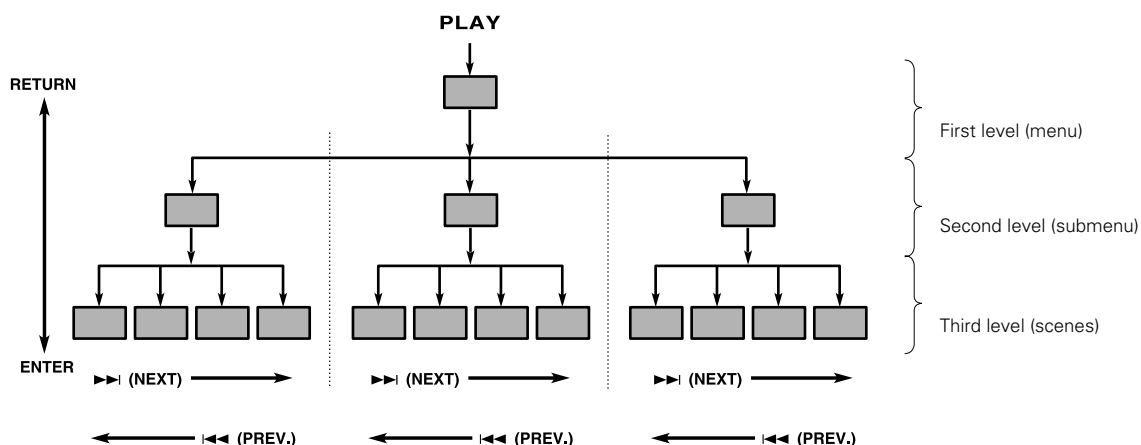


P.B.C. on mode of VCD, the Program play function may not work.

## VCD Hierarchical structure of VCD menus

When an item is selected on the menu screen during playback of a P.B.C.-compatible VCD, another menu with more details items may be displayed. When a number of menus are connected in multiple layers in this way, it is said that the menus have a hierarchical structure. In this structure, the desired scene can be reached by repeating item selections on the menu screens.

### Example for a hierarchical structure



Operations

#### Advancing

When an item is selected on the menu screen with the ▶ key or the numeric keys, advance is made to the next lower menu level. When the advance destination is the "scene" to be played, the contents will be played.

#### Returning

Each time the RETURN key is pressed, return is made to the next higher menu.

- When several menus (scenes) can be selected in each level, screen switching is possible with the keys ▶▶ (NEXT) and ◀◀ (PREV.).

## Examples of operation keys and indications used during VCD playback

Soft jacket indication	▶	◁	◀◀	▶▶	ENTER or SELECT
KENWOOD operation key	▷	RETURN	◀◀	▶▶	ENTER

- Depending on the software, the jacket indication may differ from the above.

## **VCD Playback without using the menu playback function (In case of a P.B.C.-compatible VCD) (To P.B.C. On or Off)**

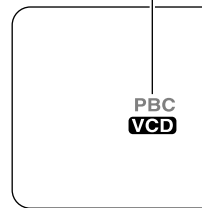
Press the TOP MENU key on the remote control unit.



- For the track numbers, refer to the disc jacket or other material.
- P.B.C. off mode : Without using menu playback function.

### **P.B.C. off mode**

Goes off

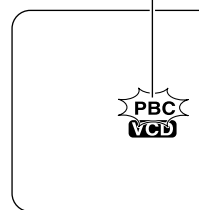


### **To return to menu playback**

Press the TOP MENU key again.

### **P.B.C. on mode**

Lit



## Guidance of MP3

### Media that can be played back with this equipment

Usable media : CD-ROM, CD-R, CD-RW

Usable format : ISO9660 level 1.

Files that can be played back : MP3 files

### Creating media for playing back on this equipment

#### Compressing MP3

Please set up the transfer bit rate setting for the compression software when compressing MP3 files as follow.

MP3 Files : 128kbps recommended (32kbps-320kbps)

- **This unit is compatible with 32 kHz, 44.1 kHz (recommended) and 48 kHz sampling frequencies.**

#### Naming folders and files

Single-byte characters between A and Z, single-byte numerals between 0 and 9, and the single-byte underscore(\_) can be displayed. Ensure that the ".MP3"(MP3 files) extension log is attached to all file names.

- **Never add the MP3 extension log to any files other than MP3 files. If the MP3 extension log is added to any files other than MP3 files, the equipment will assume that they can be played back, and this will produce loud noises in the speakers, resulting in damage of adverse effects.**

#### Confirming media and files

Check to ascertain that MP3 files can be played back correctly on the personal computer in use prior to saving them onto the media. Check to ensure that the saved file can be played back normally.

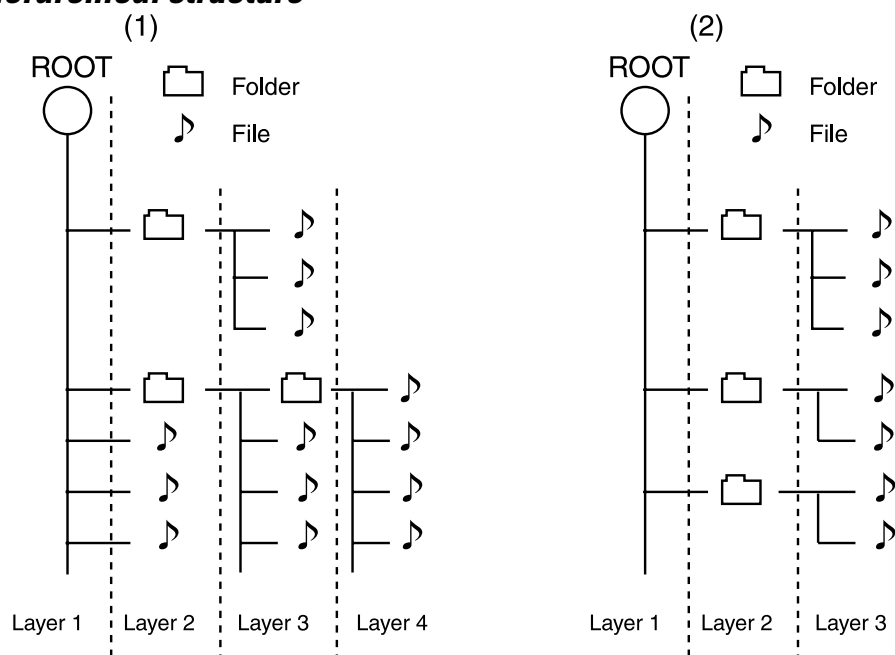
- **It is not possible to confirm that files can be played back correctly while they are being saved onto the media.**

#### When saving files onto media

Ensure that the session is closed or finalized when data has been written on media. There are cases where media on which the session has not be closed or finalized will not be played back correctly with this equipment.

- **There are cases where the folder names and file names will not be displayed correctly depending on the software used to save them.**
- **Do not store files or folders other than MP3 on media to be played back with this equipment.**
- **It is recommended that ten or less sessions are stored when recording MP3 files onto a media.**
- **Some time may be required until the playback of multi-session discs starts.**
- **There are cases where playback is not possible when MP3 files (CD-ROM) and music CD information (CD-DA) are saved on the same media.**

### Example for a hierarchical structure



## MP3 On-screen display

When you insert MP3 media, the MP3 On-screen display appears.



Folder icon  
Return folder icon



Files  
Program window

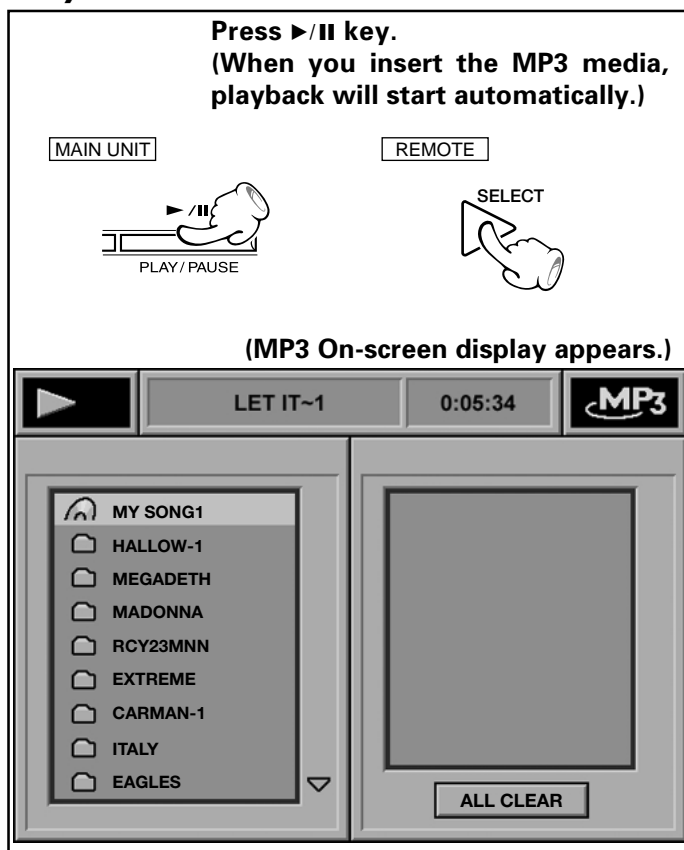


Folder names and file names are displayed up to 8 characters. When folder names and file names are recorded with more than 8 characters, the names will be displayed in abbreviated form.

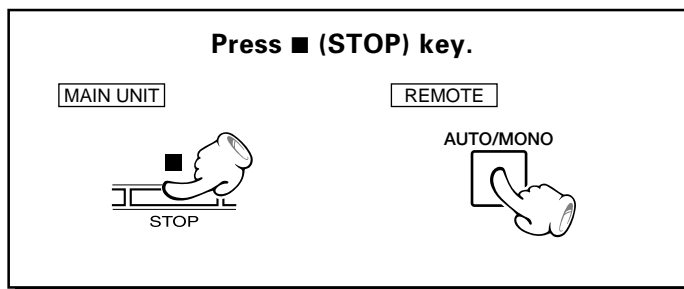
## Playing back MP3

- It is not possible to play back folders and files (up to 223) that exceed the maximum limitations of the media.
- A certain amount of time is required for the player to confirm the media on which MP3 files have been recorded before playback will commence.
- The files will be played back in the sequence in which they were recorded (written).

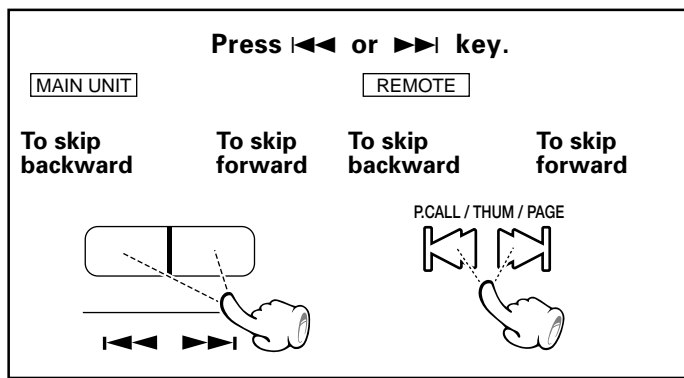
### Playback



### To stop playback



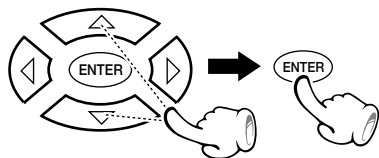
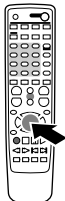
### Skipping files



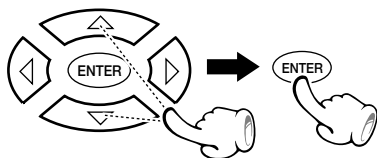
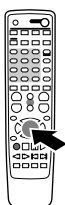
## Selecting MP3 files or folders

Selects the files to be played back directly.

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



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



- Playback will start from selected file.
- Files in the next folder will be played back when no files exit in the selected folder.

- The files and folders in the selected folder appear.

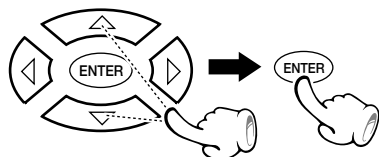
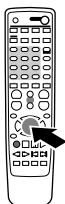


- Press ENTER key on RETURN folder icon to move to the upper layer.

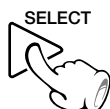


Selects the folders to be played back directly.

- 1 During stop mode, press Cursor up/down (▲/▼) keys on the remote to select the folder, then press the ENTER key.



- 2 Press Cursor up/down (▲/▼) keys on the remote to select the upper folder icon, then press PLAY key.



- Playback will start from selected folder.
- Files in the next folder will be played back when no files exit in the selected folder.



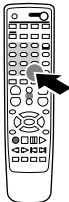


# MP3 program playback

You can listen to the desired files of the current MP3 disc in any desired order.

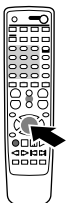
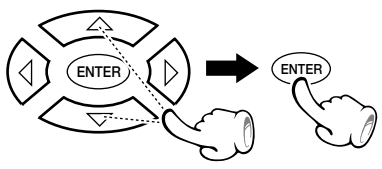
## Program Edit

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



+100  
P.MODE

**2** Press Cursor up/down (▲/▼) keys on the remote to select the file, then press the ENTER key.

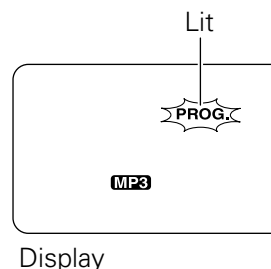



- The selected file go to program window.
- You can select maximum 130 values by repeating step 2.

**3** Press PLAY key to start program playback.

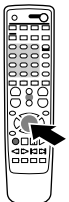
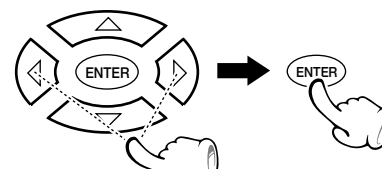
- Program playback will play back repeatedly.
- To return to standard play, press the P.MODE key again.

Goes off  
PROG.



## Delete Program

**1** During stop mode, press Cursor left/right (◀/▶) keys on the remote to select the "ALL CLEAR" icon, then press the ENTER key.

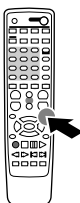

- The program deletes.
- You can delete file one by one by selecting in Program window and pressing CLEAR key on the remote.



## Set up menu

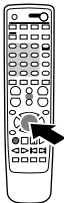
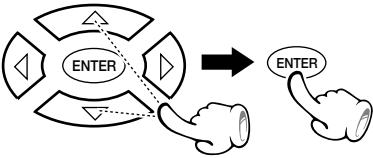
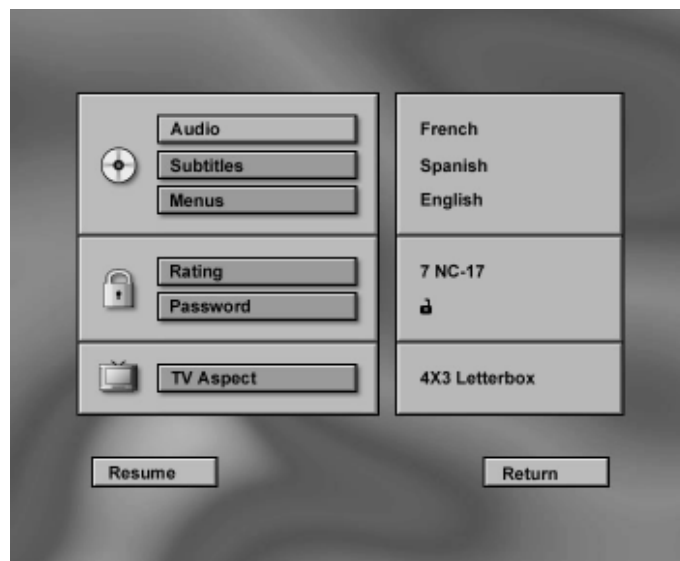
The initial setup of the player, which has been made at the factory, can be changed to the desired setup.

**1** During stop mode or resume mode, press MENU key on the remote.

Current setup menu display appears on the screen.

**2** Press Cursor up/down (▲/▼) keys on the remote to select the item, then press the ENTER key to access the sub features

(Menu display example)

- 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.

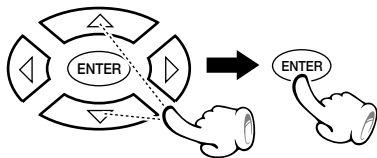
### How to use the RETURN key

When the RETURN key is pressed, the display returns to the previous screen (STOP mode).



## 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.

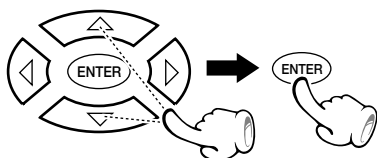
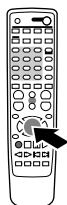


(Audio menu appears.)



(The display shows an example for some areas)

- 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

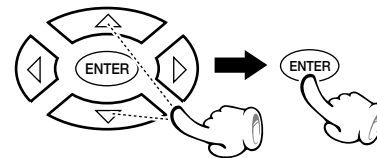


- 2 Input code in the first digit by Press Cursor up/down (▲/▼) keys or numeric keys on the remote and repeat other 3 code with same way.
- 3 Press the ENTER key on "OK" icon.  
(DVD menu language code list → 61)

● 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.

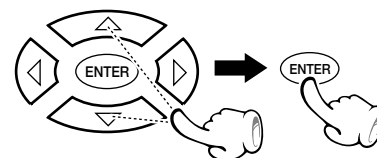
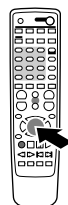


(Subtitle menu appears.)



(The display shows an example for some areas)

- 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

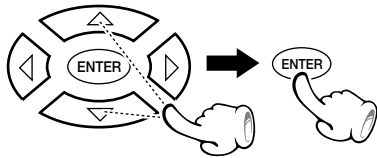


- 2 Input code in the first digit by Press Cursor up/down (▲/▼) keys or numeric keys on the remote and repeat other 3 code with same way.
- 3 Press the ENTER key on "OK" icon.  
(DVD menu language code list → 61)

● Press PLAY key to resume normal playback.

## DVD Select Menu Language

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

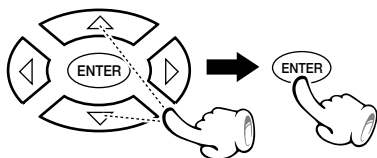
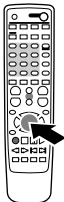


(Menus appears.)



(The display shows an example for some areas)

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

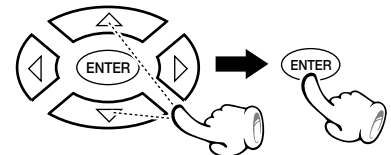


- Press PLAY key to resume normal playback.

## 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.).

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



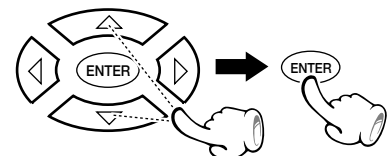
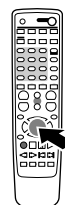
When a password already has been set, the screen for change of the entered password will be displayed. In that case, enter the password. (- 45)

(Rating aspect menu appears.)



(The display shows an example for some areas)

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



- Press PLAY key to resume normal playback.

### Playback of a disc

When the settings for Rating (Parental Lock) and Password (see page 45) have been made, the input screen for the password will be displayed when playback of a disc corresponding to parental lock is started. Playback of that disc will be possible when the correct password has been entered.

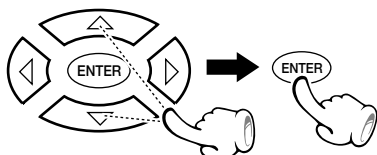
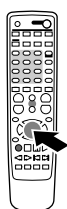
### Parental lock level

Level 8: All DVDs can be played back. (Factory preset)  
 Level 7 to 2: DVDs for general audiences/children can be played back. (DVDs for adults are prohibited.)  
 Level 1: DVDs for children can be played back. (DVDs for adults/general audiences are prohibited.)

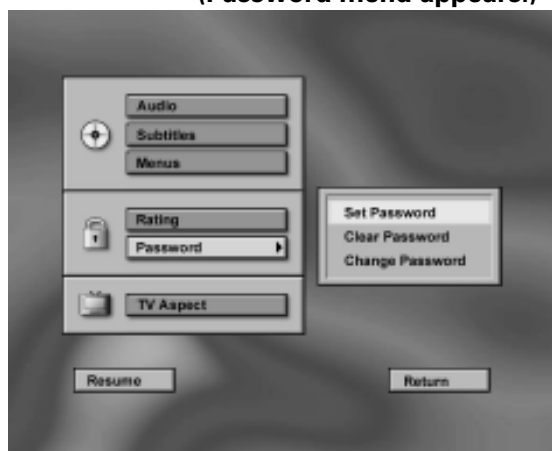
# DVD Password

## Input password

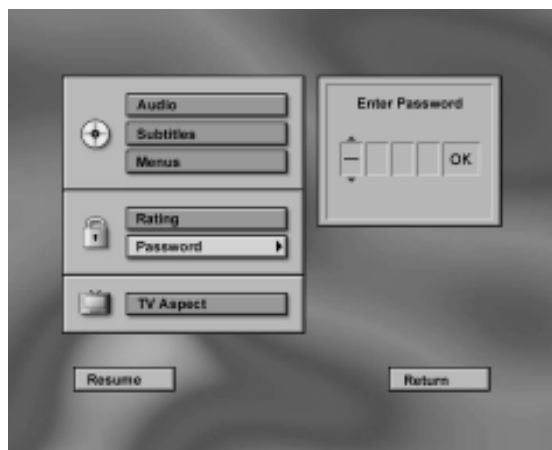
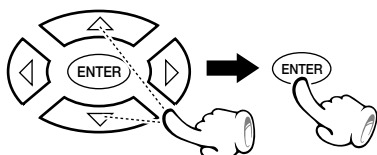
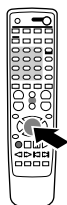
➊ Press Cursor up/down (▲/▼) keys on the remote to select Password on the set up menu display, then press the ENTER key.



(Password menu appears.)



➋ After select "Set Password", press the ENTER key.

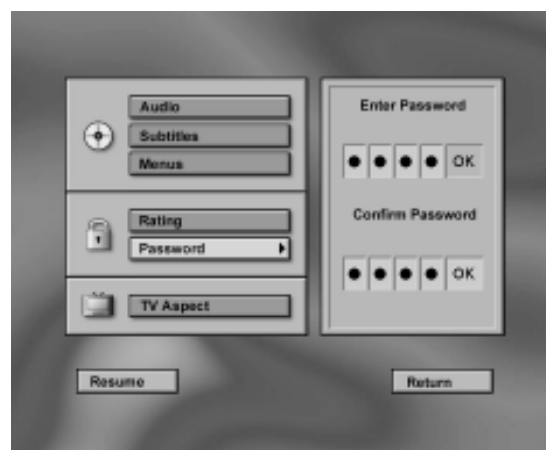
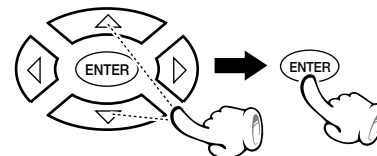
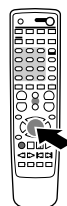


➌ Press Cursor up/down (▲/▼) keys or numeric keys on the remote to enter password.

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



➎ Press Cursor up/down (▲/▼) keys or numeric keys on the remote to enter again password that you entered.



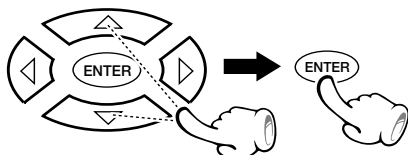
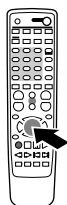
➏ Press the ENTER key on "OK" icon.

● Press PLAY key to resume normal playback.

## DVD Password (continued)

### Change password

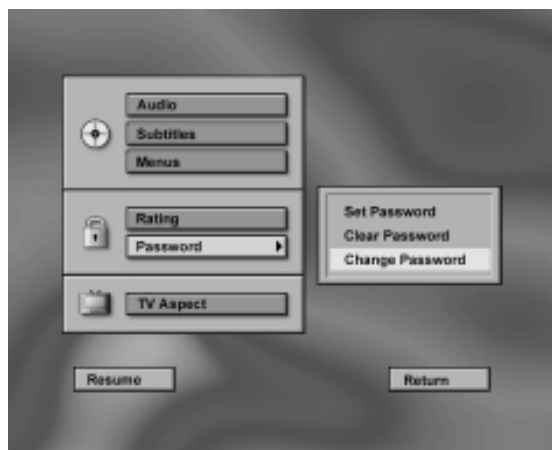
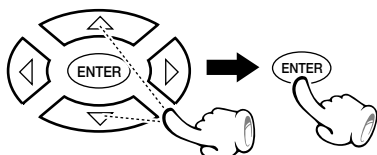
- ① Press Cursor up/down (▲/▼) keys on the remote to select Password on the set up menu display, then press the ENTER key.



(Enter Password menu appears.)

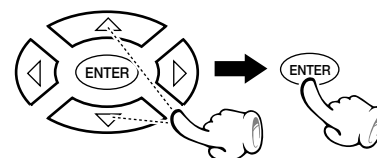
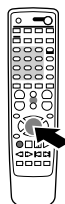


- ② Press Cursor up/down (▲/▼) keys or numeric keys on the remote to enter password. Press the ENTER key on "OK" icon.

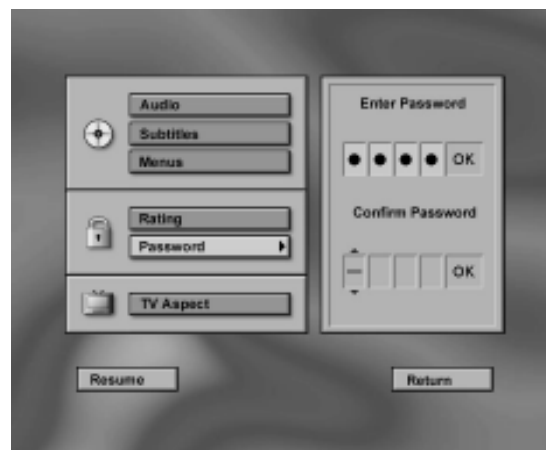


- ③ Press Cursor up/down (▲/▼) keys to select Change Password, then press ENTER key.

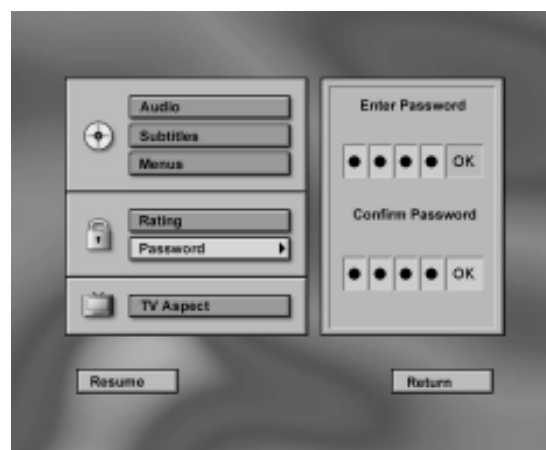
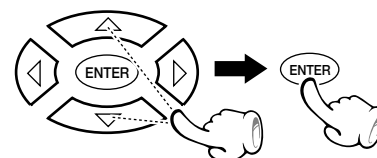
- ④ Press Cursor up/down (▲/▼) keys or numeric keys on the remote to enter password.



- 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.



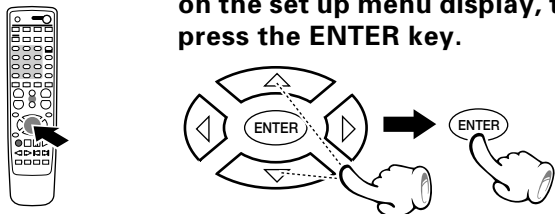
- ⑦ Press the ENTER key on "OK" icon.

- Press PLAY key to resume normal playback.

## DVD Password (continued)

### Clear password

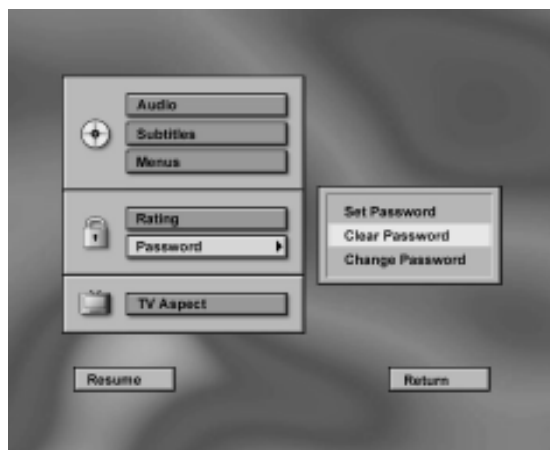
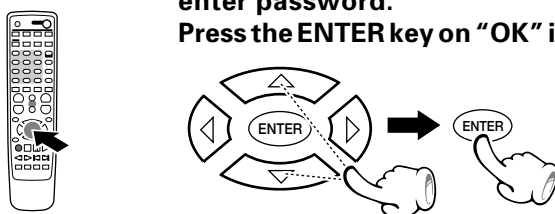
- Press Cursor up/down (▲/▼) keys on the remote to select Password on the set up menu display, then press the ENTER key.



(Enter Password menu appears.)



- Press Cursor up/down (▲/▼) keys or numeric keys on the remote to enter password. Press the ENTER key on "OK" icon.

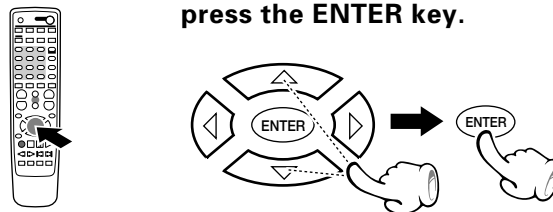


- Press Cursor up/down (▲/▼) keys to select Clear Password, then press ENTER key.

- Press PLAY key to resume normal playback.

## DVD TV aspect

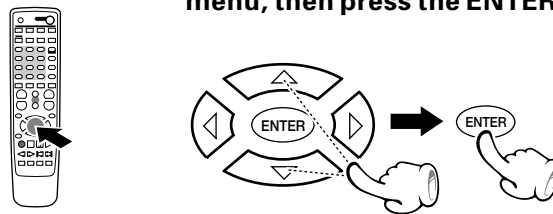
- Press Cursor up/down (▲/▼) keys on the remote to select TV Aspect on the set up menu display, then press the ENTER key.



(TV Aspect menu appears.)



- 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.

## What are LISTEN modes?

You can experience true home-theater sound with your new system. This system incorporates several listen modes to let you enjoy surround sound with a wide variety of program sources. Each produces multiple channels of surround-sound, but each does it differently.

- **Dolby Digital:** Dolby Digital uses an encode/decode process based on its theatrical digital surround sound technology. The five main channels are full-frequency and independent, so sound can completely envelop you or soar anywhere in the room, just like at the movies.  
Compared with Dolby Pro Logic, Dolby Digital has more clarity, greater surround envelopment, and more realistic sound movement between channels.
- **Dolby Pro Logic/Dolby Pro Logic II:** Dolby Pro Logic reproduces a surround sound like in a movie theater from Dolby Surround-encoded program source (videotape or LaserDisc software carrying the Dolby Surround logo), and features excellent sound movement on the front and a surrounding atmosphere of movie theaters. Meanwhile, Dolby Pro Logic II decodes a signal encoded in 2 channels into 5-channel signals composed of the left/right front signals, center signal and surround left/right signals.  
Dolby Pro Logic II is an advanced version of the decoding technology used with Dolby Pro Logic. It inputs 2-channel signals from a Dolby Surround-encoded source and reproduces 5-channel signals in which the surround channel is divided into independent channels for the left and right. Dolby Pro Logic II has the MOVIE mode and MUSIC mode, and the MUSIC mode enables independent adjustment of three parameters including Panorama mode, Dimension and Center Width.
- **DTS:** DTS has five full-frequency channels that create effects nearly identical to those in a theater. Sounds seem to zoom from one place to another or entirely surround you. Like Dolby Digital, DTS has much-improved clarity, surround and sound movement capability compared with Dolby Pro Logic. This listen mode is available on CD, LD, and DVD media. DTS is a strictly digital format that can be supplied only by a CD, LD, or DVD player that supports DTS sound.
- **DSP (Digital Signal Processing):** DSP allows you to create your own custom surround sound environments and use them with any source (except Dolby Digital and DTS). You can select the ambience of an ARENA, JAZZ CLUB, THEATER, STADIUM or DISCO to your taste.
- **CS5.1 ch:** The Circle Surround System was developed to provide the highest level of sonic performance available in a Matrix system. Audio for music was not the focus for other multichannel formats and, as a result, there is a serious compromise in the performance of these systems. That is not to say that the Circle Surround system is only for music—other applications such as Cinema, Home Theater, multichannel broadcast, video tape and any other type of audio delivery can take advantage of the superior performance of Circle Surround.
- **Stereo:** Stereo listen mode provides standard stereo sound to the front left and right speakers.

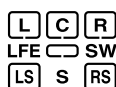
### Description of Dolby Pro Logic II: Music mode

**Panorama mode** : Expands the image of front-channel stereo to the surround speakers to create a sound environment that fills your surroundings. (To change the Panorama mode, press **SOUND** key at the time of Dolby Pro Logic II Music mode. Display the **PANO R OFF** or **ON**, then press the **TRIM** (▲/▼) keys to select **ON** or **OFF**.)

**Dimension** : This controls the balance between the Front and Rear in 2 steps on the front and 2 steps on the rear. Set this parameter to one of the Front steps if the surround effect is too strong, or to one of the Back steps if it is too weak. (To change the Dimension, press **SOUND** key twice at the time of Dolby Pro Logic II Music mode. Display the **DIMEN 0** (or other value), then press the **TRIM** (▲/▼) keys to select **F-2**, **F-3**, **R-2** or **R-3**.)

**Center Width** : The center channel signal can be divided and distributed to the Front L/R channels.

The adjustment for distributing the center channel signal to the front channels can be applied in eight steps from 0 to 7. Use this adjustment when the center image seems to be too strong. (To change the Center Width, press **SOUND** key 3 times at the time of Dolby Pro Logic II Music mode. Display the **C WIDTH 3** (or other value), then press the **TRIM** (▲/▼) keys to select **0 ~7**.)



**The INPUT/OUTPUT status indicator becomes an input indicator at the time of DOLBY DIGITAL and DTS source and an output indicator at all other times.**



## To set the LISTEN mode manually

According to the contents of the disc played in this unit, the LISTEN MODE (selected by the LSTN MODE key) can be found in the following table

SOURCE LISTEN MODE	DISC				Input	
	DOLBY DIGITAL (5.1ch)	DOLBY DIGITAL (2ch)	DTS	VCD/CD (PCM, MP3)	*SAT/AV AUX Digital COAX/OPTI	SAT/VCR/AV AUX ANALOG
DOLBY DIGITAL	<input type="radio"/>	<input type="radio"/>			<input type="radio"/>	
DTS			<input type="radio"/>		<input type="radio"/>	
DOLBY PRO LOGIC II		<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
DOLBY PRO LOGIC		<input type="radio"/>		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
CIRCLE SURROUND (CS-5.1)				<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
DSP ARENA JAZZ CLUB THEATER STADIUM DISCO				<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
STEREO	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

The indicator for the presently selected LISTEN mode will light.

\*Selectable Listen modes by SAT / AV AUX Digital input differs according to the input source.

Press the LSTN MODE key.

REMOTE

Each press switches the modes as shown below.

- |  |   |
|--|---|
| <p>(At the time of PCM source)</p> <ol style="list-style-type: none"> <li>① DOLBY PL II MOVIE</li> <li>② DOLBY PL II MUSIC</li> <li>③ DOLBY PRO LOGIC</li> <li>④ CIRCLE SURROUND</li> <li>⑤ ARENA</li> <li>⑥ JAZZ CLUB</li> <li>⑦ THEATER</li> <li>⑧ STADIUM</li> <li>⑨ DISCO</li> <li>⑩ STEREO</li> </ol> | <p>(At the time of DTS source)</p> <ol style="list-style-type: none"> <li>① DTS</li> <li>② DTS STEREO</li> </ol> <p>(At the time of DOLBY DIGITAL source)</p> <ol style="list-style-type: none"> <li>① DOLBY DIGITAL</li> <li>② STEREO</li> </ol> |
|--|---|

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Sound Retrieval System manufactured under licence from SRS Labs, Inc. "SOUND RETRIEVAL SYSTEM" and the SRS Symbol SRS (●) are trademarks of SRS Labs, Inc. Purchase of this product does not convey the right to sell recordings made with the SOUND RETRIEVAL SYSTEM.

### DTS disclaimer clause


DTS Digital Surround™ is a discrete 5.1 channel digital audio format available on CD, LD, and DVD software which consequently cannot be decoded and played back inside most CD, LD, or DVD players. For this reason, when DTS-encoded software is played back through the analog outputs of the CD, LD, or DVD player, excessive noise will be exhibited. To avoid possible damage to the audio system, proper precautions should be taken by the consumer if the analog outputs are connected directly 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 CD, LD or DVD player. This unit is equipped with DTS Digital Surround™ decoder.

## Positioning the speakers

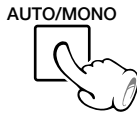
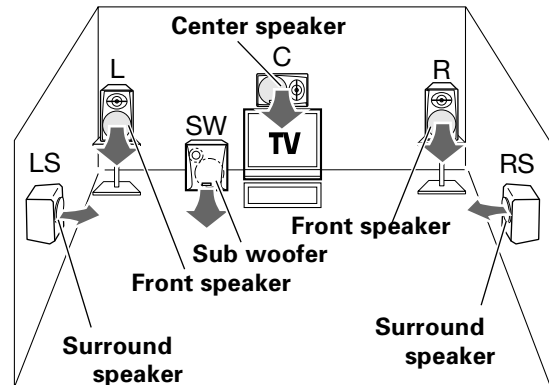
To achieve the optimum effects obtainable with this SURROUND SOUND system, it is important to position the speakers properly. Refer to the following illustration to find the best location in your room.

**Preparation**

- Play a disc marked "Dolby Digital".



- Stop the playback.

For this unit, the speaker levels have been set in advance so that the best volume balance is obtained with standard use.



### Initial set values for the speaker level

Left Front channel (Lch)(L)	: 0dB
Center channel (Cch)(C)	: 0dB
Right Front channel (Rch)(R)	: 0dB
Right Surround channel (RSch)(RS)	: +6dB
Left Surround channel (LSch)(LS)	: +6dB
Subwoofer(SW)	: 0dB


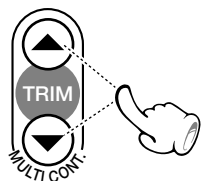
Reset as follows to match your listening environment.

## Speaker level setting

- Press **SETUP** key for more than 2 seconds

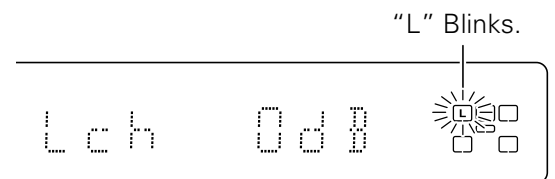



- Press the **TRIM** (▲/▼) keys to control the speaker level.

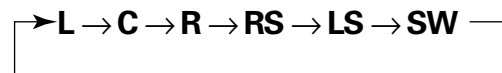



- After all speakers have been adjusted, operate the Delay time setting (→ [51]).
- If you want to quit at this time, press the **ENTER** key.

The test tone is played back from the Left Front speaker. Adjust the **VOLUME CONTROL** so that it is slightly loud and fix it there.



The speakers will be switched as follows in intervals of about 2 seconds.

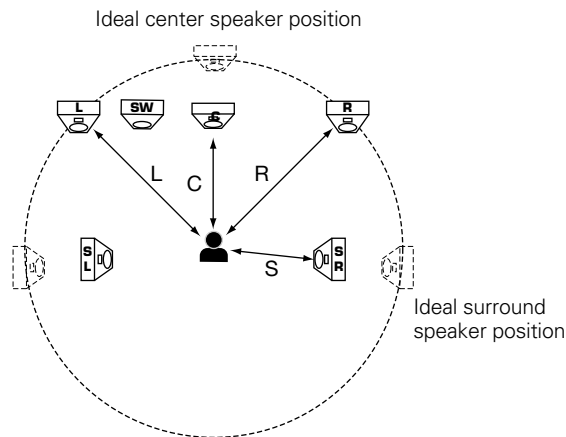


Adjust the volume with the **TRIM** (▲/▼) keys while the indicator is flashing so that the volume from all speakers except the subwoofer (SW) appears the same. Level adjustment is possible in the range from -10 dB to +10 dB.



As the subwoofer (SW) has a special playback band, normal adjustment is not possible with the test tone. Please adjust the subwoofer while listening to actual music. (→ [52])

The ideal listening position for 6-channel surround playback is the point at equal distance from all speakers. By setting the delay time for the center and surround speakers, this item realizes the ideal listening position virtually. (The center and surround speakers can be set as if they are laid out on the dotted line circle shown below.)



### How to set the delay time

Delay time setting sets the delay time converted to the distance from the speaker to the listening position.

The front speakers (L/R) can be adjusted between 40 feet (12 m) and 3 feet (0.9 m).

The range which can be set for the center speaker (C) and the surround speakers (LS/RS) differs according to the setting for the front speakers. A longer distance than for the front speakers can not be set.

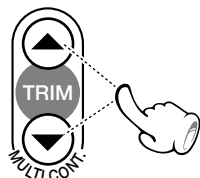
## Delay time setting

This operation is performed following the adjustment of the speaker level setting on page 50.

① Press SETUP key.



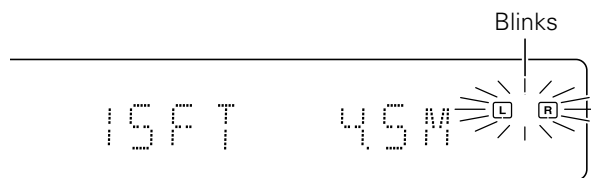
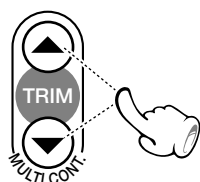
② Press the TRIM (▲/▼) keys to select the speaker distance.



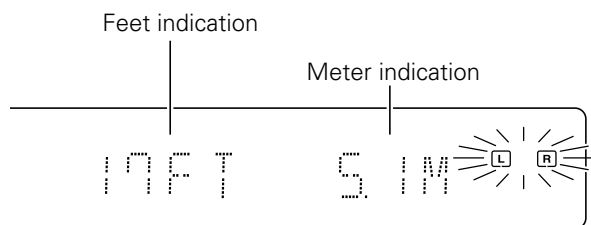
③ Press SETUP key.



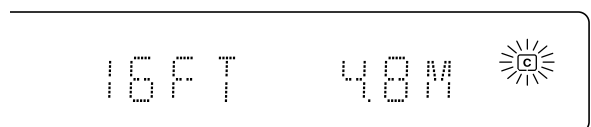
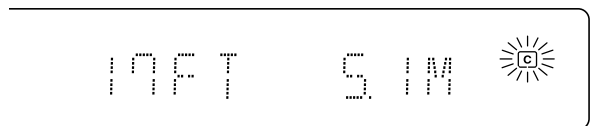
④ Press the TRIM (▲/▼) keys to select the speaker distance.



Return to the original display is made when no operation is performed for about 5 seconds.



The process advances to center speaker adjustment when the SETUP key is pressed.



Repeat ③ and ④ in the same way to adjust the surround speakers.

## Level setting using a music source

A music source can be used for speaker level setting and subwoofer level setting.

**1** Play a disc marked "Dolby Digital".

**2** Select the speaker.

**3** Press the TRIM (▲/▼) key to setting the speaker level.

**Speaker level adjustment can be performed by pressing the keys F, C, R, and SW.**

F: Front speakers

Switching is done as follows each time the switch is pressed.

- ▶ ① L ch : Left speaker
- ▶ ② R ch : Right speaker

C: Center speaker

R: Rear (Surround) speakers

Switching is done as follows each time the switch is pressed.

- ▶ ① LS ch : Left surround speaker
- ▶ ② RS ch : Right surround speaker

SW: Subwoofer

The speaker level can be changed in the range from -10 dB to +10 dB.

## Changing the INPUT MODE

The input mode can be switched with SAT and AV AUX. For listening to SAT input with high sound quality, connect the digital output of your satellite tuner with coaxial or optical cable and change the input mode as follows.

**1** Select the SAT or AV AUX key.

**2** Press the INPUT MODE key.



When the video is displayed, but no sound is put out, the source may not contain digital audio. In such a case, please switch to ANALOG.

**Each press switches the mode.**

**SAT input**

- ▶ ① ANALOG
- ▶ ② COAXIAL
- ▶ ③ OPTICAL

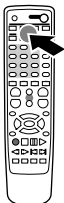
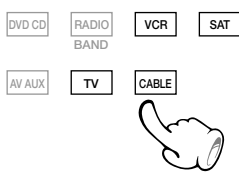
**AV AUX input**

- ▶ ① ANALOG
- ▶ ② OPTICAL

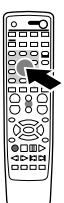
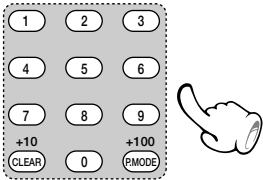
## Register the setup codes for your audio and video

The devices which can be set up are VCR SAT (satellite tuner), TV, and CABLE TV).

**1 Press one of the devices key for more than 2 seconds**

**2 Use the numeric keys to enter the setup code.**

**3 Press DEVICE (I/⏻) key, CH +/- keys or numeric keys to test the code.**

If the code is acceptable, your devices work as it is.

The LED on the remote control unit lights.

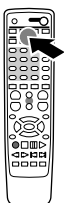
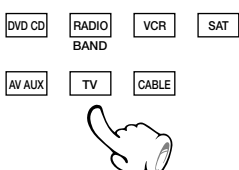


Refer to the code table and enter the 4-digit setup code while the LED on the remote control unit is lit. (→ 54)

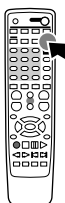

- The LED goes out when the code is not correct or not recognized.
- When the setup code has been recognized, the LED flashes 3 times and setup is completed.

## Operating other devices

**1 Press one of devices key for operate.**

**2 Press DEVICE I/⏻ key to device power on.**

**3 Press device operate key.**  
(Keys which can be used to operate connected devices → 60)

# Setup code table (for U.K.)

## TV

BRAND	Setup codes			
ACURA	0024			
ADMIRAL	0102	0178		
ADYSON	0232			
AKAI	0223	0376		
AKURA	0233	0279		
ALBA	0024	0052	0233	0386
ALLOGAN	0309			
AMPLIVISION	0232			
AMSTRAD	0024	0052	0386	
ANITECH	0024			
ARCAM	0231	0232		
ASA	0102			
ASUKA	0233			
ATLANTIC	0221			
AUDIOSONIC	0052	0124		
AUTOVOX	0102	0221		
BAIRD	0358			
BANG & OLUFSEN	0102			
BASIC LINE	0024	0233		
BAUR	0025	0052	0364	0376
	0527			
BEKO	0385			
BEON	0052			
BINATONE	0232			
BLAUPUNKT	0206	0210	0215	0342
	0343			
BLUE SKY	0233			
BLUE STAR	0297			
BONDSTEC	0262			
BOOTS	0232			
BPL	0297			
BRANDT	0124	0350		
BRIONVEGA	0102			
BRITANNIA	0231			
BRUNS	0102			
BSR	0309			
BTC	0233			
BUSH	0024	0052	0233	0297
	0309	0364	0386	0389
	0534			
CASCADE	0024			
CATHAY	0052			
CENTURION	0052			
CENTURY	0102			
CGE	0262			
CIMLINE	0024			
CLARVOX	0052			
CLATRONIC	0262	0385		
CONDOR	0335	0385		
CONTEC	0024	0231		
CONTINENTAL EDIS	0414			
CROSLLEY	0102			
CROWN	0024	0052	0385	0433
CS ELECTRONICS	0231			
CTC	0262			
CYBERTRON	0233			
DAEWOO	0024	0052	0389	
DAINICHI	0233			
DANSAI	0052			
DAYTON	0024			
DE GRAAF	0223	0563		
DECCA	0052	0087		
DIXI	0024	0052		
DUAL	0534			
DUAL TEC	0232			
DUMONT	0102			
ELIN	0052	0563		
ELITE	0233	0335		
ELTA	0024			

BRAND	Setup codes			
EMERSON	0102	0376		
ERRES	0052			
EXPERT	0221			
FERGUSON	0052	0124	0253	0302
	0350	0358		
FIDELITY	0213	0376		
FINLANDIA	0223	0374		
FINLUX	0052	0087	0102	
FIRSTLINE	0024	0231	0232	0262
	0309	0336		
FISHER	0223	0232	0385	
FLINT	0470			
FORMENTI	0052	0102	0335	
FRONTECH	0178	0262	0279	
FUJITSU	0087	0221		
FUNAI	0279	0309		
GEC	0052	0087	0232	
GELOSO	0024			
GENEXXA	0178	0233		
GOLDSTAR	0052	0124	0232	
GOODMANS	0052	0087	0232	0332
	0358	0386	0389	
GORENJE	0385			
GPM	0233			
GRAETZ	0178	0376		
GRANADA	0052	0087	0223	0232
	0374			
GRANDIN	0297			
GRUNDIG	0206	0210		
HANSEATIC	0052	0335	0376	0571
HCM	0024	0297		
HINARI	0024	0052	0233	
HISAWA	0297	0470		
HITACHI	0124	0178	0232	0240
	0364	0563		
HUANYU	0231	0389		
HYPSON	0052	0279	0297	
ICE	0232	0279	0386	
ICES	0233			
IMPERIAL	0262	0385	0433	
INDIANA	0052			
INGELEN	0178			
INNO HIT	0087			
INTERFUNK	0052	0178	0262	0376
	0527			
INTERVISION	0052	0117	0232	0279
ISUKAI	0233			
ITS	0386			
ITT	0178	0376	0563	
JVC	0068	0109	0386	
KAISUI	0024	0231	0232	0233
	0297			
KAPSCH	0178	0221		
KATHREIN	0571			
KENDO	0052			
KENWOOD	0328			
KINGSLEY	0231			
KNEISSEL	0450			
KORPEL	0052			
KORTING	0102			
KOYODA	0024			
LEYCO	0052	0087	0279	0309
LIESENK & TTER	0052			
LOEWE	0090	0102	0304	0527
LUMA	0221			
LUXOR	0364	0376		
LUXOR	0376			
MAGNADYNE	0102	0117	0262	
MAGNAFON	0117			

BRAND	Setup codes			
MANESTH	0232	0279	0335	
MARANTZ	0052	0571		
MARELLI	0102			
MARK	0052			
MATSUI	0024	0026	0050	0052
	0087	0223	0232	0309
	0386			
MEDIATOR	0052			
M ELECTRONIC	0024	0052	0124	0178
	0232	0302	0389	
MEMOREX	0024			
METZ	0102			
MITSUBISHI	0102	0123	0527	
MIVAR	0231	0328		
MTC	0364	0527		
MULTITECH	0024	0117	0231	
NECKERMANN	0052	0102	0206	0364
	0571			
NEI	0052			
NIKKAI	0050	0052	0087	0231
	0233	0279		
NOBLIKO	0117			
NOKIA	0376	0563		
NORDMENDE	0124	0302	0358	
OCEANIC	0178	0376		
ORION	0052	0309	0335	0336
OSAKI	0087	0232	0233	0279
OSO	0233			
OSUME	0087	0172		
OTAKE	0332			
OTTO VERSAND	0025	0052	0206	0232
	0335	0358	0364	0527
	0571			
PALLADIUM	0385	0433		
PANAMA	0232	0279		
PANASONIC	0141	0178	0241	0265
PATHE CINEMA	0231	0253	0335	
PAUSA	0024			
PERDIO	0335			
PHILCO	0102	0262		
PHILIPS	0052	0102	0389	0571
PHOENIX	0102			
PHONOLA	0052	0102		
PIONEER	0124	0178	0302	
PROFEX	0024	0376		
PROLINE	0336			
PROTECH	0024	0052	0117	0232
	0262	0279	0433	
QUELLE	0025	0026	0052	0215
	0342	0343	0376	0527
R-LINE	0052			
PADIOLA	0052			
RADIOMARELLI	0102			
REDIFFUSION	0376			
REVOX	0052			
REX	0178	0221	0279	
RFT	0102			
ROADSTAR	0024	0233	0279	0433
SABA	0090	0102	0124	0178
	0302	0350	0358	
SACCS	0253			
SAISHO	0024	0026	0279	
SALORA	0178	0364	0374	0376
	0563			
SAMBERS	0177			
SAMSUNG	0024	0052	0105	0232
	0279	0385	0571	
SANDRA	0231			
SANYO	0026	0087	0172	0223

**Setup code table (for U.K.) (continued)****TV (continued)**

BRAND	Setup codes			
SBR	0052			
SCHAUB LORENZ	0376			
SCHNEIDER	0052	0233	0262	0386
	0409			
SEG	0232	0279		
SEI	0102	0117	0309	
SEI-SINUDYNE	0025			
SELECO	0178	0221		
SENTRA	0050			
SHARP	0108			
SHORAI	0309			
SIAREM	0102	0117		
SIEMENS	0052	0172	0206	0210
	0215	0342	0343	
SINGER	0102			
SINUDYNE	0102	0117	0309	
SOLAVOX	0178			
SONITRON	0223			
SONOKO	0024	0052		
SONOLOR	0178	0223		
SONTEC	0052			
SONY	0025	0026		
SOUNDWAVE	0052	0433		
STANDARD	0024	0232	0233	
STERN	0178	0221		
SUNKAI	0309	0336		
SUSUMU	0233			
SYSLINE	0052			
TANDY	0087	0178	0232	0233
TASHIKO	0232	0374		
TATUNG	0052	0087	0232	
TEC	0232	0262		
TECHNEMA	0335			
TECHNICS	0265			
TELEAVIA	0358			
TELEFUNKEN	0124	0350	0358	
TELEMEISTER	0335			
TELETECH	0024			
TELETON	0221	0232	0364	
TENSAI	0233	0309	0332	0335
TEXTET	0231	0233		
THOMSON	0124	0302	0358	0364
	0414			
THORN	0050	0052	0087	0358
	0376	0527		
TOMASHI	0297			
TOSHIBA	0050			
UHER	0221	0335		
ULTRAVOX	0117			
UNIVERSUM	0052	0279	0385	
VESTEL	0052			
VIDEOSAT	0262			
VIDEOTECHNIC	0232			
VISION	0335			
VOXSON	0102	0178		
WALTHAM	0232			
WATSON	0052	0335		
WATT RADIO	0117			
WEGA	0102			
WHITE	0052	0231	0335	
WESTINGHOUSE				
YOKO	0052	0232	0279	
ZANUSSI	0221			

**VCR**

BRAND	Setup codes			
AIWA	0015	0363		
AKAI	0056	0121	0330	
AKIBA	0087			
ALBA	0035	0087	0224	0293
	0330			
AMBASSADOR	0035			
AMSTRAD	0015	0293		
ANITECH	0087			
ASA	0052	0096		
ASUKA	0052			
BAIRD	0015	0056	0119	
BASIC LINE	0035	0087	0293	
BLAUPUNKT	0021	0049	0177	0210
	0241	0242		
BLUE SKY	0293			
BRANDT	0202	0335	0336	
BRANDT ELECTRONI	0056			
BUSH	0087	0224	0293	
CATRON	0035			
CGE	0015			
CIMLINE	0087			
CLATRONIC	0035			
CONDOR	0035			
CROWN	0035	0087	0293	
CYRUS	0096			
DAEWOO	0035	0293		
DANSAI	0087			
DE GRAAF	0057	0181		
DECCA	0015	0096		
DENON	0057			
DUAL	0056			
DUMONT	0015	0096	0119	
ELCATECH	0087			
ESC	0255	0293		
FERGUSON	0056	0335	0336	
FIDELITY	0015			
FINLANDIA	0096	0119		
FINLUX	0015	0057	0096	0119
FIRSTLINE	0052	0058	0060	0087
	0224			
FISHER	0061	0119		
FRONTECH	0035			
FUNAI	0015			
GEC	0096			
GENERAL	0035			
GOLDHAND	0087			
GOLDSTAR	0052	0240		
GOODMANS	0015	0035	0052	0087
	0293			
GRAETZ	0056	0119	0255	
GRANADA	0061	0096	0119	
GRANDIN	0015	0052	0087	
GRUNDIG	0021	0022	0087	0096
	0210	0222	0241	0362
HANSEATIC	0052			
HCM	0087			
HINARI	0019	0087	0255	
HITACHI	0015	0019	0056	0057
	0181	0255		
HYPSON	0087			
IMPERIAL	0015			
INGERSOL	0019			
INTERFUNK	0096			
ITT	0056	0061	0119	0121
	0255	0399		
ITV	0052	0293		
JVC	0056	0082	0222	0399
KAISUI	0087			
KENDO	0121	0224		
KENWOOD	0056			

BRAND	Setup codes			
KORPEL	0087			
LENCO	0293	0087		
LOEWE	0019	0021	0052	0096
	0177			
LOGIK	0019	0255		
LUXOR	0058	0061	0063	0119
	0121			
M ELECTRONIC	0015			
MANESTH	0060	0087		
MARANTZ	0021	0096		
MATSUI	0019	0224	0363	
MEMOPHIS	0087			
MEMOREX	0015	0052	0061	0119
METZ	0021	0052	0177	0210
	0242	0362		
MINERVA	0021	0210		
MITSUBISHI	0058	0082	0096	
MULTITECH	0015	0087		
MURPHY	0015			
NEC	0056	0082		
NECKERMANN	0096			
NESCO	0087			
NOKIA	0056	0061	0119	0121
	0255			
NORDMENDE	0056	0335	0336	0399
OCEANIC	0015	0056		
OKANO	0330	0363		
ORION	0019	0224	0363	
OSAKI	0015	0052	0087	
OTTO VERSAND	0096			
PALLADIUM	0021	0052	0056	0087
PANASONIC	0177	0241	0242	0631
PATHE MARCONI	0056			
PENTAX	0057			
PERDIO	0015			
PHILIPS	0096	0399		
PHONOLA	0096			
PIONEER	0082	0096		
PORTLAND	0035			
PROFEX	0337			
PROFITRONIC	0255			
PROLINE	0015			
PYE	0096			
QUARTZ	0061			
QUELLE	0096			
RADIOLA	0096			
REPLAYTV	0629	0631		
REX	0056	0399		
ROADSTAR	0052	0087	0255	0293
SABA	0056	0222	0335	0336
	0399			
SAISHO	0019	0244		
SALORA	0058	0061	0121	
SAMSUNG	0255	0447		
SANSUI	0056	0082		
SANYO	0061	0119		
SBR	0096			
SCHAUB LORENZ	0015	0056	0119	
SCHNEIDER	0015	0087	0096	
SEG	0255	0337		
SEI	0019	0096		
SELECO	0056			
SENTRA	0035			
SHARP	0063			
SHINTOM	0087	0119		
SHORAI	0019			
SIEMENS	0021	0052	0096	0119
	0210			
SILVA	0052			
SINGER	0060			

## Setup code table (for U.K.) (continued)

### VCR (continued)

BRAND	Setup codes			
SINUDYNE	0019	0096		
SOLAVOX	0035			
SONOLOR	0061			
SONTEC	0052			
SONY	0047	0048	0049	
SUNKAI	0363			
SUNSTAR	0015			
SUNTRONIC	0015			
TASHIKO	0015			
TATUNG	0015	0056	0096	
TEC	0035			
TECHNICS	0177	0241		
TELEAVIA	0056			
TELEFUNKEN	0056	0202	0335	0336
	0399			
TENOSAL	0087			
TENSAI	0015	0337		
THOMSON	0056	0335	0399	
THORN	0056	0119		
TIVO	0633			
TOSHIBA	0056	0058	0060	0096
	0399			
TOWADA	0337			
UHER	0255			
UNIVERSUM	0015	0021	0052	0096
	0121	0210	0255	
YAMISHI	0087			
YOKAN	0087			
YOKO	0035	0255		

### CABLE

BRAND	Setup codes			
BIRGMINGHAM	0291			
CABL				
BRITISH TELECOM	0018	0120		
DECSAT	0438			
JERROLD	0018	0291		
PVP STEREO VISUA	0018			
SCIENTIFIC ATLAN	0023	0292		
UNITED CABLE	0018			
WESTMINSTER	0120			

### SATELLITE

BRAND	Setup codes			
AKAI	0530			
ALBA	0377	0436	0470	0530
	0628			
ALDES	0303			
AMSTRAD	0095	0267	0360	0476
	0516			
ANKARO	0235	0303	0384	
ANTTRON	0198	0436		
ARMSTRONG	0258			
AST	0366			
ASTRA	0123			
ASTRO	0188	0516		
AVALON	0411			
AXIS	0384			
BEST	0384			
BLAUPUNKT	0188			
BOCA	0258	0528		
BT	0530	0683		
BUSH	0082			
CAMBRIDGE	0359	0530		
CHANNEL MASTER	0377			
COMMLINK	0303			
CONNEXIONS	0411			
CONRAD	0622			
CROWN	0258			
CYRUS	0215			
DDC	0377			
DNT	0215	0411		
EHOSTAR	0411	0728		
EMANON	0436			
FERGUSON	0082	0198	0351	
FIDELITY	0267			
FINLUX	0123	0359	0470	
FREECOM	0436			
FUBA	0384	0411	0436	
GALAXIS	0303			
GOODING	0586			
GRUNDIG	0188	0586	0765	
G-SAT	0198			
HINARI	0198			
HIRSCHMANN	0188	0516	0588	
HITACHI	0470			
HOUSTON	0683			
HUTH	0235	0258	0303	
INTERVISION	0607			
ITT	0123			
JVC	0530	0586		
KATHREIN	0107	0188	0215	0457
	0519	0673		
KREISELMAYER	0188			
KYOSTAR	0436			
LA SAT	0528	0622		
LENCO	0436			
LENNOX	0607			
LUPUS	0384			
LUXOR	0123	0588		
MANHATTAN	0470	0607		

### SATELLITE (continued)

BRAND	Setup codes			
MARANTZ	0215			
MASPRO	0107	0351	0765	
MATSUI	0359	0586		
METIAMARKT	0258			
MORGAN'S	0258	0528		
NEUHAUS	0516			
NEUHAUS	0235			
NIKKO	0375	0728		
NOKIA	0123	0470	0588	
NORDMENDE	0377			
NUBERVA	0586			
ORBITECH	0516			
OXFORD	0359			
PACE	0082	0198	0351	0470
	0806			
PALLADIUM	0586			
PALSAT	0516			
PANDA	0470			
PHILIPS	0215	0307	0470	0586
	0765			
PHONOTREND	0303	0607		
PROMAX	0470			
PROSAT	0303			
QUADRAL	0377	0643		
RADIOLA	0215			
RADIX	0411			
RFT	0215	0235	0303	
SABA	0351			
SABRE	0470			
SALORA	0123			
SAT	0366	0476		
SATEC	0198			
SATPARTNER	0436			
SCHWAIGER	0198	0519		
SEEMANN	0411			
SEG	0384	0436		
SIEMENS	0188			
SKYMASTER	0303	0643	0728	
SM ELECTRONIC	0728			
SUNSTAR	0528			
TANTEC	0351	0470		
TECHNISAT	0277	0516		
TELEFUNKEN	0436			
TELEKA	0258	0628		
THOMSON	0470			
TONNA	0683			
TRIAD	0366			
TRIASAT	0516			
UNIVERSUM	0188	0586		
VENTANA	0215			
VORTEC	0436			
VTECH	0366			
WISI	0188	0366	0411	0470



**Setup code table (for U.S.A., Canada and other countries)****TV**

BRAND	Setup codes			
ADMIRAL	0108	0478		
AIKO	0107			
AKAI	0045			
ALARON	0194			
AMERICA ACTION	0195			
AMPRO	0766			
ANAM	0195			
AOC	0034	0045		
AUDIOVOX	0107	0195	0466	
BAYSONIC	0195			
BELCOR	0034			
BELL & HOWELL	0031	0169		
BRADFORD	0195			
BROCKWOOD	0251	0478		
CANDLE	0045	0071		
CARNIVALE	0045			
CARVER	0069			
CELEBRITY	0015			
CINERAL	0107	0466		
CITIZEN	0045	0071	0075	0107
CONCERTO	0071			
CONTEC	0195			
CRAIG	0195			
CROSLEY	0069			
CROWN	0195			
CURTIS MATHES	0031	0045	0062	0066
	0069	0071	0075	0108
	0160	0169	0181	0466
	0481	1162	1362	
CXC	0195			
DAEWOO	0034	0107	0466	
DAYTRON	0034			
DENON	0160			
DUMONT	0032	0034		
DWIN	0735	0789		
ELECTROBAND	0015			
EMERSON	0034	0169	0193	0194
	0195	0251	0297	0478
ENVISION	0045			
FISHER	0169			
FUJITSU	0194	0698		
FUNAI	0186	0194	0195	
FUTURETECH	0195			
GE	0036	0062	0066	0108
	0193	0297	0466	1162
	1362			
GIBRALTER	0032	0034	0045	
GRADIENTE	0068	0071		
GRUNPY	0194	0195		
HALLMARK	0193			
HARLEY DAVIDSON	0194			
HARMAN/KARDON	0069			
HARVARD	0195			
HITACHI	0031	0071	0160	
INFINITY	0069			
INTEQ	0032			
JBL	0069			
JCB	0015			
JVC	0068			
KEC	0195			
KENWOOD	0034	0045		
KTV	0045	0195		

BRAND	Setup codes			
LG(GOLDSTAR)	0034	0045	0071	0193
LOGIK	0031			
LUXMAN	0071			
LXI	0062	0069	0169	0171
	0193			
MAGNAVOX	0045	0069	0194	
MAJESTIC	0031			
MARANTZ	0045	0069		
MATSUSHITA	0265			
MEGATRON	0160	0193		
MEMOREX	0031	0071	0165	0169
	0193	0265	0478	
MGA	0034	0045	0165	0193
MIDLAND	0032	0062	0066	
MINUTZ	0036			
MITSUBISHI	0034	0108	0165	0193
MOTOLORA	0108			
MTC	0034	0045	0071	0075
MULTITECH	0195			
NAD	0171	0181	0193	
NEC	0034	0045	0071	
NIKKO	0045	0107	0193	
NTC	0107			
ONWA	0195			
OPTIMUS	0169	0181	0265	
OPTONICA	0108	0180		
ORION	0194	0251	0478	
PANASONIC	0034	0036	0045	0062
	0066	0071	0075	0171
	0193	1362		
PHILCO	0034	0045	0069	0160
	0478			
PHILIPS	0069			
PILOT	0034	0045		
PIONEER	0181			
PORTLAND	0034	0107		
PRISM	0066			
PROSCAN	0062			
PROTON	0193	0481		
PULSAR	0032	0034		
QUASAR	0066	0180	0265	
RADIOSHACK	0034	0045	0062	0071
	0169	0180	0193	0195
RCA	0034	0062	0066	0105
	0108	1062	1162	1262
	1362	1462		
REALISTIC	0034	0045	0071	0169
	0180	0193	0195	
RUNCO	0032	0045		
SAMPO	0045			
SAMSUNG	0034	0045	0071	0075
	0193			
SANSEI	0466			
SANSUI	0478			
SANYO	0169			
SCIMITSU	0034			
SCOTCH	0193			
SCOTT	0034	0193	0194	0195
	0251			
SEARS	0062	0069	0071	0169
	0171	0186	0193	0194
SEMIVOX	0195			

BRAND	Setup codes			
SEMP	0171			
SHARP	0108	0180		
SHOGUN	0034			
SIGNATURE	0031			
SONY	0015			
SOUNDESIGN	0193	0194	0195	
SSS	0034	0195		
STARLITE	0195			
SUPREME	0015			
SQUAREVIEW	0186			
SYLVANIA	0045	0069		
SYMPHONIC	0186			
TANDY	0108			
TECHNICS	0066	0265		
TECHNOL ACE	0194			
TECHWOOD	0066	0071		
TEKNIKA	0031	0034	0069	0071
	0180	0193	0194	
TMK	0071	0193		
WHITE WESTINGHOUSE	0478			
YAMAHA	0034	0045		
ZENITH	0031	0032	0107	0478

**Setup code table (for U.S.A., Canada and other countries) (continued)****VCR**

BRAND	Setup codes			
ADMIRAL	0063	0224		
AIKO	0293			
AIWA	0015	0052		
AKAI	0056	0064	0068	
AMERICA ACTION	0293			
AMERICAN HIGH	0050			
ASHA	0255			
AUDIOVOX	0052			
BEAUMARK	0255			
BELL & HOWELL	0119			
BROCKSONIC	0224			
BROKSONIC	0017	0136	0199	0224
	0376			
CALIX	0052			
CANON	0050			
CARVER	0096			
CCE	0087	0293		
CINERAL	0293			
CITIZEN	0052	0293		
COLT	0087			
CRAIG	0052	0062	0087	0255
CURTIS-MATHES	0050	0056	0075	0177
CYBERNEX	0066	0255		
DAEWOO	0060	0293		
DENON	0057			
DYNATECH	0015			
ELECTROHOME	0052			
ELECTROPHONIC	0052			
EMEREX	0047			
EMERSON	0015	0017	0051	0052
	0058	0083	0103	0136
	0199	0224	0293	0376
FISHER	0062	0069	0119	
FUJI	0048	0050		
FUNAI	0015			
GARRARD	0015			
GE	0050	0063	0075	0255
GRADIENTE	0015	0023		
HARLEY DAVIDSON	0015			
HARMAN KARDON	0053	0096		
HARWOOD	0083	0087		
HEADQUARTER	0061			
HI Q	0062			
HITACHI	0015	0056	0057	0097
	0181			
HUGHES NETWORK SYSTEMS	0057			
JENSEN	0056			
JVC	0023	0056	0082	
KEC	0052	0293		
KENWOOD	0053	0056	0082	
KLH	0087			
KODAK	0050	0052		
LG (GOLDSTAR)	0052	0053		
LLYOD'S	0015			
LOGIK	0087			
LXI	0052			
MAGGIN	0255			
MAGNASONIC	0293			
MAGNAVOX	0015	0050	0054	0096
MARANTZ	0050	0096		
MARTA	0052			

BRAND	Setup codes			
MATSUSHITA	0050	0177		
MEI	0050			
MEMOREX	0015	0050	0052	0054
	0061	0062	0063	0119
	0177	0224	0255	1052
	1177	1277		
MGA	0058	0255		
MGN TECHNOLOGY	0255			
MINOLTA	0057			
MITSUBISHI	0058	0063	0082	
MOTOROLA	0050	0063		
MTC	0015	0255		
MULTITECH	0015	0087		
NAD	0073			
NEC	0053	0055	0056	0082
	0097	0119		
NIKKO	0052			
NIKON	0049			
NOBLEX	0255			
OLYMPUS	0050			
OPTIMUS	0052	0063	0073	0119
	0177	1063	1077	1177
	1277			
ORION	0017	0199	0224	
PANASONIC	0050	0177	0631	1077
	1177	1277		
PENNEY	0050	0052	0053	0055
	0057	0069	0255	
PENTAX	0057			
PHILCO	0050	0224		
PHILIPS	0050	0096	0633	
PILOT	0052			
PIONEER	0073	0082		
PROFITRONIC	0255			
PROSCAN	0075			
PROTEC	0087			
PULSAR	0054	0066		
QUARTER	0061			
QUARTZ	0061			
QUASAR	0050	0177	1177	
RADIO SHACK	0015	1052		
RADIX	0052			
RANDEX	0052			
RCA	0050	0057	0063	0075
	0255			
REALISTIC	0015	0050	0052	0061
	0062	0063	0119	
REPLAYTV	0629	0631		
RICOH	0049			
RUNCO	0054			
SAMSUNG	0060	0066	0068	0255
SANKY	0054	0063		
SANSUI	0015	0056	0082	0097
	0224			
SANYO	0061	0062	0119	0255
SCOTT	0058	0060	0136	0199
SEARS	0015	0050	0052	0057
	0061	0062	0069	0119
SEMP	0060			
SHARP	0063			
SHINTOM	0087			
SHOGUN	0066	0255		

BRAND	Setup codes			
SINGER	0087			
SONY	0015	0047	0048	0049
	0050			
STS	0057			
SYLVANIA	0015	0050	0058	0096
SYMPHONIC	0015			
TATUNG	0056			
TEAC	0015	0056		
TECHNICS	0050	0177		
TEKNIKA	0015	0050	0052	0067
THOMAS	0015			
TIVO	0633			
TMK	0051	0255		
TOSHIBA	0058	0060		
TOTEVISION	0052	0255		
UNITECH	0255			
VECTOR	0060			
VECTOR RESEARCH	0053	0055		
VIDEO CONCEPTS	0055	0060		
VIDEOSONIC	0255			
WARDS	0015	0050	0057	0062
	0063	0075	0087	0096
	0255			
WHITE	0224	0293		
WESTINGHOUSE				
XR-1000	0015	0050	0087	
YAMAHA	0053			
ZENITH	0015	0048	0049	0054
	0224			

**Setup code table (for U.S.A., Canada and other countries) (continued)****CABLE**

BRAND	Setup codes			
ABC	0018	0023	0026	0028
	0029	0048	0062	
BELL&HOWELL	0029			
COMBAND	0247			
COMTRONICS	0055			
CONTEC	0034			
ELECTRICORD	0093			
EVERQUEST	0030	0055		
GE	0247			
GEMINI	0030			
GENERAL	0026	0291	0491	
INSTRUMENTS				
HITACHI	0026			
JASCO	0030			
JERROLD	0018	0026	0027	0029
	0030	0062	0291	
LG(GOLDSTAR)	0055	0159		
MACOM	0048			
MEMOREX	0015			
MOVIE TIME	0078	0093		
NSC	0078			
OAK	0034	0263		
OPTIMUS	0036			
PANASONIC	0015	0036	0122	
PARAGON	0015			
PHILIPS	0305			
PIONEER	0038	0159	0548	0892
PULSAR	0015			
QUASAR	0015			
RADIOSHACK	0030			
RCA	0036			
REMBRANDT	0026			
RUNCO	0015			
SAMSUNG	0055	0159		
SCIENTIFIC ATLANTA	0023	0292	0492	0892
SIGNAL	0030	0055		
SIGNATURE	0026			
SL MARX	0055			
SPRUCER	0036			
STARCOM	0030	0055		
STARQUEST	0030			
TELEVIEW	0055			
TIMELESS	0433			
TOCOM	0027	0028		
TOSHIBA	0015			
TUSA	0030			
TV86	0078			
UNIVERSAL	0093	0206		
VIDEOWAY	0265			
VIEWSTAR	0078	0304		
ZENITH	0015	0540	0914	

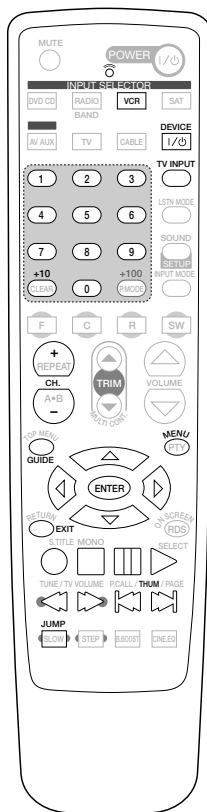
**SATELLITE**

BRAND	Setup codes			
ALPHASTAR	0787			
AMWAY	0090			
CABLE INNOVATIONS	0569			
CHANNEL MASTER	0033			
CHAPARRAL	0068	0224		
CURTIS MATHES	0076			
DRAKE	0033	0081	0164	0165
DX ANTENNA	0056			
EHOSTAR	0163	0284	0295	0790
EXPRESVU	0790			
GENERAL	0053	0065	0376	0569
INSTRUMENTS	0642	0884		
HITACHI	0834			
HTS	0790			
HUGHES NETWORK	0764			
SYSTEMS				
IQ	0225			
IQ PRISM	0225			
JERROLD	0051	0376	0642	
JVC	0790			
KEMWOOD	0279			
LEGEND	0284			
MACOM	0033	0065	0076	
MAGNAVOX	0737	0739		
MEMOREX	0284	0739		
NEXT LEVEL	0884			
PANASONIC	0716			
PHILIPS	0737	0739		
PICO	0090			
PRIMESTAR	0376	0642		
RADIOSHACK	0569	0884		
RAMSEY	0090			
RCA	0158	0407	0581	0870
REALISTIC	0067			
SONY	0654			
STAR CHOICE	0884			
STAR TRAK	0195			
STARCAST	0057			
STS	0056	0225		
TOSHIBA	0076	0097	0805	
UNIDEN	0067	0089	0091	0569
	0737	0739		
ZENITH	0076	0871		

# Keys which can be used to operate connected devices

Operation of the dark-colored keys in the figure is possible.

## VCR

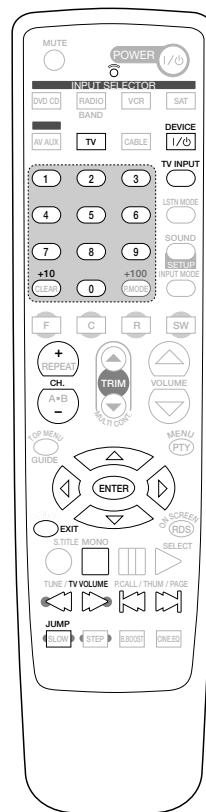


(Operation keys differing from the indication)

TV INPUT : TV/VCR

⏮ ⏭ : THUM B +/-

## TV



(Operation keys differing from the indication)

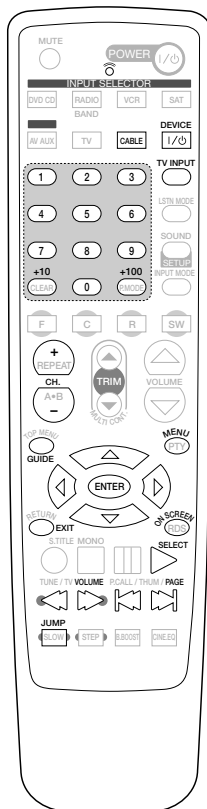
TV INPUT : TV/VCR

STOP : MUTE

⏮ ⏭ : FF/REW

⏪ ⏩ : VOLUME +/-

## CABLE



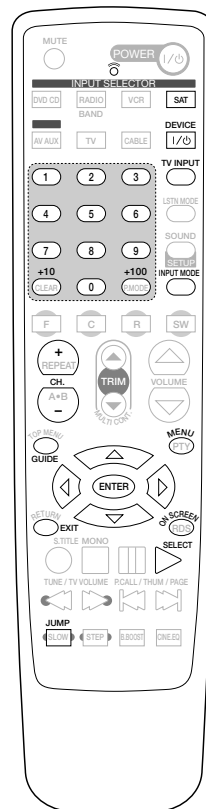
(Operation keys differing from the indication)

TV INPUT : INPUT

⏮ ⏭ : PAGE +/-

⏪ ⏩ : VOLUME +/-

## SAT



(Operation keys differing from the indication)

TV INPUT : INPUT

## 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

What seems to be a malfunction is not always so. Before calling for service, check the following table according to the symptom of your trouble.

### Operation to reset

The microcomputer 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 microcomputer and return it to normal condition.

**Set the POWER switch to ON (set to Standby mode). Then press the ►►| key, |◄◄ key and STOP key in this order.**

- Please note that resetting the microcomputer clears the contents stored in and returns and to condition when it left the factory.

### Receiver, speakers

Symptom	Cause	Remedy
<b>Sound is not produced.</b>	<ul style="list-style-type: none"> <li>● The speaker cords are disconnected.</li> <li>● The <b>MUTE</b> switch of remote control unit is switched ON.</li> <li>● The headphone plug is inserted into the jack.</li> </ul>	<ul style="list-style-type: none"> <li>● Connect properly referring to "System connection". → </li> <li>● Switch <b>MUTE</b> OFF. → </li> <li>● Unplug the headphone plug. → </li> </ul>
<b>Sound is not produced from the left or right speakers.</b>	<ul style="list-style-type: none"> <li>● The speaker cords are disconnected.</li> </ul>	<ul style="list-style-type: none"> <li>● Connect properly referring to "System connection". → </li> </ul>
<b>Radio stations cannot be received.</b>	<ul style="list-style-type: none"> <li>● The antennas have not been connected.</li> <li>● A proper broadcasting band has not been selected.</li> <li>● The frequency of the station to be received is not tuned.</li> </ul>	<ul style="list-style-type: none"> <li>● Connect antennas. → </li> <li>● Select a band. → </li> <li>● Tune to the frequency of the desired station. → </li> </ul>
<b>Noise interferes.</b>	<ul style="list-style-type: none"> <li>● Car ignition noise.</li> <li>● Influence of an electric appliance.</li> <li>● A TV set is installed near the system.</li> </ul>	<ul style="list-style-type: none"> <li>● Install the outdoor antenna in an apart position from the road. → </li> <li>● Switch the suspected electric appliance OFF.</li> <li>● Install the TV or the system at an increased distance between them. → </li> </ul>
<b>A station has been preset but it cannot be received by pressing the P.CALL key.</b>	<ul style="list-style-type: none"> <li>● The frequency of the preset station is not tunable.</li> <li>● The preset memory has been cleared because the power cord has been unplugged for a long period.</li> </ul>	<ul style="list-style-type: none"> <li>● Preset stations with tunable frequencies.</li> <li>● Preset stations again. → </li> </ul>
<b>The STANDBY indicator flashes red.</b>	<ul style="list-style-type: none"> <li>● The speaker connection is abnormal.</li> </ul>	<ul style="list-style-type: none"> <li>● Check the speaker connection.</li> <li>● Check the speaker connection. If this does not help, contact your dealer for service.</li> </ul>
<b>No sound from the surround speakers</b>	<ul style="list-style-type: none"> <li>● The LISTEN mode is STEREO.</li> </ul>	<ul style="list-style-type: none"> <li>● Select Surround with the <b>LSTN MODE</b> key. → </li> </ul>

**Remote control unit**

Symptom	Cause	Remedy
<b>Remote control operation is not possible.</b>	<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> <li>● There is no disc set in the component to be played.</li> </ul>	<ul style="list-style-type: none"> <li>● Replace with new batteries. → 17</li> <li>● Operate the unit inside the remote controllable range. → 17</li> <li>● Set a disc in the component to be played. → 25</li> </ul>
	<ul style="list-style-type: none"> <li>● <b>Operation has been performed with the keys of the main unit.</b></li> <li>● <b>A nonfunctional key has been pressed</b></li> </ul>	<ul style="list-style-type: none"> <li>● <b>Perform operation after once pressing the key for the input or device to be operated.</b> → 18</li> </ul>


**DVD / CD player unit**

Symptom	Cause	Remedy
<b>Playback does not start when the play (▶/II) key is pressed.</b>	<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 (▶/II) key. → 25</li> <li>● Turn the disc over and properly place it on the disc tray. → 25</li> </ul>
<b>Playback starts but no image/sound is seen/heard.</b>	<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. → 14</li> </ul>
<b>The picture is disrupted when the image is fast forwarded or fast reversed.</b>	<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>
<b>No sound is heard.</b>	<ul style="list-style-type: none"> <li>● The volume control of this set is not adjusted properly.</li> <li>● The player is in a special playback mode.</li> </ul>	<ul style="list-style-type: none"> <li>● Set the sound volume to an appropriate level. → 18</li> <li>● Press the play (▶/II) key to resume normal playback mode. → 25</li> </ul>
<b>The picture does not look good or the picture/sound quality is poor.</b>	<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. → 8</li> <li>● Use a new disc.</li> <li>● Refer to the "Caution on condensation" section and evaporate the condensation. → 7</li> </ul>
<b>It takes a while for the disc to start playing.</b>	<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>
<b>The top and bottom of the screen cannot be seen.</b>	<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 "Examples of TV screen display of each video format" section, and use a disc with the appropriate video format for your TV or a TV with the appropriate video format for the disc. → 10</li> </ul>
<b>A VCD cannot be played using menus.</b>	<ul style="list-style-type: none"> <li>● The VCD disc being played is not compatible with P.B.C.</li> </ul>	<ul style="list-style-type: none"> <li>● Menu playback is available only with VCD discs recorded with P.B.C. → 37</li> </ul>
<b>The subtitle is not displayed.</b>	<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>S.TITLE</b> key to switch on the subtitle mode. → 29</li> </ul>
<b>The voice (or subtitle) language cannot be changed.</b>	<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>

## DVD / CD player unit

Symptom	Cause	Remedy
<b>The viewing angle cannot be changed.</b>	<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. → <a href="#">30</a></li> <li>● More than one viewing angle may be recorded only in limited sections in a disc.</li> </ul>
<b>A disc can not be played although the region code is displayed as [ALL].</b>	<ul style="list-style-type: none"> <li>● Some discs can not be played in all regions even when [ALL] is displayed.</li> </ul>	<ul style="list-style-type: none"> <li>● Play a different disc.</li> </ul>
<b>Playback will not start even after a title is selected.</b>	<ul style="list-style-type: none"> <li>● A viewing restriction (Parental level) has been set for the disc.</li> </ul>	<ul style="list-style-type: none"> <li>● Check the viewing restriction level (Parental level) setting. → <a href="#">44</a></li> </ul>
<b>The viewing restriction level (RATING) cannot be changed.</b>	<ul style="list-style-type: none"> <li>● You have forgotten the viewing restriction (Parental) password.</li> </ul>	<ul style="list-style-type: none"> <li>● Set the initial setup to the factory setup with the following procedure. With no disc in the unit, press the <b>PLAY/PAUSE</b> (▶/  ) key. After "NO DISC" is displayed, press the <b>DVD CD</b> key, cursor ▶ key, ◀ key, ▼ key, ▲ key on the remote and I◀◀ key on the main unit in this order. Press the <b>POWER</b> switch to <b>OFF</b> and press the <b>POWER</b> switch again to <b>ON</b>.</li> </ul>
<b>The voice or subtitle language selected in the initial setting is not played.</b>	<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. → <a href="#">43</a></li> </ul>
<b>No message appears on the TV screen after a key is pressed.</b>	<ul style="list-style-type: none"> <li>● The function for displaying message on the TV screen is set to off.</li> </ul>	<ul style="list-style-type: none"> <li>● Set On-screen function to on. → <a href="#">27</a></li> </ul>
<b>Menu screen messages are not shown in the desired language.</b>	<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. → <a href="#">44</a></li> </ul>

## Inhibition icon

Symptom	Cause	Remedy
 <b>The inhibition icon is displayed and remote control is not possible.</b>	<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. → <a href="#">11</a></li> </ul>

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## Main unit

### [ Amplifier section ]

Effective output power during STEREO operation	
1 kHz, 10 % T.H.D. at 6 Ω	40 W + 40 W
Effective output power during SURROUND operation	
Front (1 kHz, 10 % T.H.D. at 6 Ω)	40 W + 40 W
Center (1 kHz, 10 % T.H.D. at 6 Ω)	40 W
Subwoofer (1 kHz, 10 % T.H.D. at 6 Ω)	40 W
Surround (1 kHz, 10 % T.H.D. at 6 Ω)	40 W + 40 W
Input sensitivity / impedance	
VCR / SAT / AV AUX	600 mV / 68 kΩ
Output level / impedance	
VCR	600 mV / 470 Ω

### [ Tuner section ]

FM tuner section	
Tuning frequency range	87.5 MHz ~ 108 MHz
AM Tuner section	
Tuning frequency range (for U.K., Europe and Australia)	531 kHz ~ 1,602 kHz
Tuning frequency range (for U.S.A. and Canada)	530 kHz ~ 1,700 kHz
Tuning frequency range (for other countries)	531 kHz ~ 1,602 kHz / 530 kHz ~ 1,700 kHz

### [ DVD/CD/VIDEO CD player section ]

Laser	Semiconductor laser
Wow & Flutter	Less than unmeasurable Limit
Video output format (for U.S.A. and Canada)	NTSC
Video output format (for other countries)	NTSC/PAL
VIDEO OUTPUT	
Composite video output level/impedance	1 Vp-p (75 Ω)
S-video output	
Y output level/impedance	1 Vp-p (75 Ω)
C output level/impedance	
NTSC	0.286 Vp-p (75 Ω)
PAL	0.3 Vp-p (75 Ω)
Component video output (only for some areas)	
Y output level/impedance	1 Vp-p (75 Ω)
C/b output level/impedance	0.7 Vp-p (75 Ω)
C/r output level/impedance	0.7 Vp-p (75 Ω)
Compression format	MPEG1/MPEG2

### [ DIGITAL AUDIO section ]

Sampling frequency	32 kHz, 44.1 kHz, 48 kHz
Input level/impedance/wave length	
Optical	-15 dBm ~ 21 dBm (660 nm ±30 nm)
Coaxial	0.6 Vp-p (75 Ω)
Digital output	-15 dBm ~ 21 dBm (Wave length 660 nm)

### [ General ]

Power consumption	120 W (for U.S.A. and Canada) 140 W (for U.K.) 140 W (for other countries)
Dimensions	W: 440 mm (17-5/16") H: 93 mm (3-11/16") D: 410 mm (16-1/8")
Weight (net)	8.5 kg

### KS-305DV Speakers (Front/Center) (for U.S.A and Canada)

Enclosure	Acoustic Air Suspension type (Magnetically shielded)
Speaker configuration	
Woofer	100 mm (4"), cone type
Tweeter	25 mm (1"), cone type
Impedance	6 Ω
Maximum input power	40 W (Front speakers) 30 W (Centre speaker)
Dimensions	W: 128 mm (5-1/16") H: 198 mm (7-13/16") D: 126 mm (4-15/16")
Weight (net)	1.1 kg (1 piece)

### KS-305DV Speakers (Surround) (for U.S.A and Canada)

Enclosure	Acoustic Air Suspension type (Magnetically shielded)
Speaker configuration	
Fullrange	100 mm (4"), cone type
Impedance	6 Ω
Maximum input power	30 W
Dimensions	W: 128 mm (5-1/16") H: 198 mm (7-13/16") D: 126 mm (4-15/16")
Weight (net)	0.8 kg (1 piece)

### SW-15DV Speaker (Subwoofer) (for U.S.A and Canada)

Enclosure	Bass-reflex type
Speaker configuration	
Woofer	200 mm (8"), cone type
Impedance	6 Ω
Maximum input power	50 W
Dimensions	W: 299 mm (11-3/4") H: 333 mm (13-1/8") D: 455 mm (17-15/16")
Weight (net)	7.0 kg

### KSW-7000 Speakers

#### (Front/Center/Rear) (for other countries)

Enclosure	Acoustic Air Suspension type (Magnetically shielded)
Speaker configuration	
Fullrange	50 mm, cone type
Impedance	6 Ω
Maximum input power	40 W
Dimensions	W: 70 mm H: 125 mm D: 108mm
Weight (net)	0.48 kg (Front speakers and Centre speaker) (1 piece) 0.36 kg (Surround speakers) (1 piece)

### KSW-7000 Speaker (Subwoofer) (for other countries)

Enclosure	Bass-reflex type (Magnetically shielded)
Speaker configuration	
Woofer	160 mm, cone type
Impedance	6 Ω
Maximum input power	40 W
Dimensions	W: 190 mm H: 400 mm D: 355 mm
Weight (net)	5.7 kg



1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. Sufficient performance may not be possible at very low temperatures (0°C or less).

**MEMO**

**MEMO**

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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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