ONKYO®

DVD Receiver

DR-S2.2

Instruction Manual

Thank you for purchasing the Onkyo DVD Receiver. Please read this manual thoroughly before making connections and turning on the power. Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new DVD Receiver. Please retain this manual for future reference.







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WARNING:

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

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.





<u>A</u>

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.

AVIS

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.

Important Safeguards

- 1. **Read Instructions** All the safety and operating instructions should be read before the appliance is operated.
- 2. **Retain Instructions** The safety and operating instructions should be retained for future reference.
- 3. **Heed Warnings** All warnings on the appliance and in the operating instructions should be adhered to.
- 4. Follow Instructions All operating and use instructions should be followed.
- 5. **Cleaning** Unplug the appliance from the wall outlet (the mains) before cleaning. The appliance should be cleaned only as recommended by the manufacturer.
- 6. Attachments Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.
- Water and Moisture Do not use the appliance near water –for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- 8. Accessories Do not place the 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.



PORTABLE CART WARNING

S3125A

- 10. 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 openings should never be blocked by placing the appliance on a bed, sofa, rug, or other similar surface. The appliance should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided. There should be free space of at least 20 cm (8 in.) and an opening behind the appliance.
- 11. **Power Sources** The appliance should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.
- 12. **Grounding or Polarization** The 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.

- 13. Power-Cord Protection Power-supply cords (mains leads) should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords (leads) at plugs, convenience receptacles, and the point where they exit from the appliance.
- 14. Outdoor Antenna (Aerial) Grounding If an outside antenna (aerial) or cable system is connected to the appliance, be sure the antenna (aerial) or cable 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 regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna- (aerial-) discharge unit, size of grounding conductors, location of antenna- (aerial-) discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See FIGURE 1.
- 15. Lightning For added protection for the appliance during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet (the mains) and disconnect the antenna (aerial) or cable system. This will prevent damage to the appliance due to lightning and power-line surges.
- 16. Power Lines An outside antenna (aerial) 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 (aerial) system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 17. **Overloading** Do not overload wall outlets, extension cords (leads), or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 18. Object and Liquid Entry Never push objects of any kind into the appliance through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the appliance.
- Servicing Do not attempt to service the appliance yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- Damage Requiring Service Unplug the appliance form the wall outlet (the mains) and refer servicing to qualified service personnel under the following conditions:
 - A. When the power-supply cord (mains lead) or plug is damaged,
 - B. If liquid has been spilled, or objects have fallen into the appliance,
 - C. If the appliance has been exposed to rain or water,
 - D. If the appliance does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions 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. If the appliance has been dropped or damaged in any way, and
 - F. When the appliance exhibits a distinct change in performance this indicates a need for service.

- 21. **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 part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 22. **Safety Check** Upon completion of any service or repairs to the appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operation condition.
- 23. Wall or Ceiling Mounting The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 24. **Heat** The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- 25. Liquid Hazards The appliance shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the appliance.

Precautions

For U.S. model

The laser is covered by a housing which prevents exposure during operation or maintenance. However, this product is classified as a Laser Product by CDRH (Center for Devices and Radiological Health) which is a department of the Food and Drug Administration. According to their regulations 21 CFR section 1002.30, all manufactures who sell Laser Products must maintain records of written communications between the manufacturer, dealers and customers concerning radiation safety. If you have any complaints about instructions or explanations affecting the use of this product, please feel free to write to the address on the back page of this manual. When you write us, please include the model number and serial number of your unit.

In compliance with Federal Regulations, the certification, identification and the period of manufacture are indicated on the rear panel.

FCC INFORMATION FOR USER

CAUTION:

The user changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. 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:

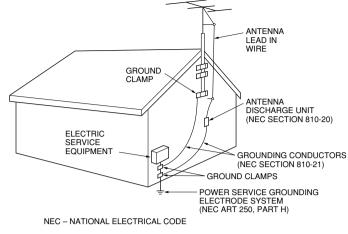
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- · Consult the dealer or an experienced radio/TV technician for help.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC, ANSI/NFPA 70, which 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.

FIGURE 1:

EXAMPLE OF ANTENNA (AERIAL) GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70



S2898A

For Canadian model

This class B digital apparatus complies with Canadian ICES-003.

For models having a power cord with a polarized plug: CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

Modèle pour les Canadien

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Sur les modèles dont la fiche est polarisée:

ATTENTION: POUR ÈVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

For British model

Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.

IMPORTANT

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

- Blue: Neutral
- Brown: Live

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

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IMPORTANT

A 5 ampere fuse is fitted in this plug. Should the fuse need to be replaced, please ensure that the replacement fuse has a rating of 5 amperes and that it is approved by ASTA or BSI to BS1362. Check for the ASTA mark or the BSI mark on the body of the fuse.

IF THE FITTED MOULDED PLUG IS UNSUITABLE FOR THE SOCKET OUTLET IN YOUR HOME THEN THE FUSE SHOULD BE REMOVED AND THE PLUG CUT OFF AND DISPOSED OF SAFELY. THERE IS A DANGER OF SEVERE ELECTRICAL SHOCK IF THE CUT OFF PLUG IS INSERTED INTO ANY 13 AMPERE SOCKET.

If in any doubt, please consult a qualified electrician.

CAUTION:

VISIBLE LASER RADIATION WHEN OPEN AND INTERLOCK FAILED OR DEFEATED. DO NOT STARE INTO BEAM.

CAUTION:

THIS PRODUCT UTILIZES A LASER. USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

This unit contains a semiconductor laser system and is classified as a "CLASS 1 LASER PRODUCT." So, to use this model properly, read this Instruction Manual carefully. In case of any trouble, please contact the store where you purchased the unit. To prevent being exposed to the laser beam, do not try to open the enclosure.

For European model



This label on the rear panel states that:

- 1. This unit is a CLASS 1 LASER PRODUCT and employs a laser inside the cabinet.
- 2. To prevent the laser from being exposed, do not remove the cover. Refer servicing to qualified personnel.

1. Regional Restriction Codes (Region Number)

Regional restriction codes are built into DVD Receivers and DVD videos for each sales region. If the regional code of the DVD Receiver does not match one of the regional codes on the DVD video, playback is not possible.

The regional number can be found on the rear panel of the DVD Receiver. (e.g. $\textcircled{\begin{minipage}{l} m}{l}$ for Region 1)

2. About This Manual

This manual explains the basic procedures for operating the DVD Receiver. Some DVD videos do not support the full potential of the DVD technology. Your DVD Receiver may therefore not respond to all operating commands. Refer to instruction notes on discs.

A " \bigcirc " mark may appear on the TV screen during operation. It means that the operation is not permitted by the DVD Receiver or the disc.

3. Recording Copyright

Recording of copyrighted material for other than personal use is illegal without permission of the copyright holder.

4. AC Fuse

The fuse is located inside the chassis and is not user-serviceable. If power does not come on, contact your Onkyo authorized service center.

5. Power

WARNING

BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where the unit will be used meets the required voltage (AC 120V 60Hz or AC 230-240V 50Hz) written on the rear panel.

6. Do not touch the unit with wet hands

Do not handle the unit or power cord (mains lead) when your hands are wet or damp. If water or any other liquid enters the case, take the unit to an authorized service center for inspection.

7. Location of the unit

- Place the unit in a well-ventilated location.
- Take special care to provide plenty of ventilation on all sides of the unit especially when it is placed in an audio rack. If ventilation is blocked, the unit may overheat and malfunction.
- Do not expose the unit to direct sunlight or heating units as the unit's internal temperature may rise and shorten the life of the pickup.
- Avoid damp and dusty places and places directly affected by vibrations from the speakers. In particular, avoid placing the unit on or above one of the speakers.
- Be sure the unit is placed in a horizontal position. Never place it on its side or on a slanted surface as it may malfunction.
- When you place the unit near a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. In this case, place the unit away from the TV, radio, or VCR.

8. Care

From time to time you should wipe the front and rear panels and the cabinet with a soft cloth. For heavier dirt, dampen a soft cloth in a weak solution of mild detergent and water, wring it out dry, and wipe off the dirt. Following this, dry immediately with a clean cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since these could damage the finish or remove the panel lettering.

9. Notes on Handling

- When shipping the unit, use the original shipping carton and packing materials. For maximum protection, repack the unit as it was originally packed at the factory.
- Do not use volatile liquids, such as insect spray, near the unit. Do not leave rubber or plastic products in contact with the unit for a long time. They will leave marks on the finish.
- The top and rear panels of the unit <u>may become warm after a</u> long period of use. This is not a malfunction.
- When the unit is not in use, be sure to remove the disc and turn off the power.
- If you do not use the unit for a long period, the unit may not function properly in the future. Turn on and use the unit occasionally.

10. To Obtain a Clear Picture

The unit is a high technology, precision device. If the optical pickup lens and disc drive parts are dirty or worn down, the picture quality becomes poor. To obtain a clear picture, we recommend regular inspection and maintenance (cleaning or parts replacement) every 1,000 hours of use depending on the operating environment. For details, contact your nearest dealer.

11. Notes on Moisture Condensation Moisture condensation damages the unit. Please read the following carefully.

What is moisture condensation?

Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day. Drops of water form on the outside of the glass. In the same way, moisture may condense on the optical pick-up lens inside the unit, one of the most crucial internal parts of the unit.

Moisture condensation occurs in the following cases.

- When you bring the unit directly from a cold place to a warm place.
- When you use the unit in a room where you just turned on the heater, or a place where the cold wind from the air conditioner directly hits the unit.
- In summer, when you use the unit in a hot and humid place just after you move the unit from an air conditioned room.
- When you use the unit in a humid place.
- Do not use the unit when moisture condensation may occur. If you use the unit in such a situation, it may damage discs and internal parts. Remove the disc, connect the power cord (mains lead) of the unit to the wall outlet (the mains), turn on the unit, and leave it for two or three hours. After a few hours, the unit will have warmed up and evaporated any moisture. Keep the unit connected to the wall outlet (the mains) and moisture condensation will seldom occur.

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Features

Receiver Features

- 40 watts per channel into 6 ohms (FTC)
- 35 watts per channel into 6 ohms (DIN)
- 45 watts per channel into 6 ohms (EIAJ)
- 96 kHz/24-Bit DAC System
- DTS* & Dolby** Digital Decoders
- Acoustic Control
- 2 Digital Inputs/1 Output
- Subwoofer Preout
- 4 Audio Inputs/2 Outputs
- 2 S-Video Inputs/2 Outputs
- Theater-Dimensional***
- 30 FM/AM Random Presets
- IPM (Intelligent Power Management)

■ DVD/CD Player Features

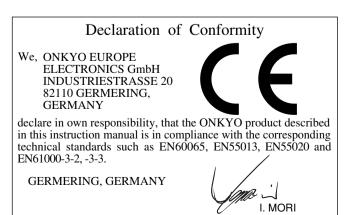
- DTS, Dolby Digital, and PCM Compatible
- Component-Video Output (Other than European model)
- SCART connector (European model)
- Progressive Scan (North American model)
- 27 MHz/10-Bit Video DAC
- Plays DVDs, MP3 CDs, CD-Rs, CD-RWs, Video CDs and Audio CDs
- High-Resolution On-screen Display
- Program Memory Playback
- Auto Last Play
- Dual-Wavelength Optical Pickup
- Sand-Blasted Aluminum Front Panel

Other Features

- Full Function **RI**-compatible Remote Control
- Preprogrammed Learning Remote Control

Memory Preservation

This unit does not require memory preservation batteries. A built-in memory power backup system preserves the contents of memory during power failures and even when the POWER switch is set to OFF (European and some Asian models) or when the power cord is unplugged. The power cord must be plugged and the POWER switch must be set to ON (European and some Asian models) in order to charge the backups system. The memory preservation period after the unit has been turned off varies depending on climate and placement of the unit. On average, memory contents are protected over a period of a few weeks after the time the unit has been turned off. This period is shorter when the unit is exposed to a very humid climate.

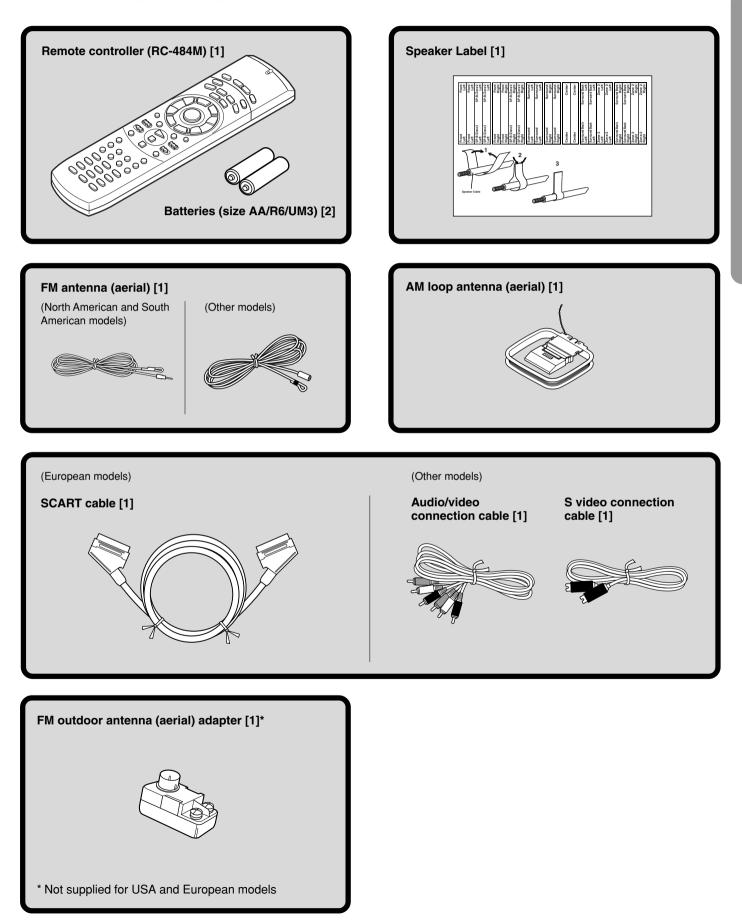


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- *** "Theater-Dimensional" and Theater-Dimensional are trademarks of Onkyo Corporation.

Supplied Accessories

Make sure your box contains everything listed below. If any pieces are missing, contact your nearest Onkyo service station. The number of accessories is indicated in brackets.



Notes on Discs

This section shows you how to handle, clean, and store discs.

Playable Discs

This DVD Receiver can playback the following discs.

	Disc mark	
DVD videos		
VIDEO CDs	DIGITAL VIDEO	
Audio CDs	COMPACT ⁻¹	COMPACT ⁻¹ DIGITAL AUDIO ReWritable

- *1 This unit can play CD-R and CD-RW discs recorded in CD Audio or Video CD format, or with MP3 audio files. However, there may be some discs that cannot be played back with this unit. The causes of this impossibility include incompletion of disc finalization and the recording characteristics of the recorder as well as the properties, damage or stain of the disc in use and stain or condensation on the pickup lens of this unit. For details, please refer to the instruction manual of the recorder.
- You cannot playback discs other than those listed above.
- You cannot play discs such as CD-ROM, DVD-RAM, DVD-RW, DVD-Audio, Photo CD, CD-G etc., even if the marks in the above table are labeled on those discs.
- This DVD Receiver uses the PAL/NTSC color system, and cannot playback DVD videos recorded in any other color system (SECAM, etc.).
- Avoid using heart-shaped or octagonal discs. Playing irregularly shaped discs may damage the internal mechanism of the DVD Receiver.
- Do not use discs that have residue from adhesive tape, rental discs that have peeling labels, or discs that have custom labels or stickers. Otherwise, you may not be able to eject the discs or the DVD Receiver may become inoperative.

About VIDEO CDs

This DVD Receiver supports VIDEO CDs equipped with the PBC (Version 2.0) function. (PBC is the abbreviation of Playback Control.)

You can enjoy two playback variations depending on the type of disc.

- VIDEO CD not equipped with PBC function (Version 1.1) Sound and movies can be played on this DVD Receiver in the same way as an audio CD.
- VIDEO CD equipped with PBC function (Version 2.0) In addition to operation of the VIDEO CD not equipped with the PBC function, you can enjoy playback with interactive software and search function using the menu displayed on the TV screen (Menu Playback). Some of the functions described in this Instruction Manual may not work with some discs.

MP3 compatibility information

- The CD-ROM must be ISO9660 compatible.
- Files should be MPEG1 Audio Layer 3 format, 44.1 or 48kHz, fixed bit-rate. Incompatible files will not play and "UNPLAYABLE" will be displayed.
- This DVD Receiver is not compatible with variable bit-rate (VBR) files. Be sure to make MP3 CD with fixed bit-rate setting.
- This system only plays tracks that are named with the file extension ".mp3" or ".MP3".
- This system is not compatible with multi-session discs. If you try an play a multi-session disc, only the first session will be played.
- Use CD-R or CD-RW media for recording your MP3 files. The disc must be finalized in order to play.
- Audio encoded at 128kbps should sound close to regular audio CD quality. Although this system will play lower bitrate MP3 tracks, the sound quality becomes noticeably worse at lower bit-rates.
- Only the first 8 characters of folder and track names (excluding the ".mp3" extension) are displayed.
- This system can recognize a maximum of 250 folders and 250 tracks. Discs containing more than 250 folders or tracks will not play.

Notes on Copyright

It is forbidden by law to copy, broadcast, show, broadcast on cable, play in public, and rent copyrighted material without permission.

DVD videos are copy protected, and any recordings made from these discs will be distorted.

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

Handling Discs

• Do not touch the playback side of the disc.



· Do not attach paper or tape to discs.



Cleaning Discs

• Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outwards with a soft cloth. Always keep the disc clean.



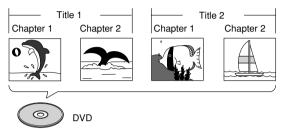
- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvent such as thinner, benzine, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.

Storing Discs

- Do not store discs in a place subject to direct sunlight or near heat sources.
- Do not store discs in places subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.

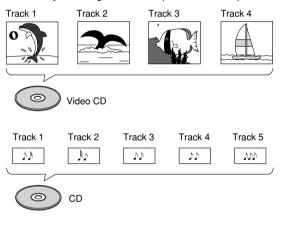
Differences in Disc Composition

All discs are divided up into smaller, more manageable sections so that you can find specific content more easily. DVDs are divided into one or more titles. Each title may be further divided into several chapters. Occassionally, a chapter may contain index points, effectively dividing the chapter up into several parts, too.



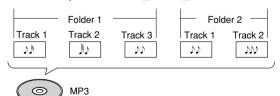
■ Video CD/CD

Video CDs and CDs are divided into a number of tracks. In rare cases, a track may contain a number of index points, effectively dividing the track up into several parts.



MP3

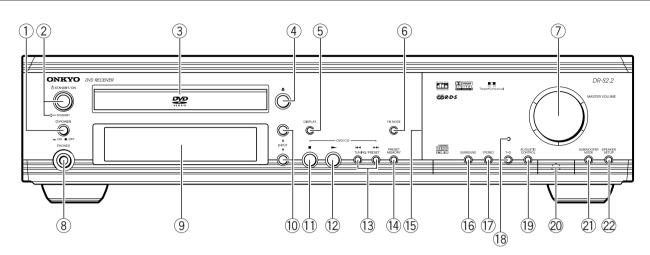
MP3 (MPEG1 Audio Layer 3) is a compressed audio file format. Files are recognized by their file extension ".mp3" or ".MP3". Folders that contain MP3 files are automatically numbered F_001, F_002, etc. Tracks within folders are automatically numbered T_001, T_002, etc.



Index to Parts and Controls

For operational instructions, refer to the page indicated in brackets.

■Front panel



(European and some Asian models only) POWER switch [26]

Turns on the main power supply for the DVD Receiver. The DVD Receiver enters standby state. Pressing the switch again to the off position (\blacksquare OFF) shuts down the main power supply into the DVD Receiver.

Before turning on the power, make sure all cables are properly connected.

2 STANDBY/ON button, STANDBY indicator [26, 37]

When STANDBY/ON button is pressed to ON (while the POWER switch is set to ON on the European and some Asian models), the DVD Receiver turns on. The STANDBY indicator turns off and the display lights up. Pressing the button again returns the DVD Receiver to the standby state. This state turns off the display, disables control functions.

3 Disc tray [34]

When loading a disc, place discs in the disc tray with the label side facing up.

④ ▲ button [34, 37]

Press to open and close the disc tray.

5 DISPLAY button [62, 63]

Press to change the information being displayed.

6 FM MODE button [38]

Press to switch the reception mode between stereo and monaural.

⑦ MASTER VOLUME control [42]

The MASTER VOLUME dial is used to control the volume level.

8 PHONES jack [42]

This is a standard stereo jack for connecting stereo headphones.

9 Display [11]

10 INPUT ▲/▼ buttons [38, 39, 40]

Press to select the input source.

① ■ button [37]

Press to stop playback. Pressing once enables playback to resume from a point shortly before the location where it was stopped. Pressing twice causes the disc to return to the beginning of the disc when playback starts again.

- 12 ► button [34, 37]
 Press to start or resume playback.
- ① TUNING/PRESET I ◄◄/►►I buttons [36, 38, 39] Press to go back or advance to previous chapters/tracks. Also, use these buttons to change the tuner frequency.
- PRESET MEMORY button [38, 39] Press to assign the radio station that is currently tuned in to a preset channel or delete a previously preset station.
- **15 Front panel illumination**
- (6 SURROUND button [48]

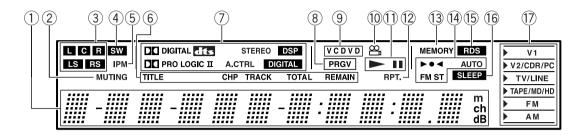
Press to select a surround mode.

- ⑦ STEREO button [48] Press to change the listening mode to "Stereo".
- 18 T-D button, indicator [47]

Press to activate Theater-Dimensional mode. T-D indicator illuminates in Theater-Dimentional mode. T-D indicator goes off when other mode is selected.

- ① ACOUSTIC CONTROL button [50] Press to change the acoustic mode to boost the super bass/high frequency sounds.
- ② Remote control sensor [15] Point the remote control toward the remote sensor to operate the DVD Receiver.
- ② SUBWOOFER MODE button [31] Press to select the subwoofer mode.
- (North American and South American model)
 SPEAKER A/B button [29, 42]
 Press to switch the speaker systems in use between A and B.

(Other models) SPEAKER SETUP button [30] Press to select the optimum speaker configuration.



1 Multipurpose display

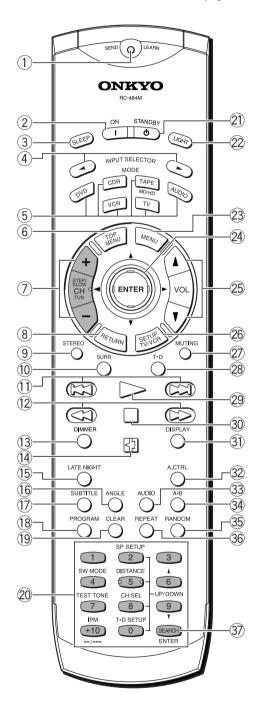
- ② MUTING indicator [42] Flashes when the mute function is active.
- ③ Speaker setup indicators [29, 30] Indicate the speaker configuration.
- ④ SW indicator [31] Lights up when the subwoofer mode is set to SW Mode 1, 2 or 3.
- (5) **IPM (Intelligent Power Management) indicator [22]** Lights up when the IPM function is active.
- (6) TITLE, CHP, TRACK, TOTAL, REMAIN indicators [62, 63] Indicate display mode of the current chapter of DVD or track number of Video CD or CD.
- Source/Listening mode indicators [40, 45] One of source indicators lights to show the format of the current source. In addition, one of the listening mode indicators lights according to the current listening mode.
- 8 PRGV indicator [67] Lights up when the DVD Receiver is set to progressive-scan video.
- Inserted disc indicator [34] Indicates the type of current disc that is loaded.

- ① Angle indicator [60] Lights up while playing a scene recorded with multiple angles.
- ▶, II indicators [34]
 Illuminates in play or pause mode.
- RPT. indicator [54]
 Illuminates during repeat playback. Also RPT. indicator illuminates during A-B repeat playback.
- 13 MEMORY indicator [38] Lights up when the MEMORY button is pressed in the radio station preset operation.
- (④ ►●◀, AUTO, FM ST indicators [38] Indicate the reception mode.
- (5) **RDS indicator (European models only)** [39] Lights up when a RDS station is received.
- (6 SLEEP indicator [43] Lights up when the sleep timer is active.
- Input source indicators [38, 40] Show current input source.

Remote controller

Explanations on this page are for controlling the DVD Receiver. The supplied remote controller is a useful tool to help you operate of your home theater.

To operate other components, see "Operating the Onkyo MD Recorder/CD Recorder/Cassette Tape Deck/Hard Disk Recorder With the Supplied Remote Controller" on page 41 and "Controlling other components connected to the DVD Receiver" on pages 78-83.



To control the DVD Receiver, press MODE DVD or MODE AUDIO first. Press MODE DVD to operate DVD section, or MODE AUDIO to operate receiver section. Functions of graied buttons in the illustration vary depending on the mode.

- ① SEND/LEARN indicator [15, 81, 83] Lights red when sending a signal.
- ② **ON button [27]** Turns on the DVD Receiver.
- ③ **SLEEP button [43]** For setting the sleep timer.
- ④ INPUT SELECTOR ◄/► buttons [39, 40] Press to select the input source.
- (5) MODE buttons [15, 41, 78, 80, 82, 83] For selecting the component to be operated by the remote controller.
- 6 TOP MENU button [35, 53]

Press to call up the top menu programmed on the DVD. Depending on the DVD, the top menu may be identical to the DVD menu.

⑦ (MODE AUDIO is selected) CH +/- buttons [39]

For selecting a tuner preset channel.

(MODE DVD is selected) STEP/SLOW +/- buttons [41]

Press STEP/SLOW +/- during playback to view still frame. Press and hold STEP/SLOW +/- during playback to view slow playback. In still frame, press STEP/SLOW + to advance DVDs and Video CDs frame by frame and STEP/SLOW - to back up a few frames at a time (DVD only).

8 RETURN button [35, 64]

Use to go one menu back (current settings are maintained). Use RETURN when you do not want to change the option setting in a menu.

9 STEREO button [48]

Press to change the listening mode to "Stereo".

10 SURR button [48]

Press to select the surround mode.

(1) I<</▶→ buttons [35, 36]

During playback of DVD, CD and Video CD, press I ← to go back to a previous chapter/track and ►►I to advance to the next chapter/track .

12 **◄◄/▶▶** buttons [36]

During playback of DVD and Video CD, press ►► to perform fast forward scanning or ◄< to perform fast reverse scanning of DVD and Video CD. When a CD or MP3 is loaded, audio scanning is performed.

13 DIMMER button [43]

For adjusting the brightness of the front display.

(4) 🖾 button [34, 51]

Press to pause playback of a disc. Press again to resume playback.

(5) LATE NIGHT button [50] Press to change the late night setting. (6) ANGLE button [60] Some DVDs are recorded with various camera angle playback options. Press ANGLE repeatedly to display different camera angles. (7) SUBTITLE button [61] Press repeatedly to select one of the subtitle languages programmed on a DVD or to turn the subtitles off. 18 PROGRAM button [53, 56, 57, 58] You can program titles, chapters, or tracks to play back in a desired order. Programs can be a maximum of 24 steps. (9) CLEAR button [53, 54, 57] Works in conjunction with a number of player functions. Use to cancel repeat and random playback, and to edit programs. ② (When MODE DVD is selected) Number buttons (1-9, +10, 0) [35, 52, 78] Use to perform direct title/folder and chapter/track searches, and to input numerical values. SEARCH button [52] Press to perform a title/folder, chapter/track or elapsed time search. (When MODE AUDIO is selected) SW MODE button [31] Press to select the subwoofer mode. TEST TONE button [33, 49] Outputs a test tone for setting speaker levels. IPM (Intelligent Power Management) button [22] Activates the IPM function. SP SETUP button [29, 30] Press to select the optimum speaker configuration. **DISTANCE** button [32] For setting the distances for each speaker. CH SEL button [33, 49] Selects a speaker for changing the speaker output level. **T-D SETUP [47]** For setting the T-D parameters. UP/DOWN ▲/▼ [32, 33, 47, 49] Press to adjust the value. 2 STANDBY button [37] Put the DVD Receiver in standby. 22 LIGHT button Illuminates the buttons. This button is useful when using the remote controller in dark locations. When pressed, the buttons on the remote controller light green.

23 MENU button [35, 53] Use to display or close the DVD menu or MP3 Navigator screen.

② Cursor (◄/►/▲/▼/ENTER) [27, 34, 53, 64] Use to move through the options on menu screens. Press to enter settings.

25 VOL ▲/▼ buttons [42]

For adjusting the volume.

- SETUP button [27, 64] Press when the DVD Receiver is in either play or stop mode to open and close the Setup screen.
- ② MUTING button [42] Activates the mute function.
- T-D button [47] Press to activate Theater-Dimensional mode.
- 29 ► button [34, 37, 52] Press to start or resume playback.

30 ■ button [35, 37]

Press to stop playback. Pressing once enables playback to resume from a point shortly before the location where it was stopped. Pressing twice causes the disc to return to the beginning of the disc when playback starts again.

③ DISPLAY button [62, 63]

Press to change the information being displayed.

32 A.CTRL button [50]

Press to change the acoustic mode to boost the super bass/high frequency sounds.

3 AUDIO button [61]

Press repeatedly to select one of the audio languages programmed on a DVD.

For Video CD, CD and MP3, each press changes the audio output as follows.

 $\begin{tabular}{ll} \begin{tabular}{ll} \be$

34 A-B button [54]

Press at the beginning and end of the section you want to repeat or to mark a location you want to return to.

35 RANDOM button [55]

Press to play chapters/tracks in random order.

36 REPEAT button [54]

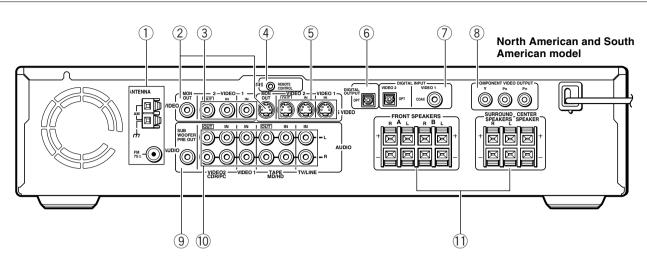
Use to set the repeat mode.

3 ENTER button [81-83]

Press to program the commands of remote controller for other devices into the remote controller.

Index to Parts and Controls

Rear panel



Shapes of jacks vary depending on the area which it was purchased.

1 ANTENNA terminals [24, 25]

These terminals are for connecting the FM antenna and AM antenna.

2 MON OUT jacks [16, 17]

The monitor output includes both RCA type and S video configurations. This output is for connecting television monitor or projector.

③ VIDEO (VIDEO 1 IN / VIDEO 2 IN/OUT) jacks [21]

There are 2 video inputs and 1 outputs. Connect LD players, VCRs or other video components to the video inputs. The video output channel can be used to connect video tape recorder for making recordings.

④ RIREMOTE CONTROL connector [23]

Connect the Onkyo components that have \mathbf{RI} connectors such as a CD player, and cassette tape deck using the \mathbf{RI} cables provided with them. When these components are interconnected, they can be controlled from the remote controller provided with the DVD Receiver.

After connecting the \mathbf{RI} connectors, check the operation of the remote controller buttons for use in controlling other components.

5 SVIDEO (VIDEO 1 IN / VIDEO 2 IN/OUT) jacks [21]

There are 2 video inputs and 1 output. Connect LD players, VCRs or other video components to the video inputs. The video output channel can be used to be connected to video tape recorder for making recordings.

6 DIGITAL OUTPUT OPT jack [21, 22]

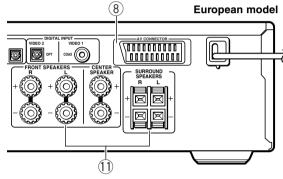
This jack is for connecting MD recorder, CD recorder, hard disk recorder or other component with optical fiber cable.

⑦ DIGITAL INPUT (VIDEO 1 COAX, VIDEO 2 OPT) jacks [21] These are the digital audio inputs. There are 1 digital input with optical jacks and 1 with a coaxial jack. The inputs accept digital audio signals from MD players, hard disk recorders, CD players, or other digital source component.

(European models)

AV CONNECTOR terminal [17]

Use a 21-pin SCART cable to connect to a TV or monitor compatible with this type of connection. Both audio (2 channel stereo) and video (Video, S-video, and RGB) signals are output from the AV CONNECTOR.



(Other models) COMPONENT VIDEO OUTPUT Y/PB/PR jacks [16]

If your TV or monitor has component video inputs, you can produce a higher quality picture on your TV or monitor by connecting to the component video outputs on this unit.

③ SUB WOOFER PRE OUT jack [18, 19] This terminal is for connecting an active subwoofer.

① AUDIO L/R (TV/LINE IN / TAPE/MD/HD IN/OUT / VIDEO 1 IN / VIDEO 2/CDR/PC IN/OUT) jacks [16, 17]

These are the analog audio inputs and outputs. There are 4 audio inputs and 2 audio outputs. The audio inputs and outputs require RCA type connectors.

When connecting a VCR or other video component, make sure you connect the audio and video leads together (i.e., both to VIDEO 1).

(North American and South American model) FRONT SPEAKERS A/B, SURROUND SPEAKERS and CENTER SPEAKER terminals [18]

FRONT SPEAKERS A system: To enjoy surround sound. Speaker terminals are provided for the front left, front right, center, surround left and surround right speakers.

FRONT SPEAKERS B system: To enjoy stereo sound. Speaker terminals are provided for the front left and front right.

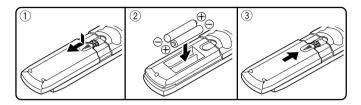
(Other models) FRONT SPEAKERS, CENTER SPEAKER and SURROUND SPEAKERS terminals [19]

Speaker terminals are provided for the front left, front right, center, surround left and surround right speakers. Speaker outputs are compatible with banana plug connectors.

Preparing the Remote Controller

Inserting the Batteries

- 1 Detach the battery cover.
- Insert the two size AA/R6/UM3 batteries. Be sure to match the + and – ends of the batteries with the diagram inside the battery compartment.
- **③** Attach the battery cover.

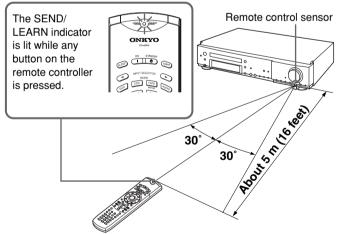


Notes

- Do not mix new batteries with old batteries or different kinds of batteries.
- To avoid corrosion, remove the batteries if the remote controller is not to be used for a long time.
- Remove dead batteries immediately to avoid damage from corrosion. If the remote controller does not operate smoothly, replace both batteries at the same time.
- The life of the supplied batteries is about six months but this varies depending on usage.

Pointing the remote controller in the right direction

Point the remote controller toward the remote control sensor.



Notes

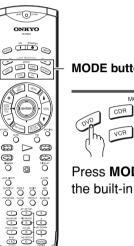
- Place the unit away from strong light such as direct sunlight or inverted fluorescent light which can prevent proper operation of the remote controller.
- Using another remote controller of the same type in the same room or using the unit near equipment which uses infrared rays may cause operational interference.
- Do not put any object (such as a book) on the remote controller. The buttons of the remote controller may be pressed by mistake and drain the batteries.
- Make sure the audio rack doors do not have colored glass. Placing the unit behind such doors may prevent proper remote controller operation.
- If there is any obstacle between the remote controller and the remote control sensor, the remote controller will not operate.

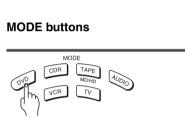
Switching the remote controller function modes

Some buttons on the remote controller have two or more functions. To set the functionality of these buttons, press one of the six MODE (DVD, CDR, TAPE/ MD/HD, AUDIO, VCR, TV) buttons in advance.

The function mode remains the same until another MODE button is pressed.

(Details about the functions and the related function modes are explained in each section.)

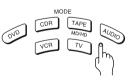




Press **MODE DVD** first before operating the built-in DVD player.

(NODE (DDR) (DDR) (TAPE) MOMO MOMOM MOMO MOMO MOMO MOMOM MOMOM MOMO

Press **MODE AUDIO** first before operating the speaker setting and sound related operations.



Press **MODE CDR** first before operating the **RI**-connected Onkyo CD recorder (see pages 21, 23 and 41)

Press **MODE TAPE/MD/HD** first before operating the **R**I-connected Onkyo MD recorder, cassette tape deck or hard disk recorder (see pages 21, 23 and 41).

Press **MODE VCR or MODE TV** first before operating your VCR or TV.

To operate the TV with the supplied remote controller, you need to let the remote controller learn the TV remote control signals (see pages 78 and 79).

Connecting to a TV (Other than European model)

Before connecting

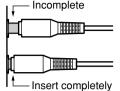
- · Refer also to the instruction manual of the TV.
- When you connect the DVD Receiver to the TV, be sure to turn off the power and unplug both the units from the mains before making any connections.
- Connect the DVD Receiver to the TV directly. If you connect the DVD Receiver to a VCR, TV/VCR combination, or video selector, the playback picture may be distorted as DVD videos are copy protected.

■ Connecting to a TV (or projector)

Using the supplied audio/video connection cable, make audio connections from the TV/LINE IN L and R jacks to the corresponding audio output jacks on the TV. In the same manner, make video connections from the VIDEO MON OUT jack to the corresponding video input jack on the TV.

If your TV has a S video input jack and/or component video input jacks, make S video connection to the S VIDEO MON OUT jack using supplied S video connection cable and/or make component video connection to the COMPONENT VIDEO OUTPUT jacks using component video connection cable (not supplied). These connections allow you to enjoy higher quality picture playback. Be sure not to disconnect VIDEO MON OUT.

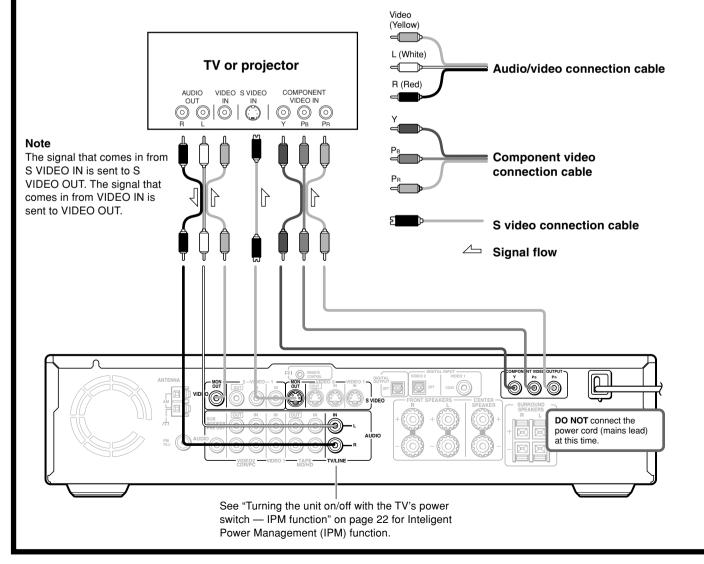
- Connect the plugs securely.
- Note that one audio/video connection cable and one S video connection cable are supplied.



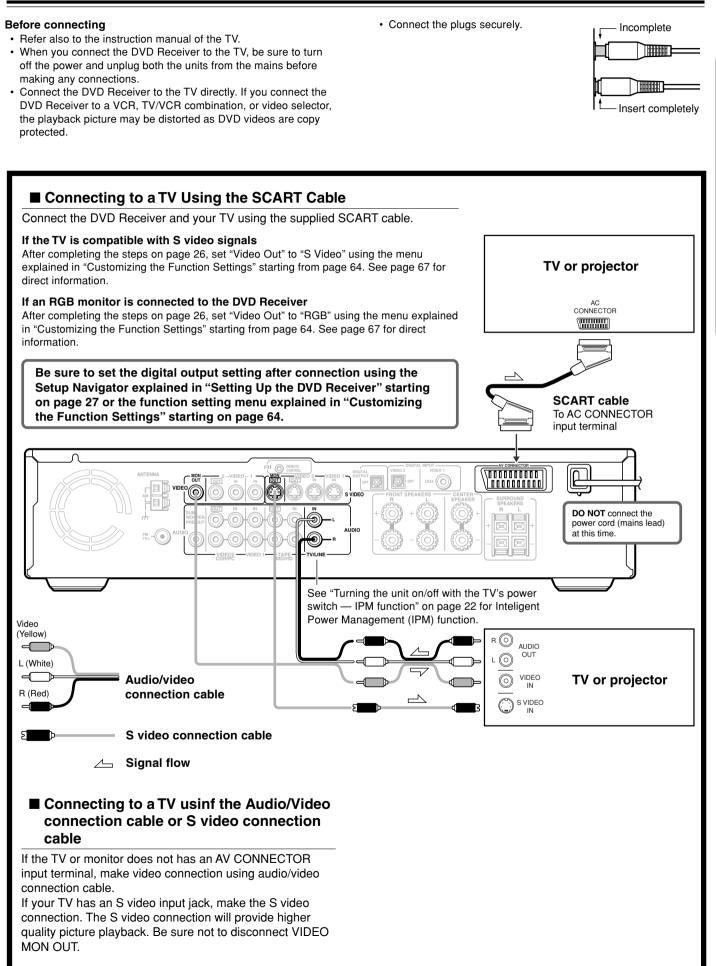
Notes

- Actual labels for component video inputs may vary depending on the TV manufacturer (ex. Y/CB/CR, Y/B-Y/R-Y, etc.).
- In some TVs, the color levels of the playback picture may be reduced slightly or the tint may change. In such a case, adjust the TV for optimum performance.

Be sure to set the digital output setting after connection using the Setup Navigator explained in "Setting Up the DVD Receiver" starting on page 27 or the function setting menu explained in "Customizing the Function Settings" starting on page 64.



Connecting to a TV (European model)



Connecting Speakers (North American and South American model)

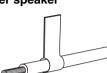
С

Before connecting

- Refer also to the instruction manuals of the speakers.
- This DVD Receiver is designed to reproduce optimum sound quality when speakers with the impedances specified below are connected. Please check the following information and choose speakers with appropriate impedances for the connections.
 Front speakers: 6 ohms min. per speaker

Center speaker: 6 ohms min. Surround Speakers : 6 ohms min. per speaker Attach supplied speaker labels to

 Attach supplied speaker labels to speaker cables to connect speakers correctly.

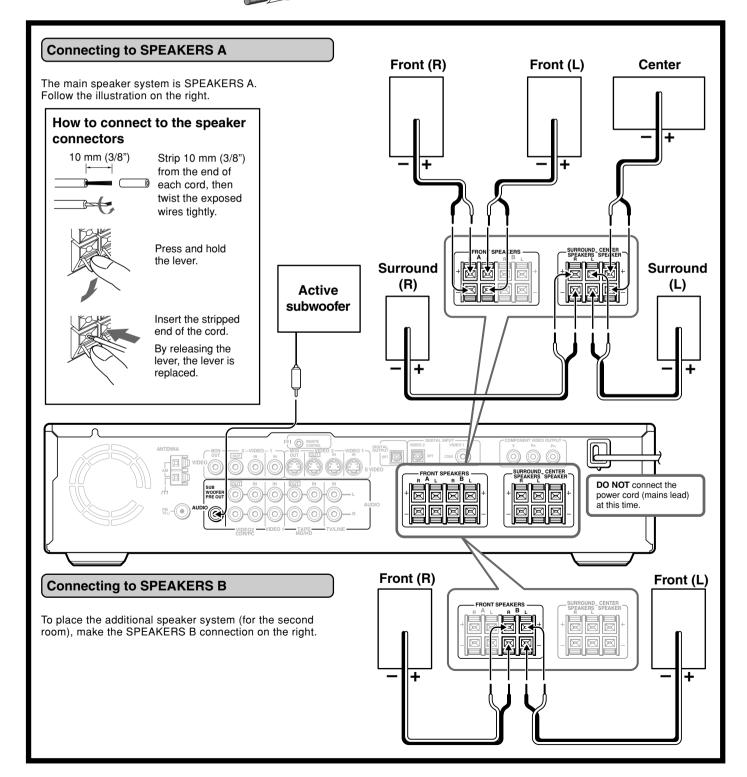


 To prevent damage to circuits, never shortcircuit the positive (+) and negative (-) speaker wires.



 Do not connect the speaker cable to the L and R connectors at the same time and do not connect more than one speaker to the same speaker connectors.





Connecting Speakers (Other models)

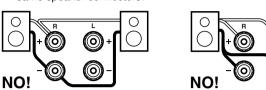
Before connecting

- Refer also to the instruction manuals of the speakers.
- This DVD Receiver is designed to reproduce optimum sound quality when speakers with the impedances specified below are connected. Please check the following information and choose speakers with appropriate impedances for the connections.
 Front speakers: 6 ohms min. per speaker
 Center speaker: 6 ohms min.
- Surround Speakers : 6 ohms min. per speaker • Attach supplied speaker labels to
- speaker cables to connect speakers correctly.



- To prevent damage to circuits, never shortcircuit the positive (+) and negative (-) speaker wires.
- Do not connect the speaker cable to the L and R connectors at the same time and do not connect more than one speaker to the same speaker connectors.





How to connect to the SURROUND SPEAKERS **Connecting to SPEAKERS** and CENTER SPEAKER terminals How to connect to the FRONT SPEAKER terminals 10 mm 15 mm Strip 15 mm from the end of each cable, then twist the exposed wires tightly. Strip 10 mm from Press and hold Insert the stripped end of the cord. the end of each the lever. cable, then twist By releasing the the exposed lever, the lever is wires tightly. replaced. Loosen the screw. Fully insert the end Tighten the screw, of the cable. Front (R) Front (L) Center Active subwoofer (n) DO NOT connect the power cord (mains lead) at this time. R Surround (R) Surround (L)

Positioning Speakers

Standard speaker placement of the speakers system (standard speaker placement of the SPEAKERS A system for North American and South American model)

Speaker placement plays an important role in the reproduction of Surround sound. The placement of the speakers varies depending on the size of the room and the wall coverings used in the room. The illustration below shows an example of a layout for standard speaker placement. Refer to this example when you position the speakers in order to experience the best of Surround sound.

For ideal Surround effects, all speakers should be installed.

If a center speaker or subwoofer is not connected, the sound from the unused channel is properly distributed to the connected speakers in order to reproduce the best Surround sound possible.

Front

The center speaker reproduces a richer sound image by enhancing the perception of the sound's source and movement.

The left, right, and center speakers should face the seated listener and be placed at ear level.

Surround

The surround speakers reproduce the feel of a moving sound while creating the sensation of being in the middle of the action.

Place the left and right surround speakers 1 meter (3 feet) above the listener's ear level and facing toward the sides of the room, making sure that the listener is within the speakers' dispersion angle.

Subwoofer

Install a subwoofer with a built-in power amplifier for powerful bass sounds.

The placement of the subwoofer does not affect the final quality of the sound

image much, therefore, you can install it wherever it is convenient.

Refer to the speakers' instruction manuals for details.

■ For North American and South American models

Two speaker systems (FRONT SPEAKERS A and FRONT SPEAKERS B) can be connected to the DVD Receiver. For example, you can place the FRONT SPEAKERS A system in the main room, and the FRONT SPEAKERS B system in a second room.

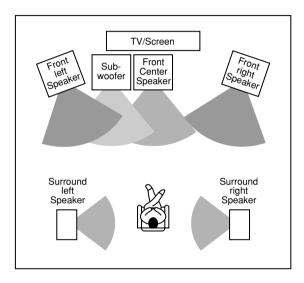
The configuration of the FRONT SPEAKERS A system

The FRONT SPEAKERS A system consists of the front left, center, and right speakers, surround left and right speakers, and subwoofer.

You can reproduce the sounds such as Dolby surround and DTS surround.

The configuration of the FRONT SPEAKERS B system

The FRONT SPEAKERS B system consists of the front left and right speakers. You can reproduce only monaural and stereo sounds.



Connecting to Audio/Video Equipment

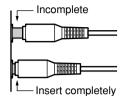
Before connecting

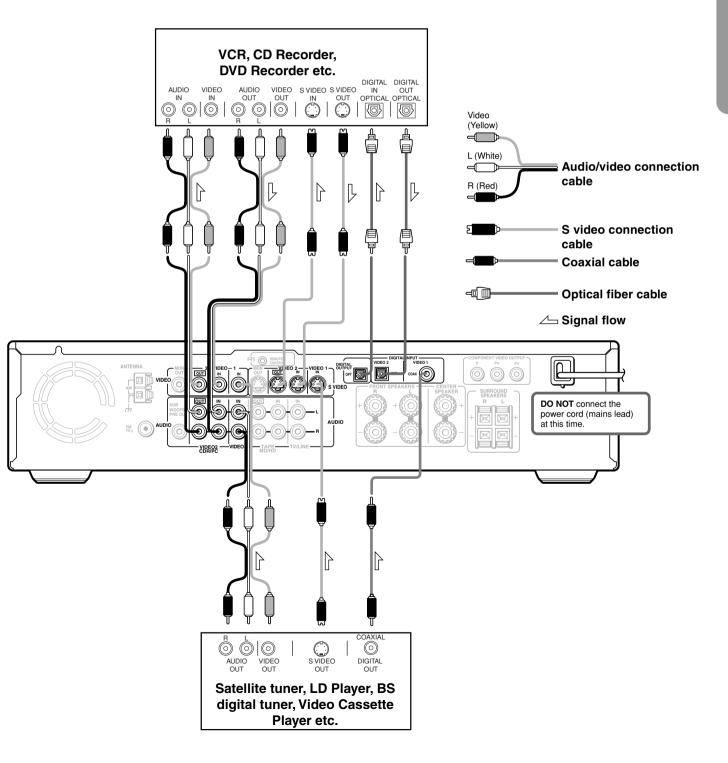
- Refer also to the instruction manual of each component to be connected.
- When you connect the DVD Receiver to audio/video equipment, be sure to turn off the power and unplug all the units from the mains before making any connections.
- About the DIGITAL INPUT (OPT) and DIGITAL
 OUTPUT (OPT) connectors

Remove the protective caps before making connections. When not in use, be sure to replace them.



- About the VIDEO 1 and VIDEO 2 jacks/connectors
- The video input/output connections are also necessary even if you make the S video input/output connections.
- Connect the plugs securely.
- Note that one audio/video connection cable and one S video connection cable are supplied (if not used in the connection on the opposite page).

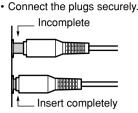


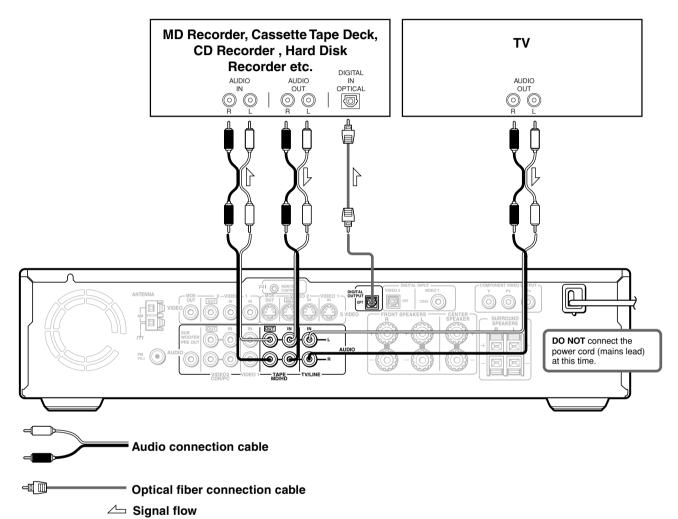


Connecting to Audio/Video Equipment

Before connecting

- Refer also to the instruction manual of each component to be connected.
- When you connect the DVD Receiver to audio/video equipment, be sure to turn off the power and unplug all the units from the mains before making any connections.





Turning the unit on/off with the TV's power switch — IPM function

The DVD Receiver is equipped with the (IPM) system. Just turn on your TV's power switch and, in about 5 seconds, the DVD Receiver turns on automatically. If you turn off the TV's power switch, IPM indicator flashes on the display and the DVD Receiver automatically turns off in about 5 minutes.

To activate the IPM function

 Connect the audio output of your TV's audio output to the DVD Receiver's TV/LINE IN L/R jacks (refer to pages 16 and 17).

Even when connected with SCART cable, audio connection to TV/LINE IN L/R jacks is needed (European model).

2 Press IPM on the remote controller repeatedly until "IPM On" appears on the display. The IPM indicator lights up on the display.

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	 1171	

Notes

- The IPM system may not function properly with some TV sets.
- When using monaural TV, connect the audio output of the TV to the DVD Receiver's TV/LINE IN L jack.
- When the TV is turned off while the DVD Receiver selects other input source, the DVD Receiver does not turn off.

R I Connection for the Onkyo MD Recorder or Cassette Tape Deck

The supplied remote controller has the following extended functions in addition to operating the DVD Receiver:

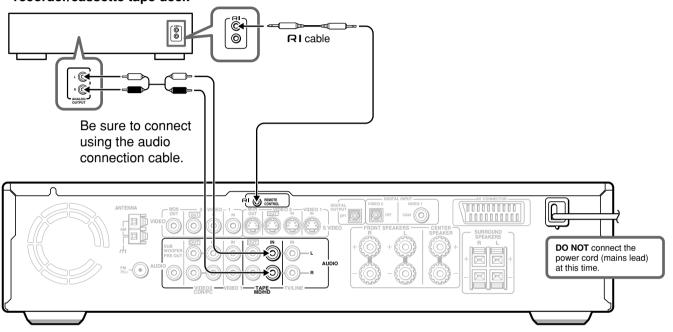
• Operating the TV and VCR (see pages 78-80)

• Operating the RI connected Onkyo MD recorder, CD Recorder, Hard Disk Recorder or cassette tape deck (see page 41).

The **RI** cable which is needed to make the **RI** connection is supplied with the Onkyo MD recorder, CD Recorder, Hard Disk Recorder or cassette tape deck.

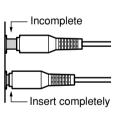
If you start playing back the MD Recorder, CD Recorder, Hard Disk Recoder or cassette tape deck after making the **RI** connection, the DVD Receiver automatically changes its input source to TAPE/MD/HD — Direct Change function.

Onkyo MD recorder/HD recorder/cassette tape deck



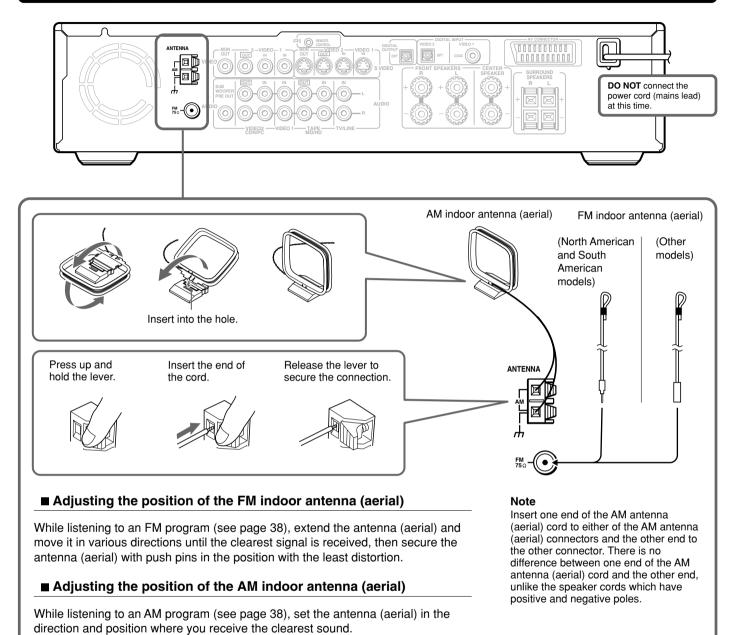
Notes

- If the connected component has two **RI** connectors, you can use either one to connect to the DVD Receiver. The other one can be used to daisy chain with another component.
- Do not connect the Onkyo MD recorder, Hard Disk Recorder and cassette tape deck with the **RI** cable at the same time. This may lead to unexpected operation.
- Connect the plugs securely.
- Be sure to connect to the $\ensuremath{\textbf{RI}}$ connectors using the $\ensuremath{\textbf{RI}}$ cable.
- The connections on pages 21 and 22 are needed even if $\ensuremath{\textbf{RI}}$
- connection is made.
 Do not connect the DVD Receiver's RI connector to any component other than an Onkyo product. It may cause malfunction.



Making Antenna (Aerial) Connections

Connecting the Supplied FM and AM Indoor Antennas (Aerials)



Connecting an AM Outdoor Antenna (Aerial)

Put it as far away as possible from the unit, TVs, speaker cables, and power cords

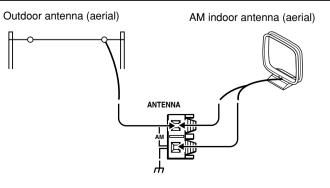
An outdoor antenna (aerial) will be more effective if it is stretched horizontally above a window or outside.

Leave the supplied AM indoor antenna (aerial) connected.

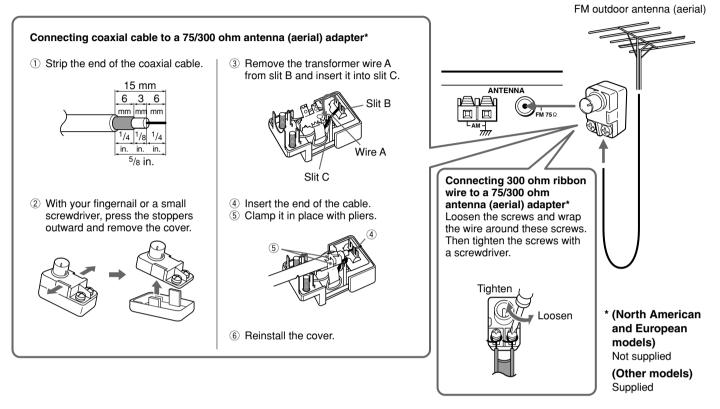
Note

(mains leads).

To avoid the risk of lightning and electrical shock, grounding is necessary. Follow item 14 of the "Important Safeguards" on page 2 when you install an outdoor antenna (aerial).



Connecting an FM Outdoor Antenna (Aerial)



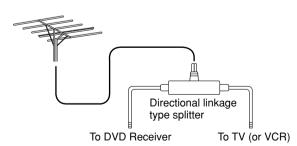
If the FM reception is not very clear with the supplied antenna (aerial), connect an FM outdoor antenna (aerial) instead of the indoor FM antenna (aerial).

Notes

- Install the antenna (aerial) well away from tall buildings and in an area where FM stations can directly be received.
- Keep the antenna (aerial) away from noise sources (neon signs, busy roads, etc.).
- It is dangerous to put the antenna (aerial) close to power lines. Keep it well away from power lines, transformers, etc.
- To avoid the risk of lightning and electrical shock, grounding is necessary. Follow item 14 of the "Important Safeguards" on page 2 when you install the outdoor antenna (aerial).

Directional linkage

Do not use the same antenna (aerial) for both FM and TV (or VCR) reception since the FM and TV (or VCR) signals can interfere with each other. If you must use a common FM/TV (or VCR) antenna (aerial), use a directional linkage type splitter.



Connecting the Power/ Furning on the DVD Receiver

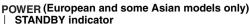
Before connecting

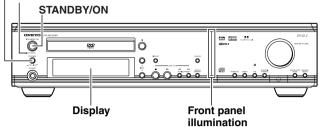
- · Make sure that all the connections from pages 15 to 25 are complete (the connection to the TV is required).
- · Turning on the DVD Receiver may cause a momentary power surge, which might interfere with other electrical equipment such as computers. If this happens, use a wall outlet on a different circuit.

(European and some Asian models)

The DVD Receiver is shipped with the main power (POWER) switch in the on position (_ ON). When the power cord is plugged in for the first time, the DVD Receiver will automatically enter the standby state (same condition after step 2 below).

1	Connect the power cord to a wall outlet.
	(Other than European and some Asian models)
	The DVD Receiver enters the standby mode and the STANDBY indicator lights up.
2	 (European and some Asian models only) Press POWER to switch on the main power to put the DVD Receiver in the standby mode. The STANDBY indicator lights up. The buttons on the remote controller do not operate if the POWER switch is set to OFF. To switch off the main power, press
	POWER again.
3 Ostandby/on	 Press STANDBY/ON on the DVD Receiver or ON on the remote controller to turn on the DVD Receiver. The light and display on the DVD Receiver's front panel light. At the same time, the STANDBY indicator goes off. To put the DVD Receiver in the standby mode, press STANDBY/ON on the DVD Receiver, or STANDBY on the remote controller. Be sure to set the volume to minimum before putting the DVD Receiver in the standby mode for the next use to avoid sudden loud sound reproduction. While in the STANDBY mode, the DVD Receiver can receive signals from the remote controller. However, if you press POWER on the DVD Receiver to switch off the main power, the remote controller cannot be used to turn on the DVD Receiver. Setting the STANDBY button to standby does not shut off the power completely.





Setting the TV System (Other than North American model)

The default setting of the DVD Receiver is AUTO, and unless you notice that the picture is distorted when playing some discs, you should leave it set to AUTO.

If you experience picture distortion with some discs, set the TV system to match your country or region's system. Doing this, however, may restrict the kinds of disc you can watch. The table below shows what kinds of disc are compatible with each setting (AUTO, PAL and NTSC).

Disc Output format					
Туре	Format	Position of TV SYSTEM mode			
		NTSC	PAL	AUTO	
DVD	NTSC	NTSC	MOD. PAL	NTSC	
	PAL		PAL	PAL	
Video CD	NTSC	NTSC	MOD. PAL	NTSC	
	PAL	NTSC	PAL	PAL	
CD, No disc		NTSC	PAL	NTSC or PAL	

- 1 Switch the DVD Receiver into standby.
- 2 Hold down ►► then press STANDBY/ON until the display indicates the new setting to switch the TV system. The TV system changes as follows:

,	
AUTO →	NTSC
NTSC -	PAI

NTSC -	PAL	
PAL →	AUTC	

AUTO

Note that you have to switch the player into standby before each change.

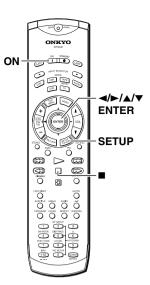
About MOD. (Modulation) PAL

SHRINK

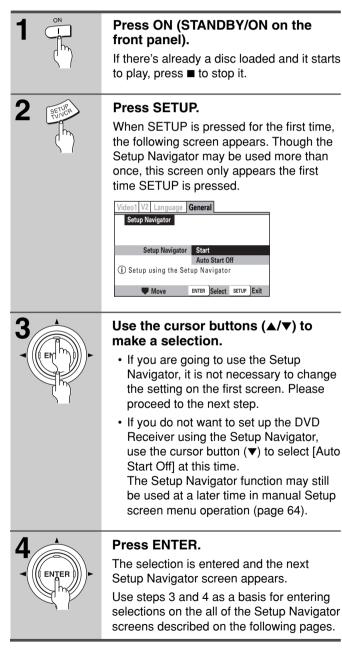
- Most models of the newly developed countdown PAL TV system detect 50 Hz (PAL)/60 Hz (NTSC) and automatically switch vertical amplitude, resulting in a display without vertical shrinkage
- · If your PAL TV does not have a V-Hold control, you may not be able to view NTSC disc because the picture may roll. If the TV has a V-Hold control, adjust it until the picture stops rolling. On some TVs, the picture may shrink vertically, leaving black bands at the top and bottom of the screen. This is not a malfunction; it is caused by the NTSC → PAL conversion.

Setting Up the DVD Receiver

The Setup Navigator has been designed to simplify the process of getting the DVD Receiver ready to perform. Designed as a series of on-screen multiple-choice questions, the Setup Navigator automatically sets the video, and language settings according to how the questions are answered. Once this procedure is complete, it will be possible to begin using the DVD Receiver to enjoy DVDs. The procedure on this page describes the operations necessary to function within the Setup Navigator screens. A detailed description of the contents of each question that appears on the screen can be found on the following pages.



Using the Setup Navigator



■ When setting up for the first time

Some DVDs start playing automatically when loaded in the DVD Receiver. Because the Setup Navigator cannot be used if a disc is playing, it is recommended to set up the DVD Receiver using the Setup Navigator before loading a DVD for the first time. If a DVD has been loaded, be sure to press ■ before proceeding.

■ To change the answer to a prior question

Use the cursor button (\blacktriangleleft) to return to previous screens. Please note, however, that you cannot go forward using the cursor button (\blacktriangleright), so it will be necessary to answer all the questions that occur after the screen that was returned to.

■ To exit the Setup Navigator

Press SETUP while on any of the screens to exit the Setup Navigator. Please note that if the Setup Navigator is exited before all the questions are answered, no settings are changed.

Note

On-screen information $(\ensuremath{\underline{()}})$ appears to clarify the functions and explain the options available.

Using the Setup Navigator

Setting the OSD Language (On-Screen Display Language)

The [OSD Language] screen establishes the OSD language, or on-screen display language, which refers to the language that is used by the DVD Receiver in menus and on-screen messages. Additionally, the language that is established at this setting will also be used for the default audio and subtitle language.

Video1 V2 Language	Genera	ıl		
Setup Navigator	Engli	sh		
	franç	ais		
Language	Deut	sch		
OSD Language	Italia	no		
	Espa	ñol		
(i) Select the On Scree	en Lang	guage		
Move	ENTER	Select	SETUP	Exit

Settings: English (Factory setting)

français Deutsch Italiano Español

Asian models only

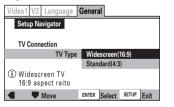
English (Factory setting) 汉语

Notes

- The languages that can be selected may be different from those shown above.
- In addition to setting the [OSD Language], the audio and subtitle language are also set at this time. If you wish to change the audio or subtitle language to a different language, make changes in the Setup screen Language menu [Audio Language] and [Subtitle Language] as needed (pages 71, 72).

Setting the TV screen size

The [TV Type] screen establishes the size, or more appropriately the width to height ration of your television or monitor. The width-to-height ratio of conventional TVs is 4:3, while the width-to-height ratio of wide screen and highdefinition TVs is 16:9. This width-to-height ratio is called the aspect ratio.



Settings: Widescreen (16:9) (Factory setting) Standard (4:3)

Note

There are two screen formats that can be used to display wide-screen format DVDs: letter box and pan & scan. When [Standard (4:3)] is selected in the Setup Navigator, the letter box screen format is automatically selected. To switch the preference to the pan & scan format, make changes in the Setup screen Video 1 menu [TV Screen] setting (page 66).

■ Confirming the settings

The [Exit Setup Navigator] is the final screen in the Setup Navigator.



Settings: Save Changes (Factory setting)

Select to have the DVD Receiver make all of the necessary video and language settings according to your responses in the Setup Navigator.

Delete Changes

Select to exit the Setup Navigator without changing any of the system settings.

Start Again

Select to return to the [OSD Language] screen of the Setup Navigator and do the settings again.

To change other player settings in the Setup screen menus

The procedure for changing the settings in the Setup screen menus is described on page 64.

Speaker Setup

(North American and South American model)

You need to set up the speaker configuration for the speaker system connected to the FRONT SPEAKERS A connectors (see this page.) (There is no speaker configuration setup for the FRONT SPEAKERS B system.)

(Other then North American and South American models)

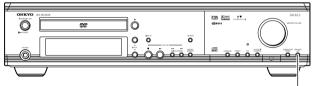
You need to set up the speaker configuration for the speaker system connected to the SPEAKERS connectors (see page 30.)

Notes

- Speaker setup cannot be done if;
- Headphones are connected (see page 43), or
- The FRONT SPEAKERS B system is On (North American and South American model only, see page 42).
- It is not necessary to set the parameters again once you have completed the setup unless you change the speaker configuration.

Selecting the number of speaker channels (North American and South American model)

See following page for other than North American and South American model.

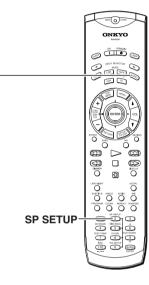


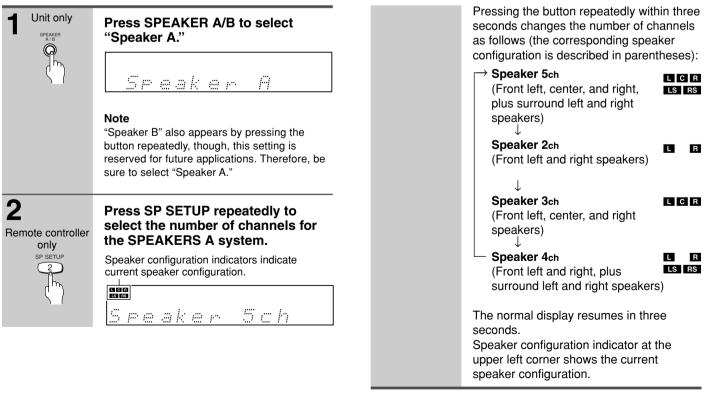
SPEAKER A/B

Before operating the remote controller Press MODE AUDIO.

The remote controller remains in the AUDIO mode, until another MODE button is pressed.







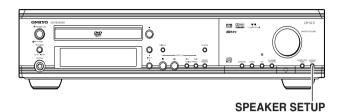
Notes

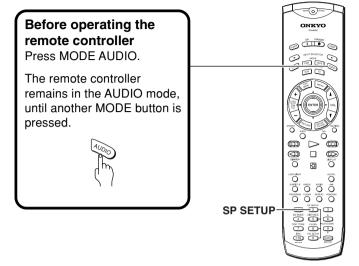
- The listening mode will automatically be set to "Stereo" (see page 48) once you set or reset the number of channels.
- To check the present setting while the normal display is
- displayed, press SPEAKER SETUP once. To change the setting, press the button repeatedly within three seconds.

Speaker Setup

Unit

Selecting the number of speaker channels (other than North American and South American model)





to select the number of channels for the SPEAKERS system. Speaker configuration indicators indicate current speaker configuration, Remote controller 2chre aker Pressing the button repeatedly within three seconds changes the number of channels as follows (the corresponding speaker configuration is described in parentheses): Speaker 2ch R L (Front left and right speakers) Speaker 3ch LCR (Front left, center, and right speakers) \downarrow Speaker 4ch B (Front left and right, plus LS RS surround left and right speakers) J

Press SPEAKER SETUP repeatedly

 Speaker 5ch (Front left, center, and right, plus surround left and right speakers)
 C E E E E E E E

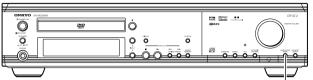
seconds. Speaker configuration indicator at the upper left corner shows the current

speaker configuration.

Note

To check the present setting while the normal display is displayed, press SPEAKER SETUP once. To change the setting, press the button repeatedly within three seconds.

Selecting the Subwoofer mode



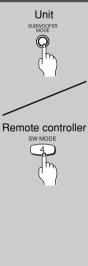
SUBWOOFER MODE

Before operating the remote controller Press MODE AUDIO.

The remote controller remains in the AUDIO mode, until another MODE button is pressed.







Press SUBWOOFER MODE on the unit or SW MODE on the remote controller.

SW indicator lights up when SW Mode 1, SW Mode, 2 or SW Mode 3 is selected.



With the first press of the button, you can check the present setting. Then each press of the button changes the subwoofer mode as follows (a tip on how to select the right subwoofer mode is in parentheses):

→ SW Mode 1

(When small–with limited bass signal handling–front speakers are connected)

\downarrow SW Mode 2

(When large-wideband-front speakers are connected)

SW Mode 3

(When large–wideband speakers are connected to all channel) \downarrow

- SW Off

(When no subwoofer is connected)

The initial setting varies depending on the area which it was purchased.

North American and South American model: SW Mode 1

Other models: SW Mode 2

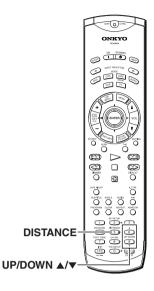
The normal display resumes in three seconds.

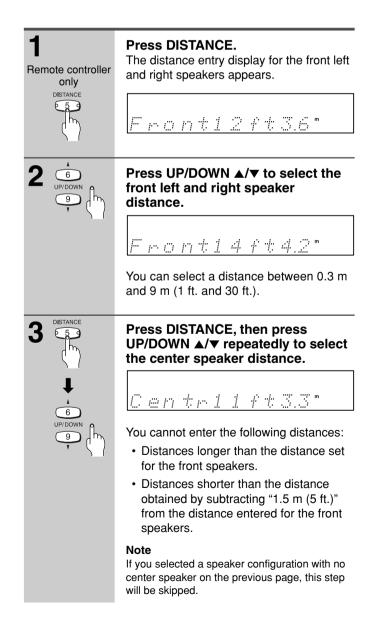
Setting the Distance From the Listening Position to Each Speaker

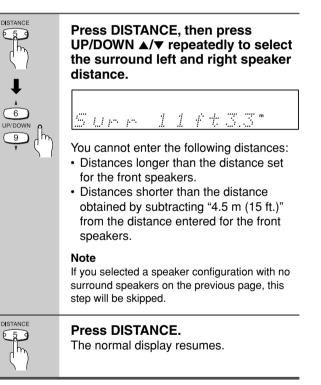
Before starting the procedure below, measure the distances from each speaker to the listening position.

For pair speakers such as front left and right speakers, the distance from the listening position to one speaker should be the same as the distance to the other.

In the procedure below, select the values which approximate the actual distances.





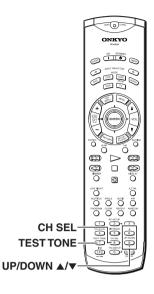


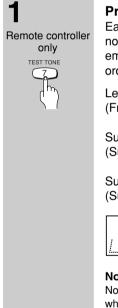
Δ

5

Adjusting Each Speaker's Relative Volume Balance – Test Tone

Adjust each speaker's relative volume balance so that the volumes of all speakers' test tones sound equal at the listening position.





Press TEST TONE.

Each speaker emits the test tone (pink noise) and the display shows the speaker emitting the test tone in the following order:

eft \rightarrow	Center
ront left ch.)	(Center ch.)
\uparrow	\downarrow
ubwfr	Right
Subwoofer)	(Front right ch.)
\uparrow	\downarrow
urrL ←	Surr R
Surround left ch.)	(Surround right ch.)

<u>_____</u> дв

L eft

Note

No test tone will be emitted from the speaker which is not included in the speaker configuration on pages 29-31 even if it is actually connected.



Press CH SEL repeatedly to select the speaker, then press UP/DOWN \blacktriangle/\forall to adjust the volume level.

The volume level can be adjusted between -12dB and +12dB.



When you have completed the adjustment by repeating step 2, press TEST TONE.

The test tone stops and the normal display resumes.

Note

Even if you don't press TEST TONE, the test tone will stop after two minutes.

Getting Started Using Your DVD Receiver

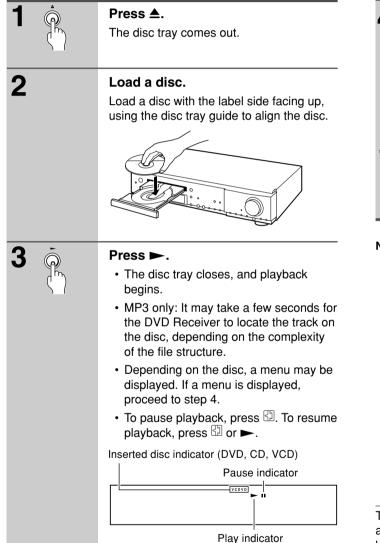
Before you can start to enjoy the digital audio and video on DVDs, be sure that you have either performed the Setup Navigator procedure described in the previous section or made the necessary settings in the Setup screen menus as outlined in the next section to set up the player to correspond to your home system. Having made these settings, you are now ready to start using the player to enjoy DVDs, Video CDs, CDs and MP3s.

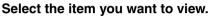
■ About the ^{DVD}, ^{VCD}, ^{CD} and ^{MP3} marks in the pages related to disc operation

means the function or title is related to DVD-Video operation. means the function or title is related to Video CD operation. means the function or title is related to audio CD operation. may means the function or title is related to MP3 operation.

DVD VCD CD MP3

Playing DVDs, Video CDs, CDs and MP3s





• When a DVD is loaded:

Select the item with the cursor buttons $(\blacktriangleleft/\blacktriangleright/\blacktriangle/\blacktriangledown)$ or the number buttons then press ENTER.

• When a Video CD is loaded: Use the number buttons to select the item.

Notes

ENTER

- The TV screen size is factory set to present the wide screen format (16:9 aspect ratio). If you have a standard TV screen (4:3 aspect ratio), this setting can be changed to match your TV screen size in the Video 1 menu (pages 28, 66).
- Do not move the DVD Receiver during playback. Doing so may damage the disc.
- Use ▲ on the DVD Receiver to open and close the disc tray. Do not touch the disc tray while it is moving. Doing so may cause the DVD Receiver to malfunction.
- Do not press down on the disc tray or put any objects other than playable discs on the disc tray. Doing so may cause the DVD Receiver to malfunction.
- In many instances, a menu screen appears when playback of a movie is complete. Prolonged display of an on-screen menu may damage your television set, permanently etching that image onto its screen. To avoid this, be sure to press ■ once the movie is complete.

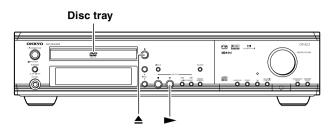
When an operation is prohibited

There are times when you are using the DVD Receiver and attempt to perform an operation, but for some reason it cannot be performed. When this occurs, one of the two following icons appears on the screen.



The operation is prohibited by the DVD Receiver.

The operation is prohibited by the programming on the disc.



When a Menu Screen is Displayed

Menu screens are displayed for DVDs that have menu screens or Video CDs that include Playback Control (PBC). DVDs often contain extra information that can be accessed in the DVD menu and sometimes makes navigating DVD menu screens as enjoyable as watching the feature presentation.

Example: When a DVD that has menu screens is loaded

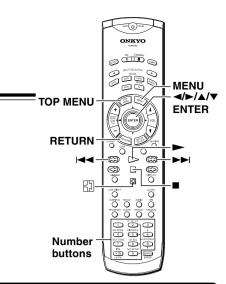
		Main Menu
	1	Highlight Clips
1	2	Chapter List
;	3	Commercial Header
	4	Subtitles
1	5	Soundtrack
	6	Start Main Feature

Example: When a Video CD that has Playback Control is loaded

STANDARD VOCAL BEST			
1	Don't Tekno for an Answer	Bertie B.& the Goans	
2	Bad Whack Naff Riff	Hood in the Boyz	
3	dubmyheadbassman	Sleek Machine	
4	Gooey Love Jingle	Philip William	
5	Praise the Day	Formerly an Artist	
6	G3, Ba-san	Pfeuti	
7	Abstract Jazz Phunk	John Torn	
8	Rock the Love Jive	Hot Monkey Stick	

To navigate a menu screen

- Although individual DVD titles may differ, when a menu screen is displayed, use the cursor buttons (◄/►/▲/▼) and ENTER on the remote control. The cursor buttons are used to move around the options on the screen and ENTER is used for selection.
- Occasionally, the number buttons may also be used to make selections. If this is possible, using number buttons serves to directly select an option on a menu screen. Only number buttons are used to make selections on Video CD menu screens.
- When the Video CD has more than one menu, pages can be advanced to or returned to with I◄◄ or ►►I.



DVD VCD

To Open or Return To the DVD or Video CD Menu Screen

Although this differs depending on the disc, pressing MENU, TOP MENU, or RETURN during DVD playback or RETURN during Video CD playback displays the menu screen. Refer to the DVD or Video CD disc jacket and accompanying documentation for more information.

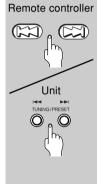
To play Video CDs without displaying menu screens

Video CDs with Playback Control (PBC) display a menu screen when play is started. It is possible, however, to play back Video CDs without displaying menu screens. When a Video CD with PBC is loaded, press ■, and then the number button of the track you want to play.

Getting Started Using Your DVD Receiver

DVD VCD CD MP3

Chapter (Track) Skip Forward/Skip Back



Advancing to the next chapter (track)

Press ►►I.

Press to skip forward to the next chapter (track).

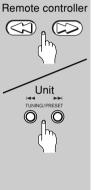
Skipping back to the previous chapter (track)

Press I

- Press once to skip back to the start of the chapter (track) currently playing.
- Press twice to skip back to the start of the previous chapter (track).

DVD VCD CD MP3

Forward and Reverse Scanning



Fast forward and reverse scanning

Press and hold ◄◄/►► (i◄◄/►►i on the front panel) during playback to scan forwards or backwards.

While "►►1" or "◄◀ 1" is displayed onscreen blinking, release the button to resume normal playback.

Variable speed scanning (Remote controller only)

1 Press (but don't hold) ►► or ◄◄ during playback to start scanning.

"►► 1" or "◄< 1" appears on screen.

2 Depending on the type of disc playing, you can increase the scanning speed by pressing ►► or ◄◄.

The scan speed is shown on-screen.

DVDs have three scanning speeds; $1 \leftrightarrow 2 \leftrightarrow 3$

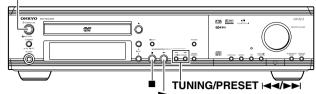
CD and Video CDs have two scanning speeds;

 $1\leftrightarrow 2$

MP3 have only one scanning speed.

3 Press ► to resume normal playback.

STANDBY/ON



Resuming playback from where you stopped

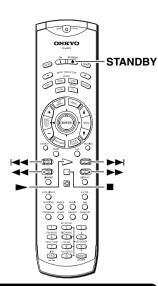
Use the resume feature to restart playback from the point that the disc was stopped last time.

This features cannot be used with MP3s and CDs.

1	Press ∎ once.
Remote controller	The display shows "STOP" then "RESUME", and the stop position is memorized.
Unit	 The resume position remains memorized as long as the disc is in the DVD Receiver — even if you switch the power off.
	 Pressing ■ twice causes the disc to return to the beginning when ► is pressed again. The display shows the disc type (DVDs or Video CDs).
2	Press ►.
Remote controller	Playback starts from the resume position.
Cherry Ch	
Unit	

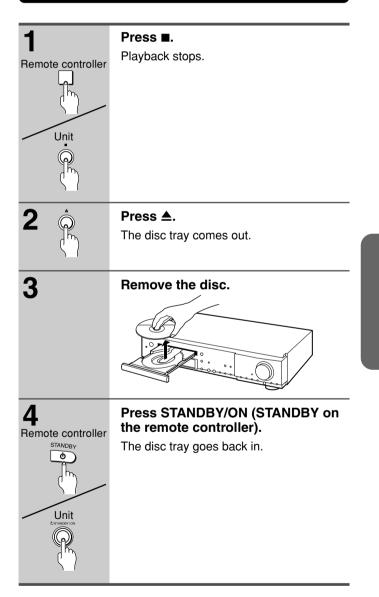
Notes

- The actual restart position may be slightly before or after the resume position.
- The memorized resume position is erased when you open the disc tray, or change the Parental Lock Level setting (page 75) or On-screen Display (OSD) setting (page 70).



CDD VCD CD MP3

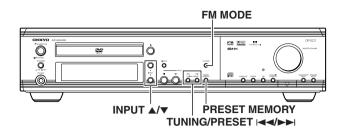
Stopping Playback and Switching Power Off



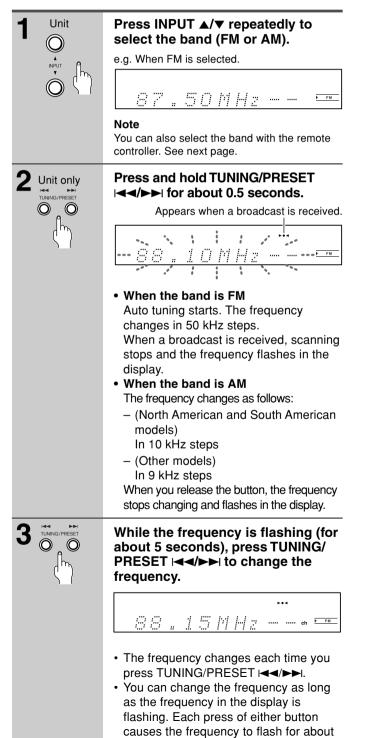
Listening to the Radio

There are two ways to select radio stations:

- Manual tuning
- Presetting radio stations then selecting the preset channels



Tuning Manually



5 seconds.

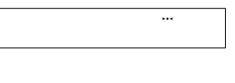
Tuning in a weak frequency (only for FM stations)

When you tune in a stereo FM station, the FM ST indicator lights up if the signal is sufficiently strong.

F⊌ST

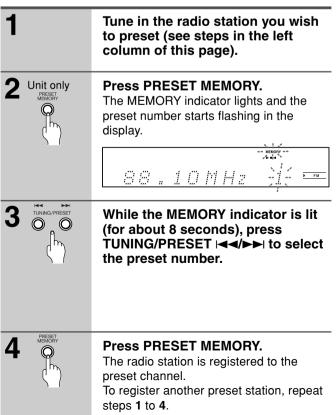
If the signal is weak, you may not be able to tune to the station. In this case, **press FM MODE**. The FM ST indicator and AUTO goes off. Then select the station to which you want to listen. (At this time, the station will be in mono and interstation noise will be heard.)

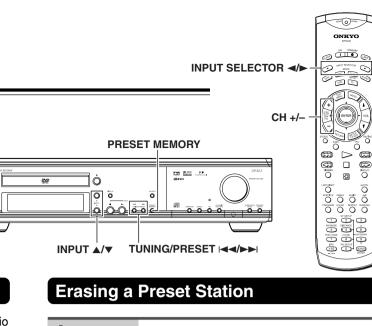




Presetting Radio Stations

You can preset up to 30 stations.



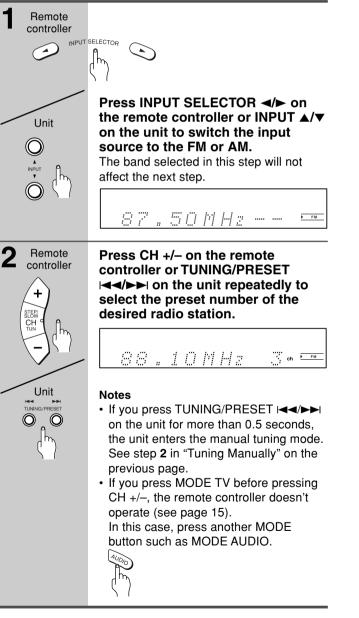


Selecting Preset Stations

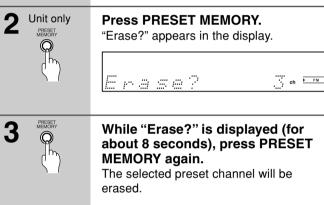
Before selecting preset stations, you need to preset the radio stations. See "Presetting Radio Stations" on the previous page.

0

Õ



Select the preset channel you wish to erase (see steps in the left column of this page).



Receiving RDS (European models only)

When an RDS (Radio Data System) station broadcasting PS (Program Service Name) information is received, the RDS indicator lights up and the name of the station is displayed. (RDS reception is only available in areas where RDS broadcasts are available.)



Various Functions While Listening to Radio Programs

To use the following functions, see page 42.

- Turning on/off the SPEAKERS A/SPEAKERS B Systems (North American and South American models only)
- · Adjusting the Volume
- · Muting the Sound
- Listening Through Headphones
- · Controlling the Brightness of the display on the DVD Receiver
- Using the Sleep Timer

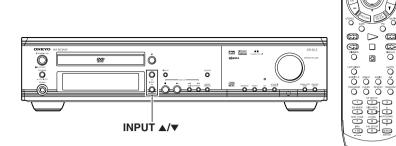
Enjoying the Sound Effects While Listening to Radio Programs

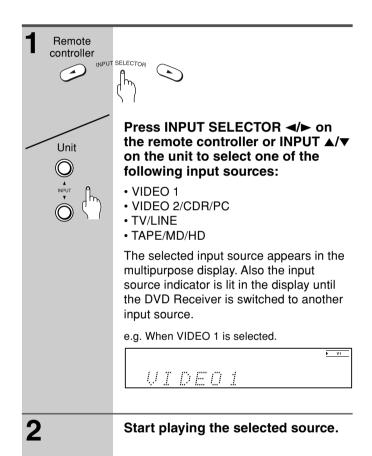
See page 44.

Playing the Connected Source INPUT SELECTOR </ This section shows you how to play the

sources connected to the DVD Receiver.

You may need to see "Connecting to a TV" on pages 16, 17 and "Connecting to Audio/ Video Equipment" on pages 21 and 22 while following the steps in this section.





About digital sound

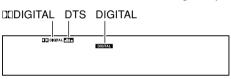
If the equipment is digitally connected to the DVD Receiver, the sound from the digital input will automatically be selected and reproduced instead of the analog sound as explained below

(14) ONKYO

C-

- · When the VIDEO 1 source is selected, the digital sound from the DIGITAL INPUT VIDEO 1 COAX jack is reproduced.
- · When the VIDEO 2 source is selected, the digital sound from the DIGITAL INPUT VIDEO 2 OPT jack is reproduced.

When the digital sound is reproduced, the DIGITAL indicator lights up in the display. According to the received sound system, the DIDIGITAL or DTS indicator lights up.



Note

The DVD Receiver only reproduces DOLBY DIGITAL, DTS, and PCM sound formats from connected equipment.

Enjoying the picture with the sound of another source

Play the VIDEO 2 source and select TV/LINE, TAPE/MD/HD, FM or AM. Then you can enjoy the VIDEO 2 picture and the sound from the selected input source at the same time.

Various Functions While Playing the **Connected Source**

To use the following functions, see page 42.

- Turning on/off the SPEAKERS A/SPEAKERS B Systems (North American and South American models only)
- Adjusting the Volume
- · Muting the Sound
- · Listening Through Headphones
- · Controlling the Brightness of the display on the DVD Receiver
- Using the Sleep Timer

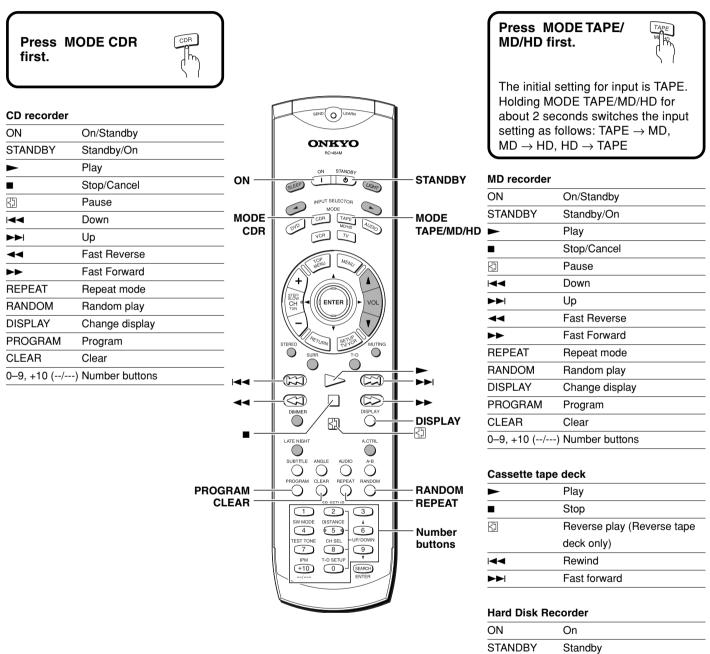
Enjoying the Sound Effects While Playing the Connected Source

See page 44.

Operating the Onkyo MD Recorder/CD Recorder/Cassette Tape Deck/Hard Disk Recorder With the Supplied Remote Controller

■ Operating the Onkyo CD recorder, MD recorder, cassette tape deck or hard disk recorder to the DVD Receiver with the RI cable (see page 23)

Point the remote controller toward the DVD Receiver when you want to operate this equipment.



Notes

- You can use graied buttons in the illustration to control the DVD Receiver in any mode.
- · Some buttons may not work properly.

Play/Pause Stop/Cancel

Repeat mode

Random play

Change display

Down Up

0-9, +10 (--/---) Number buttons

■ |**⊲**⊲

►►I REPEAT

RANDOM

DISPLAY

Various Functions Common to all the Sources

Turning on/off the SPEAKERS A/ SPEAKERS B Systems (North American and South American models only)

You can turn on or off the speaker systems connected to the FRONT SPEAKERS A and B connectors individually.

Note

When you select "SPEAKER A+B", the SPEAKER A system reproduces stereo sound automatically. (The listening mode is set to "Stereo.")

When you select "SPEAKER A", the listening mode returns to the previous mode.

Operating with the unit



Press SPEAKER A/B repeatedly.

Each press of the button changes the On/Off mode as follows:

 \rightarrow Only the SPEAKERS A system turns on.

Only the SPEAKERS B system turns on.

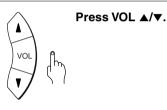
 Both the SPEAKERS A and B systems turn on.

Adjusting the Volume

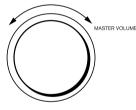
The volume of the front left and right, center, surround left and right, and subwoofer speakers will be adjusted at the same time.

When headphones are connected (see next page), you can adjust the volume of the sound through the headphones.

Operating with the remote controller



Operating with the unit



Turn MASTER VOLUME clockwise to increase the volume, or counterclockwise (anticlockwise) to decrease the volume.

Muting the Sound

Remote

Press MUTING.

controller only

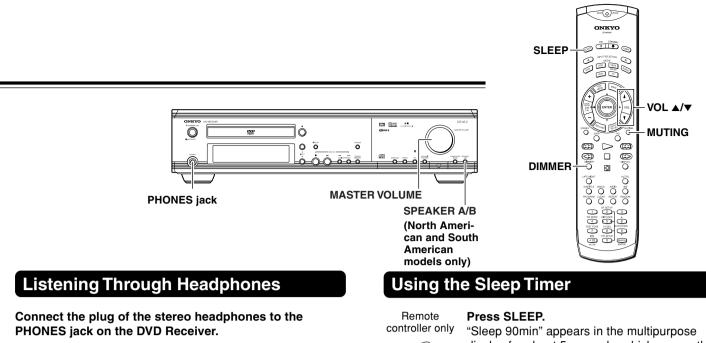
"Muting" appears in the multipurpose display for about three seconds. Also the MUTING indicator flashes in the display during the muting mode.

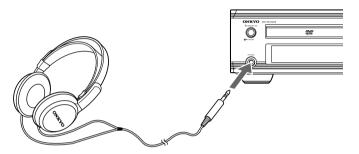
uting

To restore the sound, press MUTING again.

Тір

If you turn off the unit during muting, and turn it on again, the sound will be restored.

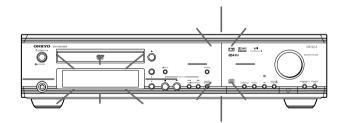




Notes

- The speakers will not reproduce sound while headphones are connected.
- The listening mode is set to "Stereo" after connecting the headphones to the PHONES jack.
- When you disconnect the headphones, the listening mode returns to the previous mode.

Controlling the Brightness of the display on the DVD Receiver



Remote controller only

Press DIMMER.



brightness as follows: The display becomes less bright. \downarrow The display is dimmed. \downarrow The display is dimmed, and the front

Each press of the button changes the

panel illumination goes off. ↓ The display resumes the original - brightness and <u>the front panel</u>

illumination turns on.

"Sleep 90min" appears in the multipurpose display for about 5 seconds, which means the DVD Receiver will turn off and enter standby mode in 90 minutes. Also the SLEEP indicator is lit in the display while the sleep timer is On.



Each press of the button makes the remaining time shorter by 10 minutes.

Checking the remaining time

Press SLEEP while the Sleep Timer is On.

If you press SLEEP while the remaining time is displayed, the remaining time is reduced by 10 minutes.

Canceling the Sleep Timer

Press SLEEP repeatedly until the SLEEP indicator goes off.

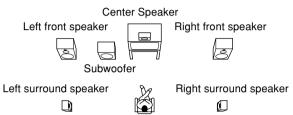
Enjoying the Sound Effects

The surround sound of the DVD Receiver enables you to enjoy the presence of a movie theater or concert hall in your room. Before using any sound effect, make sure the Speaker Setup configurations have been set (see pages 29-33). The speaker configuration is very important for the surround sound. See "Connecting Speakers" on pages 18, 19 and "Positioning Speakers" on page 20.

Following are the sound systems the DVD Receiver can reproduce.

DOLBY DIGITAL Surround and DTS (Digital Theater System) Surround

Recommended speaker setup



This 5.1 channel digital surround format enables you to individually play five full-range (20Hz–20kHz) channels (left and right front, center, and two surround channels) plus an LFE (Low Frequency Effect) channel for the low-range effect sound. It will create a realistic sound like that heard in theaters and concert halls.

DOLBY DIGITAL Surround

DVD videos that have the $D_{D+G+T+L}^{CDLBV}$ mark are recorded using this system.

To playback DOLBY DIGITAL Surround sound from connected equipment, you must make the digital connection in addition to the above speaker configuration.

DTS Surround

DVD videos and audio CDs that have the mark are recorded using this system.

To playback DTS Surround sound from connected equipment such as an LD player, you must make the digital connection in addition to the above speaker configuration.

Notes on DTS Surround

- If you play a DTS Surround encoded disc with the DVD Receiver, or a DTS encoded disc using a digitally connected player, you may hear a noise for a short while until the DTS decoder of the DVD Receiver recognizes the DTS encoded signal and starts operating. This is not a malfunction.
- If you play a DTS Surround source in fast reverse or fast forward, pause, or skip a chapter or track, noise may be heard. This is not a malfunction.
- Even when playback of the DTS Surround source stops and the DTS signal transmission ends, the DVD Receiver remains in DTS mode and the DTS indicator remains lit. This is to prevent noise when you pause, fast forward, fast reverse, or skip a chapter or track of the playback source. Therefore, if the source switches from the DTS signal to a PCM (2 channel digital stereo) signal immediately, the PCM signal may not be played. In such a case, stop playback for about three seconds, then resume playback.
- Some CD players (if connected to the DVD Receiver) and LD players may be unable to play DTS Surround sources correctly even if you connect the player to the DVD Receiver digitally. In such a case, the digital signals (such as the output level, sampling frequency, frequency response, etc.) processed by the DVD Receiver cannot be recognized as DTS data by the DVD Receiver and you may hear noise instead of the proper sound.

DOLBY PRO LOGIC II Surround

This is a 5-channel surround system of a new generation, casting a bridge between the previous 4-channel (Left/Right Front, Center and monaural surround channels) Pro Logic surround and 5.1-channel Dolby Digital surround. Dolby Pro Logic II provides the Movie mode optimized for viewing movies and the Music mode optimized for listening to music. In the Movie mode, the surround channel, which has been monaural and based on narrow band, is reproduced in stereo so that the feeling of movement in the played movies is more enhanced. In the Music mode, the surround channel reproduces natural sound field even with 2-channel music sources.

The Movie mode allows you to enjoy VHS and DVD software carrying the DOLBY SURROUND marking as well as some of TV broadcast programs. The Music mode allows you to enjoy stereo music from CD, etc.

Onkyo's original Digital Signal Processing (DSP) modes

The DVD Receiver offers the following special Onkyo sound effects for sources other than Dolby Digital and DTS sounds.

Orchestra

This mode is suitable for classical and opera music. The center channel is cut and the surround channels are emphasized to widen the stereo image. It simulates a natural reverberation as created in a large hall.

Unplugged

This mode is suitable for acoustic instrumental sounds, vocals, and jazz music. By emphasizing the front stereo image, it simulates the acoustics in front of the stage.

Studio-Mix

This mode is suitable for rock and popular music. Lively sounds with a powerful acoustic image will make you feel as if you are in a club.

TV Logic

This mode offers the realistic acoustics of a TV program being aired in the TV studio. It enhances the entire surround sound and clarity of conversation.

All Ch St (All Channel Stereo)

This mode is useful for background music. The front and surround channels will create a stereo image.

■ Theater-Dimensional (T-D)* mode Theater-Dimensional

The ideal home theater is realized by the multichannel sound reproduction with the complete speaker configuration and speaker positioning described on page 20. However, sometimes it is difficult to meet all those conditions. In reality, you may only have front speakers, or not be able to place the surround speakers in position.

Even if your speaker system is not complete, you can enjoy the multichannel surround sound by using the Theater-Dimensional mode. Theater-Dimensional mode sets the output channels to generate the most suitable virtual surround reproduction according to the number of the speaker channels set in "Speaker Setup" on page 29 or 31.

The importance of the speaker setup

Calibrating each speaker's sound pressure is essential for home theater sound reproduction. The same thing can be said for virtual surround sound reproduction. Especially level matching and the time alignment of the two speakers that reproduce virtual surround signals becomes an even more important factor than with normal multichannel reproduction.

For the DVD Receiver, the calibration for the multichannel reproduction (see speaker distance setting on page 32 and test tone adjustment on page 33) provides the most appropriate level matching.

Notes

- For the input sources which include the surround channel signals like the multichannel DOLBY DIGITAL and DTS surround sounds, the virtual processing is applied to those surround channel signals.
- For the 2 channel input sources, the surround channel elements are automatically extracted with the DOLBY PRO LOGIC processing before the virtual processing is applied.
- For the monaural or front 3 channel stereo sources, the virtual surround effect does not work since those input sources do not include the surround channel signals.
- * Theater-Dimensional is a virtual surround technology developed by Onkyo. This technology is approved by Dolby Laboratories for the virtual surround processing of the Virtual Dolby Digital and Virtual Dolby Surround products.

The Input Sources and Available Listening Modes

The available listening modes varies depending on the sound type of the input source. The table below shows the correlation between the input source types and listening modes.

 $(\times$ marked listening modes can be chosen with a particular type of a source.)

Input Source Signals	Analog/PCM	Dolby Digital	DTS
Possible sources Listening Modes	Audio cassette, audio CD, VIDEO CD, Record, FM broadcast, AM broadcast	DVD video, LD, Digital (satellite) broadcast	DVD video, audio CD, LD
Stereo	×	×	×
Theater-Dimensional	×	×	×
DOLBY DIGITAL		×	
DTS			×
PL II Movie/PL II Music	×	\times^{\star}	
Orchestra	×		
Unplugged	×		
Studio-Mix	×		
TV Logic	×		
All Ch Stereo	×		

PL II Movie/Music can be selected only when the source is 2-channel.

Note

The listening mode is set to "Stereo" when the PCM sound whose sampling frequency is higher than 48kHz is played. Such high-resolution sounds are reproduced from sources such as DVD video.

Checking the Sound System of the Playing Source

The DVD Receiver will automatically detect the sound system when DOLBY DIGITAL Surround (DG[OLBY]), DTS Surround (OLG[OLBY]), or PCM/MP3 DIGITAL (2 channel digital stereo) is played back. The corresponding sound system indicator lights in the DVD Receiver's display.

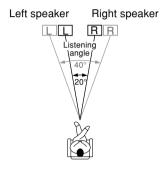
DOLBY DIGITAL DTS DIGITAL (PCM/MP3)

Choosing Theater-Dimensional Mode

Theater-Dimensional mode is the technology which controls the characteristics of the sounds reaching the listener's left and right ears, therefore, there is a sweet spot where you can best experience the Theater-Dimensional effects. You need to adjust the location of the sweet spot and these other factors for the best possible Theater-Dimensional effect.

Listening angle

("Lisng. Angle" appears in the display.)



The longer the distance between the two speakers is, the wider the angle is. The listening angle is the angle at the listening position where the two lines from the left and right speakers meet.

You need to adjust the listening angle in the following cases:

- If you set "Speaker 2ch" or "Speaker 3ch" in "Speaker Setup" on pages 29 and 30. Consider the listening angle as being formed from the left and right <u>front</u> speakers since the virtual surround signals are output from the front speakers.
- If you cannot place the surround speakers in the correct position.
 - Place each surround speaker on top of or on the outer side of each front speaker of the same side.
 - Consider the listening angle as being formed from the left and right <u>surround</u> speakers since the virtual surround signals are output from the surround speakers.

Set "Lisng. Angle" to one of the following settings, which you feel is most effective (the listening angles in parentheses are the ideal degrees):

- Normal (30°)
- Wide (40°)
- Narrow (20°)

■ Virtual Surround Level ("V. Surr Level" appears in the display.) This parameter adjusts the virtual surround level.

Set "V. Surr Level" to one of the following 7 values, which you feel is most effective: -3, -2, -1, 0, 1, 2, and, 3

Dialog mode

("Dialog Mode" appears in the display.)

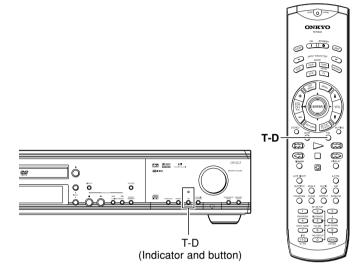
The dialog in the film may sound less clear because of the music or other sounds depending on the movie or scene.

In such a case, set "Normal" to "Enhance." (The factory setting is "Normal" which is the normal mode.)

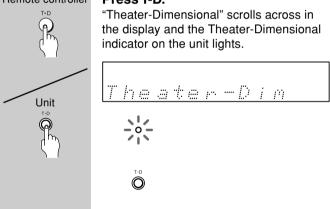
- This function emphasizes the dialog in the center channel since the dialog sound, in most films, is allocated to the center channel. Therefore, if the dialog is not in the center channel, the sound will not be enhanced.
- · Depending on the type of source, this mode is not very effective.

Activating Theater-Dimensional mode

See "The Input Sources and Available Listening Modes" on page 45.



Remote controller Press T-D.



Notes

- Theater-Dimensional mode cannot be activated if;
- Headphones are connected,
- SPEAKERS B system is On (North American and South American models only), or
- The source is PCM sound with a sampling frequency higher than 48kHz.
- Theater-Dimensional mode will be canceled and the T-D indicator goes off when:
 - Another listening mode is chosen, or
 - The input source is switched to a type of source which Theater-Dimensional mode cannot process.

T-D SETUP UP/DOWN ▲/▼ Activate Theater-Dimensional (see 1 the steps in the left column of this page). 2 Press T-D SETUP repeatedly to select the Theater-Dimensional Remote controller item (see on the previous page). only D SETU isng. Angle Each press of the button changes the item as follows: → Lisng. Angle \downarrow V. Surr Level \downarrow **Dialog Mode** \downarrow The normal display resumes. 3 Press UP/DOWN ▲/▼ to select the 6 setting of the item. To change the setting of another item, repeat steps 2 and 3. · To end the Theater-Dimensional setup, press T-D SETUP repeatedly until the

normal display resumes.

Adjusting Theater-Dimensional mode

Press MODE AUDIO first.

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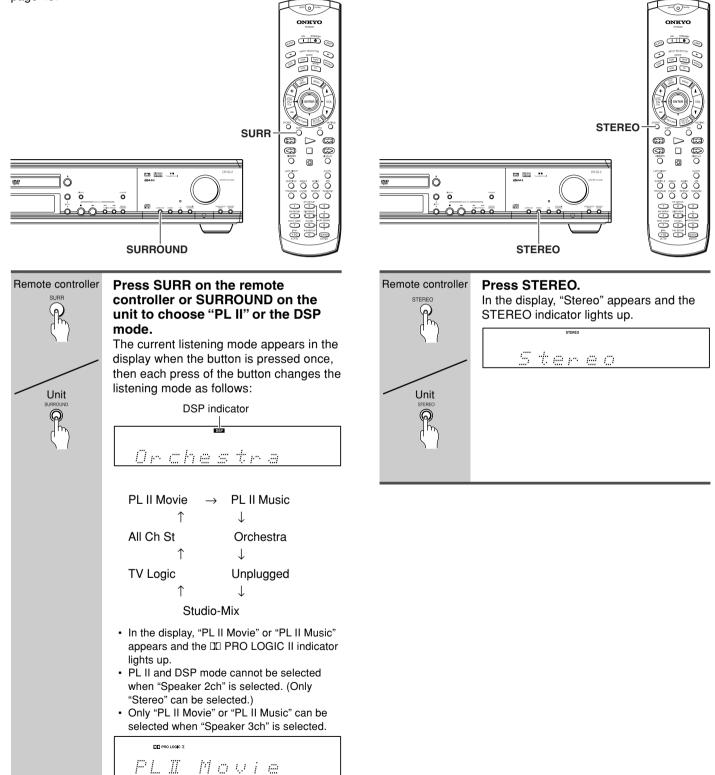
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Using Dolby Pro Logic II/ Onkyo's Original DSP Modes

See "The Input Sources and Available Listening Modes" on page 45.



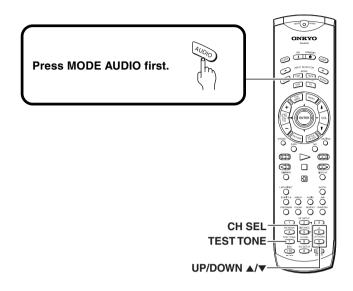
Changing the Sound to Stereo

See "The Input Sources and Available Listening Modes" on page 45.

Adjusting Each Speaker's Relative Volume Balance Temporarily

You can readjust each speaker's relative volume balance according to your preference while listening to the sound.

The adjusted values will return to the values set on page 33 when the DVD Receiver enters standby mode, or the main power is switched off unless you save the values.



1
Remote controlle
only
CH SEL
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(Checking each speaker's relative volume balance)

While playing the source, press CH SEL repeatedly.

Each press of the button changes the speaker which outputs the sound and the selected speaker appears in the display in the following order:

Left (Front left ch.)

Center (Center ch.)

J

......

Right (Front right ch.)

 \downarrow Surr R (Surround right ch.)

↓ Surr L (Surround left ch.)

 \downarrow

Subwfr (Subwoofer)

Speaker volume adjustment mode off

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Note

Any speaker that is not included in the speaker configuration on pages 29-31 is not selected even if it is actually connected.



(Adjusting each speaker's relative volume balance)

Press CH SEL repeatedly to select the speaker, then press UP/DOWN ▲/▼ to adjust the volume level. The volume level can be adjusted between -12dB and +12dB.

Repeat this step to change another speaker's volume balance.

Saving the adjusted values

Remote controller only

Press TEST TONE.

Using the LATE NIGHT/FRONT EFFECT Function

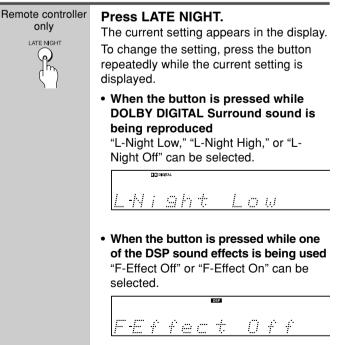
• The LATE NIGHT function operates when the sound is DOLBY DIGITAL Surround.

If you play a movie at low volume at night, set this function to "**Low**" or "**High**" to narrow the dynamic range of the sound and make it easier to hear.

• The FRONT EFFECT function operates with DSP modes other than All Ch St.

If you use one of the DSP sound effects with a source containing acoustic reverberation, the sound may become unclear because of too much reverberation. In such case, set this function to "**Off**." The DSP sound effect will not add additional reverberation to the sound output to the three front speakers.



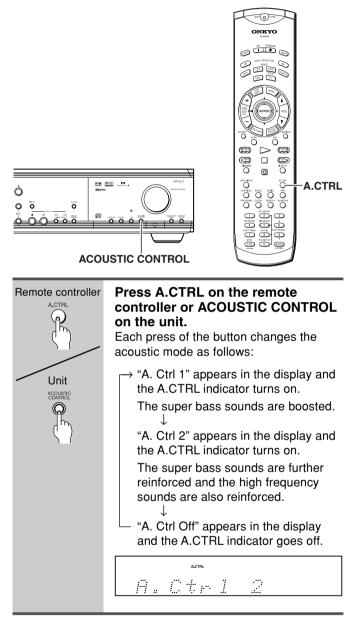


Note

The LATE NIGHT effect is determined by each DOLBY DIGITAL sound source. Some sources may produce little or no effect.

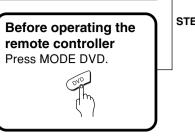
Boosting the Super Bass Sounds/High Frequency Sounds

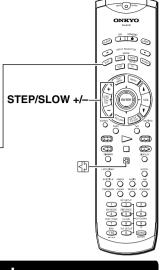
You can enjoy more dynamic sounds by boosting the super bass/high frequency sounds, even with decreased volume.



Still Frame/Slow Play

The video images on DVD and Video CD can be viewed as a still frame, played back at slow speeds and even advanced frame by frame.





DVD VCD

Viewing a still frame



Press 🖾, STEP/SLOW +/-.

When viewing a DVD, if the paused picture shakes, select the [Field] setting in the Setup screen Video 2 menu [Still Picture] setting as described in the section on page 70.

Frame by frame advance playback: Viewing one frame at a time

You can't use frame review with Video CDs.

- 1 Press 🖾, STEP/SLOW +/-.
- 2 Press STEP/SLOW +/-.
- STEP/SLOW +: The picture advances one frame each time the button is pressed. STEP/SLOW -: The picture backs up a DVD a few frames each time the button is pressed.

■ To return to normal playback

When viewing a still frame playback, pressing \square or **>** restores normal playback operation.

Notes

- There is no sound when viewing still frames or slow playback, or when advancing one frame at a time.
- Still frame, slow play, or frame advance playback may not be possible with certain titles. In this case, the Summark is displayed.

You can't use slow reverse play with Video CDs.



During still frame playback, press and hold STEP/SLOW +/– during playback.



Press STEP/SLOW +/- repeatedly to change the slow-motion speed. There are four forward slow-motion play speeds (STEP/SLOW +): 1/16 1/2 1/4 1/4 There are two reverse slow-motion play speeds (STEP/SLOW -):

Slow 1 \leftrightarrow Slow 2

■ To return to normal playback

When viewing a slow playback, pressing \blacktriangleright restores normal playback operation.

Locating a Specific Title/Folder/Chapter/ **Track/Location**

DVD, VCD, CD, MP3

Searching for a Title, Folder, Chapter, Track, or Location on a Disc

This DVD Receiver offers different ways of accessing the information on a DVD, Video CD, CD or MP3. Using SEARCH, you can search for titles or chapters on a DVD, tracks on a Video CD, CD or folders or tracks on a MP3 and even select the point in time to start playback.

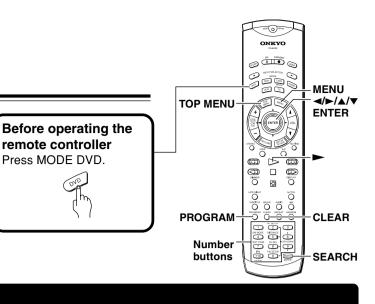
	Press SEARCH repeatedly to select the type of search. The type of search changes which each press as follows. DVD Title Chapter Off Time Video CD Track Time Off CD Track Off MP3
2 sv MODE bistANCE testrone testrone im to setup to setup	 Press the number button(s) of the desired title, chapter or track or of the specific time where you would like to begin playback. To select number 3, press 3. To select number 10, press 1 and 0. To select number 87, press 8 and 7. When performing a time search: To select 21 minutes, 43 seconds, press 2, 1, 4, and 3. To select 1 hour, 14 minutes, press 7, 4, 0, and 0.
3	Press Playback of the selected title, folder, chapter or track starts. When a time search is performed, playback begins at the appointed time.

Notes

- For some discs, selection can be made using the top menu on the DVD. In this case, press TOP MENU to display the menu screen and then make your selection.
- With some DVDs, the search operation may not be possible and may stop shortly after being performed. In this case, the 🎥 mark is displayed.
- Time search is not possible with CDs and MP3s.
- When performing DVD or Video CD time search, playback may start from a slightly different time than that specified.
- Time search is not possible during when the disc is stopped.
- · Search using time search is not possible during PBC playback of Video CDs.

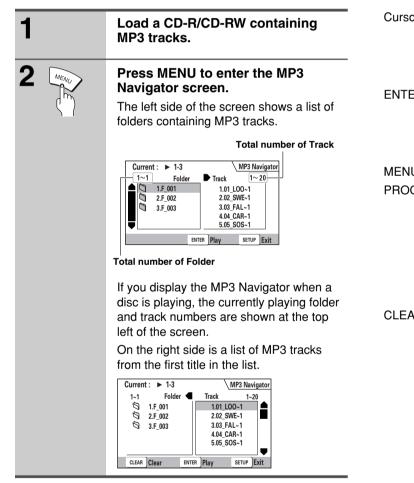
■ To perform a direct title or chapter/track search using the number buttons

- · Press the number buttons while the disc is stopped to select a title or track number.
- · Press the number buttons while the disc is playing to select a chapter or track number.
 - · To select number 3, press 3.
 - To select number 10, press +10 and 0.
 - To select number 37, press +10, +10, +10 and 7.



Using the MP3 Navigator

Use the MP3 Navigator to make searching for the track(s) you want to play easier. You can also use it to add or clear tracks from the program list.

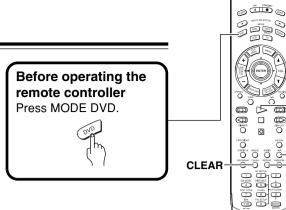


■ Navigate using the following controls:

Cursor buttons (◄/►)	Select folder and tracks from the current screen.
Cursor buttons (▲/▼)	Select the previous/next of folders and tracks. To move rapidly up or down a long list of folders or tracks, press and hold the Cursor buttons $(\blacktriangle/\intercal)$.
ENTER	Play the currently selected folder or track. MP3 tracks that are unplayable on this system are automatically skipped and the display shows "UNPLAYABLE".
MENU	Exit the MP3 Navigator
PROGRAM	Add the currently selected track to the program list. (Tracks in the program list are marked $$.) Pressing PROGRAM repeatedly will add the track to the program list repeatedly.
	See "Programming MP3s" on page 58 for how to use program play.
CLEAR	Clear the currently selected track from the program list.

Repeat Play

You can repeat an entire title, folder, chapter or track, or just a part.



A-B

REPEAT



Repeating a Disc, Title, Folder, Chapter or Track



Press REPEAT repeatedly.

Each time you press REPEAT, the repeat mode changes as follows:

(Characters in parenthesis appears in the front panel display.)

DVD

Repeat Chapter (REPEAT CHP) \rightarrow Repeat Title (REPEAT TTL) \rightarrow Repeat Off (Previous display)

Repeat Track (REPEAT TRK) \rightarrow Repeat Disc (REPEAT DSC) \rightarrow Repeat Off (Previous display)

MP3

Repeat Track (REPEAT TRK) \rightarrow Repeat Folder (REPEAT FLD) \rightarrow Repeat Disc (REPEAT DSC) \rightarrow Repeat Off (Previous display)

RPT. indicator lights up.

-- RPT

■ To repeat a program

Press REPEAT once during program playback to repeat the program.

■ To cancel repeat play

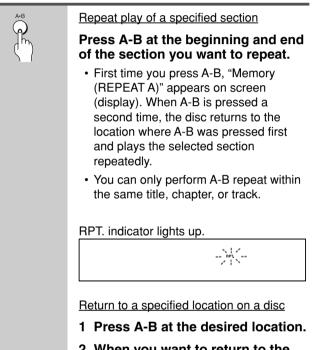
Press CLEAR. Playback continues, but the repeat function is canceled.

Note

If you press I during track repeat or chapter repeat, the repeat mode is cancelled.

Repeating a Specific Segment

כסי, פיזע, כטעם,



2 When you want to return to the specified location, press ►.

■ To cancel A-B repeat play

Press CLEAR. Playback continues, but the repeat function is canceled.

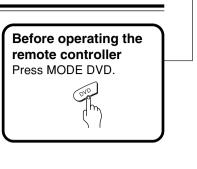
■ To clear the specified location

Press CLEAR to cancel repeat play or to clear the specified location that was set using A-B.

- With some DVDs, there may be times when repeat playback is not possible. In these cases, the mark will appear on the screen.
- With Video CDs, repeat play is not possible when the menu is displayed (PBC playback). To perform repeat play, start playback without displaying a menu by pressing the track number to be repeated when the disc is stopped, and then press REPEAT.
- You cannot use A-B repeat when listening to an MP3.
- If you switch camera angle during repeat play, repeat play is cancelled

Random Play

Play titles, chapters, or tracks on a disc in random order.



ENO 0100 ONKYO Ì ENTER b œ 0 Ø RANDOM

DVD VCD CD MP3

Playing in Random Order

DVD



Random playback of chapters within one title

Press RANDOM once, then press ENTER or ►.

"Random Chapter" appears on the screen, and chapters within the title will be played back in random order.

Random playback of titles

Press RANDOM twice, then press ENTER or ►.

"Random Title" appears on the screen, and titles will be played back in random order.

"RDM" appears in the display.

To change titles or chapters during random play

- Press ►►I or RANDOM and the next randomly selected title or chapter starts playing.
- Press I and playback of the current title or chapter starts again from the beginning.

■ To stop random play

Press CLEAR. This returns you to normal playback of chapters in order from the chapter currently playing.

Notes

- Random play of programmed chapters is not possible.
- Random playback may not be possible with some DVDs.
- Repeat playback of random playback is not possible. In these cases, the Semark will appear on the screen.

VCD CD MP3



Random playback of tracks

Press RANDOM. "Random" appears on the screen, "RDM" appears in the display, and playback begins.

■ To change tracks during random play

- Press ►►I or RANDOM and the next randomly selected track starts playing.
- Press I and playback of the current track starts again from the beginning.

To stop random play

Press CLEAR. This returns you to normal playback of tracks in order from the track currently playing.

- With Video CDs, random play is not possible during playback when the menu is displayed (PBC playback). To perform random play, start playback without displaying a menu by pressing a track number button while in the stop mode, and then press RANDOM.
- Random play of programmed tracks is not possible.
 Random playback of random playback is not possible.
- Repeat playback of random playback is not possible. In these cases, the Se mark will appear on the screen.

Playing in a Favorite Order

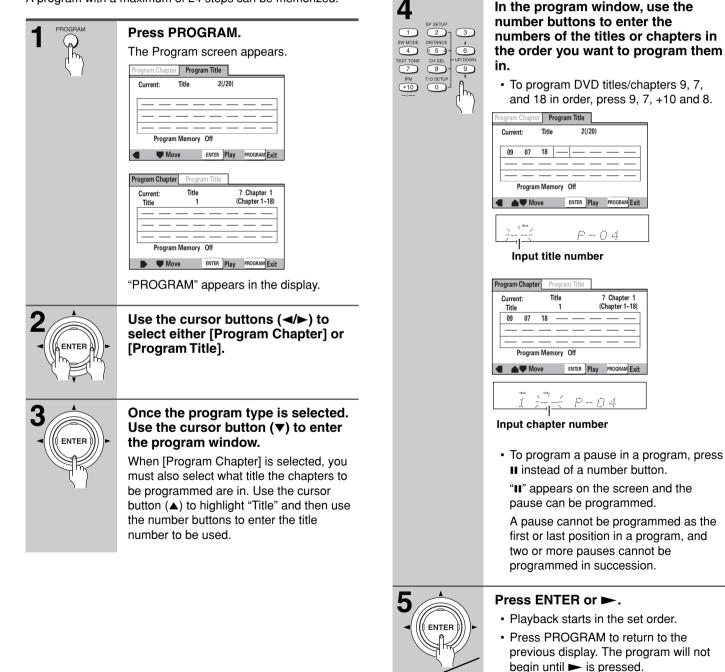
The titles and chapters within a title on a DVD and similarly MP3, CD and Video CD tracks can be arranged to play in the order you want.

With this player, it is possible to make a program as you watch a DVD or Video CD or while listening to an MP3 or a CD.

DVD

Programming DVDs

A program with a maximum of 24 steps can be memorized.

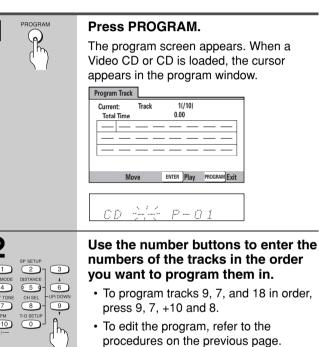


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To stop the program play, press ■.

104 0 44 ONKYC \bigcirc **∢/⊳/**▲/▼ ENTER Before operating the remote controller íun O Press MODE DVD. ′ı⁄5 (CCC) í E -RD ናክ PROGRAM CLEAR 2 3 5 6 Number buttons עסט, עסט,

Programming Video CDs, CDs



A program with a maximum of 24 steps can be memorized.

Notes

- When programming chapters, chapters not programmed may appear on the screen. This is not a malfunction.
- Programming may not be possible with certain DVDs. On these types of discs, the mark will appear on the screen when programming is attempted.
- Only chapters within the same title can be programmed during chapter programming.

■ To save a program in memory

This DVD Receiver can memorize the programs on up to 24 DVDs. By turning the [Program Memory] to [On], the DVD Receiver will save your program and recall it the next time you use the same DVD. When the program memory exceeds 24, programs will be erased in chronological order from the oldest program in memory.

1 Use the cursor button (▼) to highlight [Program Memory] and use the cursor button (►) to select [On].

Program Chapt	er Progra	ım Title		
Current: Title	Title 1		7 Chap (Chapter	
				_
Progra	m Memory	IOn		
		Off		
		UII		

2 Press ENTER.

The program is saved in memory.

Note

When a DVD with a program stored in memory is loaded, program playback may start automatically.

■ To erase a program saved in memory

The player erases programs in chronological order when the maximum number of programs that can be held in memory is exceeded. To prevent the player from erasing older programs that you may still use regularly, or when you don't want to use a program anymore, it is possible to manually erase programs stored in memory.

- Load a DVD that has a program stored in memory.
 Press PROGRAM.
- The program screen appears.
- 3 Use the cursor button (▼) to highlight [Program Memory] and use the cursor buttons (►/▼) to select [Off].
- 4 Press ENTER.

The program is cleared from memory.



Press ENTER or ►.

Playback starts in the specified track order.

• To program a pause in a program, press

A pause cannot be programmed as the

first or last position in a program, and

II instead of a number button.

pause can be programmed.

two or more pauses cannot be

programmed in succession.

"II" appears on the screen and the

- Press PROGRAM to return to the previous display. The program play will not begin until ► is pressed.
- To stop the program play, press ■.

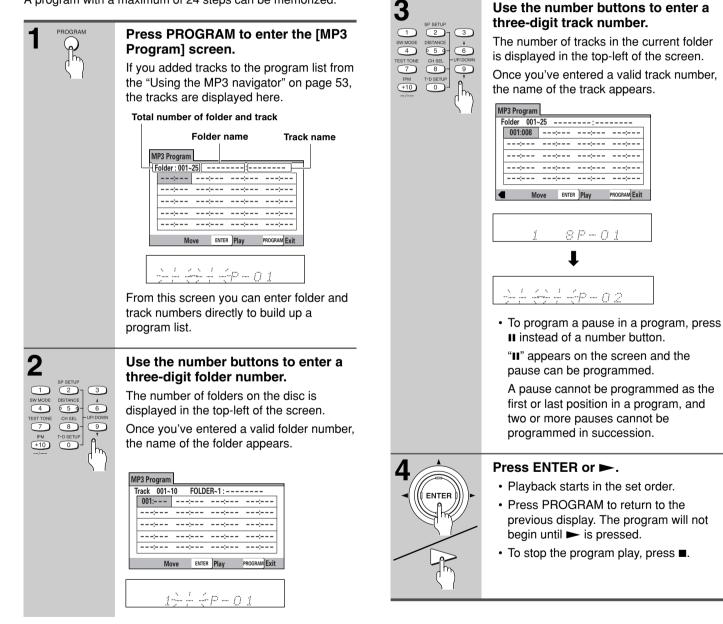
- To program a pause, or to add or delete a number, refer to the procedures for "Programming DVDs" on page 56.
- You cannot program when playing a Video CD using menu selections (during PBC).

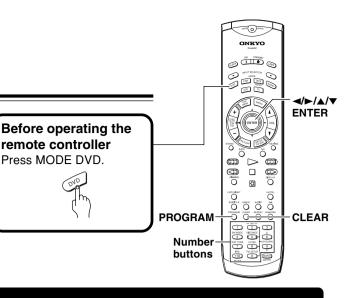
Playing in a Favorites Order

MP3>

Programming MP3s

A program with a maximum of 24 steps can be memorized.





DVD VCD CD MP3

Additional programming options

After you have made a program, it is then possible to confirm, add, or clear the contents of the program.

■ To confirm the contents of a program

On a CD or Video CD track program, press PROGRAM to confirm.

The program screen displays the current program.

On a DVD, select the program type (title or chapter) with the cursor buttons $(\blacktriangleleft/\triangleright)$.

The current DVD title or chapter program can then be confirmed on the appropriate program screen.

■ To add to a program

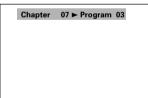
- 1 Press PROGRAM.
- 2 Use a number button to add a new title, chapter, or track at the end of the program.
- 3 Press PROGRAM to exit the program screen.

To add a title/chapter/track to a program during playback

Press and hold PROGRAM for about 2 seconds.

The current title/chapter/track number appears on-screen together with the program step number. If there isn't already a program then a new one will be created.

e.g. DVD



To insert a number

- 1 Press PROGRAM.
- 2 Use the cursor buttons (▲/▼/◄/►) to highlight the number to be placed after the new number and then press the number button(s) of the number to be inserted. The new number is inserted before the previously selected number.
- 3 Press PROGRAM to exit the program screen.

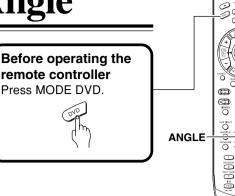
■ To delete a number

- 1 Press PROGRAM.
- 2 Use the cursor buttons (▲/▼/◄/►) to highlight the incorrect number and then press CLEAR. The number is deleted. If the number was before another number, the later numbers are reordered automatically.
- 3 Press PROGRAM to exit the program screen.

- The complete program will be deleted even if the disc tray is open or power off (standby).
- Pressing CLEAR when the disc is stopped will clear all programs.

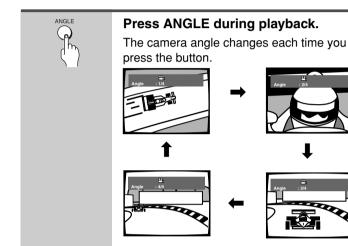
Selecting the Camera Angle

You can select a camera angle when viewing DVDs with the multi-angle option.



DVD

Viewing from a Desired Camera Angle (Multi-Angle)



Notes

- You can use the Multi-Angle function only with discs featuring recordings of images shot from different camera angles.
- During Multi-Angle playback, the Angle indicator in the display lights.
- For some discs, selection can be made using the DVD menu. In this case, press MENU to display the DVD menu screen and then make your selection.
- If you change the camera angle during still playback, the DVD Receiver resumes normal playback.

To check whether or not a disc is recorded with angles

WE'L SELECTURE INCOME INCOME

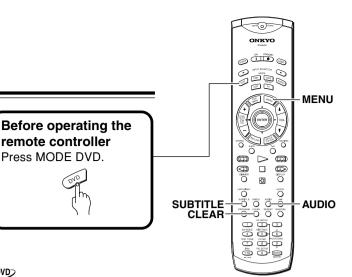
⊳ ⊂

Ť.

Ô

MENU

Selecting the Audio/ Subtitle Language



DVD>

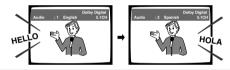
Changing the Audio Language (Multi-Language Function)

Dolby Digital, PCM, and other audio data can be recorded on DVDs in a number of languages or audio tracks, letting you choose the desired language or audio.



Press AUDIO repeatedly to select the desired language.

Pressing AUDIO once displays the currently selected language. Subsequent presses rotates through the audio languages available on the DVD.



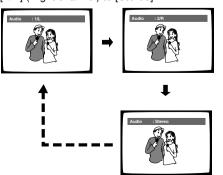
Notes

- · You cannot switch languages if there is only one language recorded on the disc.
- Switching the audio language may not be possible with some titles. In this case, the S mark is displayed.
- For some titles, selection can be made using the DVD menu. In these cases, press MENU to display the DVD menu screen and then make your selection.
- · When you erase the resume position or replace a disc, the DVD Receiver returns to the automatic setting in the setting menu (page 71).

Changing Audio Type

For enjoyment of karaoke or similar format Video CDs, CDs and MP3s, it is possible to select stereo audio, or either right or left channel mono depending on the requirements of the source. Press AUDIO repeatedly during playback to switch the audio type.

Audio output changes from [1/L] (Left channel) to [2/R] (Right channel) to [Stereo].



Note

With karaoke and other discs, set the appropriate audio type for singing and accompaniment after referring to information on the disc jacket or accompanying material.

כתעם

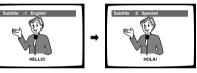
Selecting a Subtitle Language (Multi-Language Subtitles)

You can select a desired subtitle language with DVDs that have subtitle data in multiple languages recorded on them.



Press SUBTITLE repeatedly during playback.

Pressing SUBTITLE once displays the currently selected subtitle language. Subsequent presses rotates through the subtitle languages available on the DVD.



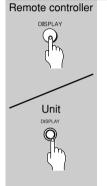
- · The subtitle language cannot be switched if the subtitle language is not recorded, or if only one language is recorded.
- Switching the subtitle language may not be possible with some discs. In this case, the S mark will be displayed.
- To clear subtitles during playback, press SUBTITLE and then press CLEAR, or press SUBTITLE until [Off] appears.
- For some discs, subtitle language selection can be made using the menu on the DVD. In this case, press MENU to display the DVD menu screen and then make your selection.
- When you erase the resume position or replace a disc, the DVD Receiver returns to the automatic setting in the setting menu (page 72).

Viewing Disc Information

Use DISPLAY to get current information about the disc currently loaded. You can get information about the titles and chapters on a DVD or tracks on a Video CD or CD or folders and tracks on a MP3. When viewing DVDs, you can also check the digital bitstream transmission rate.

DVD VCD CD MP3

Viewing Disc Information during while a disc is playing



Press DISPLAY during while a disc is playing. Press DISPLAY repeatedly to change the information being displayed. The disc information is displayed

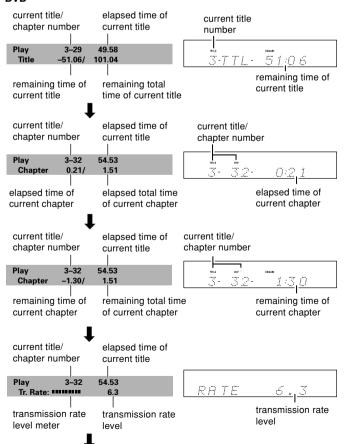
superimposed over the video image on the screen.

Press and hold DISPLAY to display the time remaining on the disc.

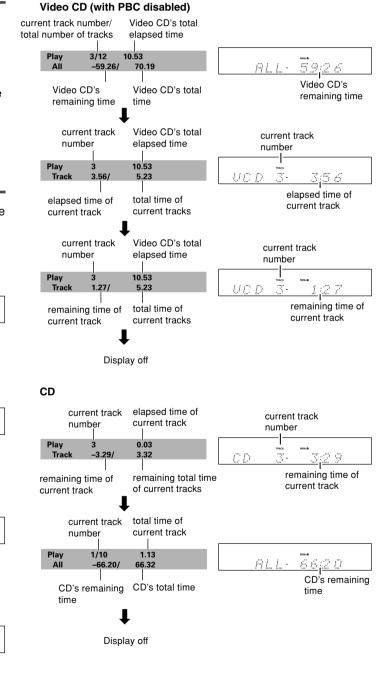
When you release the button, the information disappears.

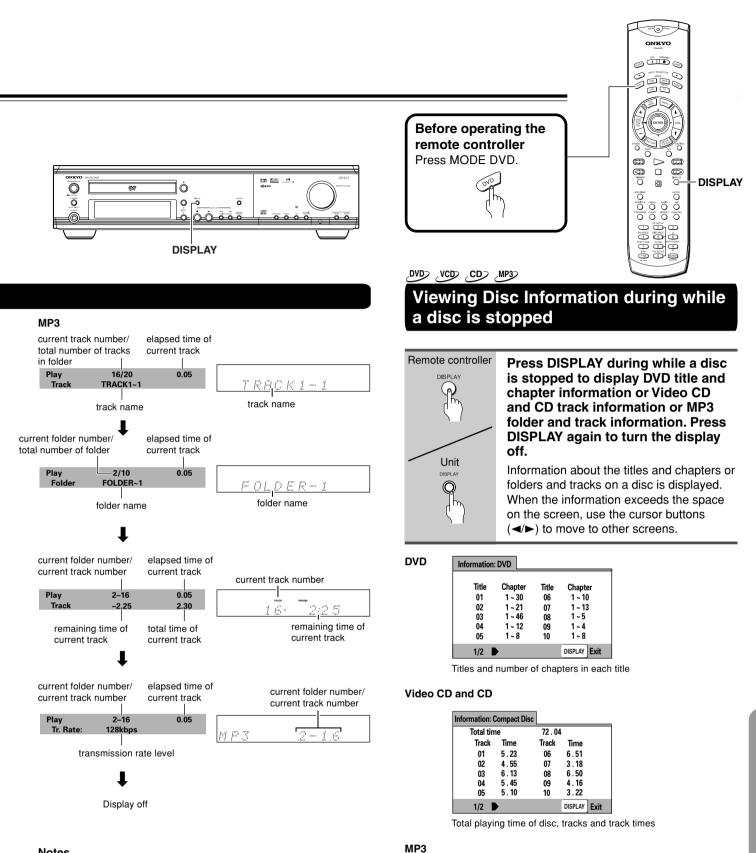
The display changes for each type of disc as follows each time the button is pressed.

DVD



Display off





Notes

- · Depending on the format and type of disc being used, not all screens may be displayed.
- · When playing Video CDs in PBC mode or unfinalized CD-Rs not all the above information is displayed.

Folders and number of tracks in each folder

Folde

01

02

03

04

05

Track

1 ~ 10

1~13

1~5

1~4

1~8 DISPLAY Exit

Track

1~9

1~11

1~3

1 ~ 22

1 ~ 15

Information: MP3

Folde

001

002

003

004

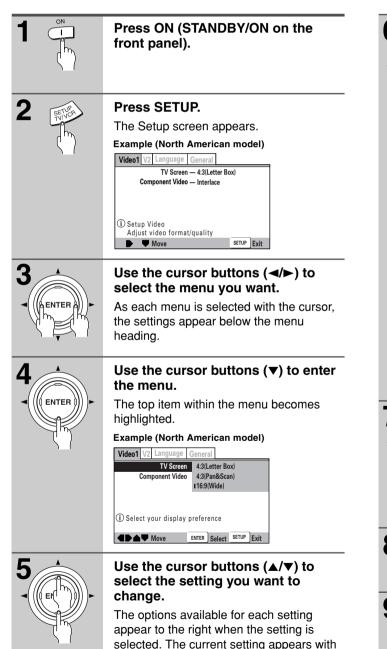
005

1/2

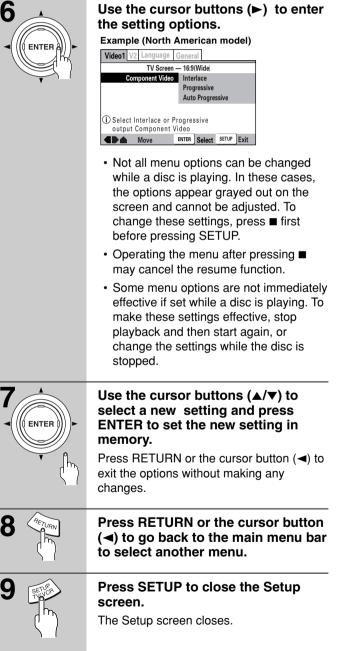
Customizing the Function Settings

The procedure on this page describes how to operate the menus on the Setup screen. These menus are used to set and adjust a number of system settings. The various functions that can be adjusted are covered throughout this manual. The procedure on this page provides a basic outline for using the Setup screen menus.

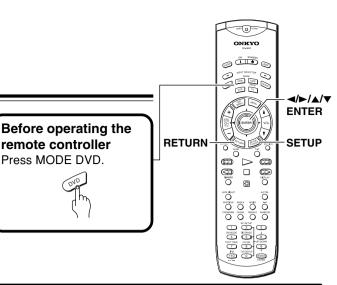
Using the Setup Screen Menus



the setting indicator lit.



- If you turn off the DVD Receiver during setup, the settings are canceled. Press SETUP to finish the setup.
- The memorized resume position may be erased by setup.
- The Setup screen always shows the latest settings.



Changing to the Setup Screen "Expert" Menu Mode

The Setup screen menus are divided into two levels, [Basic] and [Expert], to make this unit more convenient to operate for different levels of users. The [Basic] menu mode contains functions that may be considered necessary for the basic operations of this DVD Receiver and helpful on-screen information identified by the ① mark. The [Expert] menu mode adds to the [Basic] menu mode additional functions of the player that can be adjusted to further personalize performance of the player.

In this manual, functions that are contained in the [Expert] menu mode are identified by the Expert] icon. Make changes to the [Setup Menu Mode] setting in the Setup screen General menu.

Video1 V2 Language	Genera	1		
Setup Menu Mode	Expe	rt		
Setup Navigator	Basic	;		
Parental Lock	— Off (i	us)		
() Change menu mode				
	ENTER	Select	SETUP	Exit

Settings: Expert

Basic (Factory setting)

Note

On-screen information only appears in the [Basic] menu mode .

When setting up for the first time

It is recommended to set up player using the Setup Navigator (page 27). If you selected [Auto Start Off] when the Setup Navigator appeared, you may still set up the DVD Receiver using the Setup Navigator in the General menu screen. If you choose not to use the Setup Navigator, be sure to make the necessary settings in the Setup screen Video 1, Video 2 and Language menus as described on the following pages. Some DVDs start playing automatically when loaded in the DVD Receiver. If a DVD has been loaded, be sure to press ■ before proceeding.

Note

The next time you press SETUP, you'll see the menu screen that you exited from last time.

How to interpret the setting indicator colors in the Setup screen menus

When setting up the system, or when making adjustments, it is convenient to know what settings are applicable to the different disc formats. When the settings appear for each menu option, the currently selected setting appears with the setting indicator highlighted in one of three colors: blue, green or yellow. These colors correspond to what formats the menu option effects as shown in the table below.

Color of indicator	Disc format(s)
Blue	DVD only
Yellow	DVD/Video CD
Green	All compatible formats

Note

If a setting applicable only to DVDs is changed while a Video CD or CD is loaded, a blue DVD icon appears in the upper right hand corner of the screen to indicate that the setting is not applicable to the currently loaded disc. The setting will be effective the next time a DVD is loaded.

Setting the TV Screen Size

The width-to-height ratio of conventional TVs is 4:3, while the width-to-height ratio of wide screen and high-definition TVs is 16:9. This width-to-height ratio is called the aspect ratio. When viewing software recorded in different aspect ratios, the image's height to width ratio can be switched to match the TV or monitor being used.

Make changes to the TV screen size in the [TV Screen] setting in the Setup screen Video 1 menu. Please note that changes to the [TV Screen] setting cannot be made when a disc is playing. Stop playback of the disc before attempting to make any changes.

Example (North American model)

Video1	V2	Language	General			
		TV Screen	4:3(Let	ter Bo	x)	
Component Video 4:3(Pan&Scan)						
			16:9(W	ide		
①Select your display preference						
		Move			SETUP	Exit

Settings: 4:3 (Letter Box)

4:3 (Pan & Scan)

16:9 (Wide) (Factory setting)

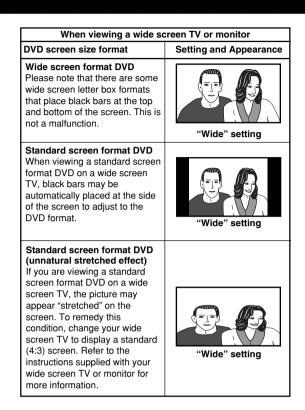
Notes

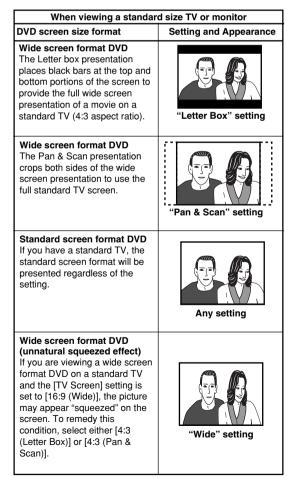
- If [Standard (4:3)] is selected in the Setup Navigator screen, [4:3 (Letter Box)] is selected on this screen. If you prefer the pan&scan format, change the settings on this screen.
- Whether the aspect can be switched or not depends on the disc. Please refer to the information written on the disc jacket, etc.
- Some discs may not include the screen format selected in the [TV Screen] setting. When this occurs, the standard TV screen format available on the disc is automatically selected.

Differences in screen sizes and DVD formats

The number of screen size formats currently available can be somewhat confusing. If set incorrectly, the video presentation may not appear as it should. The following diagrams and descriptions are intended to help you set your TV screen size in a way that will allow you to fully enjoy the digital video of DVD.

The settings in the [TV Screen] setting are perhaps most applicable when the DVD you are watching is programmed in the wide screen format. If you have a standard TV, select either [4:3 (Letter Box)] or [4:3 (Pan & Scan)] based on your personal preference. If you have a wide screen TV, select [16:9 (Wide)].





Setting the Video 1 Options

Connecting to a progressive scancompatible TV (North American model)

Compared to a standard interlaced TV picture, a progressive scan TV is capable of stable, flicker-free images. Set only if you connected the COMPONENT VIDEO OUT jacks to a progressive scan-compatible TV or monitor. Make changes to the [Component Video] setting in the Setup screen Video 1 menu.

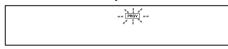


Settings: Interlace (Factory Setting)

Use this setting with regular TVs that are not compatible with progressive scan. Check the TV's instruction manual if you are not sure about this.

Progressive

Use this setting with TVs and monitors that have progressive scan component video inputs. The PRGV indicator lights up. Check the TV's instruction manual if you are not sure about this.



Auto Progressive

Switches to progressive scan when 16:9 DVDs are played,4:3 DVDs uses interlace setting. Your TV/ monitor must be compatible with progressive scan to use this setting.

Тір

If this DVD Receiver is set to output progressive-scan video, it's possible that the picture will appear stretched when playing discs recorded in 4:3 format. This happens when the TV's aspect ratio is set at 16:9. To see the picture in its correct aspect ratio, change the TV setting to 4:3.

If your TV can not be switched between 4:3 and 16:9, set this DVD Receiver to [Interlace] or [Auto progressive]. In Auto progressive mode, 4:3 discs will be played in Interlace mode, while discs that are recorded in both 4:3 and 16:9 will play in interlace mode during the 4:3 sections, and in progressive mode during the 16:9 parts. Switch your TV's aspect ratio to the most suitable setting (for more details, see the manual that came with your TV). When set to [Auto progressive], you may see picture disturbance when this player (and the TV) switches between progressive and interlace modes. This is not a malfunction of either this player or the TV. Picture disturbance should only occur when switching from a menu screen to the main feature, for example.

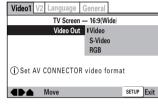
Notes

- If you connect a TV that is not compatible with a progressive scan signal and choose one of the progressive scan settings, you will not be able to see any picture at all. With your TV connected using either the composite or S-Video terminals, choose the [Interlace] setting in the [Component Video] menu.
- (Other than North American model) The DVD Receiver is fixed to [Interlace] setting. You cannot choose other settings.

Setting the Video Output Format for the AV CONNECTOR (European models)

When connections are made to the AV CONNECTOR jack on the player via a SCART cable, it is possible to select the video format that is compatible with your TV or monitor. Select [Video] to have a composite video signal output, [S-Video] to have an S-video signal output, and [RGB] to have an RGB signal output. For more information on which format is most appropriate, refer to the instructions supplied with your TV or monitor.

Make changes to the [Video Out] setting in the Setup screen Video 1 menu.



Settings: Video (Factory setting) S-Video RGB

Switching the S-Video Output

You can switch the kind of S-Video signal output from the S-Video outputs. If you connected your TV with an S-Video cord, in rare cases the TV picture may appear stretched. In this case switch the output from [S2] to [S1]. Make changes in the [S-Video Out] in the Setup screen Video

Make changes in the [S-Video Out] in the Setup screen Video 1 menu in the [Expert] menu mode (page 65).

Example (North American model)

		,
Video1 V2 Language	General	
TV Screen	n — 16:9(Wid	e)
Component Video	o – S1	
S-Video Ou	t IS2	
Screen Save	r — On	
		SETUP Exit
-		

Settings: S1

S2 (Factory Setting)

■ Turning the Screen Saver On and Off Expert

As a protective function against residual images on the TV screen or monitor, a phenomenon referred to as "screen burn", the screen saver appears when the same screen has been displayed for a length of time. By default, the screen saver is turned on. However, the screen saver function can be turned on and off at your discretion.

Make changes to the [Screen Saver] setting in the Setup screen Video 1 menu in the [Expert] menu mode (page 65).

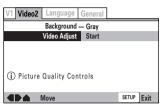
Example (North American model)

Video1 V2 Language General	
TV Screen — 16:9(Wide)	
Component Video — Interlace	
S-Video Out — S2	
Screen Saver IOn	
Off	
Move	SETUP Exit
Settings: On (Factor	y setting
(

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Adjusting the Video Quality

You can either select a preprogrammed setting designed to match certain program types or make adjustments to match your own preferences and save them in the player's memory. Make changes to the [Video Adjust] setting in the Setup screen Video 2 menu.

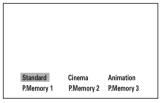


■ Selecting a preprogrammed setting

 Use the cursor button (►) to select [Start] then press ENTER. Setting items vary depending on the settings in the Setup screen Video 1 menu.



2 Press ENTER.



Standard (Factory Setting)

Presents the video with no effect added. **Cinema**

Delivers a cinema-like picture.

Animation

Provides images with bright clear colors. Memory 1, Memory 2, and Memory 3

(P.Memory 1, P.Memory 2, and Memory 3)

These are user programmable settings. See "Adjusting the picture quality settings" on this page and page 69 for more information.

- 3 Use the cursor buttons (◄/►/▲/▼) to select one of the preprogrammed picture quality settings.
 If there is a DVD or Video CD playing, the effects of each setting can be viewed while it is highlighted on the screen. This may be useful in selecting an appropriate setting.
- 4 Press ENTER. The new selection is set.

Notes

- Each picture quality setting is defined by a number of individual settings, described in "Adjusting the picture quality settings" on pages 68 and 69.
- Depending on the disc and the TV/monitor, you may not see the effect clearly.

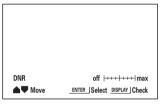
- Adjusting the picture quality settings - To create your own setting (1)
- 1 Use the cursor button (►) to select [Start] then press ENTER.



2 Use the cursor button (▼) to select [Video Setup] then press ENTER.



3 Use the cursor buttons (◄/►) to select the setting to [On] or [Off].



4 Use the cursor buttons (▲/▼) to select the setting to adjust. You can adjust any or all of the following picture quality factors: (North American model when set to [Progressive] or [Auto Progressive] in the Setup screen Video 1 menu.)

DNR

Adjust to control the amount of signal noise in the luminance component of the video signal.

Sharpness

Adjusts the sharpness of the mid-frequency (less detailed) elements in the picture. (This setting is only effective when [Fine Focus] is [On].)

Detail

Switch on to reveal greater detail (higher resolution) in the picture.

Chroma Delay

Adjusts how saturated colours appear.

Gamma

Adjusts the brightness of the darker images in the picture. **Prog. Memory**

Program the current settings.

(North American model when set to [Interlace] setting in the Setup screen Video 1 menu, and other models) **Fine Focus**

Switch [On] to reveal greater detail (higher resolution) in the picture

Contrast

Adjusts the contrast of the elements in the picture.

Sharpness

Adjust the sharpness of the high-frequency (detailed) elements in the picture. (This setting is only effective when [Fine Focus] is [On].)

Chroma Level

Adjusts how saturated colours appear.

Hue

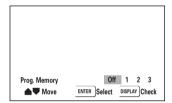
Adjusts the overall red/green color balance.

Memory (Interlace Memory)

Program the current settings.

- 5 Use the cursor buttons (◄/►) to adjust the settings.
 Adjust these while a disc is playing to see the effect of changes immediately.
- 6 Repeat steps 4 and 5 to make adjustments to other settings.

If you would like to save the settings in the player's memory, be sure to select either [1], [2], or [3] in the [Prog. Memory] or [Memory (Interlace Memory)] setting to establish which memory location to save the new settings in. Please note that if you select a location where settings have already been saved, the old settings will be replaced by the new ones.



7 When you are finished making adjustments, press ENTER to establish the new settings.

Adjusting the picture quality settings – To create your own setting (2)

1 Use the cursor button (►) to select [Start] then press ENTER.



- 2 Use the cursor button (▼) to select [Video Setup] and press ENTER.
- 3 Press DISPLAY.

DNR	off H++++ + + + max
Sharpness	On Off
Detail	min +++++ / / / max
Chroma Delay	min H+++++ + + + Imax
Gamma	green + + + + + + red
Memory	Off 1 2 3

- 4 Use the cursor buttons (▲/▼) to select the setting and use the cursor buttons (◄/►) to adjust the settings.
 Adjust these while a disc is playing to see the effect of changes immediately.
- 5 To memorize the setting, select Memory 1, 2, 3, then press ENTER.

The previous setting will be erased.

Setting the Video 2 Options

Changing the Background of the Screen

You can select a background to appear when the DVD

Receiver is in the stop mode.

Make changes to the [Background] setting in the Setup screen Video 2 menu.



Settings: Gray Black

■ Selecting the Type of Paused Image to Display Expert

This function lets you view a clear still-image when DVD playback is paused.

Make changes in the [Still Picture] setting in the Setup screen Video 2 menu in the [Expert] menu mode (page 65).



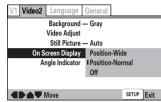
Settings: **Field** (Picture shake will be eliminated during a paused picture.)

Frame (Select to obtain higher picture quality.) Auto (Selects [Field] or [Frame] automatically according to the disc.) (Factory setting)

■ Setting the Position of the On-screen Display Expert

When watching conventional software on a wide screen TV, the operation display is at the very top of the screen, and may be difficult to see. Changing the position of the display lets you see operation indicators clearly even on a wide screen TV. Alternatively, you can choose to turn them off completely with the [Off] setting.

Make changes in the [On Screen Display] in the Setup screen Video 2 menu in the [Expert] menu mode (page 65).



Settings: Position-Wide Position-Normal (Factory setting) Off

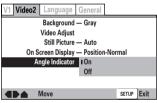
Note

This setting is only effective with DVDs that contain a 4:3 aspect ratio video presentation.

■ Turning the angle indicator on and off Emert

When a picture recorded in different angles is played back $\stackrel{\mbox{\scriptsize Cl}}{=}$ is displayed on the screen. This setting lets you see clearly whether the playback picture is recorded in multiple angles or not.

Turn the angle indicator on or off in the [Angle Indicator] setting in the Setup screen Video 2 menu in the [Expert] menu mode (page 65).



Settings: On (⇔ is displayed) (Factory setting) Off (Not Displayed)

Note

Even when the [Angle Indicator] setting is set to [Off], the $\frac{1}{2}$ indicator in the display panel of the DVD Receiver lights during multiangle playback. Therefore, it is possible to know when the multiangle function can be used without having to display the icon on the screen.

Setting the Language Options

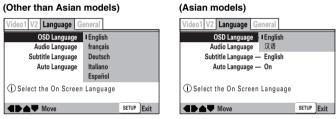
DVDs have the capacity to contain a great deal of audio information, which includes the ability to hold up to 8 different language tracks and subtitle information in as many as 32 different languages. This section outlines the variety of audio language and subtitle options available with this player. Please note that if you have completed the Setup Navigator, the audio and subtitle language options have automatically been set in accordance with the [OSD Language] (the language that appears on the screen).

Note

DVDs differ in content and do not all contain multiple language or subtitle information. Therefore making settings in this section may have no effect on some DVDs.

Setting the On-screen Display (OSD) Language

This setting is used to establish the language that operation indicators and on-screen messages and operations display. Change this setting in the Setup screen Language menu [OSD Language] setting.



Settings: English (Factory setting)

français Deutsch Italiano Español

Asian models only

English (Factory setting) 汉语

Notes

- The menu settings may be different from those shown above.
- The [OSD Language] setting is factory set to [English]. If you
 want English to be displayed, it is not necessary to adjust this
 setting.

■ Selecting an audio language preference

The audio language that you normally listen to can be selected from the various audio languages on a DVD. Even when the audio language is changed during playback by pressing AUDIO, the language selected at this setting will be selected as the default when the DVD is changed. Make changes to the [Audio Language] setting in the Setup screen Language menu.

You cannot make this setting with a disc playing.

(Other than Asian models)				(Asian models)			
Video1 V2 Language G	eneral			Video1 V2 Language General			
OSD Language -	I English			OSD Language — English	_		
Audio Language	French			Audio Language English			
Subtitle Language	German			Subtitle Language Chinese			
Auto Language	ltalian Spanish Other			Auto Language Other			
(i) Setup audio languag	е			(i) Setup audio language			
		SETUP	Exit	SETUP SETUP	Exit		

Settings: English (Factory setting) French

German	
Italian	

Spanish

Other (For details on how to select other

languages, see "When [Other] is selected" on page 73.)

Asian models only

English (Factory setting) Chinese Other

Note

The menu settings may be different from those shown above.

Setting the Language Options

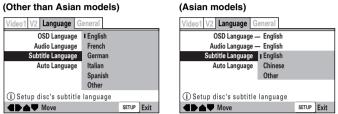
Selecting a subtitle language preference

The subtitle language that you will normally display can be selected from the subtitles programmed on a disc. Even when the subtitle language is changed during playback by pressing SUBTITLE, the language selected at this setting will be selected when the disc is changed.

Make changes to the [Subtitle Language] setting in the Setup screen Language menu.

You cannot make this setting with a disc playing.

(Other than Asian models)



Settings: English (Factory setting)

French German

- Italian
- Spanish

Other (For details on how to select other languages, see "When [Other] is selected" on page 73.)

Asian models only

English (Factory setting) Chinese Other

Note

The menu settings may be different from those shown above.

Setting Auto Language to control subtitle and audio language based on program content

When the Auto Language function is used, foreign movies are shown with the original audio soundtrack and subtitles in the language selected in the [Subtitle Language] menu option. Domestic films are shown with the original audio soundtrack and no subtitles. (This setting may not be effective with all DVDs.)

Make changes to the [Auto Language] setting in the Setup screen Language menu.

You cannot make this setting with a disc playing.



Settings: On (Factory setting) Off

Note

The Auto Language function operates only when this function is set to [On], and the language set for the [Audio Language] and [Subtitle Language] settings is the same.

Selecting a DVD menu language preference Expert

In addition to containing different audio languages, DVD may also contain menu screens in different languages as well. Setting a DVD language preference, sets the selected language as a default when DVDs with menu information in that language are encountered.

Selecting [w/ Subtitle Language] automatically assigns the language selected in the [Subtitle Language] setting. Make changes to the [DVD Language] setting in the Setup screen Language menu in the [Expert] menu mode (page 65). You cannot make this setting with a disc playing.

(Other than Asian models)





Settings: w/ Subtitle Language (Factory setting)

English French German Italian Spanish Other (For details on how to select other languages, see "When [Other] is selected" on page 73.)

Asian models only

w/ Subtitle Language (Factory setting) English Chinese Other

- · The menu settings may look different from the one shown above.
- If this function is not effective, the languages that can be selected may also be selected in the DVD menu. Press MENU to open the DVD menu and make your selection accordingly.

Selecting subtitles, assist subtitles or no subtitles Expert

Use this function to turn the subtitles on or off. Additionally, some DVDs provide assist subtitles that provide additional explanations of scenes in addition to the standard subtitles for viewers who are hard of hearing. Select [Assist Subtitle] to display these subtitles on DVDs where this function is offered. Make changes to the [Subtitle Display] setting in the Setup screen Language menu in the [Expert] menu mode (page 65). You cannot make this setting with a disc playing.

Video1 V2 Language	ieneral		
OSD Language — English			
Audio Language — English			
Subtitle Language — English			
Auto Language — On			
DVD Language	I On		
Subtitle Display	Off		
Subtitle Off Assist Subtitle			
		SETUP	Exit

Settings: On (Factory setting) Off Assist Subtitle

Notes

- If there is no subtitle information recorded on the DVD, no subtitles are displayed even if this function is set to [On].
- This setting serves as a default as whether or not to display subtitles. Even if this option is set to [Off], subtitles can be displayed by pressing SUBTITLE. Similarly, if this option is set to [On], the subtitles can be turned off by pressing SUBTITLE and then CLEAR.

■ Forcing subtitles to be displayed Expert

Even when the subtitles are turned off, some DVDs will nevertheless display them on the screen. This setting allows you to select the language of the subtitles to be displayed with this type of DVD.

Select [With Audio] to display the subtitles in the same language as the currently selected [Audio Language]. Select [Selected Subtitle] to display the subtitles in the language set in the [Subtitle Language] setting.

Make changes to the [Subtitle Off] setting in the Setup screen Language menu in the [Expert] menu mode (page 65). You cannot make this setting with a disc playing.



Settings: With Audio

Selected Subtitle (Factory setting)

When [Other] is selected

When you want to select one of the 136 languages as the main audio language, follow the steps below when the following screen appears.

A language code list can be found on page 74.



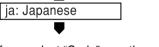
1 Use the cursor buttons to select [Other] and press ENTER. The language selection screen appears.



- 2 Use the cursor buttons (◄/►) to select either "List of Language" or "Code".
- If you select "List of Language", use the cursor buttons (▲/▼) to select the language.
 For languages which are only shown as a code, refer to

"Language Code List" on page 74.

List of Languages



If you select "Code", use the cursor buttons ($\blacktriangle/ {\bf \nabla})$ to input the numbers of the input code.

Use the cursor buttons $(\blacktriangleleft/\succ)$ to change the position of the cursor. You can also use the number buttons to enter the code.

Code (0~2)



4 Press ENTER to set the new language. To exit the screen without making any changes, press RETURN.

Language Code List

Language codes are used when setting the audio and subtitle language preferences (pages 71-73).

Language	Input-code
Japanese (ja)	1001
English (en)	0514
French (fr)	0618
German (de)	0405
Italian (it)	0920
Spanish (es)	0519
Chinese (zh)	2608
Dutch (nl)	1412
Portuguese (pt)	1620
Swedish (sv)	1922
Russian (ru)	1821
Korean (ko)	1115
Greek (el)	0512
Afar (aa)	0101
Abkhazian (ab)	0102
Afrikaans (af)	0106
Amharic (am)	0113
Arabic (ar)	0118
Assamese (as)	0119
Aymara (ay)	0125
Azerbaijani (az)	0126
Bashkir (ba)	0201
Byelorussian (be)	0205
Bulgarian (bg)	0207
Bihari (bh)	0208
Bislama (bi)	0209
Bengali (bn)	0214
Tibetan (bo)	0215
Breton (br)	0218
Catalan (ca)	0301
Corsican (co)	0315
Czech (cs)	0319
Welsh (cy)	0325
Danish (da)	0401
Bhutani (dz)	0426
Esperanto (eo)	0515
Estonian (et)	0520
Basque (eu)	0521
Persian (fa)	0601
Finnish (fi)	0609
Fiji (fj)	0610
Faroese (fo)	0615
Frisian (fy)	0625
Irish (ga)	0701
Scots-Gaelic (gd)	0704
Galician (gl)	0712
Guarani (gn)	0714

Language	Input-code
Gujarati (gu)	0721
Hausa (ha)	0801
Hindi (hi)	0809
Croatian (hr)	0818
Hungarian (hu)	0821
Armenian (hy)	0825
Interlingua (ia)	0901
Interlingue (ie)	0905
Inupiak (ik)	0911
Indonesian (in)	0914
Icelandic (is)	0919
Hebrew (iw)	0923
Yiddish (ji)	1009
Javanese (jw)	1023
Georgian (ka)	1101
Kazakh (kk)	1111
Greenlandic (kl)	1112
Cambodian (km)	1113
Kannada (kn)	1114
Kashmiri (ks)	1119
Kurdish (ku)	1121
Kirghiz (ky)	1125
Latin (la)	1201
Lingala (In)	1214
Laothian (lo)	1215
Lithuanian (It)	1220
Latvian (Iv)	1222
Malagasy (mg)	1307
Maori (mi)	1309
Macedonian (mk)	1311
Malayalam (ml)	1312
Mongolian (mn)	1314
Moldavian (mo)	1315
Marathi (mr)	1318
Malay (ms)	1319
Maltese (mt)	1320
Burmese (my)	1325
Nauru (na)	1401
Nepali (ne)	1405
Norwegian (no)	1415
Occitan (oc)	1503
Oromo (om)	1513
Oriya (or)	1518
Panjabi (pa)	1601
Polish (pl)	1612
Pashto, Pushto (ps)	1619
Quechua (qu)	1721
×1 /	1

Language	Input-code
Rhaeto-Romance (rm)	1813
Kirundi (rn)	1814
Romanian (ro)	1815
Kinyarwanda (rw)	1823
Sanskrit (sa)	1901
Sindhi (sd)	1904
Sangho (sg)	1907
Serbo-Croatian (sh)	1908
Sinhalese (si)	1909
Slovak (sk)	1911
Slovenian (sl)	1912
Samoan (sm)	1913
Shona (sn)	1914
Somali (so)	1915
Albanian (sq)	1917
Serbian (sr)	1918
Siswati (ss)	1919
Sesotho (st)	1920
Sundanese (su)	1921
Swahili (sw)	1923
Tamil (ta)	2001
Telugu (te)	2005
Tajik (tg)	2007
Thai (th)	2008
Tigrinya (ti)	2009
Turkmen (tk)	2011
Tagalog (tl)	2012
Setswana (tn)	2014
Tonga (to)	2015
Turkish (tr)	2018
Tsonga (ts)	2019
Tatar (tt)	2020
Twi (tw)	2023
Ukrainian (uk)	2111
Urdu (ur)	2118
Uzbek (uz)	2126
Vietnamese (vi)	2209
Volapük (vo)	2215
Wolof (wo)	2315
Xhosa (xh)	2408
Yoruba (yo)	2515
Zulu (zu)	2621

Setting the Parental Lock Level

This player lets you set the Parental Lock if the DVD has a parental lock level recorded on it. With Parental Lock capable discs, you can block access to material you feel is inappropriate for your children. Refer to the DVD jacket and the accompanying documentation to see if a particular disc contains a parental lock level.

Make changes to the [Parental Lock] setting in the Setup screen General menu. Please note that changes to the Parental Lock level cannot be made when a disc is playing. Stop playback of the disc before attempting to make any changes.

You cannot select [Level] or [Country Code] until you have registered a password. Select [Password] to register a new password. See "Entering the password" on this page for how to register a new password.



Settings: Password

(For information, refer to "Entering the Password" on the this page.)

Level

(For information, refer to "Setting the Parental Lock Level" on this page.)

Country Code

(For information, refer to "Setting the Country Code" on the following page.)

When a DVD with a set Parental Lock level is loaded

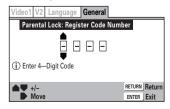
Playback cannot be started until the code number has been correctly input by using the cursor buttons $(\blacktriangleleft/\blacktriangleright/\blacktriangle)$ or the number buttons, and ENTER has been pressed.

Entering the Password

When you select either [Level] or [Country Code], it is necessary to register the password (4-digit code number). You'll be asked to confirm your existing password before registering a new one. Use the following steps at any time you are asked to enter or confirm your password.

 Use the cursor buttons (▲/▼) or the number buttons to select a number between 0 and 9.

You can also use the number buttons to enter the numbers directly. When entering your password for the first time, or changing it, you will be asked to reenter your password. When using the number buttons to confirm the password, the numbers appear as asterisks, and the cursor advances automatically to the next position.



Use the cursor buttons (◄/►) to move the cursor to a different position in the password.
 When all four numbers of the passoword have been entered,

ENTER appears on the screen.



3 Press ENTER to set the password. The password is entered.

Notes

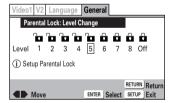
- Be sure not to forget your password. If you should forget it, reset the system, and enter a new password. To reset the system, see "Resetting the DVD Receiver to System Settings" (page 76).
 Please note that this procedure resets the system, and clears all saved settings, not just the password.
- Some discs lock out violent scenes. Refer to instruction notes on discs.

Setting the Parental Lock Level

Change the Parental Lock level to a higher or lower level according to the settings printed on the DVD disc jacket or accompanying documentation. If you use the Condition Memory function to save the settings for a particular disc, the Parental Lock level is saved as well. Because it is saved in memory, Parental Lock levels can be set for individual discs according to their content rather than a set level for all DVDs.

1 Select [Level] in the [Parental Lock] setting and press ENTER.

The screen changes to the password input screen. You cannot select [Level] until you have registered a password. To enter the password, refer to "Entering the Password" on this page.



2 Use the cursor buttons (◄/►) to adjust the Parental Lock Level.

The lock icons appear "unlocked" up to the selected level to indicate that access is available.

3 Press ENTER to set the new level. The new Parental Lock level is set and the screen returns to the General menu screen. To go back to the General menu screen without making any changes, press RETURN.

Changing the Password

Change your password whenever you feel it is necessary. However, if you forget your existing password, you cannot enter this screen to change it.

1 Select [Password Change] in the [Parental Lock] setting and press ENTER.

The screen changes to the password input screen. To enter the password, refer to "Entering the Password" on this page.

- 2 Use the cursor buttons (◄/►/▲/▼) or the number buttons to enter the new password.
- 3 When the new password has been entered, press ENTER. The new password is set and the screen returns to the General menu screen. To go back to the General menu screen without making any changes, press RETURN.

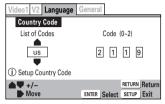
Setting the Parental Lock Level

Setting the Country Code

Change your Country Code whenever you feel it is necessary. However, if you forget your existing password, you cannot enter this screen to change it.

1 Select [Country Code] in the [Parental Lock] setting and press ENTER.

The screen changes to the password input screen. To enter the password, refer to "Entering the Password" on the previous page. The Country Code selection screen appear.



- 2 Use the cursor buttons (◄/►) to select either "List of Codes" or "Code".
- 3 If you select "List of Codes", use the cursor buttons (▲/▼) to select the country.

For country codes which are only shown as a code, please refer to "Country Code List" on this page.

List of Codes



If you select "Code", use the cursor buttons $(\blacktriangle/\triangledown)$ to input the numbers of the input code.

Use the cursor buttons $(\blacktriangleleft/\blacktriangleright)$ to change the position of the cursor. You can also use the number buttons to enter the code.





4 Press ENTER to set the new Country Code. To exit the screen without making any changes, press RETURN.

Country Code List

Country	Input-code	Country-code
ARGENTINA	0118	ar
AUSTRALIA	0121	au
AUSTRIA	0120	at
BELGIUM	0205	be
BRAZIL	0218	br
CANADA	0301	са
CHILE	0312	cl
CHINA	0314	cn
DENMARK	0411	dk
FINLAND	0609	fi
FRANCE	0618	fr
GERMANY	0405	de
HONG KONG	0811	hk
INDIA	0914	in
INDONESIA	0904	id
ITALY	0920	it
JAPAN	1016	jp
KOREA, REPUBLIC OF	1118	kr
MALAYSIA	1325	my
MEXICO	1324	mx
NETHERLANDS	1412	nl
NEW ZEALAND	1426	nz
NORWAY	1415	no
PAKISTAN	1611	pk
PHILIPPINES	1608	ph
PORTUGAL	1620	pt
RUSSIAN FEDERATION	1821	ru
SINGAPORE	1907	sg
SPAIN	0519	es
SWEDEN	1905	se
SWITZERLAND	0308	ch
TAIWAN, PROVINCE OF CHINA	2023	tw
THAILAND	2008	th
	0702	gb
UNITED STATES OF	2119	us
AMERICA		

Resetting the DVD Receiver to System Settings

To reset the DVD player section of this unit, press and hold \blacksquare on the front panel when pressing STANDBY/ON to turn the unit from standby to on .

All program memory, saved settings from functions such as Video Memory are cleared, TV System is reset to AUTO and all Setup screen menus are returned to factory settings.

Recording Using the Connected Equipment

You can record according to the following using the connected recording equipment:

- · Sound/picture of discs played back by the DVD Receiver,
- Sound of FM/AM programs, and
- Sound/picture of the connected source.

Note

Many discs and sources are copy protected. Copy protected sources are impossible to record.

Basic Recording Procedure

1	Set the recording equipment (MD recorder, DAT, Cassette tape deck, VCR, DVD recorder, CD recorder, etc.) to recording pause.
2	Select the input source to be recorded, then set it to play pause.
	 To play and pause a DVD video, Video CD, or audio CD, see page 34.
	 To select an FM/AM program, see page 38.
	 To select a connected source, see page 40.
	Refer to the manuals of the connected source equipment for instructions on how to play and pause.
3	Release the recording pause set in step 1 to start recording.
4	Start playback of the selected source in step 2.

Notes

- If you select another input source during recording, the selected source will be recorded.
- Sound effects described on pages 44 to 50 do not affect the recorded sounds.

Recording the Picture and Sound From Different Sources at the Same Time

The picture from the playing VIDEO 2/CDR/PC source is output through the VIDEO OUT jacks when you select any audio source (TAPE/MD, FM, or AM) or TV/LINE.

Play the VIDEO 1 source and select TAPE/MD, FM, AM, or TV/LINE, then you can record the picture from the VIDEO 1 source and the sound from the selected input source at the same time, using the recording equipment connected to the VIDEO 2 jacks.

Digital recording from the source connected to the digital input connectors to the digital recording equipment connected to the digital output connector

The digital input connectors are as follows:

- · The VIDEO 1 DIGITAL INPUT (COAX) connector, and
- The VIDEO 2 DIGITAL INPUT (OPT) connector.

The digital output connector is the DIGITAL OUTPUT (OPT) connector.

Recording digital sound signals from sources connected to the digital input connectors using digital recording equipment connected to the digital output is possible unless:

- The recording is against SCMS (Serial Copy Management System) rules (for details of SCMS rules, refer to the manual of the digital recording equipment),
- The digital signals are in bitstream format (the recordable digital signal format is PCM — two channel digital stereo sound signals), or
- The sampling frequency is out of the recordable range of the recording equipment (for recordable sampling frequency, refer to the manual of the digital recording equipment). Note that the maximum signal frequency output from the DVD Receiver is 48 kHz.

■ Analog recording from a DVD Video played using the DVD Receiver

The digital sound signals are converted to analog signals and output to the analog output jacks unless the DVD video is recorded in the DTS Surround.

Although the speakers can reproduce DTS Surround sounds, DTS signals are not output to the analog output jacks.

Controlling other components connected to the DVD Receiver

The remote controller has two learning functions. One is entering the signal number for a remote controller of another brand that is pre-programmed. Another is a normal learning function that enables the remote controller to learn the codes from other remote controllers.

Caution

5

With some brand's components, some buttons may not work correctly. In this case, program the command separately.

Learning a pre-programming code

By learning a pre-programming code, you can make the RC-484M remote controller able to operate a product from another brand. The buttons that are used for operation are given on the next page.

1	Find the 3-digit number for the brand name of the component that you want to operate in the table on the next page.
2	Turn on the component that you want to operate (i.e. DVD, satellite tuner, or television).
3	While holding down the MODE button on the RC-484M that you want to program, press the +10 button, and then release both buttons.
	The SEND/LEARN indicator lights when the MODE button is pressed and turns off when the +10 button is pressed. Wait until the indicator turns off before releasing both buttons. Then the SEND/LEARN indicator lights again.
4 ¹ ² ² ³ ^{SW MODE} ¹ ⁶ ⁵ ⁴ ⁶	Within 30 seconds, enter the 3-digit code number. The SEND/LEARN indicator flashes twice slowly. If the SEND/LEARN indicator
TEST TONE CH SEL UP/DOWN	quickly flashes three times, then either a

mistaken 3-digit code was entered or an incorrect operation was performed. If this occurs, return to step 3.

Press the button that you programmed and check if the system operates correctly.

- · If the component does not operate properly, return to step 3 and repeat the steps above.
- If it still does not operate properly, then program the commands one by one to the buttons on the RC-484M remote controller.

Pre-programmong codes

Note:

If more than one code is given in the table, try the code one by one until you reach the code for your component (i.e. if the first code does not work, then try the next).

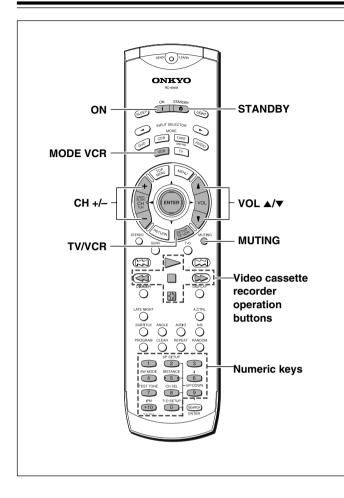
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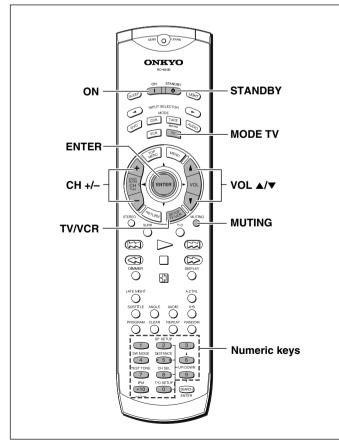
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Controlling other components connected to the DVD Receiver





Controlling VCR

VCR	Press the MODE VCR button.
- (^h m)	The VCR button lights green.
2	Press the desired operation button.
	The buttons shaded in the figure to the left are the operation buttons that can be used to control your VCR.
The buttons gi	ven below have operations programmed
into them.	
ON: T	urns on the VCR
STANDBY: T	urns off the VCR
CH +/: N	loves up and down the preset channel
n	umbers
TV/VCR: S	witches the AV input for the VCR
►: P	lay
	top
∢∢ : R	lewind
	ast Forward
	ause
0,1 to 9, +10: N	lumeric keys

You may also use the following buttons:

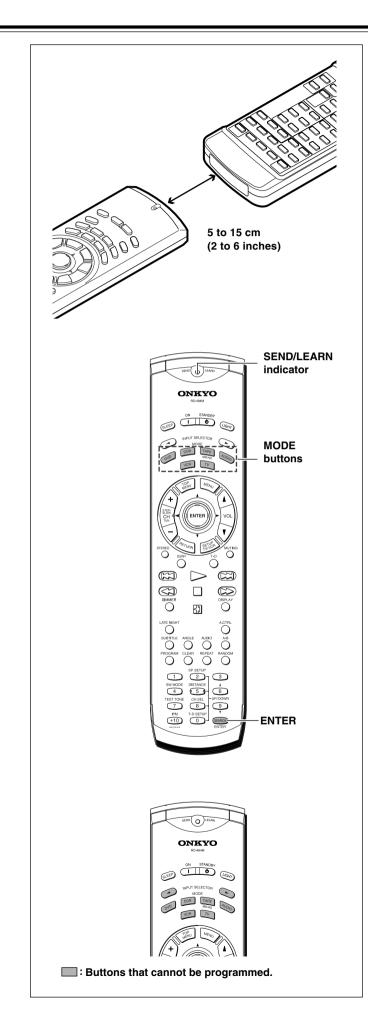
- VOL $\blacktriangle/\blacksquare$: Adjusts the volume at the DR-S2.2
- MUTING: Activates the muting function at the DR-S2.2

Controlling TV

1	Press the MODE TV button. The TV button lights green.
2	Press the desired operation button. The buttons shaded in the figure to the left are the operation buttons that can be used to control your television.

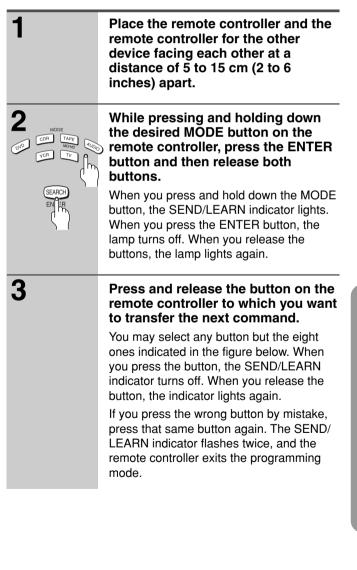
The buttons given below have operations programmed into them.

ON:	Turns on the TV
STANDBY:	Turns off the TV
CH +/:	Moves up and down the television channels
TV/VCR:	Switches the TV/VCR input for the television
0,1 to 9, +10:	Numeric keys
ENTER:	Confirm
VOL ▲/▼:	Adjusts the volume at the television
MUTING:	Activates the muting function at the television



Programming the commands of remote controllers for other devices into the remote controller

When programming the commands of another remote controller to the RC-484M remote controller, you must first decide under which MODE button you want the commands to be linked. In general, you will select the MODE button that corresponds to the component you are programming. After programming which MODE button to use, you will then transfer the separate commands from the other remote controller over to the RC-484M remote controller one at a time. Each command is then programmed to a different button on the RC-484M remote controller. Any button is programmable for this step except for the six MODE buttons (DVD, CDR, TAPE/MD/HD, AUDIO, VCR, TV). Even after the commands have been memorized, keep your old remote controller in a safe place. If for some reason the commands are lost (e.g., when the batteries run down), it will be necessary to memorize them once again.

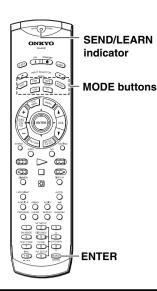


Controlling other components connected to the DVD Receiver

_		Notes:
4	Press and hold down the button (that corresponds to the command you are programming) on the remote controller of the other device until the SEND/LEARN indicator on the remote controller flashes twice. After flashing twice, the SEND/LEARN indicator will light again.	 The remote controller codes for Onkyo CD player, MD player, cassette tape deck or HD Recorder have already been programmed into buttons on the remote controller. You may, however, use these buttons to program the codes for other remote controllers. If you wish to restore the Onkyo preset codes after you program new codes, you must first erase the new codes (see page 83). The remote controller has 300 memory slots (6 modes × 50 buttons). Some remote controllers may have more commands that can be remembered by the remote controller. In such cases, it will be necessary for you to determine which commands are
5	Repeat Steps 3 and 4 to transfer all the commands you desire from the other remote controller and program them to buttons on the remote controller under the same MODE. Repeat Steps 2 through 4 to program commands to a different MODE (e.g., when programming from a different remote controller).	 more important than others. If no button is pressed for more than 30 seconds during the programming, or if you perform an invalid operation during programming, the SEND/LEARN indicator flashes three times quickly, and the remote controller exits the programming mode. Resume from Step 2. If a failure occurs during programming, the SEND/LEARN indicator flashes three times quickly, and the remote controller exits the programming mode. If a failure occurs during programming, the SEND/LEARN indicator flashes three times quickly, and the remote controller exits the programming mode. Resume from Step 3. If a failure occurs five times in row during programming, the remote controller exits the programming mode. Resume from Step 3. If you try to program beyond the learning capacity of the remote
6 COR TANE AUG VOR TO D	Press the MODE button that you pressed in step 2 to complete the programming.	 If you fly to program beyond the learning capacity of the remote controller, the SEND/LEARN indicator flashes six times quickly, and the remote controller exits the programming mode. Try programming under a different MODE button. When you want to program a command to a button to which you have already programmed a command, simply follow the same procedure given and programming for that button will be overwritten.
7	Operate the newly programmed buttons to make sure the learning function was performed properly.	 The remote controller uses infrared rays to send its commands, as do most other remote controllers. Though most remote controller codes can be memorized by the remote controller, be aware that some remote controllers use a system that is quite different from the remote controller and therefore may not be able to be programmed.

- Some remote controllers have a single button that performs multiple functions (for example, the function may change each time the button is pressed). If this is the case, each function must be programmed to a separate button on the remote controller.
- Once you have transferred the commands from the other remote controller, refer to the instruction manual that came with that product for instructions on how to operate that product.
- Make sure both the remote controller and the other remote controller have new batteries. If either of them has batteries that are low, you may not be able to program the commands of the other remote controller properly into the remote controller.

See page 83 for how to erase the memorized commands from all buttons.



Erasing the programmed command from one button

You can only erase memorized commands and not preset ones.

T COR COR VCR TO COR COR COR COR COR COR COR CO	Press and hold down the desired MODE button for the command, press the ENTER button, and then release both buttons. When you press the MODE button, the SEND/LEARN indicator lights. When you press the ENTER button, the lamp turns off. When you release the buttons, the lamp lights again.
2	Press and release the button for the command you wish to erase. When you press the button, the SEND/ LEARN indicator turns off. When you release the button, the lamp lights again.
3	Press and release the same button again. The SEND/LEARN indicator flashes twice slowly. The memorized command is erased.

Note

If no button is pressed for more than 30 seconds during the erasing procedure, the SEND/LEARN indicator flashes three times quickly, and the remote controller exits the erasing mode. Resume from Step 1.

Erasing all the commands programmed under a MODE button



Press and hold down the desired MODE button, press the ENTER button twice, and then release both buttons.

When you press the MODE button, the SEND/LEARN indicator lights. When you press the ENTER button, the lamp turns off. When you release the buttons, the lamp flashes twice slowly and then lights again.

2

Press and release the same MODE button again.

When you release the button, the SEND/ LEARN indicator flashes twice slowly. This erases all the commands memorized to the MODE button.

Notes

- If no button is pressed for more than 30 seconds during the erasing procedure, the SEND/LEARN indicator flashes three times quickly and the remote controller exits the erasing mode. Resume from Step 1.
- If you perform an invalid operation during erasing, the SEND/ LEARN indicator flashes three times quickly, and the remote controller exits the erasing mode. Resume from Step 1.
- If many commands have been programmed to the MODE button, then the SEND/LEARN indicator may remain lit for up to 20 seconds during Step 2. This is not a malfunction.

Troubleshooting

Check the following guide for the possible cause of a problem before contacting service. Refer also to the respective instruction manuals of the connected components and TV.

$\overline{\ }$	Symptoms	Causes	Remedies	Pages
	The DVD Receiver doesn't switch on.	 The power cord (mains lead) is disconnected. The main power is set to OFF. There is external noise interfering with the computer circuits of the DVD Receiver. The AC fuse is blown. 	 Check the connection of the power cord (mains lead). Turn on the main power. Switch off the main power, then switch it on again. If not recovered, disconnect the power cord (mains lead), then connect it again. Contact your nearest Onkyo service center. 	26 26 26
	No sound is reproduced.	 The muting function is activated. The DVD Receiver is not properly connected. The amplifier protection circuitry has activated. (The STANDBY indicator flashes.) Headphones are connected. 	 Deactivate the muting function. Check the connections to the DVD Receiver. Contact your nearest Onkyo service center. Decrease the volume, then disconnect the 	42 16-25 43
Amplifier	No sound or very little sound is reproduced from the center speaker.	 The speakers are not properly connected. The listening mode is set to "Stereo" or "Orchestra." The volume level of the center speaker ("Center") is set to minimum. A speaker configuration without the center speaker is selected. 	 headphones. Check the speaker connections. No sound is reproduced from the center speaker when the listening mode is "Stereo" or "Orchestra." Adjust the volume level of the center speaker. Check that the selected speaker configuration includes the center speaker. 	18, 19 44, 48 33 29, 30
	No picture appears on the TV screen.	 The TV is not set to receive the output signals from the DVD Receiver. The video connection cable is not connected securely. Only the S video connection is made. 	 Set the TV to the DVD Receiver's input. Refer to the instruction manual of TV. Check the connections between the DVD Receiver and TV set. Also make video connection. 	— 16, 17 16, 17
	The sound of the playback source is not heard.	Another input source is selected.	Select the appropriate input source.	40
	The buttons on the remote controller and DVD Receiver do not operate.	 Power supply fluctuations or other abnormalities such as static electricity may interrupt correct operation. 	• Switch off the main power, then switch it on again. If not recovered, disconnect the power cord (mains lead), then connect it again.	26
	The disc tray comes back out automatically, shortly after the disc tray is closed.	 The disc is not placed properly on the disc tray. The disc is dirty or warped. Region number does not conform with this unit. 	 Use the disc tray guide to align the disc. Refer to "Notes on Discs". If the region number on the disc does not match the number on the player, the disc cannot be used 	34 8, 9 4
Audio CD)	The DVD Receiver does not start playback.	 No disc is inserted. An unplayable disc is inserted. The disc is placed upside down. The disc is not placed within the disc tray guide. The disc is dirty. 	 Insert a disc. (Check that "DVD," "VCD," or "CD" is lit in the DVD Receiver's display.) Check the playable discs. Place the disc with the playback side down. Place the disc within the proper guide on the disc tray. Eject the disc and clean it. 	34 8 34 34 9
DVD (VIDEO CD/Audio CD)	The playback picture is occasionally distorted.	 The parental lock function is activated. The disc is dirty. It is in fast forward or fast reverse playback. 	 Deactivate the parental lock function or change the parental lock level. Eject the disc and clean it. Sometimes a small amount of picture distortion may appear. This is not a malfunction. 	9
DV	Brightness is unstable or noise is visible on the playback picture.	Copy protection is activated.	 Connect the DVD Receiver directly to the TV. Avoid connecting the DVD Receiver to the TV through a VCR. 	16, 17
	The picture from the DVD Receiver doesn't appear on the TV screen.	 The TV is not set to receive the output signals from the DVD Receiver. The DVD Receiver is not properly connected. 	 Set the TV to the DVD Receiver's input. Check the connections to the DVD Receiver. 	— 16, 17
	Settings are canceled.	 When the power is turned off by power failure or by unplugging the power cord, settings will be canceled. 	 Before unplugging the power cord, press STANDBY/ON and check that "OFF" disappears in the display. 	_

	Symptoms	Causes	Remedies	Pages
	Playback doesn't follow the course of the disc's programs.	The DVD Receiver is in repeat playback mode, memory playback mode, or random playback mode, etc.	Resume normal playback.	54-59
	The buttons on the remote controller and DVD Receiver do not operate.	 Power supply fluctuations or other abnormalities such as static electricity may interrupt correct operation. 	• Switch off the main power, then switch it on again. If not recovered, disconnect the mains lead, then connect it again.	26
	Smark appears on screen.	 The selected function does not operate for that disc. 	-	34
	Mark appears on screen.	The operation is prohibited by the player.	-	34
	When making changes in the Setup screen menus, is displayed.	 There is a Video CD, CD or MP3 loaded in the player and the setting that was changed only applies to DVD performance. 	The setting will be effective the next time a DVD is loaded.	65
	Some settings in the Setup Menu do not appear.	The [Setup Menu Mode] is set to [Basic].	Set the [Setup Menu Mode] to [Expert].	65
dio CD)	No sound is reproduced.	 The pause mode is engaged. The volume level of TV or amplifier is set to minimum. 	 Press ► or II to exit the pause mode. Increase the volume level. 	34 42
DVD (VIDEO CD/Audio CD)	The screen is stretched or aspect does not change.	ched or • The multi aspect setting is not	 Change the aspect setting in the [TV Screen] setting in the Setup screen Video 1 menu to the screen type most appropriate to the TV or monitor you are using. If you connected your TV with an S-Video cord, in rare cases the TV picture may appear stretched. In this case switch the output from [S2] to [S1] 	66 67
	The disc containing the MP3 tracks won't play.	 The disc is not ISO 9660 compatible. Files are not MPEG1 Audio Layer 3 format, 44.1 or 48 kHz, fixed bit-rate. 	Check the disc.Check the file format.	8 8
	Some MP3 tracks appear to be missing from a disc.	 The track name does not end in ".mp3" or ".MP3". More than 251 folders and tracks are recorded on a disc. 	 This system will not recognize file that does not end in ".mp3" or ".MP3" as an MP3 track. Change the track name. This DVD Receiver only recognizes the first 250 folders and tracks on a disc. If there are more folders/tracks than this, 	8
		A multi-session disc is inserted.	 you will not be able to play them. This DVD Receiver is not compatible with multi-session discs. If the disc is multi- session, you will only be able to play tracks recorded onto the first session. 	8
		The disc contains variable bit-rate MP3 file.	• Be sure to make MP3 CD with fixed bit- rate setting.	8

Troubleshooting

\ \	-			_
\backslash	Symptoms	Causes	Remedies	Pages
	Too much noise is heard or sound is interrupted occasionally. (The FM ST indicator does not light steadily.)	 FM stereo waves may produce a hiss noise when a certain level is reached. The position or direction of the FM antenna (aerial) is incorrect. The station is too weak. 	 Switch the frequency receiving mode to mono. Adjust the position, height, and direction of the FM antenna (aerial). Connect an FM outdoor antenna (aerial). Try to use an antenna (aerial) with more elements. (For installation of the outdoor antenna (aerial), consult your nearest dealer as it requires special skills and experience.) 	38 24, 25 24, 25
Tuner	Sound is distorted or sound volume decreases.	 The radio wave is distorted. Cars are running or airplanes are flying near the house. 	_ _	_
	Sound is excessively distorted.	 There is a tall building or a mountain nearby. (The waves transmitted from the transmission center (direct waves) and the waved reflected by buildings or mountains (diffraction waves) interfere with each other causing multi pass distortion.) 	_	_
	No preset channels are selected.	• The power cord (mains lead) is unplugged, or the main power is switched off, for a long time.	The preset data in memory is lost. Preset the radio stations again.	38
Recording	Sound is reproduced from the speakers but not recorded.	 The sound system you are trying to record is DTS Surround. 	 DTS Surround sound is unable to be recorded. 	_
Remote controller	The buttons on the DVD Receiver operate but the buttons on the remote controller do not operate.	 No batteries are inserted in the remote controller. The batteries are worn out. The remote controller is not pointed at the remote sensor of the DVD Receiver. The remote controller is too far from the DVD Receiver. Any wrong MODE button is pressed. 	 Insert new batteries. Replace with new batteries. Point the remote controller at the remote sensor of the DVD Receiver. Operate the remote controller within 5 m (16 feet). Press the appropriate MODE button. 	15 15 15 15 15

This unit contains a sensitive microcomputer, which under certain circumstances might fail to operate due to excessive noise interference. If this happens, press the DVD Receiver's SPEAKER A/B button (or SPEAKER SETUP button for other than North American and South American model) and STANDBY/ON button at the same time until "Clear" appears in the DVD Receiver's display. The DVD Receiver turns into the standby mode, then all the custom settings for the receiver section of the DVD Receiver will be erased. Please repeat the custom settings from the beginning.

Specifications

AMPLIFIER SECTION							
Power Output (FTC)	All channe	ale 40 v	watte nor c	channel min.			/LINE, TAPE/MD/HD)
			•	nnel driven,		LO 2/ODR/PO, IV	200 mV/50 kohms
	1,000 Hz w				Composite (VIDEO 1,		
	harmonic (11 5 % total	S-VIDEO (VIDEO 1,		
Continuous power output		นเอเปท					C: 0.28 Vp-p, 75 ohms
	All channel	s 30 w	atts nor ob	annel min	Output Level and Impe	dance	5. 0.20 vp-p, 75 011115
	RMS. into 6				DIGITAL OUTPUT (C		–21 to –15 dBm
	1,000 Hz		s two orialli	iei unven,	REC OUT (TAPE/MD/HE		
Continuous Power output					PRE OUT (SUBWO		1 V, 470 ohms
Sommuous Fower output	All channel	45	atte nor cho	nnel min	Composite (MON OL		1 Vp-p, 75 ohms
	RMS. into 6				S-VIDEO (MON OUT		Y: 1 Vp-p, 75 ohms
		o onna	s two chan	lei unven,	3-VIDEO (MON OU	I, VIDLO I)	C: 0.28 Vp-p, 75 ohms
Dynamic Power	1,000 Hz 6 ohms: 42	M / /	R)		COMPONENT VIDE		Y: 1.0 Vp-p, 75 ohms
Dynamic Power	8 ohms: 35		,		(Except European m		PB/PR: 0.7 Vp-p, 75 ohms
Total Harmonic Distortior			,		RGB (European mo	,	0.7 Vp-p, 75 ohms
Total Harmonic Distortion	0.2 % at 1 v				Frequency Response	20 to 30.000 H	
IM Distortion	0.2 % at 1 \ 5 % at rate				Acoustic Control	1: +9 dB at 12	
	0.2 % at 1 v					2: +9 dB at 12	
Damping Factor	40 at 8 ohm		ուրս			+6 dB at 12	
Damping Factor		115			Signal-to-noise Ratio		
• • • •			21 to 15 4	Rm	•	100 dB (0.5 V l	INFUT LINE)
VIDEO 1 DIGITAL INPL			21 to -15 d		Muting	–50 dB	
VIDEO 2 DIGITAL INPL		0.	.5 Vp-p, 75				
DVD SECTION							
Signal readout system	Optical non	n-conta	act		Laser	Semiconductor	r laser, wavelength 650 nm
Linear velocity	3.49 m/s (S				Frequency response	10 Hz to 44 kH	
	3.84 m/s (D				Signal-to-noise ratio (d		More than 100 dB
Error correction system	Reed Solor			е	Audio dynamic range (• ,	More than 93 dB
Signal system	North Amer				Harmonic distortion (di		Less than 0.025%
- <u>j</u>	Other mode			-	Wow and flutter		d of measurability
Regional restriction code					Operating conditions		5°C to 35°C (41°F to 95°F),
	European a				ganiono	Operation statu	
	South-east					C por allon oldit	
	Australian a			an area 4			
	PRC: 6						
	1110:0						
TUNER SECTION	1110.0						
TUNER SECTION Tuning Range	1110.0	FM:	87.50 to 10	08.00 MHz (50 I	Hz steps)		
	111010				• •	ner models)	
	111010	AM:	(North Ame		h American models) (Oth	ner models) to 1611 kHz (9 kH	Iz steps)
		AM:	(North Ame 530 to 171	erican and Sout 0 kHz (10 kHz s	h American models) (Oth	,	łz steps)
Tuning Range		AM:	(North Ame 530 to 171	erican and Sout 0 kHz (10 kHz s 11.2 dBf, 1.0 j	h American models) (Oth steps) 522	,	łz steps)
Tuning Range		AM: FM:	(North Ame 530 to 171	erican and Sout 0 kHz (10 kHz (11.2 dBf, 1.0 ا 0.9 ا	h American models) (Oth steps) 522 IV (75 ohms IHF) IV (75 ohms DIN)	,	łz steps)
Tuning Range		AM: FM:	(North Ame 530 to 171 Mono	erican and Sout 0 kHz (10 kHz s 11.2 dBf, 1.0 µ 0.9 µ 17.2 dBf, 2.0 µ	h American models) (Oth steps) 522 IV (75 ohms IHF)	,	Iz steps)
Tuning Range		AM: FM:	(North Ame 530 to 171 Mono	erican and Sout 0 kHz (10 kHz s 11.2 dBf, 1.0 µ 0.9 µ 17.2 dBf, 2.0 µ	h American models) (Oth steps) 522 IV (75 ohms IHF) IV (75 ohms DIN) IV (75 ohms IHF)	,	Iz steps)
Tuning Range		AM: FM: AM:	(North Ame 530 to 171 Mono Stereo	erican and Sout 0 kHz (10 kHz s 11.2 dBf, 1.0 µ 0.9 µ 17.2 dBf, 2.0 µ	h American models) (Oth steps) 522 IV (75 ohms IHF) IV (75 ohms DIN) IV (75 ohms IHF) V (75 ohms DIN)	,	Iz steps)
Tuning Range Usable Sensitivity		AM: FM: AM: FM:	(North Ame 530 to 171 Mono Stereo 30 μV	erican and Sout 0 kHz (10 kHz s 11.2 dBf, 1.0 µ 0.9 µ 17.2 dBf, 2.0 µ 23 µ	h American models) (Oth steps) 522 IV (75 ohms IHF) IV (75 ohms DIN) IV (75 ohms IHF) V (75 ohms DIN) IV (75 ohms DIN)	,	łz steps)
Tuning Range Usable Sensitivity		AM: FM: AM: FM:	(North Ame 530 to 171 Mono Stereo 30 μV Mono	erican and Sout 0 kHz (10 kHz s 11.2 dBf, 1.0 y 0.9 y 17.2 dBf, 2.0 y 23 µ 17.2 dBf, 2.0 y	h American models) (Oth steps) 522 IV (75 ohms IHF) IV (75 ohms DIN) IV (75 ohms IHF) V (75 ohms DIN) IV (75 ohms DIN)	,	łz steps)
Tuning Range Usable Sensitivity 50 dB Quieting Sensitivity		AM: FM: AM: FM: FM:	(North Ame 530 to 171 Mono Stereo 30 μV Mono Stereo 2.0 dB	erican and Sout 0 kHz (10 kHz s 11.2 dBf, 1.0 p 0.9 p 17.2 dBf, 2.0 p 23 µ 17.2 dBf, 2.0 p 37.2 dBf, 2.0 p	h American models) (Oth steps) 522 IV (75 ohms IHF) IV (75 ohms DIN) IV (75 ohms IHF) V (75 ohms DIN) IV (75 ohms) μV (75 ohms)	,	łz steps)
Tuning Range Usable Sensitivity 50 dB Quieting Sensitivity Capture Ratio		AM: FM: AM: FM: FM: FM:	(North Ame 530 to 171 Mono Stereo 30 μV Mono Stereo 2.0 dB	erican and Sout 0 kHz (10 kHz s 11.2 dBf, 1.0 p 0.9 p 17.2 dBf, 2.0 p 23 µ 17.2 dBf, 2.0 p 37.2 dBf, 2.0 p	h American models) (Oth steps) 522 IV (75 ohms IHF) IV (75 ohms DIN) IV (75 ohms IHF) V (75 ohms DIN) IV (75 ohms) μV (75 ohms)	to 1611 kHz (9 kH	łz steps)
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Specifications and features are subject to change without notice.

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Printed in Japan

W0202-1



5.1 Ch Home Theater Speaker Package HTP-240

6.1 Ch Home Theater Speaker Package SKS-HT240

Instruction Manual

Thank you for purchasing an Onkyo home theater speaker package. Please read this manual thoroughly before using your new speakers. Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your speaker package.

Please retain this manual for future reference.

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En

WARNING:

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

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.

MARNING RISK OF ELECTRIC SHOCK DD NOT OPEN RISQUE DE CHOC ELECTRIQUE

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.

Important Safeguards

- Read Instructions All the safety and operating instructions should be read before the appliance is operated.
- 2. **Retain Instructions** The safety and operating instructions should be retained for future reference.
- 3. **Heed Warnings** All warnings on the appliance and in the operating instructions should be adhered to.
- 4. Follow Instructions All operating and use instructions should be followed.
- Cleaning Unplug the appliance from the wall outlet before cleaning. The appliance should be cleaned only as recommended by the manufacturer.
- Attachments Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.
- Water and Moisture Do not use the appliance near water –for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
- 8. Accessories Do not place the 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.
- 9. 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.



10. 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 openings should never be blocked by placing the appliance on a bed, sofa, rug, or other similar surface. The appliance should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided. There should be free space of at least 20 cm (8 in.) and an opening behind the appliance.

- 11. **Power Sources** The appliance should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.
- 12. Grounding or Polarization The 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.
- 13. 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, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- 14. Lightning For added protection for the 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.
- 15. **Overloading** Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- 16. Object and Liquid Entry Never push objects of any kind into the appliance through openings as they may touch dangerous voltage points or shortout parts that could result in a fire or electric shock. Never spill liquid of any kind on the appliance.
- Servicing Do not attempt to service the appliance yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

Important Safeguards—Continued

- Damage Requiring Service Unplug the appliance form the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power-supply cord or plug is damaged,
 - B. If liquid has been spilled, or objects have fallen into the appliance,
 - C. If the appliance has been exposed to rain or water,
 - D. If the appliance does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions 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. If the appliance has been dropped or damaged in any way, and
 - F. When the appliance exhibits a distinct change in performance this indicates a need for service.
- 19. 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 part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- 20. **Safety Check** Upon completion of any service or repairs to the appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operation condition.
- 21. Wall or Ceiling Mounting The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 22. **Heat** The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- 23. Liquid Hazards The appliance should not be exposed to dripping or splashing and no objects filled with liquids, such as vases should be placed on the appliance.

Precautions

1. Mounting

Mount the speakers as explained in this manual. Don't use the front or surround speakers without their bases or optional stands as damage or injury may result.

2. AC Fuse

The fuse is located inside the chassis and is not userserviceable. If power does not come on, contact your Onkyo authorized service station.

3. Care

From time to time you should wipe off the front and rear panels and the cabinet with a soft cloth. For heavier dirt, dampen a soft cloth in a weak solution of mild detergent and water, wring it out dry, and wipe off the dirt. Following this, dry immediately with a clean cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since these may damage the finish or remove the panel lettering.

Use a vacuum cleaner to remove dust from hard-to-reach grilles.

4. Power

WARNING

BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., AC 120 V, 60 Hz) written on the rear panel.

For Canadian models

For models having a power cord with a polarized plug: **CAUTION:** TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

Modèle pour les Canadien

Sur les modèles dont la fiche est polarisee:

ATTENTION: POUR ÉVITER LES CHOCS ÉLEC-TRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRE-SPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

Introduction

The HTP-240's and SKS-HT240's stylish enclosures are made of aluminum and their slim design makes them ideal for use with LCD and plasma TVs.

HTP-240

The HTP-240 is a 5.1-channel speaker package consisting of front left and right speakers, a center speaker, surround left and right speakers, and a powered subwoofer. It has been optimized for use with the Onkyo DR-S2.2 DVD Receiver, with which it will deliver superb surround sound playback.

Speaker terminals and speaker cables are color-coded for easy identification. Simply connect each speaker cable to the same-colored speaker terminals.

SKS-HT240

The SKS-HT240 is a 6.1-channel speaker package consisting of front left and right speakers, a center speaker, surround left and right speakers, a surround back speaker, and a powered subwoofer. Simply connect the speakers to your AV amp or receiver for superb surround sound playback.

Speaker terminals and speaker cables are color-coded for easy identification. Simply connect each speaker cable to the same-colored speaker terminals.

Package Contents

Make sure your box contains all of the items below. If anything is missing, contact the nearest Onkyo dealer.

· Speaker cable for front speakers

· Speaker cable for center speaker

(Green)

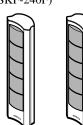
15 ft. (4.5 m)

(Red)

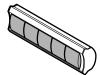
· Front speaker bases

10 ft. (3 m)

· Front speakers (SKF-240F)

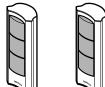


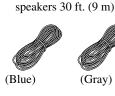
· Center speaker (SKC-240C)



· Surround speakers (SKM-240S)

4





· Speaker cables for surround



(White)



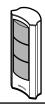
Г

• RCA cable for subwoofer connection



Items Supplied with SKS-HT240 Only

Surround back speaker (SKB-240)



· Speaker cable for surround back speaker 30 ft. (9 m)



(Brown)

· Spacers for wall mounting $[\times 24]$

(HTP-240 only) • Front speaker base fixing screws [×8]

(HTP-240 only) · Setup sheet

• Spacers for wall mounting [×20]

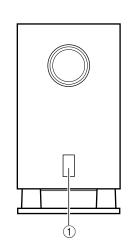
· Center speaker base



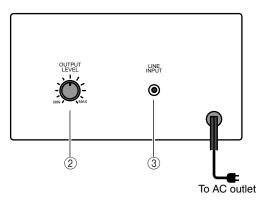
Getting to know Your Speaker Package

Subwoofer (SKW-240)

Front



Rear



(1) STANDBY/ON indicator

Red: Subwoofer in standby mode Green: Subwoofer on

With the Auto Standby function, the SKW-240 automatically turns on when an input signal is detected in Standby mode. When there's no input signal for about 20 minutes, the SKW-240 automatically enters Standby mode.

2 OUTPUT LEVEL control

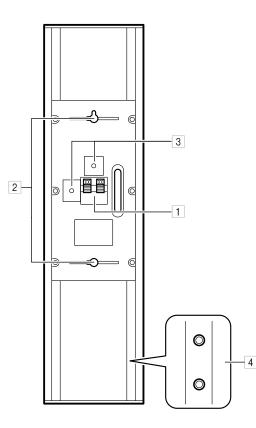
This control is used to adjust the volume of the subwoofer.

③ LINE INPUT

This RCA input should be connected to the subwoofer preout on your DR-S2.2 DVD Receiver, amp, or other receiver with supplied RCA cable.

Note:

The Auto Standby function turns the subwoofer on when the input signal exceeds a certain level. If the Auto Standby function does not work reliably, try slightly increasing or decreasing the subwoofer output level on your receiver or amp. Front, Center & Surround Speakers (SKF-240F, SKC-240C, SKM-240S, SKB-240)



1 Speaker terminals

These push terminals are for connecting the speaker to your DR-S2.2 DVD Receiver, amp, or other receiver with the supplied speaker cables. The supplied speaker cables are color-coded for easy identification. Simply connect each cable to the samecolored positive speaker terminal.

2 Keyhole slots

These keyhole slots can be used to wall-mount the speaker either horizontally or vertically.

3 Speaker mount/bracket inserts

These threaded inserts can be used to attach the speaker either horizontally or vertically to a speaker mount or bracket.

Note:

Use commercially available 1/4-inch machine screws to attach the speaker to a speaker mount or bracket.

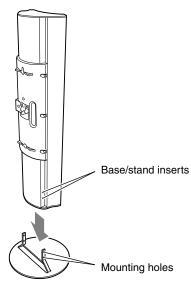
Base/stand inserts (other than center speaker)

These threaded inserts can be used to mount the speaker on the supplied base (screws included) or an optional Onkyo speaker stand (AS-240).

Various Mounting Methods

Front Speaker Bases

If you intend to stand the front speakers on the floor or on a TV stand or AV stand, you should attach the supplied front speaker bases. To do this, align the mounting holes in the base with base/stand inserts on the front speaker's rear panel, and secure by using four of the supplied fixing screws.

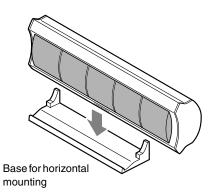


Center Speaker Base

The center speaker base is for mounting the center speaker horizontally. If you put it on a TV stand or AV stand, aim it toward the listening position. The center speaker should sit securely on the base. If it's loose, try resetting it.

Note:

• If you put the center speaker on the floor, take it off the base and position it so that it's facing slightly up toward the listener's ears.



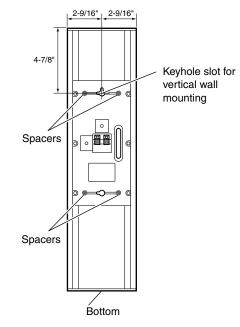
Wall Mounting

The front speakers, center speaker, surround speakers, and surround back speaker (SKS-HT240 only) can easily be wall mounted by using the keyhole slots. To prevent the speaker from vibrating against the wall, attach four of the supplied spacers to the keyhole fins on the rear of each speaker.

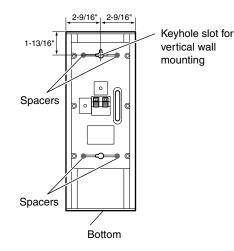
Mounting vertically

To mount the front speakers, surround speakers, or surround back speaker (SKS-HT240 only) vertically, use the keyhole slot shown to hang each speaker on a screw that's securely screwed into the wall.

Front speaker



Surround/Surround Back speaker



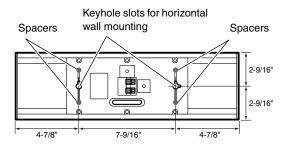
6



Mounting horizontally

To mount the center speaker horizontally, use the two keyhole slots shown to hang each speaker on two screws that are securely screwed into the wall.

Center speaker



Caution:

A mounting screw's ability to support a speaker depends on how well it's anchored to the wall. If you have hollow walls, screw each mounting screw into a stud. If there are no studs, or the walls are solid, use suitable wall anchors. Use screws with a head diameter of 3/8 inch or less and a shank diameter of 1/8 inch (or 4 mm) or less (No. 8 or smaller). With hollow walls, use a cable/pipe detector to check for any power cables or water pipes before making any holes.

(We recommend that you consult a home installation professional.)

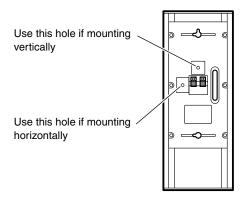
Using the Optional Speaker Stands

Optional Onkyo speaker stands (AS-240) are available for the front left and right and surround left and right speakers. To attach a speaker to a stand, align the mounting holes in the stand with those on the speaker's rear panel, and secure by using four of the supplied fixing screws.



Using Speaker Mounts/Brackets

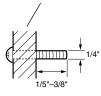
Threaded inserts for 1/4-inch machine screws are provided on the rear of each speaker for wall-mounting with commercially available speaker mounts and brackets. Refer to the manual supplied with your mounts or brackets for installation details.



Note:

The portion of the screw that goes into the speaker's threaded insert should be between 1/5 and 3/8 of an inch long.





Connecting the Speakers

Read the following before connecting your speakers:

- Turn off your amp before making any connections.
- The nominal impedance of these speakers is 8 Ω. Use only an amp that supports this impedance.
- Pay close attention to speaker wiring polarity. Connect positive (+) terminals to only positive (+) terminals, and negative (-) terminals to only negative (-) terminals. If the speakers are wired incorrectly, the sound will be out of phase and will sound unnatural.
- Be careful not to short the positive and negative wires. Doing so may damage your amp.



Connecting the Speaker Cables

1 Use the cables to connect each speaker's input terminals to the corresponding speaker output terminals on your amp.

To make a connection, while pressing the terminal lever, insert the wire into the hole, and then release the lever.



Make sure that the terminals are gripping the bare wires, not the insulation.

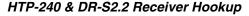
Tip:

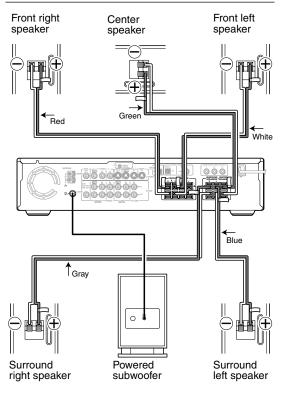
• You can make cable identification easier by attaching the color-coded speaker labels supplied with the Onkyo DR-S2.2 DVD Receiver or other Onkyo amp or receiver to the positive (+) side of each speaker cable, in accordance with the following table.

Speaker terminal (+)	Color
Front left	White
Front right	Red
Center	Green
Surround left	Blue
Surround right	Gray
Surround back (SKS-HT240 only)	Brown

Connecting the Subwoofer

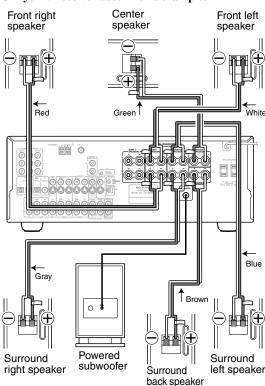
1 Using the supplied RCA cable, connect the subwoofer's LINE INPUT to your amp's SUBWOOFER PREOUT.





SKS-HT240 & 6-channel AV Amp Hookup

Onkyo AV receiver used in this example.



About Home Theater

Enjoying Home Theater

The HTP-240/SKS-HT240's great sound means that you can enjoy surround sound with a real sense of movement in your own home—just like being in a movie theater or concert hall.

Center speaker

This speaker enhances the front left and right speakers, making sound movements distinct and providing a full sound image. In movies it's used mainly for dialog.

Position it close to your TV facing forward at about ear level, or at the same height as the front left and right speakers.

Front left and right speakers

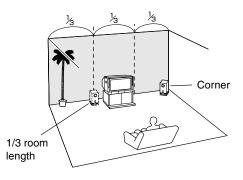
These output the overall sound. Their role in a home theater is to provide a solid anchor for the sound image. They should be positioned facing the listener at about ear level, and equidistant from the TV. Angle them inward so as to create a triangle, with the listener at the apex.

Right

Subwoofer

The subwoofer handles the bass sounds of the LFE (Low-Frequency Effects) channel. The volume and quality of the bass output from your subwoofer will depend on its position, the shape of your listening room, and your listening position. In general, a good bass sound can be obtained by installing the subwoofer in a front corner, or at one-third the width of the wall, as shown.

Left



Surround left and right speakers

These speakers are used for precise sound positioning and to add realistic ambience. Position them at the sides of the listener, or slightly behind, about 2–3 feet (60–100 cm) above ear level. Ideally they should be equidistant from the listener.

Surround back speaker (SKS-HT240 only)

This speaker further enhances the realism of surround sound and improves sound localization behind the listener. The surround-back speaker should be installed behind the listener also at 2-3 ft. (60–100 cm) above ear level. Make sure that the listening position is within the range of the speaker.

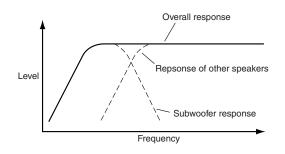
Adjustment

Setting the Subwoofer Level

To set the level of the subwoofer, use the OUTPUT LEVEL control. Set it so that bass sounds are evenly balanced with the treble sounds from the other speakers. Because our ears are less sensitive to very low bass sounds, there's a temptation to set the level of the subwoofer too high. As a rule of thumb, set the subwoofer level to what you think is the optimal level, and then back it off slightly.

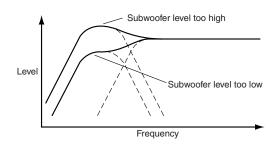


Subwoofer Level Set OK



Subwoofer Level Set Incorrectly

10



Caring for Your Speakers

Placement

- The speaker cabinets are made out of aluminum and are therefore sensitive to extreme temperatures and humidity, do not put them in locations subject to direct sunlight or in humid places, such as near an air conditioner, humidifier, bathroom, or kitchen.
- Do not put water or other liquids close to the speakers. If liquid is spilled over the speakers, the drive units may be damaged.
- As explained in this manual, mount the speakers on a wall, on the supplied bases, or on the optional stands, otherwise, they may fall, causing personal injury or damage to the speakers.
- Speakers with bases should only be placed on sturdy, flat surfaces that are free from vibration. Putting them on uneven or unstable surfaces, where they may fall and cause damage, will affect the sound quality.

Using Close to a TV or Computer

TVs and computer monitors are magnetically sensitive devices and as such are likely to suffer discoloration or picture distortion when conventional speakers are placed nearby. To prevent this, the HTP-240/SKS-HT240 speakers feature internal magnetic shielding. In some situations, however, discoloration may still be an issue, in which case you should turn off your TV or monitor, wait 15 to 30 minutes, and then turn it back on again. This normally activates the degaussing function, which neutralizes the magnetic field, thereby removing any discoloration effects. If discoloration problems persist, try moving the speakers away from your TV or monitor. Note that discoloration can also be caused by a magnet or demagnetizing tool that's too close to your TV or monitor. The HTP-240/SKS-HT240 speakers contain strong magnets, so do not put magnetic or iron objects such as screwdrivers close to them. If you do, the object may be attracted to the magnets, causing personal injury or damage to a speaker cone.

Operating Precautions

The HTP-240/SKS-HT240 speakers can handle the specified input power when used for normal music reproduction. If any of the following signals are fed to them, even if the input power is within the specified rating, excessive current may flow in the speaker coils, causing burning or wire breakage:

- 1. Interstation noise from an untuned FM radio.
- 2. Sound from fast-forwarding a cassette tape.
- **3.** High-pitched sounds generated by an oscillator, electronic musical instrument, and so on.
- 4. Amplifier oscillation.
- 5. Special test tones from audio test CDs and so on.
- **6.** Thumps and clicks caused by connecting or disconnecting audio cables (Always turn off your amplifier before connecting or disconnecting cables.)
- 7. Microphone feedback.

Troubleshooting

Symptom	Possible cause	Remedy
There's no sound coming from certain speakers?	The speaker cables are not connected properly.	Check the speaker cables and correct as necessary.
	HTP-240: The number of speaker channels is	Set the number of speaker channels to 5ch.
	not set to 5ch on the DR-S2.2.	
	SKS-HT240: On the amp or receiver, the Speaker Configuration settings for those speakers are set to either None or No. Or, the number of speaker channels is not set to 6ch.	Check the Speaker Configuration settings and make sure that the speakers are set to something other than None or No. Or set the number of speaker channels to 6ch.
The subwoofer does not turn on?	The power plug is not fully inserted into the wall outlet.	Insert the power plug fully into the wall outlet.
The subwoofer produces no sound?	The OUTPUT LEVEL control is set to mini- mum.	Turn up the OUTPUT LEVEL control.
	The RCA cable is not properly connected to the subwoofer's LINE INPUT.	Make sure that the RCA cable is properly con- nected to the subwoofer's LINE INPUT.
	The level of the input signal was too low and the subwoofer entered Standby mode.	Slightly increase the subwoofer preout output level on your amp.
	HTP-240: On the DR-S2.2 Receiver, the sub-woofer mode is set to SW Off.	Set the subwoofer mode to something other than SW Off.
	SKS-HT240: On your amp or receiver, the speaker setting is set to Subwoofer No, or the subwoofer mode is set to Subwoofer Off.	Check the settings on your amp or receiver.
The subwoofer produces hardly any sound?	The source material contain little or no bass content.	Choose source material with more bass content.
A humming sound can be	The RCA cable is not properly connected to the subwoofer's LINE INPUT.	Make sure that the RCA cable is properly con- nected to the subwoofer's LINE INPUT.
heard from the sub- woofer?	External interference from a TV or other elec- tronic device is being picked up.	Move the subwoofer and RCA cable away from the interference source. Make sure your audio system is grounded properly.



•

Specifications

Powered Subwoofer (SKW-240)

Bass reflex with built-in
power amplifier
220 mV / 15 kΩ
150 W Dynamic
27 Hz–150 Hz
70 dB
38.5 L
10-13/16"×20-3/8"×16-3/16"
(275 $ imes$ 518 $ imes$ 411 mm)
30.9 lbs. (14 kg)
8" cone woofer
AC 120 V, 60 Hz
75 W
Auto Standby function

Center Speaker (SKC-240C)		
Туре:	2-way bass reflex center	
	speaker	
Impedance:	8 Ω	
Maximum input power:	100 W	
Output sound pressure level	: 82 dB/W/m	
Frequency response:	65 Hz–35 kHz	
Crossover frequency:	5 kHz	
Cabinet capacity:	2.6 L	
Dimensions (W \times H \times D):	17-5/16"×5-1/8"×3-9/16"	
	(439 $ imes$ 130 $ imes$ 91 mm)	
Weight:	5.1 lbs. (2.45 kg)	
Speaker:	3-1/8" cone woofer $ imes$ 2	
	1" balanced-dome	
	tweeter	
Other:	Magnetic shielding	

Front Speaker (SKF-240F)

Туре:	2-way bass reflex front
	speaker
Impedance:	8 Ω
Maximum input power:	100 W
Output sound pressure level:	82 dB/W/m
Frequency response:	55 Hz–35 kHz
Crossover frequency:	5 kHz
Cabinet capacity:	3 L
Dimensions (W \times H \times D):	5-1/8"×19-11/16"×3-9/16
	$(130 \times 500 \times 91 \text{ mm})$
Weight:	5.5 lbs. (2.5 kg)
Drive unit:	3-1/8" cone woofer \times 2
	1" balanced-dome
	tweeter
Other:	Magnetic shielding

Surround Speaker (SKM-240S/SKB-240)

Туре:	2-way bass reflex
	surround/surround back
	speaker
Impedance:	8 Ω
Maximum input power:	100 W
Output sound pressure level:	80 dB/W/m
Frequency response:	65 Hz–35 kHz
Crossover frequency:	6.5 kHz
Cabinet capacity:	2 L
Dimensions (W \times H \times D):	5-1/8"×13-3/8"×3-9/16"
	(130 imes 340 imes 91 mm)
Weight:	3.5 lbs. (1.6 kg)
Speaker:	3-1/8" cone woofer
	1" balanced-dome
	tweeter
Other:	Magnetic shielding

Specifications and appearance are subject to change without prior notice.

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