KENWOOD

DVD HOME THEATER SYSTEM

DVT-6200

INSTRUCTION MANUAL

KENWOOD CORPORATION

B60-5386-08 00 (K/E/X) OC 03/04

Before applying power

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

Units are designed for operation as follows.

U.S.A. ..... ***AC 120V only***
Europe ..... ***AC 230 V only***
Australia ..... ***AC 240 V only***

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.

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.**
⚡	**THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.**
!	**THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.**

The marking of products using lasers

(For countries other than U.S.A. and U.S.-Military)

CLASS 1
LASER PRODUCT

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

CAUTION

VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO THE BEAM OR VIEW DIRECTLY WITH OPTICAL INSTRUMENTS.

DO NOT PRESS ON THIS SURFACE

Inside this laser product, a laser diode classified as Class 2 laser radiation is contained as alerted by the internal caution label shown above. Do not stare into beam or view directly with optical instruments.
Location: DVD laser pick-up unit cover inside this product

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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.

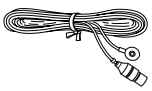
Accessories

Please confirm that the following accessories are present.

Accessories packed with the main unit

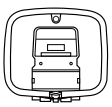
FM indoor antenna (1)

(For U.S.A.)

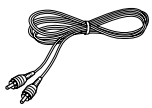


(For Europe and Australia)

Loop antenna (1)

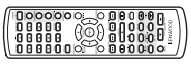


Video cord (1)

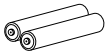


Speaker cords (6)

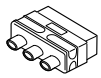
Remote control unit (1)



Batteries (R6/AA) (2)



SCART plug (1)
(for Europe only)



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

For the U.S.A.

Note to CATV system installer

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

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:

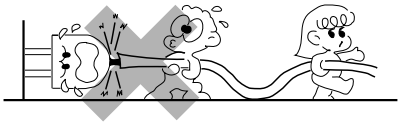
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to 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.

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.

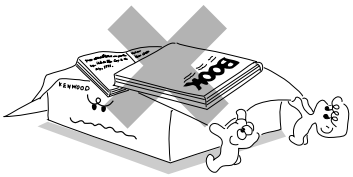
1. **Power sources** – The appliance should be connected to a power supply only of the type described in the instruction manual or as marked on the appliance. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For appliances intended to 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 table-cloth 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.

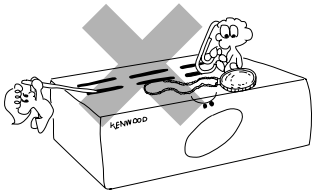


5. **Water and moisture** – The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

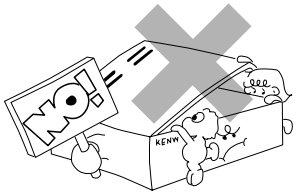
6. **Temperature** – The appliance may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F).

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.



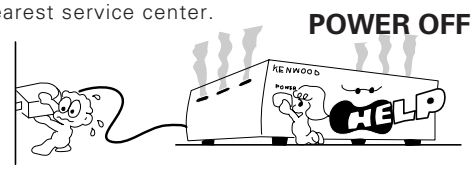
10. **Magnetic fields** – Keep the appliance away from sources of magnetic fields such as TV sets, speaker systems, radios, motorized toys or magnetized objects.

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

12. **Accessories** – Do not place this appliance on an unstable cart, stand, tripod, bracket, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the appliance. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

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

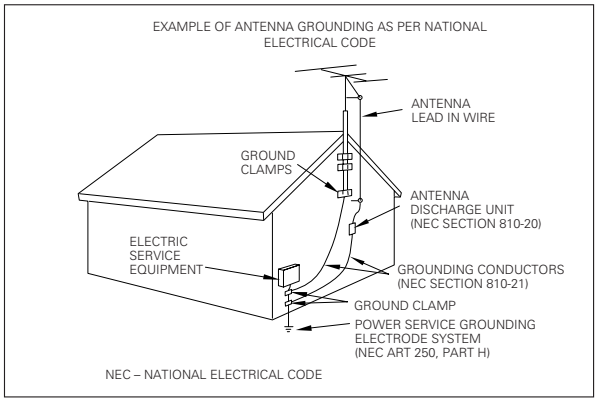
14. **Abnormal smell** – If an abnormal smell or smoke is detected, immediately turn the power OFF and unplug the appliance from the wall outlet. Contact your dealer or nearest service center.



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

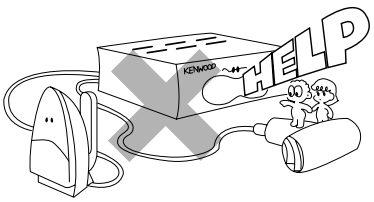
16. **Servicing** – The user should not attempt to service the appliance beyond that described in the instruction manual. All other servicing should be referred to qualified service personnel.

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



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

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



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

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

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

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

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

Maintenance

Maintenance of the unit

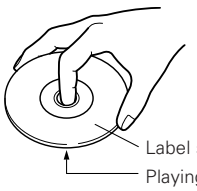
When the front panel or case becomes dirty, wipe with a soft, dry cloth. Do not use thinner, benzine, alcohol, etc. for these agents may cause discoloration.

In regard to contact cleaner

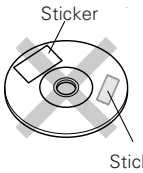
Do not use contact cleaners because it could cause a malfunction. Be specially careful not to use contact cleaners containing oil, for they may deform the plastic component.

Reference

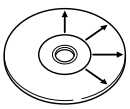
Disc handling precautions



Handling
Hold the disc 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 disc.



Cleaning
If there are fingerprint marks or foreign matter found on 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.

Discs which can be played with this unit

Use discs that comply with the IEC standard, for example a disc carrying the DIGITAL AUDIO marking on the label surface.

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 malfunction.

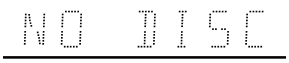
Disc accessories

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

Note related to transportation and movement

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

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



3. **Set the POWER ON/OFF switch to OFF.**

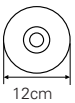
Caution on condensation

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 and restart the operation after the condensation has dried up.

Be specially cautious against condensation in the following circumstances:
When this unit is carried from one place to another across a large difference in temperature, when the humidity in the room where this unit is installed increases, etc.

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 VIDEO		CD (CD-R, CD-RW)		VCD (SVCD*)	
Logo mark on disc							
Disc size		8cm	12cm	8cm	 12cm	8cm	12cm
Played sides		One or both	One or both	One side only	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. 20 min.	Max. 74 min.
						(In case of an SVCD, the possible playback time becomes shorter.)	
	Audio			Max. 20 min., digital	Max. 80 min., digital		

MP3 media and JPEG picture CD those can be played back with this equipment (CD-R, CD-RW) →51

- *** This unit can play SVCDs, but some functions will not work.**
- **This unit can play DVD-R, DVD+R, DVD-RW, and DVD+RW discs, but depending on the recording unit, the disc manufacturer, etc., playback sometimes may not be possible.**
- **This unit may also be incapable of playing certain CD-R/RW discs depending on their properties, recording conditions, etc.**

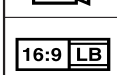
Unplayable discs

This player cannot play back any of the following discs.

DVD AUDIO discs
DVD-ROM discs
DVD-RAM discs
SACD discs
CD-ROM discs (Except MP3 and JPEG discs [ISO 9660 level 1])
VSD discs
CDV discs (Only the audio part can be reproduced.)
CD-G/CD-EG/CD-EXTRA discs (Only the audio can be reproduced.)
Photo CD discs (Never attempt to play them.)

- A DVD VIDEO disc with a region code which does not match this unit or without a region code. For details, see "**Region Codes**". →9
- When the video format of a disc differs from that of the TV in use, the disc cannot be played normally. For details, see "**Video Formats**". →10

Icons on the DVD VIDEO discs

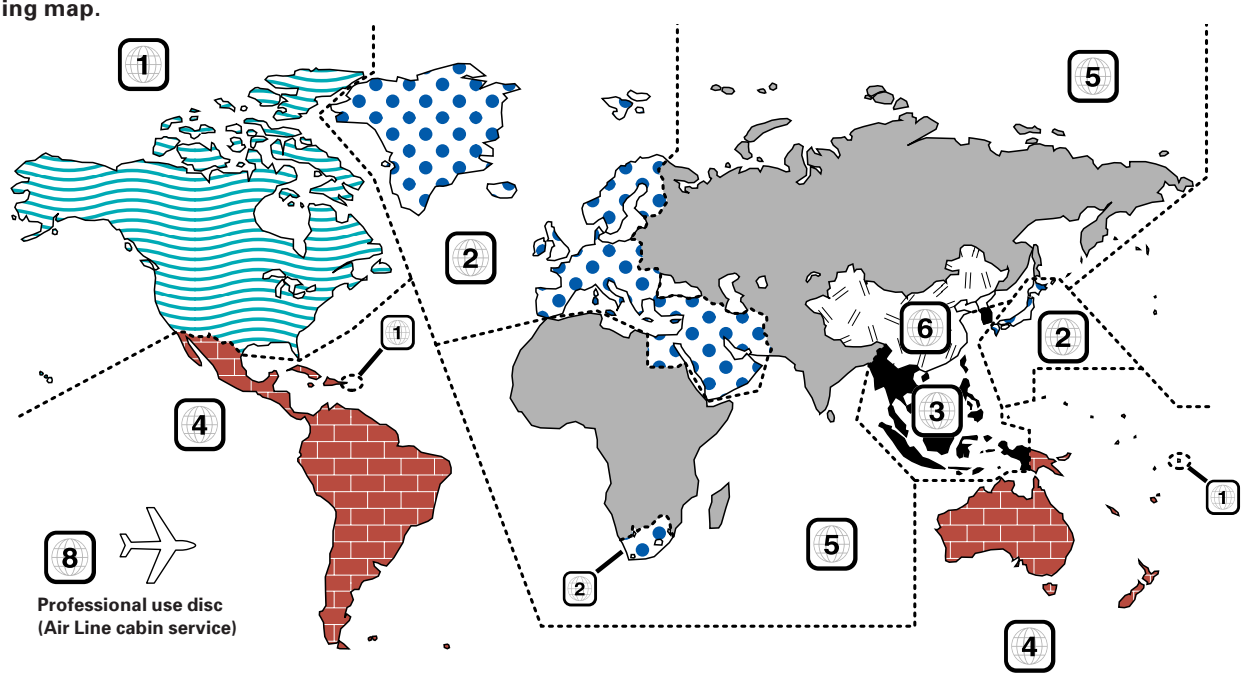
Icon	Description
	Indicates the region code where the disc can be played.
	Number of voice languages recorded with the audio function. The number in the icon indicates the number of voice languages. (Max. 8 languages)
	Number of subtitle languages recorded with the subtitle function. The number in the 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. "NORMAL/LB" stands for Letter Box and "NORMAL/PS" for Pan/Scan. →18 In the example on the left, the 16:9 video can be converted into letter box video.

Region Codes

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 VIDEO discs, it can only play the DVD VIDEO 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.



Region codes of the DVD VIDEO discs that can be played with this player

This player can play back a DVD VIDEO disc which carries the corresponding code to the region code of the player shown in the table above, a marking containing the region code of the player or the "ALL" marking shown below. Even when a DVD VIDEO disc does not carry any indication of the region code, it may sometimes unable to be played on this player due to certain restrictions.

ALL

Restrictions due to difference between discs

Some DVD and VCD 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

The TV picture display and disc signal systems can be divided roughly into two TV formats (NTSC and PAL).

They are variable depending on countries and areas.

TV formats of major countries

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

(For Europe and Australia)
This unit has a function for changing the video format according to the TV type. (→ 18) The initial setting of this unit for "TV Type" is PAL. Please confirm the type of your TV.

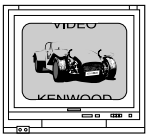
(For other countries)
This unit has a function for changing the video format according to the TV type. (→ 18) The initial setting of this unit for "TV Type" is NTSC. Please confirm the type of your TV.

Checking the Video Format ("Preparation for Set Up" → 18)

Check the video format of the TV to be useed

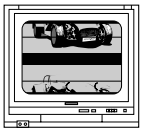
When the video formats are different :

Try playing the disc. If the video formats of the disc and TV do not match, the played video may be black and white or become as shown below.



Top and bottom edges are not displayed.

Top and bottom areas are dark.



Picture turbulence due to sync unmatching.

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

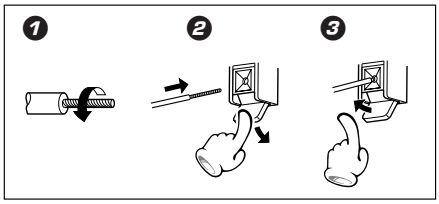
Caution:
Do not plug in the power lead until all connections are completed.

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.

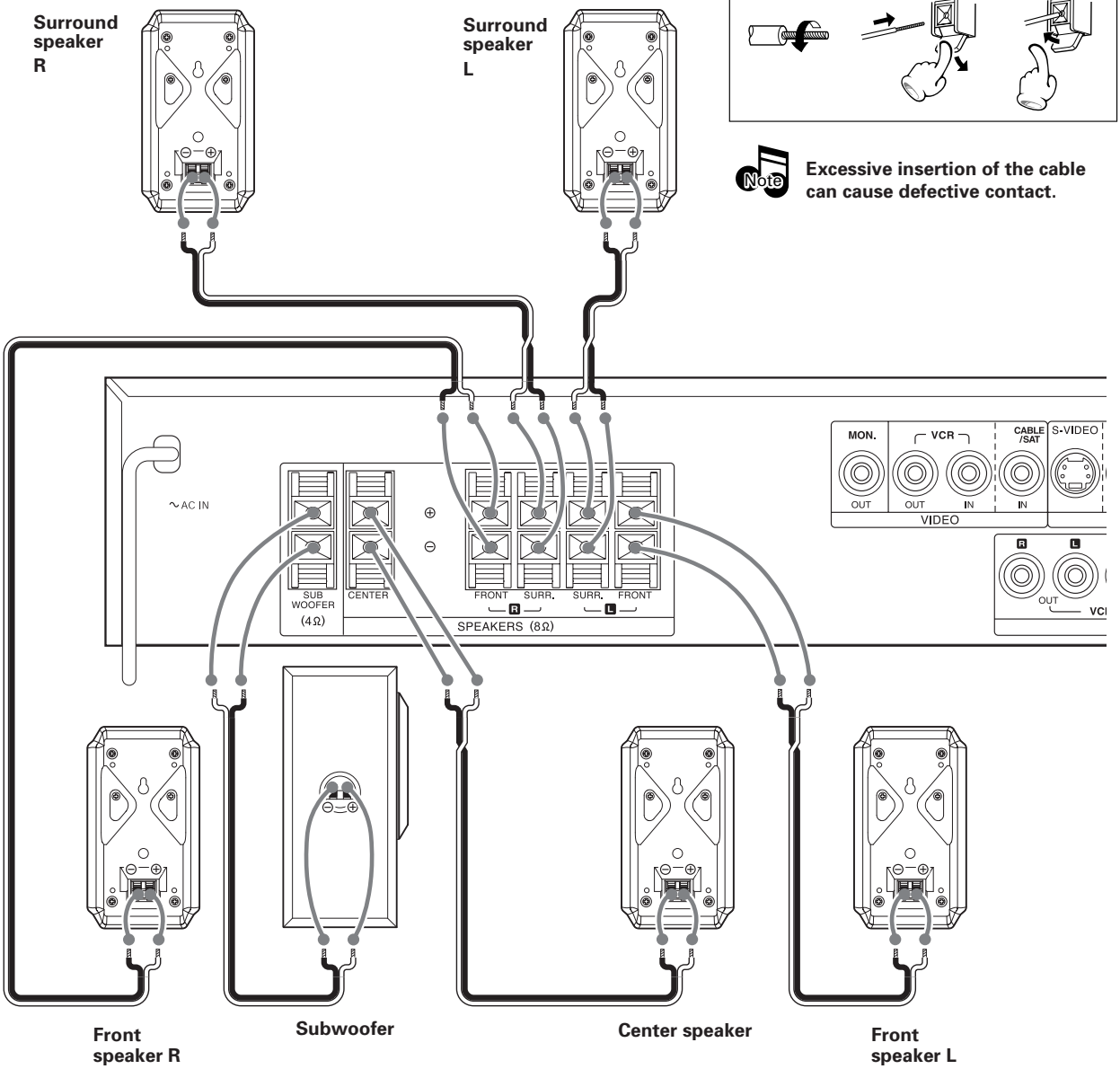
Top panel : 50 cm Side panel : 10 cm Back panel : 10 cm

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". →56

Loudspeakers



Note **Excessive insertion of the cable can cause defective contact.**

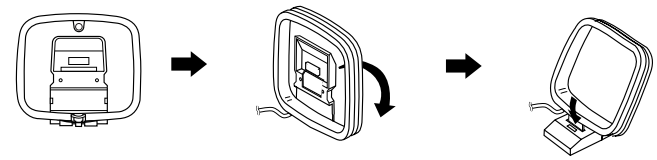


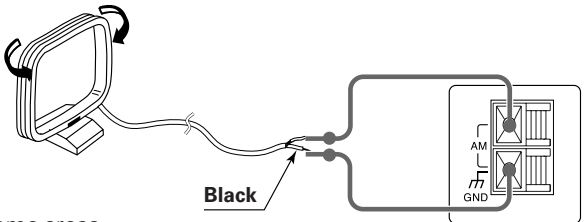
⚠ ***Caution : Read this page carefully to ensure safe operation.***

AM loop antenna

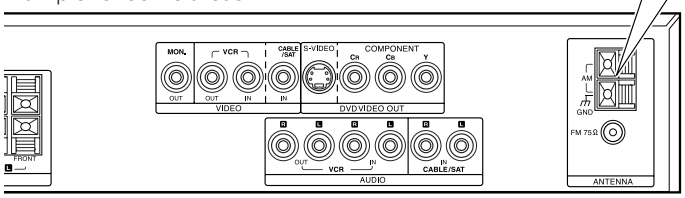
AM loop antenna connection

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.





Example for some areas

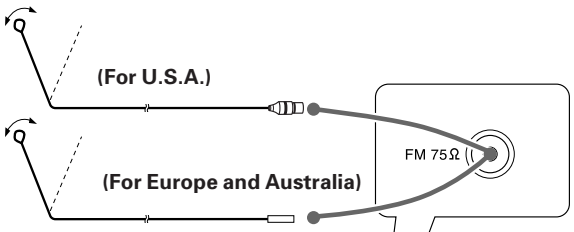


FM antenna

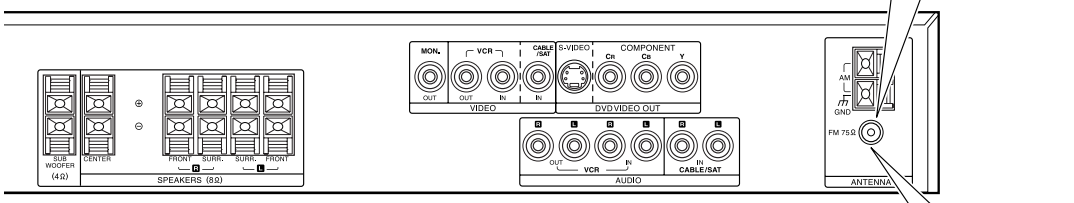
FM indoor antenna connection

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.

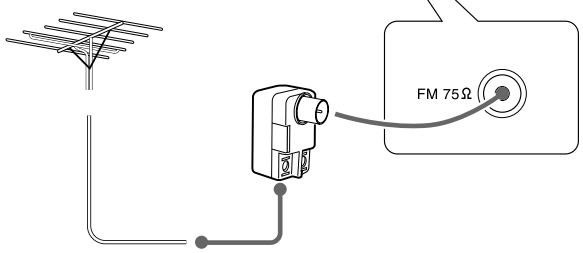


Example for some areas



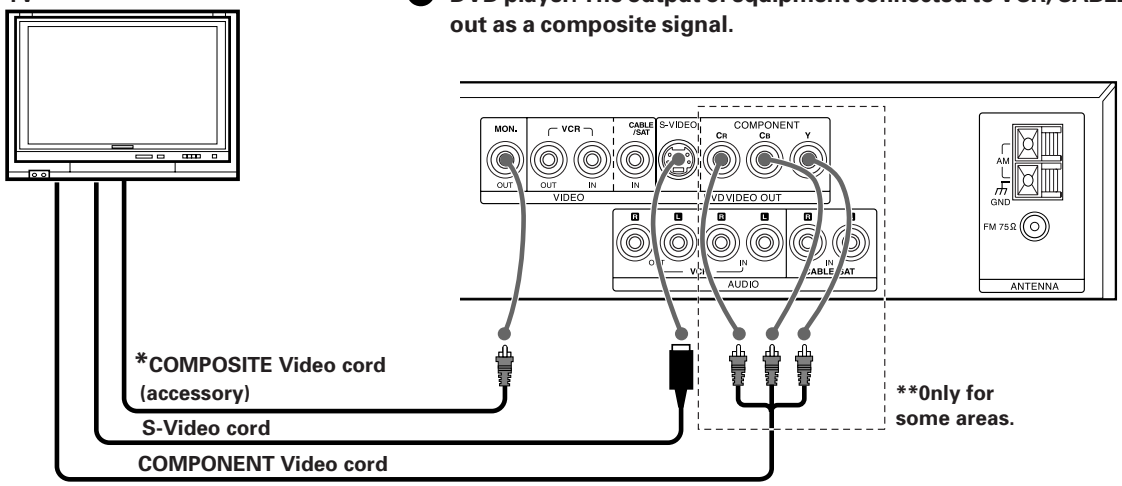
FM outdoor antenna *(commercially available)*

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

The S-Video output terminal of this unit is only for output of the built-in DVD player. The output of equipment connected to VCR, CABLE/SAT is put out as a composite signal.



*** For Europe 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.

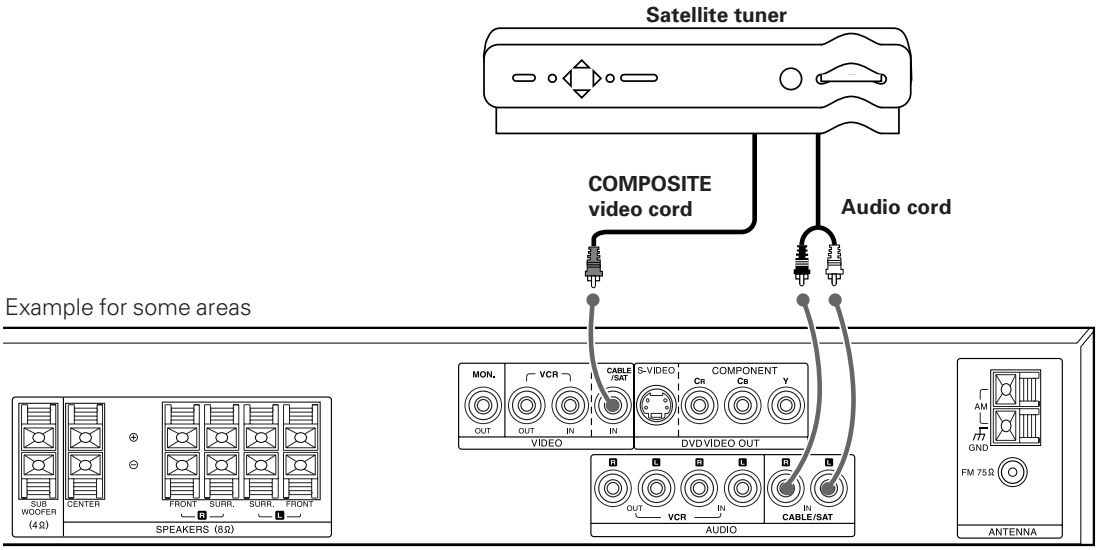
****COMPONENT connection corresponds only to some areas.**
When the TV has a COMPONENT terminal, the DVD image will be played back with higher picture quality in case of COMPONENT connection. Connect the S-video or the COMPOSITE video cable also in this case.

Select the scanning method of the Component Video output using the PROGRESSIVE (ACTIVE EQ.) key on the front panel.

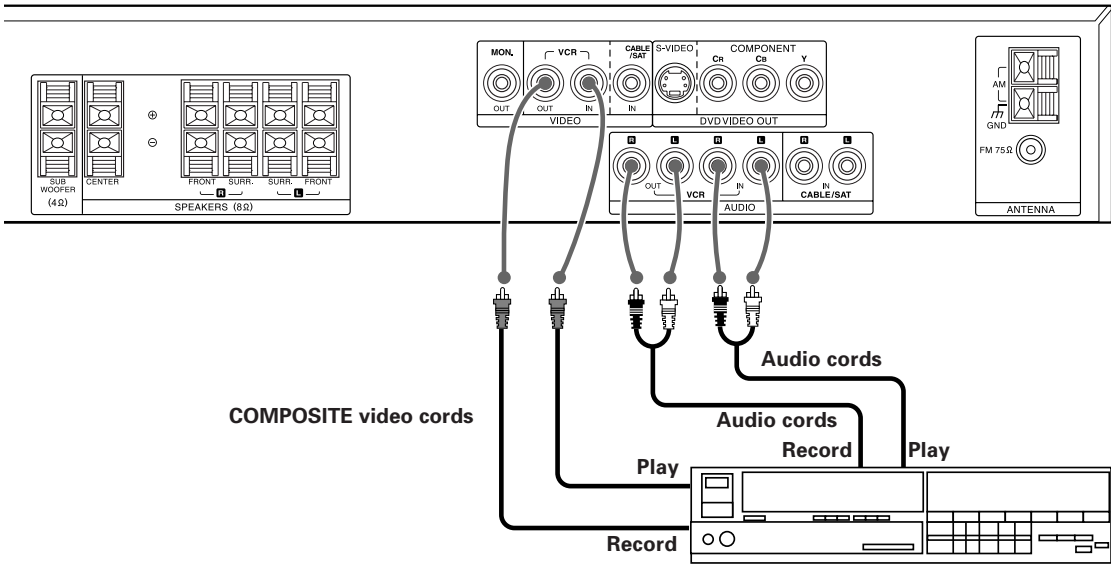
Depressed and keep pressing the key. Each time the key is being held down, the setting changes as follows.
① ON
② OFF

ON: When progressive scanning is unavailable with certain discs, the scanning method is switched automatically to interlaced scanning. When the scanning method is changed, the scanning status will be displayed for a few seconds.
OFF: Scanning method is fixed at interlaced scanning.

Connecting to a Satellite Tuner



Connecting to Audio video equipments

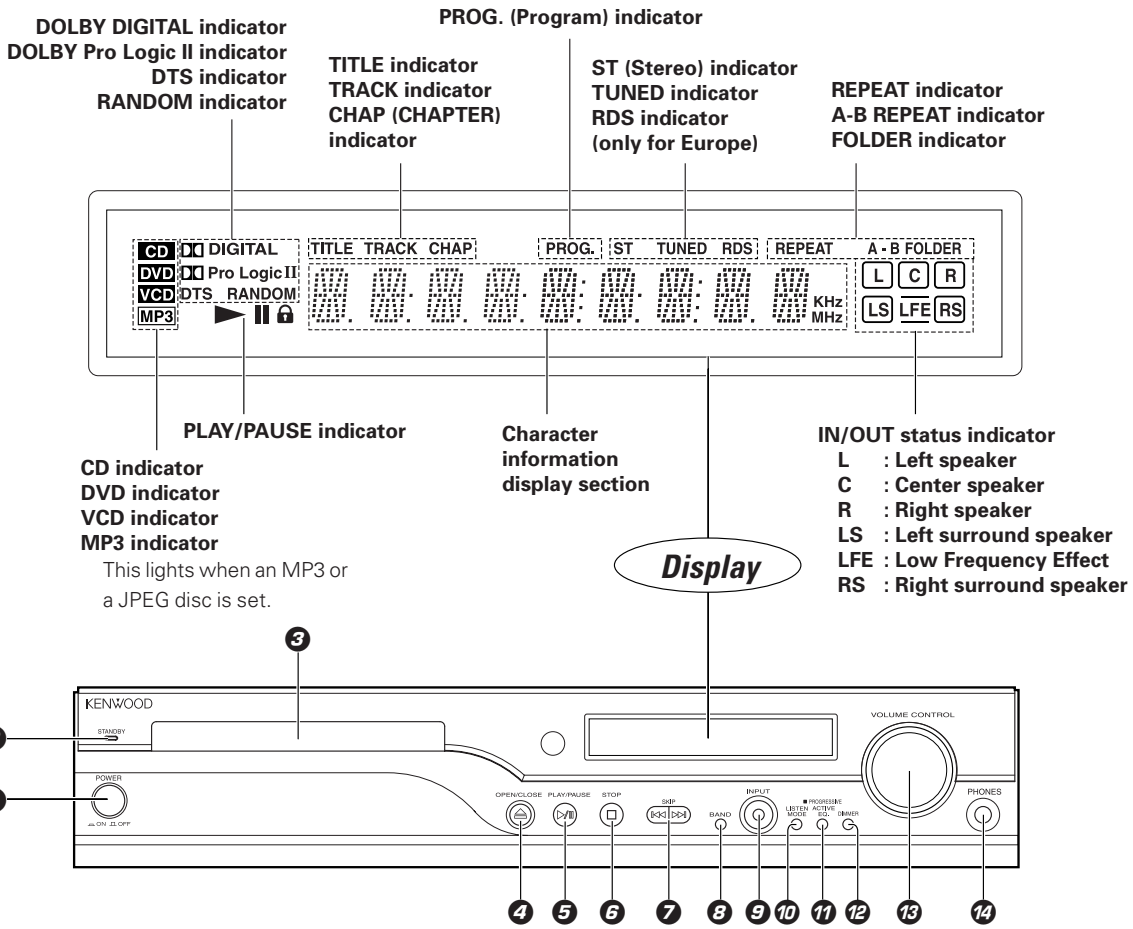


Recording from the VCR OUT terminal of this unit is only possible when the LISTEN MODE is set to STEREO.

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.



❶ **POWER** switch →16
❷ **STANDBY** indicator
❸ Disc tray →40
❹ **OPEN/CLOSE (▲)** key →40
❺ **PLAY/PAUSE (▶/II)** key →40
❻ **STOP (■)** key →40
❼ **SKIP (I◀◀,▶▶I)** keys →41
❽ **BAND** key →36
❾ **INPUT** key →34
❿ **LISTEN MODE** key →29
⓫ **ACTIVE EQ.** key (for Europe and Australia) →30
PROGRESSIVE / ACTIVE EQ. key (for U.S.A.) →13
⓬ **DIMMER** key
⓭ **VOLUME CONTROL** knob →34
⓮ **PHONES** jack →34

CAUTION

The power in this equipment will not be completely cut off from the AC wall outlet when the main switch is turned OFF.

Standby mode

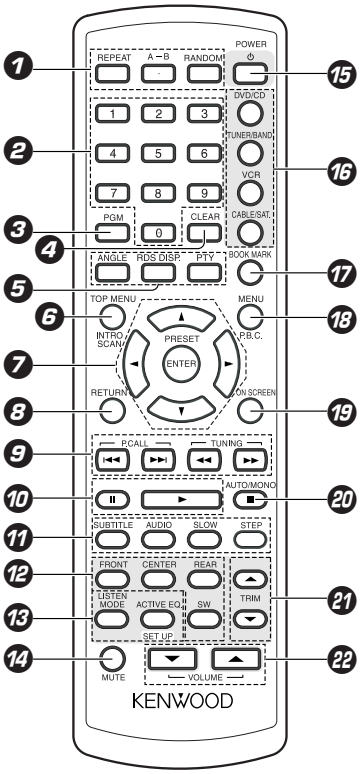
While the standby indicator is lit, a small amount of power in supplied to the system to back up the memory. This is called standby mode. Under the condition, the system can be turned ON by the remote control unit.

DIMMER function

The display brightness of the main unit can be changed.

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

① Bright
② Dim 1
③ Dim 2



Model : RC-R0310E (for Europe)
RC-R0310 (for other countries)
Infrared ray system

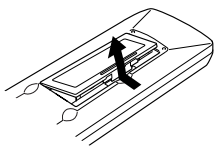
The keys on the remote control unit with the same names as on the main unit have the same function as the keys on the main unit.

❶ **REPEAT** key →45
A-B (Repeat) key →45
RANDOM key →44
❷ Numeric keys →37
❸ **PGM** (Program) key →47
❹ **CLEAR** key →48
❺ **ANGLE** key →44
RDS DISP. (for Europe only) key →38
PTY (for Europe only) key →39
❻ **TOP MENU/INTRO SCAN** key →40 →46
❼ Cursor Up (▲), Down (▼), Left (◄) and Right (►) keys →20
ENTER/PRESET key →20
❽ **RETURN** key →19
❾ **P.CALL** /I◄◄,►►I (Skip) keys →36 →41
TUNING/ ◄◄,►► (Search) keys →36 →41
❿ **II** (pause) key →40
► (play) key →40
⓫ **SUBTITLE** key →43
AUDIO key →43
SLOW key →42
STEP key →41

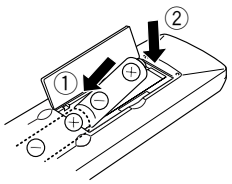
⓬ Speaker select keys →32
FRONT key
CENTER key
REAR key
SW (Subwoofer) key
⓭ **LISTEN MODE** key →29
ACTIVE EQ./SET UP key →30
⓮ **MUTE** key →34
⓯ **POWER** key →18
⓰ INPUT SELECTOR keys →34
DVD/CD key
TUNER/BAND key
VCR key
CABLE/SAT. (Satellite) key
⓱ **BOOK MARK** key →46
⓲ **MENU/P.B.C.** key →20
⓳ **ON SCREEN** key →42
⓴ ■ (stop) **/AUTO/MONO** key →36 →40
㉑ **TRIM**
Up (▲), Down (▼) keys →29
㉒ **VOLUME**
Up (▲), Down (▼) keys →34

Loading batteries

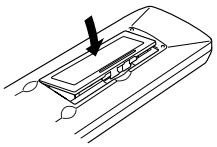
❶ **Remove the cover.**



❷ **Insert batteries.**



❸ **Close the cover.**

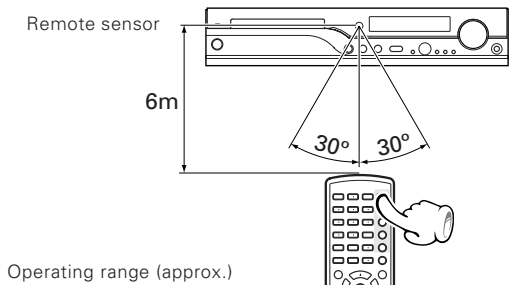


- Insert two R6 ("AA"-size) batteries following the polarity indications.

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.

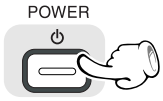


Notes

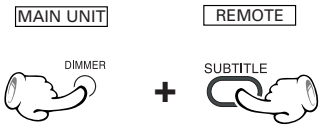
1. The provided batteries are intended for use in operation checking, and their service life may be short.
2. When the remote controllable distance becomes short, replace both of the batteries with new ones.
3. If direct sunlight or the light of a high- frequency fluorescent lamp (inverter type, etc.)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

Preparation for Set Up

❶ Turn on the POWER.



❷ Set TV Format according to the connected TV type.
(Initial Settings – 10)



While no disc is inserted, hold the DIMMER key on the main unit depressed and press the SUB-TITLE key on the remote control. Each time the SUBTITLE key is pressed, the setting changes as follows.

① MULTI (NTSC/PAL switchable)
② NTSC
③ PAL

Set up menu

The SETUP functions are the following diverse functions. Please change them according to your use environment.

GENERAL SETUP

TV DISPLAY

This sets the screen size (4:3 or 16:9 aspect ratio) according to the connected TV.

[NORMAL/PS (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.

NORMAL/LB (Letter Box)

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.

WIDE

Choose this setting if your DVD player is connected to a widescreen TV.

PIC MODE

This adjusts the screen quality according to the material being played back.

[AUTO]

The picture quality is adjusted automatically.

FILM

Choose this setting to reproduce the picture quality of FILM material.

VIDEO

Choose this setting to reproduce the picture quality of VIDEO material.

SMART

Choose this setting to reproduce progressive and interlaced materials with limited motion.

SSMART

Choose this setting to reproduce progressive and interlaced materials with motion (motion adaptiv deinterlacing).

ANGLE MARK

When this is set to **ON**, the **ANGLE** mark ( ) will be displayed when a multiangle scene is reached during playback of a DVD. (**[OFF]**)

OSD LANG

This switches the language for the on-screen display. (**[ENGLISH]**)

CAPTION (NTSC only)

This switches the CLOSED CAPTION ON or OFF. (**[OFF]**)
"closed caption" is a subtitle display system developed for hearing-impaired persons, but it is also a very effective system for learning foreign languages. When your TV is compatible with "closed caption" and you select **ON**, you can use the CLOSED CAPTION function.

SCR SAVER

This switches the screen saver ON or OFF. (**[OFF]**)
When **SCR SAVER** is **ON**, the screen saver function will operate after approx. 3 minutes have passed with a still picture (display of KENWOOD).

The items in [ ] are the initial set values.

AUDIO SETUP

DYNAMIC

At the time of Dolby digital DVD playback, the differece of the maximum volume and the minimun volume are compressed. Adjustment is possible in 8 steps, and the range is largest (compression ratio 0) at the time of "OFF" and smallest (large compression ratio) at the time of "FULL". (**OFF**)

PREFERENCES

VIDEO OUTPUT (only for some areas)

Choose "S-VIDEO" in case of connection to the **S-VIDEO** terminals on the rear, choose "RGB" in case of connection to the **AV** terminal or choose "COMPONENT" in case of connection to **COMPONENT** terminal. Output will not be made to the not selected terminals. (→13 →14) (**S-VIDEO**)

AUDIO

Choose the language for the **AUDIO** output. (**ENGLISH** *)

SUB TITLE

Choose the language for **SUB TITLE**. (**ENGLISH** *)

DISC MENU

Choose the language for the menu recorded on the DISC. (**ENGLISH** *)

PARENTAL

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. (**8**)

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.)

PASSWORD

The password for **PARENTAL** setting, change, cancellation, etc. is set.
The password set at the time of shipping from the factory is "0000".

DEFAULTS

This resets all settings, except for **PARENTAL** and **PASSWORD**, to the factory defaults.

When the language marked with an asterisk (*) is specified by the disc, that specification has priority.

How to use the RETURN key

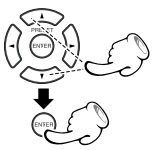
When the RETURN key is pressed, the display returns to the MAIN PAGE.

Please refer to pages 18 and 19 for setup.

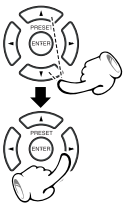
DVD VCD Select TV Display

❶ During stop mode, press MENU key on the remote.

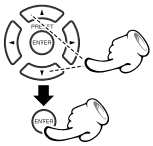
❷ Press Cursor up/down (▲/▼) keys on the remote to select the GENERAL SETUP, then press the ENTER key to access the sub features



❸ Press Cursor up/down (▲/▼) keys on the remote to select TV DISPLAY, then press the Cursor right (►) key to access the sub features

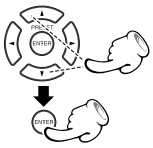


❹ Press Cursor up/down (▲/▼) keys on the remote to select TV Display type, then press the ENTER key.



❺ Press Cursor left (◄) key on the remote to return to previous menu.

❻ Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.

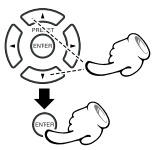


❼ Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

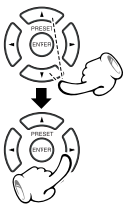
DVD VCD Select Picture Mode

❶ During stop mode, press MENU key on the remote.

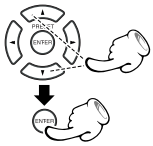
❷ Press Cursor up/down (▲/▼) keys on the remote to select the GENERAL SETUP, then press the ENTER key to access the sub features



❸ Press Cursor up/down (▲/▼) keys on the remote to select PIC MODE, then press the Cursor right (►) key to access the sub features

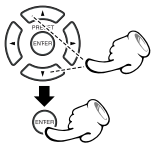


❹ Press Cursor up/down (▲/▼) keys on the remote to select specific mode, then press the ENTER key.



❺ Press Cursor left (◄) key on the remote to return to previous menu.

❻ Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.



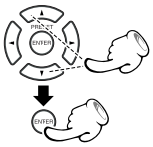
❼ Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

Please refer to pages 18 and 19 for setup.

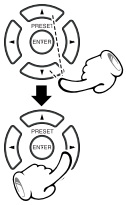
DVD Select ANGLE mark ON or OFF

❶ During stop mode, press MENU key on the remote.

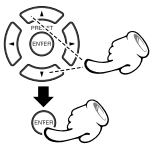
❷ Press Cursor up/down (▲/▼) keys on the remote to select the GENERAL SETUP, then press the ENTER key to access the sub features



❸ Press Cursor up/down (▲/▼) keys on the remote to select ANGLE MARK, then press the Cursor right (►) key to access the sub features

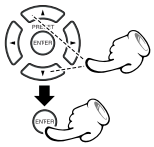


❹ Press Cursor up/down (▲/▼) keys on the remote to select ON or OFF, then press the ENTER key.



❺ Press Cursor left (◄) key on the remote to return to previous menu.

❻ Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.

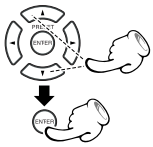


❼ Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

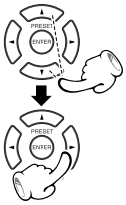
DVD VCD CD Select OSD Language

❶ During stop mode, press MENU key on the remote.

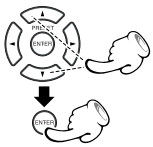
❷ Press Cursor up/down (▲/▼) keys on the remote to select the GENERAL SETUP, then press the ENTER key to access the sub features



❸ Press Cursor up/down (▲/▼) keys on the remote to select OSD LANG, then press the Cursor right (►) key to access the sub features

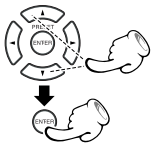


❹ Press Cursor up/down (▲/▼) keys on the remote to select specific language, then press the ENTER key.



❺ Press Cursor left (◄) key on the remote to return to previous menu.

❻ Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.



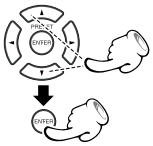
❼ Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

Please refer to pages 18 and 19 for setup.

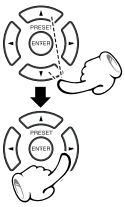
DVD Select CAPTIONS ON or OFF (NTSC only)

❶ During stop mode, press MENU key on the remote.

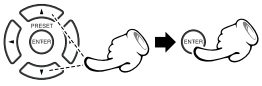
❷ Press Cursor up/down (▲/▼) keys on the remote to select the GENERAL SETUP, then press the ENTER key to access the sub features



❸ Press Cursor up/down (▲/▼) keys on the remote to select CAPTIONS, then press the Cursor right (►) key to access the sub features

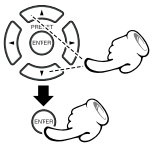


❹ Press Cursor up/down (▲/▼) keys on the remote to select ON or OFF, then press the ENTER key.



❺ Press Cursor left (◄) key on the remote to return to previous menu.

❻ Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.

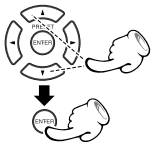


❼ Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

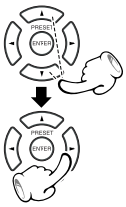
DVD VCD CD Select Screen Saver on or off

❶ During stop mode, press MENU key on the remote.

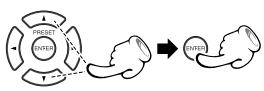
❷ Press Cursor up/down (▲/▼) keys on the remote to select the GENERAL SETUP, then press the ENTER key to access the sub features



❸ Press Cursor up/down (▲/▼) keys on the remote to select SCR SAVER, then press the Cursor right (►) key to access the sub features

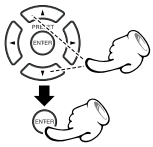


❹ Press Cursor up/down (▲/▼) keys on the remote to select ON or OFF, then press the ENTER key.



❺ Press Cursor left (◄) key on the remote to return to previous menu.

❻ Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.



❼ Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

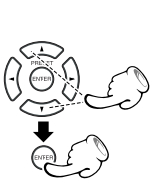
Please refer to pages 18 and 19 for setup.

DVD Select Dynamic Range

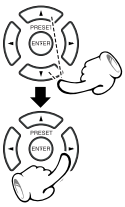
This function operates only at the time of playback of DVDs recorded with Dolby Digital.

❶ **During stop mode, press MENU key on the remote.**

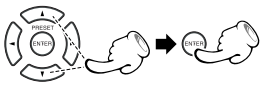
❷ **Press Cursor up/down (▲/▼) keys on the remote to select the AUDIO SETUP, then press the ENTER key to access the sub features**



❸ **Press Cursor up/down (▲/▼) keys on the remote to select DYNAMIC, then press the Cursor right (►) key to access the sub features**

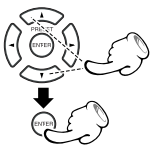


❹ **Press Cursor up/down (▲/▼) keys on the remote to select specific dynamic range, then press the ENTER key.**



❺ **Press Cursor left (◄) key on the remote to return to previous menu.**

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

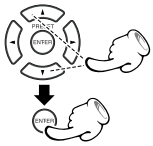


❼ **Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.**

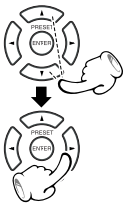
DVD VCD Select VIDEO Output *(only for some areas)*

❶ **During stop mode, press MENU key on the remote.**

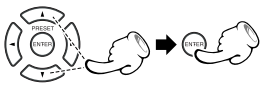
❷ **Press Cursor up/down (▲/▼) keys on the remote to select the PREFERENCE, then press the ENTER key to access the sub features**



❸ **Press Cursor up/down (▲/▼) keys on the remote to select VIDEO OUTPUT, then press the Cursor right (►) key to access the sub features**

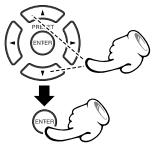


❹ **Press Cursor up/down (▲/▼) keys on the remote to select S.VIDEO or COMPONENT then press the ENTER key.**



❺ **Press Cursor left (◄) key on the remote to return to previous menu.**

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



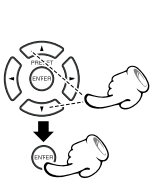
❼ **Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.**

Please refer to pages 18 and 19 for setup.

DVD Select Audio Language

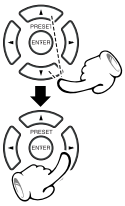
❶ During stop mode, press MENU key on the remote.

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

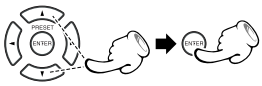


❸ Press Cursor up/down (▲/▼) keys on the remote to select AUDIO, then press the Cursor right (►) key to access the sub features

example for some areas



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

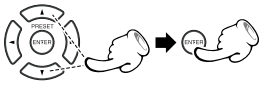


To select other language

① Select "OTHER" and press the ENTER key.
② Input 4 digit code by press numeric keys on the remote.
③ Press the ENTER key.
(DVD menu language code list –27)

❺ Press Cursor left (◄) key on the remote to return to previousmenu.

❻ Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.

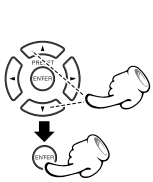


❼ Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

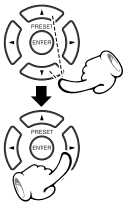
DVD Select Subtitle Language

❶ During stop mode, press MENU key on the remote.

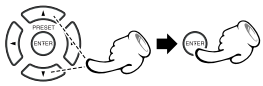
❷ Press Cursor up/down (▲/▼) keys on the remote to select the PREFERENCE, then press the ENTER key to access the sub features



❸ Press Cursor up/down (▲/▼) keys on the remote to select SUBTITLE, then press the Cursor right (►) key to access the sub features



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

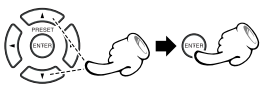


To select other language

① Select "OTHER" and press the ENTER key.
② Input 4 digit code by press numeric keys on the remote.
③ Press the ENTER key.
(DVD menu language code list –27)

❺ Press Cursor left (◄) key on the remote to return to previousmenu.

❻ Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.



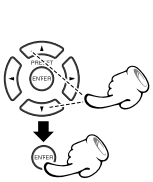
❼ Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

Please refer to pages 18 and 19 for setup.

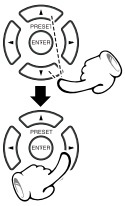
DVD Select Disc Menu Language

❶ During stop mode, press MENU key on the remote.

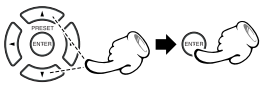
❷ Press Cursor up/down (▲/▼) keys on the remote to select the PREFERENCE, then press the ENTER key to access the sub features



❸ Press Cursor up/down (▲/▼) keys on the remote to select DISC MENU, then press the Cursor right (►) key to access the sub features



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

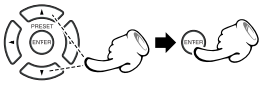


To select other language

① Select "OTHER" and press the ENTER key.
② Input 4 digit code by press numeric keys on the remote.
③ Press the ENTER key.
(DVD menu language code list –27)

❺ Press Cursor left (◄) key on the remote to return to previousmenu.

❻ Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.



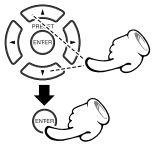
❼ Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

DVD Select Parental level

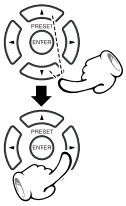
This part of DVD rating lets you determine how your player will react discs that contain movies that are rated (in the U.S.A. the Motion Pictures Association of America rates movies as G, PG, PG-13, etc.).

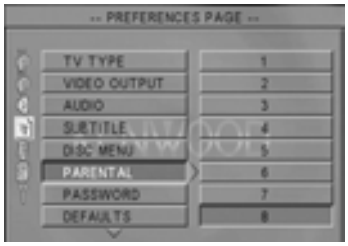
❶ During stop mode, press MENU key on the remote.

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

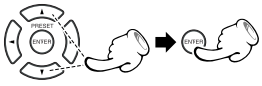


❸ Press Cursor up/down (▲/▼) keys on the remote to select PARENTAL, then press the Cursor right (►) key to access the sub features





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

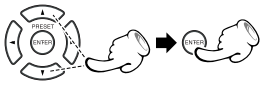


❺ Enter the password, then press the ENTER key.

The password set at the time of shipping from the factory is "0000".
Refer to the item "Change Password" when the password is to be changed.

❻ Press Cursor left (◄) key on the remote to return to previousmenu.

❼ Press Cursor up/down (▲/▼) keys on the remote to select MAIN PAGE, then press the ENTER key.

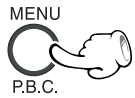


❽ Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.

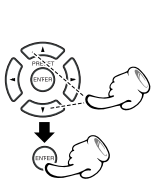
Please refer to pages 18 and 19 for setup.

DVD Change Password

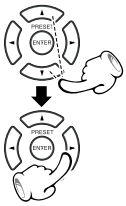
❶ **During stop mode, press MENU key on the remote.**



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

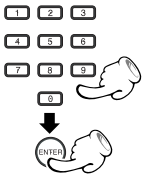


❸ **Press Cursor up/down (▲/▼) keys on the remote to select PASSWORD, then press the Cursor right (►) key to access the sub features**

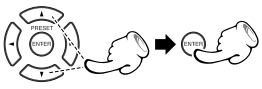


❹ **press the ENTER key to select CHANGE.**

❺ **Enter old password, new password and enter new password again to confirm, then press the ENTER key.** (The password set at the time of shipping from the factory is "0000".)



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

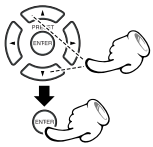


❼ **Press Cursor up/down (▲/▼) keys on the remote to select EXIT SETUP, then press the ENTER key.**

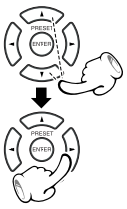
DVD VCD CD Put back to the Defalt Setting

❶ **During stop mode, press MENU key on the remote.**

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



❸ **Press Cursor up/down (▲/▼) keys on the remote to select DEFAULTS, then press the Cursor right (►) key to access the sub features**



❹ **press the ENTER key to select RESET.**

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

DVD menu language code list

Code No.	Language
1027	Afar
1028	Abkhazian
1032	Afrikaans
1039	Amharic
1044	Arabic
1045	Assamese
1051	Aymara
1052	Azerbaijani
1053	Bashkir
1057	Byelorussian
1059	Bulgarian
1060	Bihari
1069	Bislama
1066	Bengali; Bangla
1067	Tibetan
1070	Breton
1079	Catalan
1093	Corsican
1097	Czech
1103	Welsh
1105	Danish
1109	German
1130	Bhutani
1142	Greek
1144	English
1145	Esperanto
1149	Spanish
1150	Estonian
1151	Basque
1157	Persian
1165	Finnish
1166	Fiji
1171	Faeroese
1174	French
1181	Frisian
1183	Irish
1186	Scots Gaelic
1194	Galician
1196	Guarani
1203	Gujarati
1209	Hausa
1217	Hindi
1226	Croatian
1229	Hungarian
1233	Armenian
1235	Interlingua

Code No.	Language
1239	Interlingue
1245	Inupiak
1248	Indonesian
1253	Icelandic
1254	Italian
1257	Hebrew
1261	Japanese
1269	Yiddish
1283	Javanese
1287	Georgian
1297	Kazakh
1298	Greenlandic
1299	Cambodian
1300	Kannada
1301	Korean
1305	Kashmiri
1307	Kurdish
1311	Kirghiz
1313	Latin
1326	Lingala
1327	Laothian
1332	Lithuanian
1334	"Latvian, Lettish"
1345	Malagasy
1347	Maori
1349	Macedonian
1350	Malayalam
1352	Mongolian
1353	Moldavian
1356	Marathi
1357	Malay
1358	Maltese
1363	Burmese
1365	Nauru
1369	Nepali
1376	Dutch
1379	Norwegian
1393	Occitan
1403	(Afan) Oromo
1408	Oriya
1417	Punjabi
1428	Polish
1435	"Pashto, Pushto"
1436	Portuguese
1463	Quechua
1481	Rhaeto-Romance

Code No.	Language
1482	Kirundi
1483	Romanian
1489	Russian
1491	Kinyarwanda
1495	Sanskrit
1498	Sindhi
1501	Sangro
1502	Serbo-Croatian
1503	Shinghalese
1505	Slovak
1506	Slovenian
1507	Samoan
1508	Shona
1509	Somali
1511	Albanian
1512	Serbian
1513	Siswati
1514	Sesotho
1515	Sundanese
1516	Swedish
1517	Swahili
1521	Tamil
1525	Tegulu
1527	Tajik
1528	Thai
1529	Tigrinya
1531	Turkmen
1532	Tagalog
1534	Setswana
1535	Tonga
1538	Turkish
1539	Tsonga
1540	Tatar
1543	Twi
1557	Ukrainian
1564	Urdu
1572	Uzbek
1581	Vietnamese
1587	Volapuk
1613	Wolof
1632	Xhosa
1665	Yoruba
1684	Chinese
1697	Zulu

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.

- **Stereo:** Stereo listen mode provides standard stereo sound to the front left and right speakers.

Note **Do not switch the LISTEN mode while recording to VCR.**

L C R
LS LFE RS

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.

DOLBY DIGITAL PRO LOGIC II

Manufactured under license from Dolby Laboratories. "DOLBY", the double-D symbol and "PRO LOGIC" are trademarks of Dolby Laboratories.

DIGITAL dts SURROUND

"DTS" and "DTS Digital Surround" are registered trademarks of Digital Theater Systems, Inc.

To set the LISTEN mode manually

According to the contents of the disc played in this unit, the LISTEN MODE (selected by the LISTEN 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)	CABLE/SAT/VCR (ANALOG)
DOLBY DIGITAL	◯	◯			
DTS			◯		
DOLBY PRO LOGIC II		◯		◯	◯
DOLBY PRO LOGIC		◯		◯	◯
STEREO	◯	◯	◯	◯	◯

At the time of DTS or DOLBY DIGITAL (5.1 ch) source

Press the LISTEN MODE key.

MAIN UNIT

REMOTE

Each press switches the modes as shown below.

(At the time of DTS source)
① DTS
② STEREO

(At the time of DOLBY DIGITAL (5.1 ch) source)
① DOLBY D (DIGITAL)
② STEREO

At the time of PCM or DOLBY DIGITAL (2 ch) source

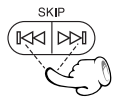
❶ Press the LISTEN MODE key.

MAIN UNIT

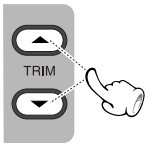
REMOTE

❷ When the TRIM (▲/▼) keys on the remote or the SKIP (I◄◄/►►I) keys on the main unit are pressed at a time other than display of STEREO, PRO LOGIC, PL II MOVIE, or PL II MUSIC is switched.

MAIN UNIT



REMOTE



Each press switches the modes as shown below.

① PRO LOGIC (DOLBY PRO LOGIC)
(PL II MOVIE or PL II MUSIC)
② STEREO

Each press switches the modes as shown below.

① PRO LOGIC (DOLBY PRO LOGIC)
② PL II MOVIE
② PL II MUSIC

When the SET UP key is pressed at the time of PL II MUSIC, switching of Panorama mode, Dimension, and Center Width is possible.

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 **SET UP** key at the time of Dolby Pro Logic II Music mode. Display the **PANOR 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 **SET UP** 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**.)

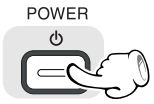
Center Width : The center channel signal can be divided and distributed to the Front L/R channels.
The adjustment for distributing the center channel signal to the front channels can be applied in eight steps from 0 to 7. Use this adjustment when the center image seems to be too strong. (To change the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

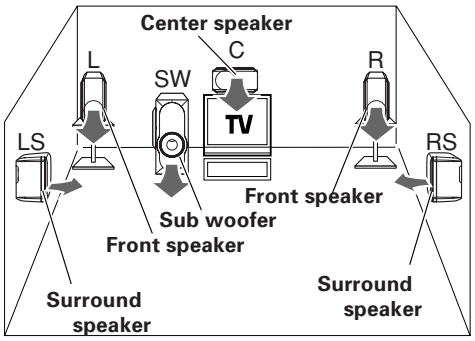
Positioning the speakers

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

Turn on the POWER.





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

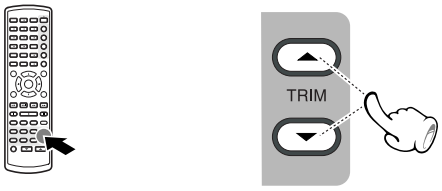
Left Front channel (Lch)(L)	: 0dB
Center channel (Cch)(C)	: 0dB
Right Front channel (Rch)(R)	: 0dB
Right Surround channel (RSch)(RS)	: 0dB
Left Surround channel (LSch)(LS)	: 0dB
Subwoofer(SW)	: 0dB

Reset as follows to match your listening environment.

Speaker level setting

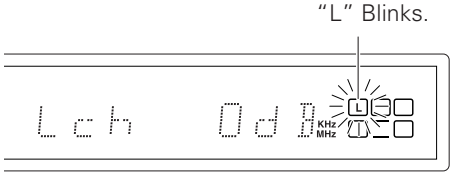
❶ Press SET UP key for more than 3 seconds

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



- After all speakers have been adjusted, operate the Delay time setting (➡31).

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.

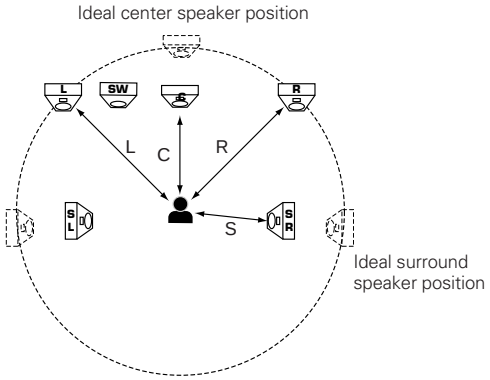
➡L → C → R → RS → LS → SW

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.

Note

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. (➡32)

**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.

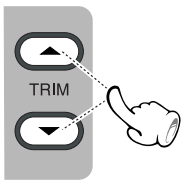
The front speakers (L/R) can be adjusted between 40 feet (12 m) and 3 feet (0.9 m).
The range which can be set for the center speaker (C) and the surround speakers (LS/RS) duffers according to the setting for the front speakers. A longer distance than for the front speakers can not be set.

Delay time setting

This operation is performed following the adjustment of the speaker level setting on page 30.

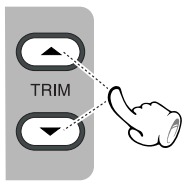
❶ Press SET UP key.

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

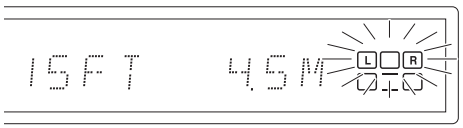


❸ Press SET UP key.

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

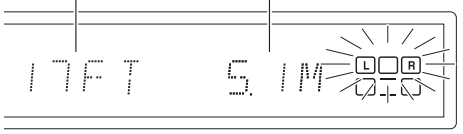


Blinks

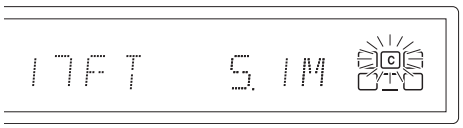


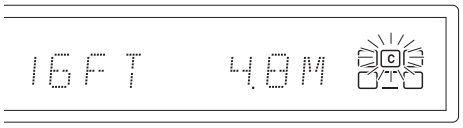
Return to the original display is made when no operation is performed for about 5 seconds.

Feet indication
Meter indication



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





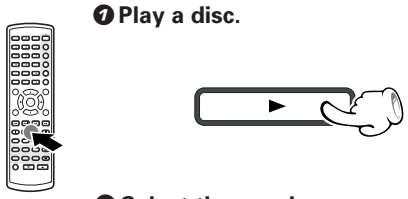
Repeat ❸ and ❹ in the same way to adjust the surround speakers.

- **Press the SET UP key to end speaker setting.**

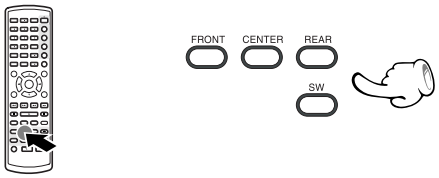
Level setting using a music source

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

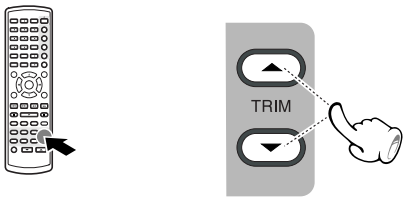
❶ Play a disc.



❷ Select the speaker.



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



Speaker level adjustment can be performed by pressing the keys FRONT, CENTER, REAR, and SW.

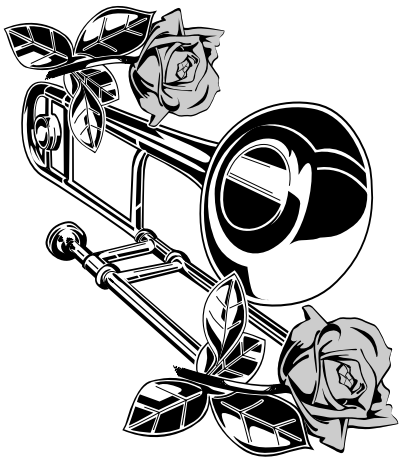
FRONT: Front speakers
Switching is done as follows each time the switch is pressed.
① L ch : Left speaker
② R ch : Right speaker

CENTER: Center speaker

REAR: 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

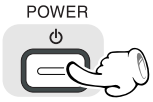
SW: Subwoofer

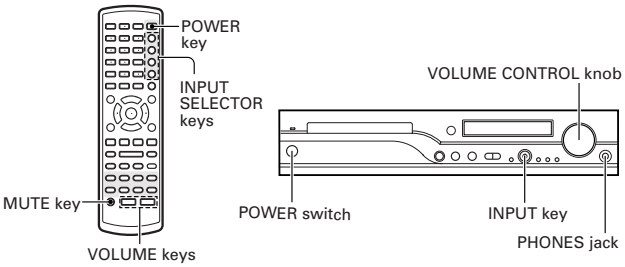
The speaker level can be changed in the range from -10 dB to +10 dB.



Preparation

Turn on the POWER.

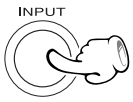




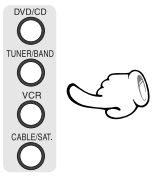
Basic use method

1 Selecting the desired input

MAIN UNIT



REMOTE



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

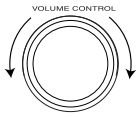
① Tuner (frequency display)
② DVD/CD
③ VCR
④ CABLE/SAT

- 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, the **BAND** key or the **INPUT** keys 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 wit 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.

2 Volume adjustment

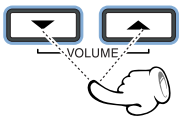
MAIN UNIT



To decrease **To increase**

REMOTE

To decrease **To increase**



Normally "MAX" is displayed when the volume settings set to the maximum value.
Depending on the speaker setting value has been set to "ON", (➞30), "MAX" will not be displayed.

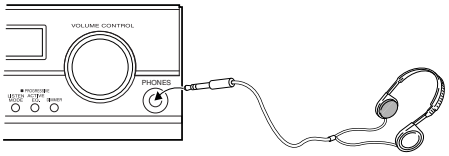
Muting the sound temporarily

REMOTE

- 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.

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

Selecting the ACTIVE EQ.

This function provides for better playback of movies (CINEMA) etc.

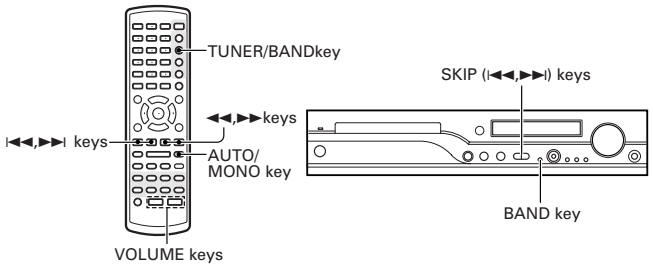
Press the ACTIVE EQ. key repeatedly

REMOTE

Each press switches the mode

- ① **CINEMA**
- ② **MUSIC**
- ③ **OFF**

It is also possible to receive them by one-touch operations by storing up to 40 stations in the preset memory. (see page 37)



1 Select the TUNER input

MAIN UNIT

REMOTE

2 Select the broadcast band

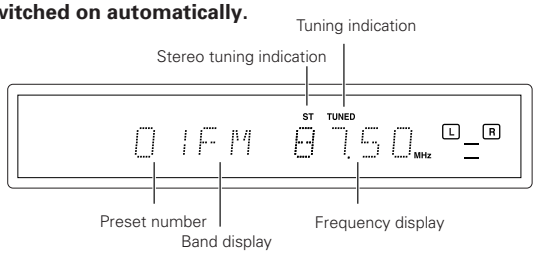
MAIN UNIT

REMOTE

3 Select a tuning mode

REMOTE

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

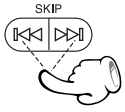
① **"AUTO" : auto mode**
② **"MONO" : monaural mode**

When the **TUNING** 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.

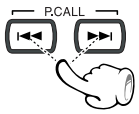
4 Select a station

P.CALL (preset call)

MAIN UNIT



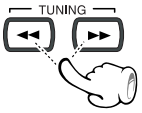
REMOTE



Press the I◄◄ , ►►I keys to select a preset station.

"AUTO" mode (auto tuning)

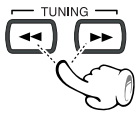
REMOTE



Press the TUNING keys to receive the next tuned station automatically

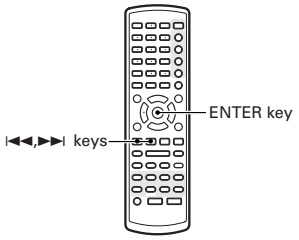
"MONO" mode (manual tuning)

REMOTE



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 40 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)

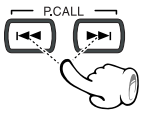
→ 36

2 Press the ENTER key

REMOTE

3 Select the desired preset number

REMOTE



4 Press the ENTER key

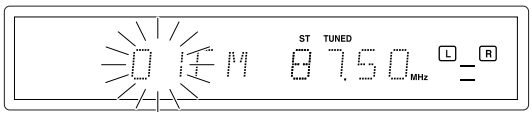
REMOTE

Repeat steps 1 to 4 to preset other stations.

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

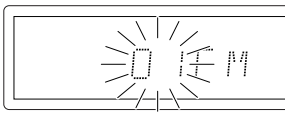
01: FM 90.00
02: AM 531
03: FM 88.00

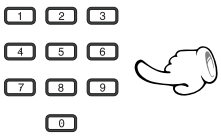
Blinks



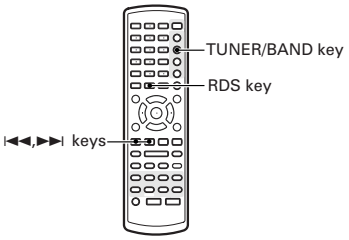
Please perform the next operation while the indicator is blinking.

In case of input with the numeric 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 Europe 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.

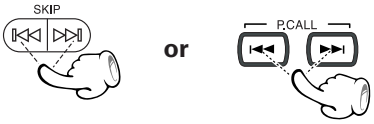
RT (Radio text) :
Displays the radio text data transmitted by some RDS stations when you select the **RT** mode.

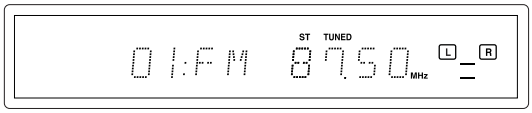
CT (Clock Time) :
Decodes the real time clock from the FM frequency.

Using the RDS Display function

1 Select the FM broadcast station

→ 36





2 Press the RDS DISP. key

Each press switches the display mode as follows.

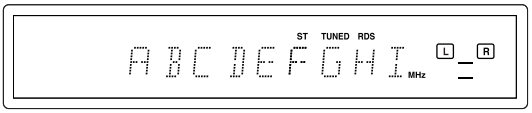
→ ① **PS NAME display**
② **PTY display**
③ **CT display**
④ **RT display**
⑤ **Current FM frequency display**

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 ensues the PS name is displayed.

RT display

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



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

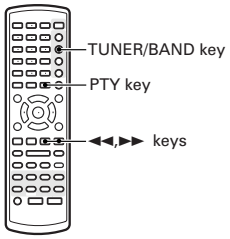
CT display

- 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 TIME**" 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

→ 36

2 Press the PTY key

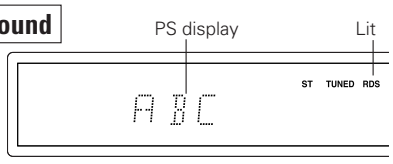
- **The PTY MODE (POP M, ROCK M etc.) appears on the display.**

3 Press the PTY key to select the desired program type.

4 When the program type is selected, press the TUNING (◄◄/►►) keys.

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

PTY found



PTY not found

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

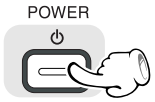
RDS Program types

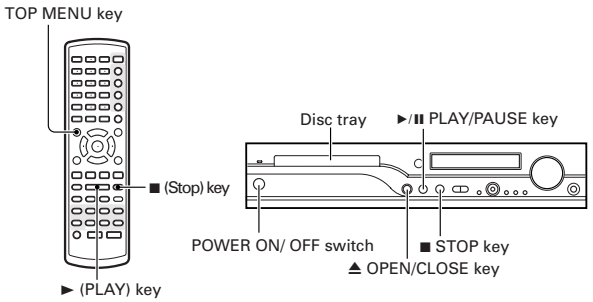
Program Type Name	Receiver Display
News	NEWS
Current Affairs	AFFAIRS
Information	INFO
Sport	SPORT
Education	EDUCATE
Drama	DRAMA
Culture	CULTURE
Science	SCIENCE
Varied	VARIED
Pop Music	POP M
Rock Music	ROCK M
Easy Listening Music	EASY M
Light Classical Music	LIGHT M
Serious Classical Music	CLASSICS
Other 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

Preparation

Turn on the POWER.



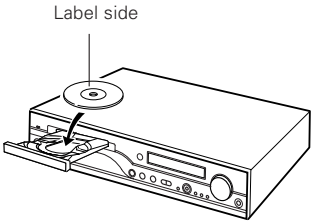


1 Load a disc.

MAIN UNIT

❶ Open the tray.

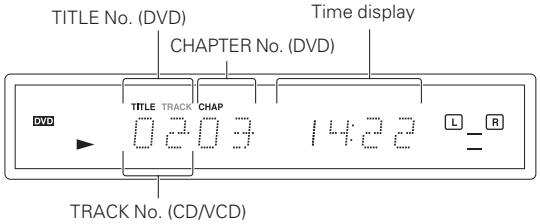
❷ Place a disc.



2 Start playback.

MAIN UNIT REMOTE

- When the ►/II key, ► key or open/close (▲) key is pressed while a tray is open, the tray closes automatically, and then playback begins.



When a Disc Menu appears on the screen

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

To pause playback

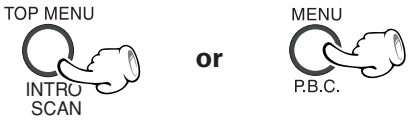
MAIN UNIT REMOTE

- Each press the **PLAY/PAUSE** key on the main unit, pauses and plays the disc alternately.
- Press the II (pause) key on the remote.

To stop playback

MAIN UNIT REMOTE

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



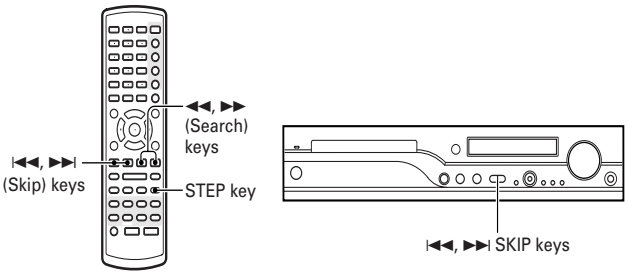
RESUME playback (only DVD)

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.

Disc playback features

Notes

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



CD DVD VCD Skipping chapters or tracks

MAIN UNIT REMOTE

I◀◀ : To skip backward
▶▶I : To skip forward

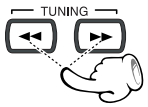
- The chapter (or track) in the direction of the key pressed is skipped, and the selected chapter (or track) will be played from the beginning.
- When the I◀◀ key is pressed once during playback, the chapter (or track) being played will be played from the beginning.

Note

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

CD DVD VCD Searching

REMOTE



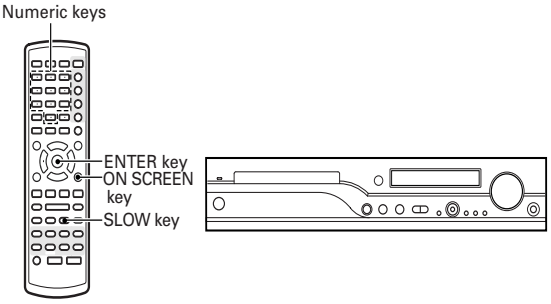
◀◀ : To search backward (FR)
▶▶: To search forward (FF)

- During playback, press the ◀◀ or ▶▶ key.
- Each press switches the searching speed.
  - ① FF 2 X (▶▶ key) or FR 2 X (◀◀ key)
  - ② FF 4 X (▶▶ key) or FR 4 X (◀◀ key)
  - ③ FF 8 X (▶▶ key) or FR 8 X (◀◀ key)
  - ④ FF 16X (▶▶ key) or FR 16X (◀◀ key)
  - ⑤ Normal playback
- Press the ▶ key at any time to resume normal playback.

DVD VCD STEP (freeze frame and frame advance)

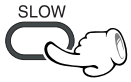
REMOTE

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



DVD VCD Slow motion playback

REMOTE



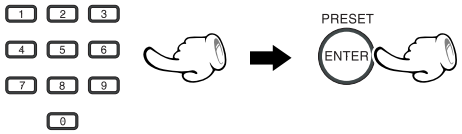
- During playback, press the **SLOW** keys.
- Each press switches the motion speed.
  - ① SF 1/4
  - ② SF 1/8
  - ③ SF 1/16
  - ④ Normal playback

- Press the ► key to resume normal playback.

CD DVD VCD Playback from desired track or title

Because DVD VIDEO discs use digital technology, a title can be divided into individual chapters (similar to tracks on a CD).

REMOTE



- Select the desired track No. (CD, VCD) or title No. (DVD)
  ❶ Press the numeric keys as shown below

  (Example) To select track No. 23 : 2 3

  ❷ Press the **ENTER** key.

Note

- P.B.C. on mode of VCD, the Selecting a Track function may not work. →50

DVD CD VCD On screen display

The elapsed time or the remaining time for the chapter or the track can be displayed on the monitor (TV) screen.

Press the ON SCREEN key on the remote.

Each press the key switches the display.

At the time of DVD playback.

- ① Title number and chapter number display.
  (Example) TITLE 01/02 CHAPTER 005/015
  00:05:12 (elapsed time of the title)
- ② "**TITLE REMAIN**"
  Remaining time of the title being played.
- ③ "**CHAPTER ELAPSED**"
  Elapsed time of the chapter being played.
- ④ "**CHAPTER REMAIN**"
  Remaining time of the chapter being played.
- ⑤ "**OFF**"

At the time of CD/VCD playback.

- ① "**SINGLE ELAPSED**"
  Elapsed time of the track being played.
  (Example) 22:23 TRACK 05/15
- ② "**SINGLE REMAIN**"
  Remaining time of the track being played.
- ③ "**TOTAL ELAPSED**"*
  Elapsed time of the disc being played.
- ④ "**TOTAL REMAIN**"*
  Remaining time of the disc being played.
- ⑤ "**OFF**"

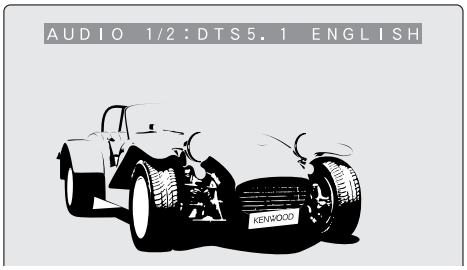
Items marked by * are not displayed in P.B.C. on mode of VCD.

Operations

DVD Select Audio Language

If the disc was created with different language tracks, you can use the AUDIO KEY on the remote to temporarily change the DVD player's Audio setting.

During playback, press the AUDIO key on the remote.



The language is switched each time the AUDIO key is pressed.

- The display is switched off when no operation is performed for about 2 seconds.

Notes

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

VCD Select the Audio channel

You can choose to play back only the right or the left channel of audio recorded on the disc, or you can select stereo playback.

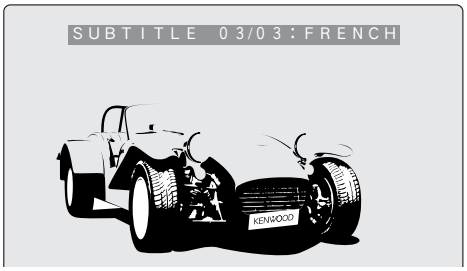
During VCD playback, press AUDIO key on the remote.

Each press the key switches the mode.
① LEFT
② RIGHT
③ STEREO

DVD Select Subtitle Language

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

During playback, press the SUBTITLE key on the remote.



The language is switched each time the SUBTITLE key is pressed.

- The display is switched off when no operation is performed for about 2 seconds.

When subtitles are not to be displayed, press the SUBTITLE key repeatedly to get rid of the display.

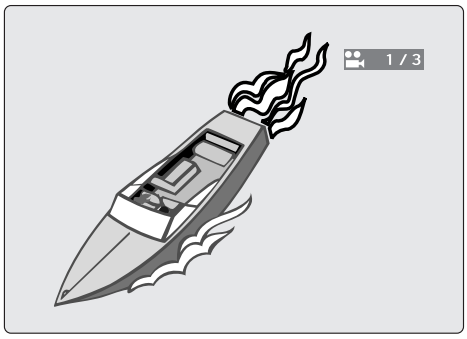
Notes

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.

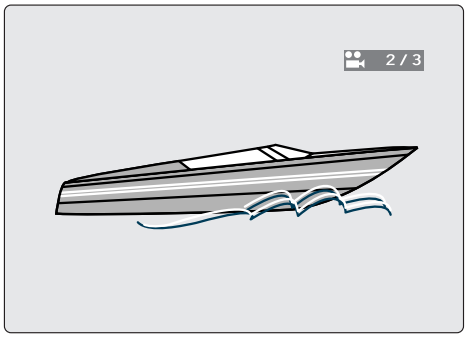
DVD Select Camera angle

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

❶ During playback, press the ANGLE key on the remote.



❷ Select the Camera angle with press the ANGLE key.



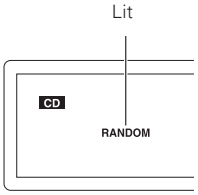
The angle mark (🎥) will be displayed only when the angle mark is set to ON in the Set Up function.

CD VCD Random play

The tracks of the disc are played in random order.

❶ During stop mode, press the RANDOM key on the remote.

The Random Play display appears



Display

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

❷ Press the play (▶) key to start random playback.

- The menu is switched off when no operation is performed for about 2 seconds.

"**MP3/JPEG Random play**" →54

To cancel random play

❶ Press the stop (■) key to stop playback.

❷ Press the RANDOM key to cancel random playback.

To repeat random play

During random playback, press the REPEAT key on the remote.

Each press the key switches the mode.

① REPEAT ONE
② REPEAT ALL
③ REPEAT OFF

- After all tracks of a disc have been played in random order, playback will stop.
- When playing a DVD, the Random mode does not work.
- When switching to **RANDOM** mode with a VCD in **P.B.C. ON** mode, the **P.B.C**. mode will become **OFF.**

DVD CD VCD Repeat play

Desired title, chapter, track or disc can be played back repeatedly.

At the time of DVD playback.

- **"CHAPTER REPEAT"** : Repeat the chapter that is playing.
- **"TITLE REPEAT"** : Repeat the title that is playing.

At the time of CD/VCD playback.

- **"REPEAT ONE"** : Repeat the track that is playing.
- **"REPEAT ALL"** : Repeat the disc that is playing.

During playback, press the REPEAT key on the remote.

Each press the key switches the REPEAT mode

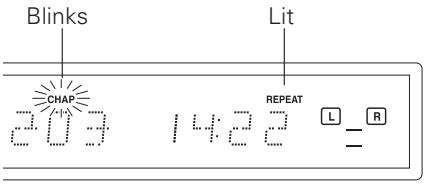
At the time of DVD playback.

① **"CHAPTER REPEAT ON"** : The "**REPEAT**" display is lit and the "**CHAP**" display blinks.
② **"TITLE REPEAT ON"** : The "**REPEAT**" display is lit and the "**TITLE**" display blinks.
③ **"REPEAT OFF"**

At the time of CD/VCD playback.

① **"REPEAT ONE"** : The "**REPEAT**" display is lit and the "**TRACK**" display blinks.
② **"REPEAT ALL"** : The "**REPEAT**" display is lit.
③ **"REPEAT OFF"**

[Example for the CHAPTER REPEAT]



Display

- To cancel repeat playback, press the **REPEAT** key repeatedly until the "REPEAT" display goes out.
- The menu is switched off when no operation is performed for about 2 seconds.

"**MP3/JPEG Repeat play**" →54

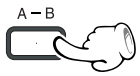
Note

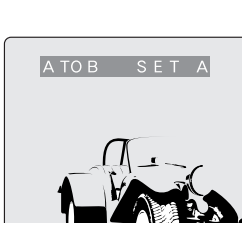
P.B.C. on mode of VCD, the Repeat play function does not work. →50

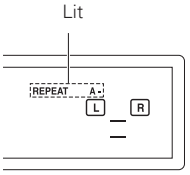
DVD CD VCD A-B Repeat play

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.

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

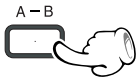




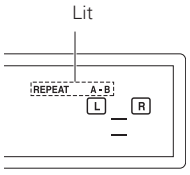


Display

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



The Repeat B (Repeat A-B) display appears



Display

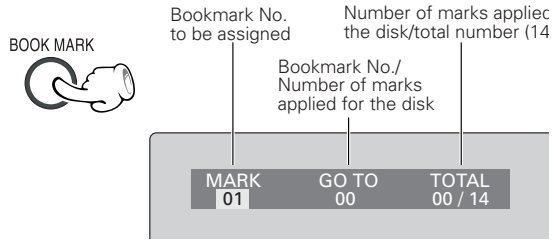
- To cancel A-B Repeat playback, press the **A-B** key.
- The menu is switched off when no operation is performed for about 2 seconds.

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 14 bookmarks.

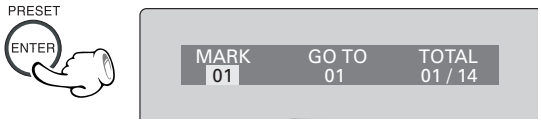
Create the bookmark

❶ During playback, press the BOOK MARK key on the remote.



❷ Press Cursor up/down (▲/▼) keys on the remote to select desired bookmark number.

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

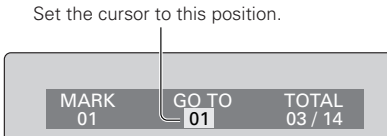


- Up to 14 bookmarks can be applied in the same way for one disc.
- When the **ENTER** key is pressed at a previously marked bookmark, that mark will be changed to the new point.

Recalling a bookmarked scene

❶ During playback, press the BOOK MARK key on the remote.

❷ Press the Cursor right (►) key on the remote to recalling a bookmark number.



❸ Press the Cursor up/down (▲/▼) key on the remote to select the bookmark number you want to activate, then press ENTER key.

Notes

- If all 14 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 does not work.

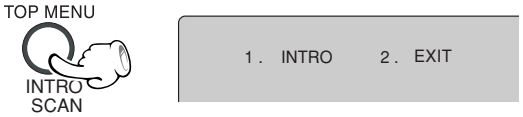
→ 50

CD VCD Using IntroScan function

CD IntroScan playback

It is possible to play back approx. 10 seconds of the beginning of each track.

❶ During stop mode, press the INTRO SCAN key on the remote.



❷ Press the "1" key on the remote to select INTRO, then press the ENTER key.

- The first 10 seconds of each track play.
- After Intro Scan goes through all of the tracks, it stops.
- When the **ENTER** key or the **INTRO SCAN** key is pressed during introScan of a track, the unit will return to normal playback starting with that track.

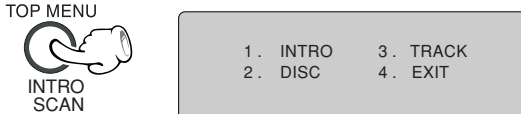
IntroScan ends when 2 (EXIT) is selected.

VCD IntroScan playback

The VCD IntroScan function has three modes.

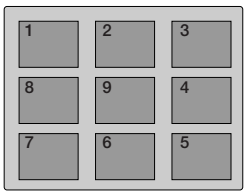
1. **INTRO : The first approx. 8 seconds of each track will be played one after another .**
2. **DISC : The beginning of each of the first nine tracks of the disc will be played back sequentially and displayed on the screen. When SKIP key is pressed, the next nine screens will be played back and displayed.**
3. **TRACK: The selected track will be played back with the screen display divided into nine parts.**

❶ During stop mode, press the INTRO SCAN key on the remote.



❷ Select 1 (INTRO), 2 (DISC), or 3 (TRACK) with the numeric keys of the remote control and press the ENTER key.

At the time of "DISC" or "TRACK" , the screen will be displayed divided into nine pictures.



The next nine pictures (nine tracks) will be displayed when the skip up (►►I) key is pressed.
When the number of one of the pictures is selected with the numeric keys, playback will start from that picture.

P.B.C. on mode of VCD, the IntroScan function does not work.

→ 50

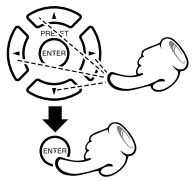
You can listen to the desired tracks of the current CD or VCD in any desired order.

Program Edit

❶ During stop mode, press the PGM key on the remote.

❷ Select specific track by Press Cursor up/down (▲/▼) keys.

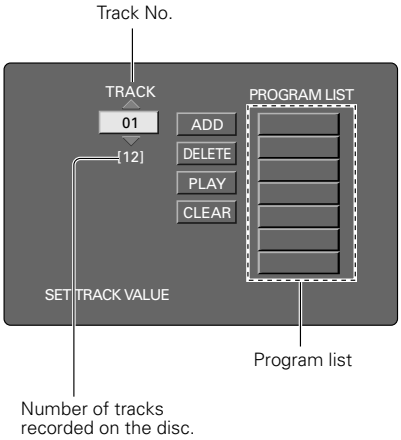
❸ Select "ADD" icon on the screen to register selected value onto PROGRAM LIST, then press the ENTER key.



❹ You can select maximum 21 values by repeating step ❷ - ❸.

❺ Select "PLAY" icon on the screen. then press the ENTER key to start program play.

Program edit screen appears.



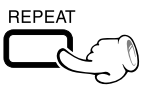
Note

"**ADD**" icon : Add value onto "**PROGRAM LIST**"
"**DELETE**" icon : Delete value from "**PROGRAM LIST**"
"**INSERT**" icon : Insert value in "**PROGRAM LIST**"
"**PLAY**" icon : Play program play
"**CLEAR**" icon : When this icon is selected and the **ENTER** key is pressed, the entire contents of the **PROGRAM LIST** will be deleted, and the Program edit screen also will disappear.

- MP3/JPEG discs can not be programmed with this program mode. (MP3/JPEG program playback →55)
- The unit stops when the **STOP** (■) key is pressed. To restart program play, press the **PGM** key, display the program screen, select the "**PLAY**" icon, and press the **ENTER** key.

To repeat program play

During program playback, press the REPEAT key on the remote.



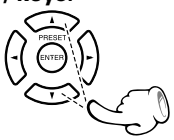
Each press the key switches the mode.

① "**REPEAT ONE**"
② "**REPEAT ALL**"
③ "**REPEAT OFF**"

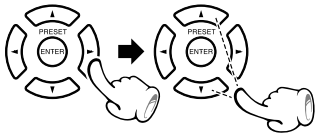
Insert track

During stop mode, press the PGM key on the remote

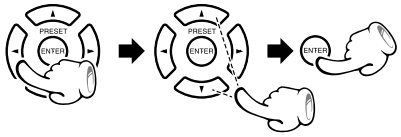
❶ Select specific track to insert by press Cursor up/down (▲/▼) keys.



❷ Move the cursor with the Cursor right (►) key to the "PROGRAM LIST" and select the column to be added with the Cursor up/down (▲/▼) keys. (The color of the column where the Cursor is located will change.)

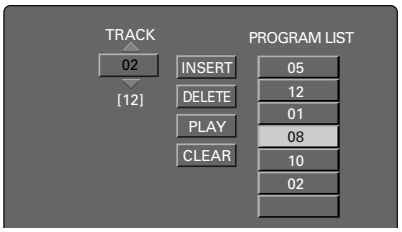


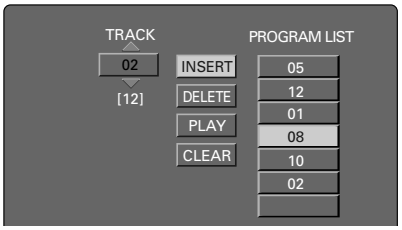
❸ Press the Cursor left (◄) key, use the Cursor up/down (▲/▼) keys to move the Cursor to the "INSERT" icon, and press the ENTER key.



The new track will be inserted after (below) the selected column.

Program edit screen appears.

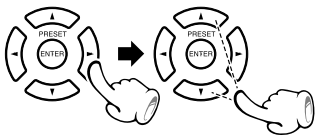




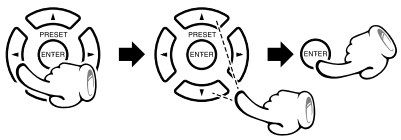
Delete Program

During stop mode, press the PGM key on the remote

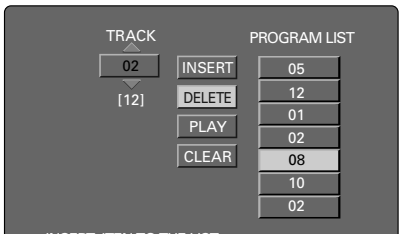
❶ Move the cursor with the Cursor right (►) key to the "PROGRAM LIST" and select the column to be deleted with the Cursor up/down (▲/▼) keys. (The color of the column where the Cursor is located will change.)



❷ Press the Cursor left (◄) key, use the Cursor up/down (▲/▼) keys to move the Cursor to the "DELETE" icon, and press the ENTER key.



Selected value deletes



Release Program play

In following case, Program play would be released.

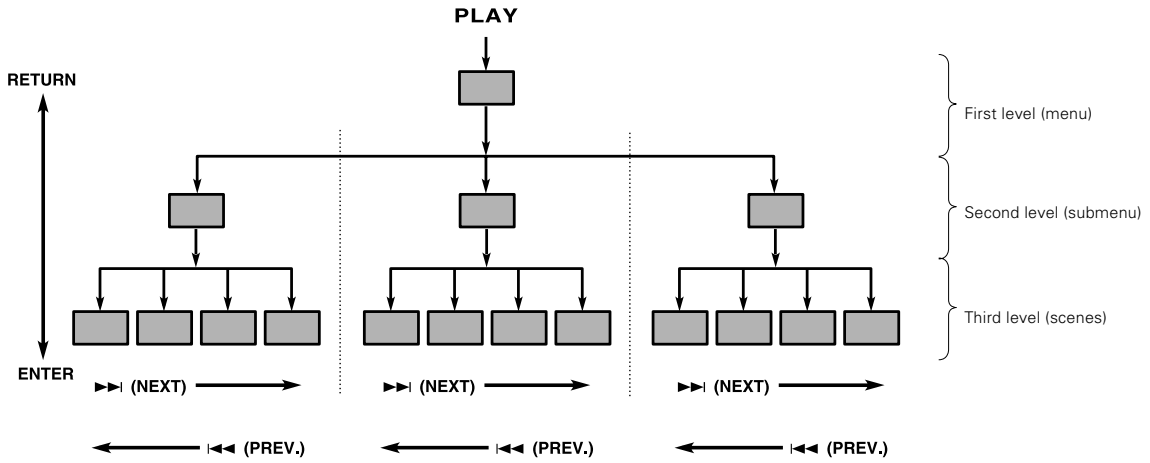
1. **When you open and close tray.**
2. **When you turn power off and on.**
3. **Press theCLEAR key during display of the Program edit screen.**

Note P.B.C. on mode of VCD, the Progam play function does not work. →50

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



Advancing

When an item is selected on the menu screen with the ENTER (Select) 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.

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

Returning

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

Examples of operation keys and indications used during VCD playback

Soft jacket indication	►		I◄◄	►►I	► (Select)
KENWOOD operation key	►	RETURN	I◄◄	►►I	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)

During VCD playback, press the MENU (P.B.C.) 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

To return to menu playback

Press the MENU (P.B.C.) key again.

P.B.C. on mode

Playback will stop when P.B.C. is switched on or off during playback.

Guidance of MP3/JPEG

MP3/JPEG media that can be played back with this equipment

Usable media : CD-ROM, CD-R, CD-RW
Usable formats : ISO9660 level 1 (excluding expanded formats)
Files that can be played back : MP3 files and JPEG 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.**
- **This unit is compatible with ID3-TAG Ver. 1.**
- **DIGITAL output of MP3 data is done not as MP3 data, but as PCM data.**

Naming folders and files

Single-byte characters between A and Z, single-byte numerais between 0 and 9, and the single-byte underscore(_) can be displayed.
Ensure that the "mp3" (MP3 files) or "jpg" (JPEG 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.**
- **Never add the "jpg" extension log to any files other than JPEG files. If the "jpg" extension log is added to any files other than JPEG, the unit will not operate normally.**

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.

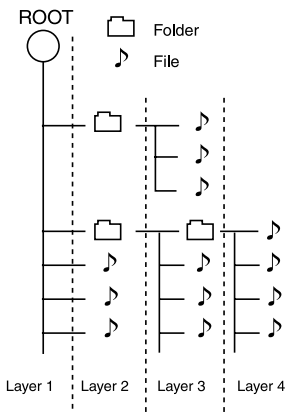
- **It is not possible to confirm that files can be played back correctly while they are being saved onto the media.**

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.

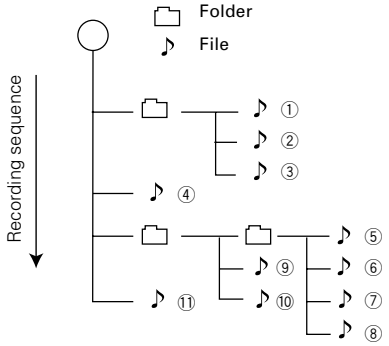
- **There are cases where the folder names and file names will not be displayed correctly depending on the software used to save them.**
- **Do not store files or folders other than MP3 or JPEG on media to be played back with this equipment.**
- **It is recommended that ten or less sessions are stored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

Example for a hierarchical structure



Example for the playback sequence

Playback is made in the order of ① to ⑪ in the following example.

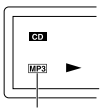


Note

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/JPEG files

- **It is not possible to play back folders and files 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/JPEG files have been recorded before playback will commence.**



This lights when an MP3 or a JPEG disc is set.

Playback

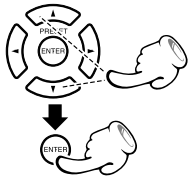
❶ During stop mode, press REPEAT key on the remote to select play mode.

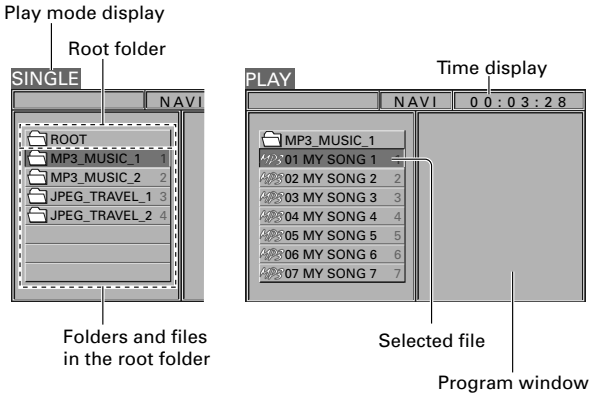
- **The SMART NAVI screen will be displayed when an MP3 or JPEG disc is set.**

Each press switches the play mode.

① **FOLDER** : Playback the folder that is selected.
② **DISC** : Playback all files on the disc.
③ **FOLDER REPEAT** : Repeat the folder that is selected.
④ **DISC REPEAT** : Repeat all files on the disc.
⑤ **REPEAT ONE** : Repeat the file that is selected.

❷ Press Cursor up/down (▲/▼) keys on the remote to select desired file, then press the ENTER key to start playback.





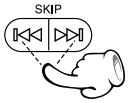
- **When JPEG files are displayed, the display is switched automatically from one file to the next. The switching speed differs according to the file size.**

To stop playback press the ■ (STOP) key.

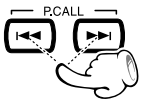
Skipping files

During playback, press the ⏮ or ⏭ key.

MAIN UNIT



REMOTE



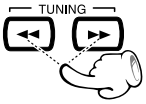
⏮ : To skip backward
⏭ : To skip forward

Note **When the play mode is "FOLDER", "FOLDER REPEAT" or "REPEAT ONE", skipping to outside the folder being played is not possible.**

Searching (only for MP3 files)

During playback, press the ◄◄ or ►► key.

REMOTE



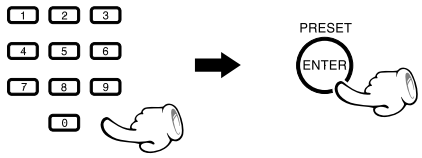
- Each press switches the searching speed.

① FF 2 X (►► key) or FR 2 X (◄◄ key)
② FF 4 X (►► key) or FR 4 X (◄◄ key)
③ FF 6 X (►► key) or FR 6 X (◄◄ key)
④ FF 8 X (►► key) or FR 8 X (◄◄ key)
⑤ Normal playback

Operations

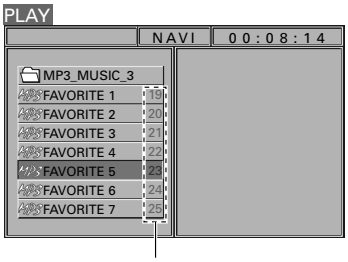
Selects the files to be played back directly

Press the numeric keys on the remote to enter the desired file number or folder number.



(Example)
To select file No. 23 : 2 3

- **When a folder is selected, the contents of the selected folder will be displayed.**
- **When a file is selected, playback of the selected file will start.**



File numbers and folder numbers

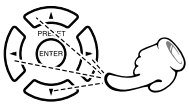
Note

For selection of a number, refer to the file numbers on the SMART NAVI screen.
The file numbers shown on the display of the main unit differ from the file numbers entered directly with the numeric keys, as the numbers for each folder are displayed.

Rotating a picture (JPEG files only)

It is possible to rotating a picture.

During JPEG file playback, press the Cursor (◄/►/▲/▼) keys on the remote.

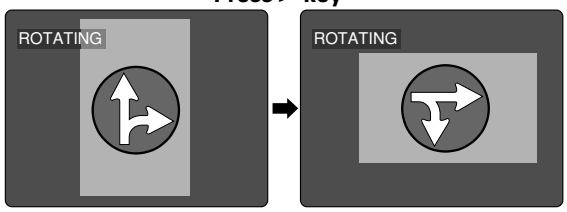


Switching as shown below is done when the cursor keys are pressed.

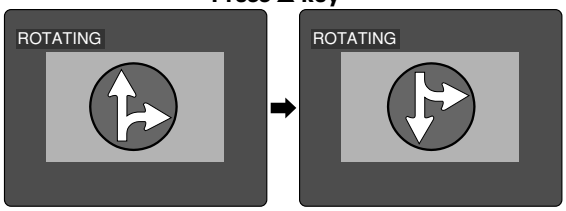
- ► key : 90° rotation in clockwise direction
- ◄ key : 90° rotation in counterclockwise direction
- ▲ key :Vertical mirror image
- ▼ key : Horizontal mirror image

Display examples

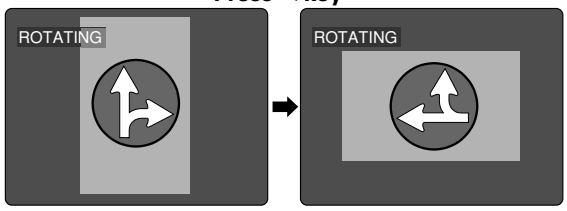
Press ► key



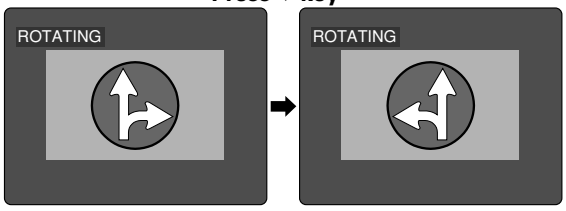
Press ▲ key



Press ◄ key



Press ▼ key



MP3/JPEG Repeat play

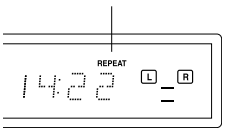
Preform operation in REPEAT mode always under observation of the SMART NAVI screen.

Desired folders or discs can be played back repeatedly.

- "**REPEAT ONE**" : Repeat the file that is selected.
- "**FOLDER REPEAT**" : Repeat the folder that is selected.
- "**DISC REPEAT**" : Repeat the disc that is played.

❶ During stop mode, press the REPEAT key on the remote.

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



Display

❷ Press Cursor up/down (▲/▼) keys on the remote to select desired file, then press the ENTER key or the play (►) key to start playback.

Each press switches the play mode.

① **FOLDER :** Playback the folder that is selected.
② **DISC :** Playback all files on the disc.
③ **FOLDER REPEAT :** Repeat the folder that is selected.
④ **DISC REPEAT :** Repeat all files on the disc.
⑤ **REPEAT ONE :** Repeat the file that is selected.

Do not select DISC REPEAT when files other than MP3 and JPEG have been recorded on the disc.

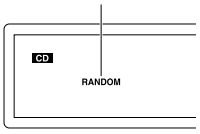
MP3/JPEG Random play

The files of a folder are played in random order.

- "**RANDOM ON" :** The fils of a folder being played will be selected in random order for playback.

❶ During stop mode, press the RANDOM key on the remote.

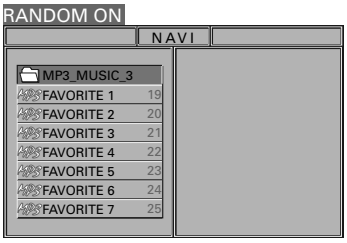
At the time of RANDOM mode "RANDOM" is light.



Display

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

❷ Select a file in the folder to be played, press the play (►) key, and start random playback.



- In case of **RANDOM ON** mode, playback will stop after all files in the folder have been played back once.

To cancel random play

❶ Press the stop (■) key to stop playback.

❷ Press the RANDOM key to cancel random playback.

To random repeat play

During stop mode, press the RANDOM key, then press the REPEAT key on the remote.

- In case of **RANDOM REP** mode, all files in the folder will be played back repeatedly. It is also possible that the same file will be played back twice in a row.

To cancel random repeat play

Press the stop (■) key to stop random repeat playback, then press the REPEAT or RANDOM key.

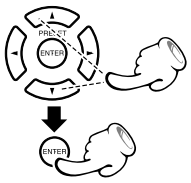
MP3 /JPEG program playback

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

Program Edit

❶ During stop mode, press the PGM key on the remote.

❷ 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 a maximum of about 100 files by repeating step ❷. However, note that the maximum number of programmable files depending on the number of files and folders in the MP3/JPEG disc and on the total number of characters used in the file and folder names.

❸ Press the ■ (Stop) key and confirm the program.

- After the ■ (Stop) key has been pressed and the program has been confirmed, the program no longer can be changed.

❹ Press ► key to start program playback.

- Confirm that the cursor is at the position of a "file" and press the ► key.
  Playback is not possible when the cursor is at the position of a "folder".

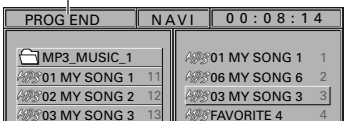
Delete Program

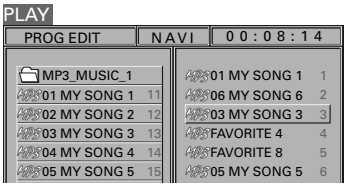
During program edit mode, press the Cursor up/down keys in the program window, select the file to be deleted, and press the CLEAR key.

- After the ■ (Stop) key has been pressed and the program has been confirmed, the program no longer can be changed.
- All programs can be canceled by pressing the **PGM** key during stop in program mode. All programs also can be canceled by opening the disc tray.

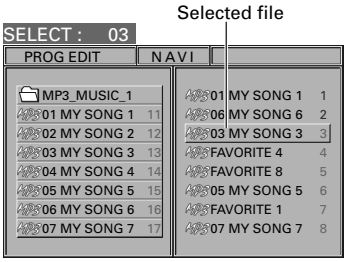
Program window

PROG END display





Selected file



Note Program repeat play is not available with MP3 discs.

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

Operation to reset

The microprocessor may fall into malfunction (impossibility to operate erroneous display, etc.) when the power cord is unplugged while power is ON or due to an external factor.
In this case, switch off the power, wait for several seconds, and then switch the power on again.
Return to the factory defaults by resetting the microprocessor is done as shown as follows.

❶ Press the **MENU** key on the remote to enter **SETUP MENU**.
❷ Select the **PREFERENCE**, then press the **ENTER** key.
❸ Select **DEFAULTS**, press the Cursoe right (►) key to select **RESET**.
❹ Press the numeric keys as shown below.
Press [1], [3], [9], [7], then press the **ENTER** key.

When resetting is done according to this method, all settings, including the settings for password and parental level, will be reset to the factory defaults.

Receiver, speakers

Symptom	Cause	Remedy
Sound is not produced.	● The speaker cords are disconnected. ● The **MUTE** switch of remote control unit is switched ON. ● The headphone plug is inserted into the jack.	● Connect properly referring to "**System connections**". → 11 ● Switch **MUTE** OFF. → 34 ● Unplug the headphone plug. → 34
Sound is not produced from the left or right speakers.	● The speaker cords are disconnected.	● Connect properly referring to "**System connections**". → 11
Radio stations cannot be received.	● The antennas have not been connected. ● A proper broadcasting band has not been selected. ● The frequency of the station to be received is not tuned.	● Connect antennas. → 12 ● Select a band. → 36 ● Tune to the frequency of the desired station. → 36
Noise interferes.	● Car ignition noise. ● Influence of an electric appliance. ● A TV set is installed near the system.	● Install the outdoor antenna in an apart position from the road. → 12 ● Switch the suspected electric appliance OFF. ● Install the TV or the system at an increased distance between them.
A station has been preset but it cannot be received by pressing the P.CALL key.	● The frequency of the preset station is not tunable. ● The preset memory has been cleared because the power cord has been unplugged for a long period.	● Preset stations with tunable frequencies. ● Preset stations again. → 37
The STANDBY indicator flashes red.	● The speaker connection is abnormal.	● Check the speaker connection. ● Check the speaker connection. If this does not help, contact your dealer for service.
No sound from the surround speakers	● The LISTEN mode is STEREO.	● Select Surround with the **LISTEN MODE** key. → 29

DVD player unit

Symptom	Cause	Remedy
Playback does not start when the ►/II key is pressed.	● There is no disc in the player. ● There are no signals recorded on the side of the disc being played.	● Load a disc and press the ►/II key. ● Turn the disc over and properly place it on the disc tray.
Playback starts but no image/sound is seen heard.	● The TV is not turned on. ● The connection cords are not properly connected.	● Turn on the TV. ● Properly reconnect the connection cords. →11
The picture is disrupted when the image is fast forwarded or fast reversed.	● The picture is slightly disrupted during fast forward and fast reverse operations.	● This is not a malfunction.
No sound is heard.	● The audio output cords are not properly connected. ● The volume control of the TV or amplifier is not adjusted properly. ● The player is in a special playback mode.	● Properly connect the audio cords. →11 ● Set the sound volume to an appropriate level. ● Press the ►/II key to resume normal playback mode.
The picture does not look good or the picture/sound quality is poor.	● A nearby device is generating noise. ● The disc is dirty. ● The disc is damaged. ● There is condensation on the optical lens.	● Separate this unit as far as possible from the device you think is generating the noise. ● Refer to the "**Disc handling precautions**" section and wipe dirt from the disc. →7 ● Use a new disc. ● Refer to the "**Caution on condensation**" section and evaporate the condensation. →7
It takes a while for the disc to start playing.	● 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.	● Approximately 10 to 20 seconds are required for a disc to start playing, although the time differs depending on the disc.
The tray opens automatically.	● The disc is not placed horizontally.	● Properly place the disc on the tray.
The top and bottom of the screen cannot be seen, or the screen becomes black-and-white.	● The video format of the disc being played does not match that of the connected TV monitor.	● Refer to the "**Video formats**" section ,and use a disc with the appropriate video format for your TV or a TV with the appropriate video format for the disc. →10
The subtitle is not displayed.	● The DVD disc being played does not contain the recording of subtitles. ● The subtitle mode is set to off.	● The subtitle cannot be displayed when the DVD disc being played does not contain the recording of subtitles. ● Press the **SUBTITLE** key to switch on the subtitle mode. →43
The voice (or subtitle) language cannot be changed.	● The DVD disc being played does not contain the recording of more than one audio (or subtitle) language.	● 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.
The viewing angle cannot be changed.	● The DVD disc being played does not contain the recording of more than one angle. ● You are attempting to switch the angle in a DVD section where more than one angle is not recorded.	● The viewing angle cannot be changed when the DVD disc being played does not contain the recording of more than one angle. ● More than one viewing angle may be recorded only in limited sections in a disc.

DVD player unit

Symptom	Cause	Remedy
Playback will not start even after a title is selected.	• A viewing restriction (**PARENTAL)** has been set for the disc.	• Check the viewing restriction level (**PARENTAL**) setting.
The parental level cannot be changed.	• You have forgotten the password.	• Set the initial setup to the factory setup with the following procedure. ① Press the **MENU** key on the remote to enter **SETUP MENU**. ② Select the **PREFERENCE**, then press the **ENTER** key. ③ Select **DEFAULTS**, press the Cursor right (►) key to select **RESET**. ④ Press the numeric keys as shown below. Press [1], [3], [9], [7], then press the **ENTER** key. The password set at the time of shipping from the factory is "0000".
The voice or subtitle language selected in the initial setting is not played.	• The DVD disc being played does not contain the recording of the selected voice or subtitle language. • The initial playback language is specified by the DVD disc. • The DVD specifications provide for selection at the menu screen.	• Use a DVD disc containing the recording of the selected voice or subtitle language. • Press **SUBTITLE** or the **AUDIO** key on the remote and select the language. →43 • Select at the menu screen of the disc.
Menu screen messages are not shown in the desired language.	• The menu language function (MENU) is not set to desired language.	• Select disc menu language. →25
A VCD cannot be played using menus.	• The VCD disc being played is not compatible with **P.B.C.**	• Menu playback is available only with VCD discs recorded with **P.B.C.**
"THE PLAYER IS LOCKED" will be displayed on the TV screen (the 🔒 mark on the display of the main unit will be lit), and disk tray opening/closing operation will not be accepted.	• Operation is prohibited.	• Press the MENU key of the remote control for several seconds while holding the stop (■) key on the main unit pressed. "THE PLAYER IS UNLOCKED" will be displayed (the 🔒 mark will not be lit, and operation will become possible.

Remote control unit

Symptom	Cause	Remedy
Remote control operation is not possible.	• Batteries are exhausted. • The remote control is too far away from the system, the controlling angle is deviated or there is an obstacle in between.	• Replace with new batteries. • Operate the unit inside the remote controllable range.

Inhibition icon

Symptom	Cause	Remedy
The inhibition icon is displayed and remote control is not possible.	• Playback is restricted intentionally by the software producer.	• The operation is inhibited. Please try another operation.

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

Main unit

[Amplifier section]

Effective output power during STEREO operation
1 kHz, 10 % T.H.D. at 8 Ω ..... 55 W + 55 W
Effective output power during SURROUND operation
Front (1 kHz, 10 % T.H.D. at 8 Ω) ..... 55 W + 55 W
Center (1 kHz, 10 % T.H.D. at 8 Ω) ..... 55 W
Surround (1 kHz, 10 % T.H.D. at 8 Ω) ..... 55 W + 55 W
Subwoofer (100 Hz, 10 % T.H.D. at 4 Ω) ..... 100 W
Input sensitivity / impedance
CABLE/SAT / VCR ..... 250 mV / 27 kΩ
Output level / impedance
VCR ..... 250 mV / 1 kΩ

[Tuner section]

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

[DVD/CD/VIDEO CD player section]

Signal read system ..... Semiconductor laser
Wave length ..... For DVD;640 to 660 nm
For CD; 770 to 810 nm
Power class ..... Class 2 (IEC)
Wow and flutter ..... Less than unmeasurable Limit
Video output format ..... 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 ..... 0.684 Vp-p (75 Ω)
C/r output level/impedance ..... 0.684 Vp-p (75 Ω)
RGB output level (SCART) ..... 0.7 Vp-p (75 Ω)
Compression format MPEG1/MPEG2

[General]
Power consumption ..... 100 W
Dimensions ..... W:400 mm (15-3/4")
H: 78 mm (3-1/16")
D:390 mm (15-3/8")
Weight (net) ..... 5.0 kg

KSW-6200 Speakers (Front/Center)

Enclosure ..... Bass-Refrex (Magnetically shielded)
Speaker configuration ..... 80 mm (3"), cone type
Impedance ..... 8 Ω
Power Handling Capacity (DVR-6200) ..... 55 W
Dimensions ..... W: 100 mm (3-15/16")
H: 180 mm (7-1/16")
D: 124 mm (4-7/8")
Weight (net) ..... 0.9 kg (1 piece)

KSW-6200 Speakers (Surround)

Enclosure ..... Bass-Refrex
Speaker configuration ..... 80 mm (3"), cone type
Impedance ..... 8 Ω
Power Handling Capacity (DVR-6200) ..... 55 W
Dimensions ..... W: 100 mm (3-15/16")
H: 180 mm (7-1/16")
D: 124 mm (4-7/8")
Weight (net) ..... 0.7 kg (1 piece)

KSW-6200 Speaker (Subwoofer)

Enclosure ..... Bass-reflex type
Speaker configuration
Woofer ..... 160 mm (6-1/2"), cone type
Impedance ..... 4 Ω
Power Handling Capacity (DVR-6200) ..... 100 W
Dimensions ..... W:170 mm (6-11/16")
H: 355 mm (14")
D:341 mm (13-7/16")
Weight (net) ..... 5.2 kg

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

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

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 _____