

ONKYO®

7.1ch Home Theater System

HT-S7300

AV Receiver (HT-R680)
Speaker Package (HTP-780)
Universal Port Option Dock for iPod®
(UP-A1)

HT-S6300

AV Receiver (HT-R680)
Speaker Package (HTP-680)
Universal Port Option Dock for iPod®
(UP-A1)

Instruction Manual

Thank you for purchasing an Onkyo 7.1ch Home Theater System. Please read this manual thoroughly before making connections and plugging in the unit. Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new 7.1ch Home Theater System. Please retain this manual for future reference.

Contents

Introduction2

Connections..... 14

Turning On & Basic Operations24

Advanced Operations38

Controlling iPod & Other
Components.....56

Others.....64



WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS 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.



WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN

AVIS
RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR




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 Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.


PORTABLE CART WARNING
S3125A
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Damage Requiring Service
Unplug the apparatus from 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 apparatus,
 - C. If the apparatus has been exposed to rain or water,
 - D. If the apparatus 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 apparatus to its normal operation,
 - E. If the apparatus has been dropped or damaged in any way, and
 - F. When the apparatus exhibits a distinct change in performance this indicates a need for service.
16. Object and Liquid Entry
Never push objects of any kind into the apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.
The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus.
Don't put candles or other burning objects on top of this unit.
17. Batteries
Always consider the environmental issues and follow local regulations when disposing of batteries.
18. If you install the apparatus in a built-in installation, such as a bookcase or rack, ensure that there is adequate ventilation.
Leave 20 cm (8") of free space at the top and sides and 10 cm (4") at the rear. The rear edge of the shelf or board above the apparatus shall be set 10 cm (4") away from the rear panel or wall, creating a flue-like gap for warm air to escape.

Precautions

1. **Recording Copyright**—Unless it's for personal use only, recording copyrighted material is illegal without the permission of the copyright holder.
2. **AC Fuse**—The AC fuse inside the unit is not user-serviceable. If you cannot turn on the unit, contact your Onkyo dealer.
3. **Care**—Occasionally you should dust the unit all over with a soft cloth. For stubborn stains, use a soft cloth dampened with a weak solution of mild detergent and water. Dry the unit immediately afterwards with a clean cloth. Don't use abrasive cloths, thinners, alcohol, or other chemical solvents, because they may damage the finish or remove the panel lettering.

4. Power

WARNING

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

AC outlet voltages vary from country to country. Make sure that the voltage in your area meets the voltage requirements printed on the unit's rear panel (e.g., AC 230 V, 50 Hz or AC 120 V, 60 Hz).

The power cord plug is used to disconnect this unit from the AC power source. Make sure that the plug is readily operable (easily accessible) at all times.

Pressing **ON/STANDBY** to select Standby mode does not fully shutdown the unit. If you do not intend to use the unit for an extended period, remove the power cord from the AC outlet.

5. Preventing Hearing Loss

Caution

Excessive sound pressure from earphones and headphones can cause hearing loss.

6. Batteries and Heat Exposure

Warning

Batteries (battery pack or batteries installed) shall not be exposed to excessive heat as sunshine, fire or the like.

7. **Never Touch this Unit with Wet Hands**—Never handle this unit or its power cord while your hands are wet or damp. If water or any other liquid gets inside this unit, have it checked by your Onkyo dealer.

8. Handling Notes

- If you need to transport this unit, use the original packaging to pack it how it was when you originally bought it.
- Do not leave rubber or plastic items on this unit for a long time, because they may leave marks on the case.
- This unit's top and rear panels may get warm after prolonged use. This is normal.
- If you do not use this unit for a long time, it may not work properly the next time you turn it on, so be sure to use it occasionally.

For U.S. models

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.

For Canadian Models

NOTE: 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

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

Speaker Precautions

Placement

- The subwoofer cabinet is made out of wood and is therefore sensitive to extreme temperatures and humidity, do not put it 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.
- Speakers 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.
- Subwoofer is designed to be used in the upright vertical position only. Do not use it in the horizontal or tilted position.
- If the unit is used near a turntable, CD player or Blu-ray Disc/DVD player, howling or slipping of sound may occur. To prevent this, move the unit away from the turntable, CD player or Blu-ray Disc/DVD player, otherwise lower the unit's output level.

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. In such situations, try moving the speakers away from your TV or monitor. If discoloration should occur, 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. Note that discoloration can also be caused by a magnet or demagnetizing tool that's too close to your TV or monitor.

Input Signal Warning

The 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.

Package Contents

Make sure you have the following items:

- * In catalogs and on packaging, the letter at the end of the product name indicates the color. Specifications and operations are the same regardless of color.

HT-S6300

AV Receiver HT-R680

HT-R680 (→ 8)

Remote controller and two batteries (AA/R6) (→ 5)

Indoor FM antenna (→ 22)

AM loop antenna (→ 22)

Speaker setup microphone (→ 28)

Speaker Package HTP-680

Front speakers (SKF-680 L/R) (→ 10)

Center speaker (SKC-680) (→ 10)

Surround speakers (SKR-680 L/R) (→ 10)

Surround back speakers (SKB-680 L/R) (→ 10)

Subwoofer (SKW-770) (→ 10)

Speaker cables for front speakers 11 ft. (3.5 m) (White and Red) (→ 17)

Speaker cable for center speaker 10 ft. (3.0 m) (Green) (→ 17)

Speaker cables for surround speakers 26 ft. (8.0 m) (Blue and Gray) (→ 17)

Speaker cables for surround back speakers 26 ft. (8.0 m) (Brown and Tan) (→ 17)

RCA cable for subwoofer connection 10 ft. (3.0 m) (→ 17)

28 rubber stoppers (→ 14, 15)

4 floor pads for the subwoofer (→ 15)

Universal Port Option Dock for iPod® (UP-A1)

UP-A1 (→ 56)

HT-S7300

AV Receiver HT-R680

HT-R680 (→ 8)

Remote controller and two batteries (AA/R6) (→ 5)

Indoor FM antenna (→ 22)

AM loop antenna (→ 22)

Speaker setup microphone (→ 28)

Speaker Package HTP-780

Front speakers (SKF-780 L/R) (→ 10)
Center speaker (SKC-780) (→ 10)
Surround speakers (SKR-780 L/R) (→ 10)
Surround back speakers (SKB-780 L/R) (→ 10)
Subwoofer (SKW-780) (→ 10)
Speaker cables for front speakers 11 ft. (3.5 m) (White and Red) (→ 17)
Speaker cable for center speaker 10 ft. (3.0 m) (Green) (→ 17)
Speaker cables for surround speakers 26 ft. (8.0 m) (Blue and Gray) (→ 17)
Speaker cables for surround back speakers 26 ft. (8.0 m) (Brown and Tan) (→ 17)
RCA cable for subwoofer connection 10 ft. (3.0 m) (→ 17)
2 speaker bases and 8 screws (→ 14)
4 cork stoppers for center speaker (→ 15)
4 floor pads for the subwoofer (→ 15)

Universal Port Option Dock for iPod® (UP-A1)

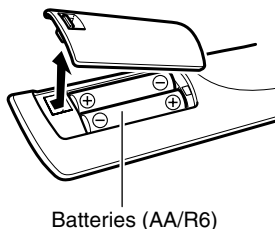
UP-A1 (→ 56)

Using the Remote Controller

Installing the Batteries

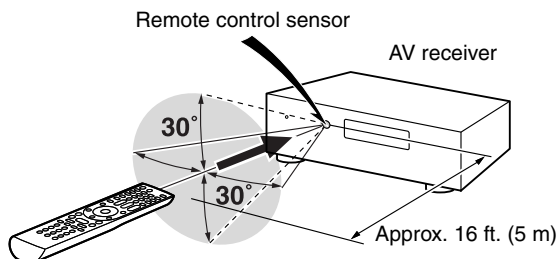
Note

- If the remote controller doesn't work reliably, try replacing the batteries.
- Don't mix new and old batteries or different types of batteries.
- If you intend not to use the remote controller for a long time, remove the batteries to prevent damage from leakage or corrosion.
- Remove expired batteries as soon as possible to prevent damage from leakage or corrosion.



Aiming the Remote Controller

To use the remote controller, point it at the AV receiver's remote control sensor, as shown below.



Contents

Introduction

Important Safety Instructions	2
Precautions	3
Speaker Precautions	4
Package Contents	4
Features	6
Front & Rear Panels	8
Speaker Package	10
Remote Controller	12
About Home Theater	13

Connections

Connecting the AV Receiver	14
----------------------------------	----

Turning On & Basic Operations

Turning On/Off the AV Receiver	24
Basic Operations	25
Listening to the Radio	30
Recording	32
Using the Listening Modes	33

Advanced Operations

Advanced Setup	38
Zone 2	53

Controlling iPod & Other Components

Controlling iPod	56
Controlling Other Components	60

Others

Troubleshooting	64
Specifications	69
About HDMI	72
Using an RIHD-compatible TV, Player, or Recorder ...	73
Video Resolution Chart	75

To reset the AV receiver to its factory defaults, turn it on and, while holding down VCR/DVR, press ON/STANDBY (→ 64).

Features

AV Receiver HT-R680

- 130 Watts/Channel @ 6 ohms
- WRAT—Wide Range Amplifier Technology (5 Hz to 100 kHz bandwidth)
- Optimum Gain Volume Circuitry
- H.C.P.S. (High Current Power Supply) Massive High Power Transformer
- HDMI (Ver.1.4 with Audio Return Channel, 3D), Deep-Color, x.v.Color*, Lip Sync, DTS*1-HD Master Audio, DTS-HD High Resolution Audio, Dolby TrueHD*2, Dolby Digital Plus, DSD and Multi-CH PCM
- Dolby Pro Logic IIz*2 (with “Front High” Direction Mode)
- Non-Scaling Configuration
- A-Form Listening Mode Memory
- Direct Mode
- Music Optimizer*3 for Compressed Digital Music files
- 192 kHz/24-bit D/A Converters
- Powerful and Highly Accurate 32-bit Processing DSP
- Jitter Cleaning Circuit Technology
- 4 HDMI*4 Inputs and 1 Output
- Onkyo **RIHD** for System Control
- 4 Digital Inputs (2 Optical/2 Coaxial)
- Component Video Switching (2 Inputs/1 Output)
- Front “Line in” Input for Portable audio player
- Universal Port for the Dock for iPod*/HD Radio™*5 tuner module
- Banana Plug-Compatible Speaker Posts
- Powered Zone 2
- 40 FM/AM Presets
- Audyssey 2EQ®*6 to Correct Room Acoustic Problems
- Audyssey Dynamic EQ®*6 for Loudness Correction
- Audyssey Dynamic Volume®*6 to Maintain Optimal Listening Level and Dynamic Range
- Crossover Adjustment (40/50/60/70/80/90/100/120/150/200 Hz)
- A/V Sync Control Function (up to 200 ms)
- On-Screen Display via HDMI
- Preprogrammed **RI**-Compatible Remote

*1  **DTS-HD Master Audio**

Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,226,616; 6,487,535; 7,212,872; 7,333,929; 7,392,195; 7,272,567 & other U.S. and worldwide patents issued & pending. DTS and the Symbol are registered trademarks, & DTS-HD, DTS-HD Master Audio, and the DTS logos are trademarks of DTS, Inc. Product includes software.

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*2  **DOLBY TRUEHD PRO LOGIC IIz**

Manufactured under license from Dolby Laboratories. “Dolby”, “Pro Logic” and the double-D symbol are trademarks of Dolby Laboratories.

*3 Music Optimizer™ is a trademark of Onkyo Corporation.

*4  **HDMI**
HIGH-DEFINITION MULTIMEDIA INTERFACE

“HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.”

*5  **HD Radio**
READY

HD Radio™ and the HD Radio Ready logo are proprietary trademarks of iBiquity Digital Corporation. To receive HD Radio broadcasts, you must install an Onkyo UP-HT1 HD Radio tuner module (sold separately).

*6  **AUDYSSEY 2EQ DYNAMIC VOLUME**

Manufactured under license from Audyssey Laboratories™. U.S. and foreign patents pending. Audyssey 2EQ®, Audyssey Dynamic Volume® and Audyssey Dynamic EQ® are registered trademarks and trademarks of Audyssey Laboratories.



- * iPod is a trademark of Apple Inc., registered in the U.S. and other countries.
- * iPhone is a trademark of Apple Inc.
- * “Made for iPod” means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards. “Works with iPhone” means that an electronic accessory has been designed to connect specifically to iPhone and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.
- * “x.v.Color” is a trademark of Sony Corporation.

Speaker Package HTP-680

SKF-680 L/R 2-Way Front Speakers

- 4" (10 cm) Cone woofer
- 1" (2.5 cm) Balanced dome tweeter
- Max. input power: 130 W
- Gloss Finished
- 6-ohm impedance
- Color-coded speaker terminals and speaker cable

SKC-680 2-Way Center Speaker

- 4" (10 cm) Cone woofer
- 1" (2.5 cm) Balanced dome tweeter
- Max. input power: 130 W
- Gloss Finished
- 6-ohm impedance
- Color-coded speaker terminals and speaker cable

SKR-680 L/R Full-Range Surround Speakers

SKB-680 L/R Full-Range Surround Back Speakers

- 3-1/4" (8 cm) Full-Range Speaker
- Max. input power: 130 W
- Gloss Finished
- 6-ohm impedance
- Color-coded speaker terminals and speaker cable

SKW-770 Bass Reflex Powered Subwoofer

- 10" (25 cm) Cone
- Output Level Control
- Max. power: 290 W (Dynamic power)

Speaker Package HTP-780

SKF-780 L/R 2-Way Front Speakers

- 3-1/4" (8 cm) Cone woofer
- 1" (2.5 cm) Balanced dome tweeter
- Max. input power: 130 W
- 6-ohm impedance
- Color-coded speaker terminals and speaker cable

SKC-780 2-Way Center Speaker

- 3-1/4" (8 cm) Cone woofer
- 1" (2.5 cm) Balanced dome tweeter
- Max. input power: 130 W
- 6-ohm impedance
- Color-coded speaker terminals and speaker cable

SKR-780 L/R Full-Range Surround Speakers

SKB-780 L/R Full-Range Surround Back Speakers

- 3-1/4" (8 cm) Cone
- Max. input power: 130 W
- 6-ohm impedance
- Color-coded speaker terminals and speaker cable

SKW-780 Bass Reflex Powered Subwoofer

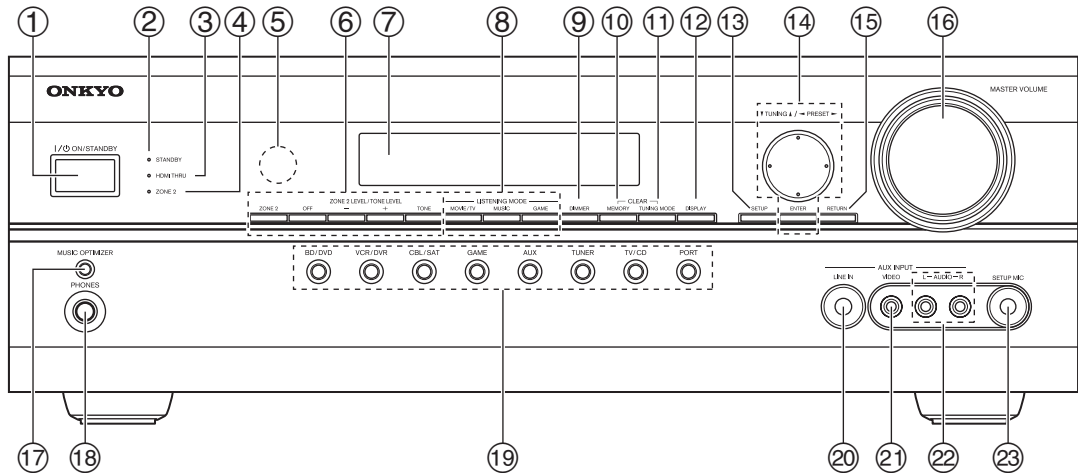
- 10" (25 cm) Cone
- Output Level Control
- Max. power: 290 W (Dynamic power)

Universal Port Option Dock for iPod® (UP-A1)

- Easily links iPod/iPhone models with Onkyo A/V Systems.

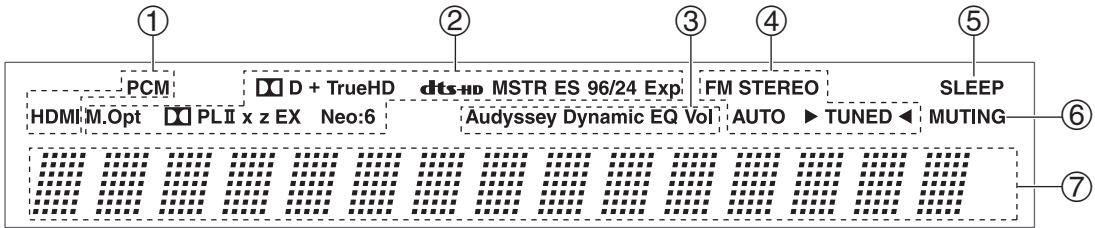
Front & Rear Panels

Front Panel



The actual front panel has various logos printed on it. They are not shown here for clarity.
The page numbers in parentheses show where you can find the main explanation for each item.

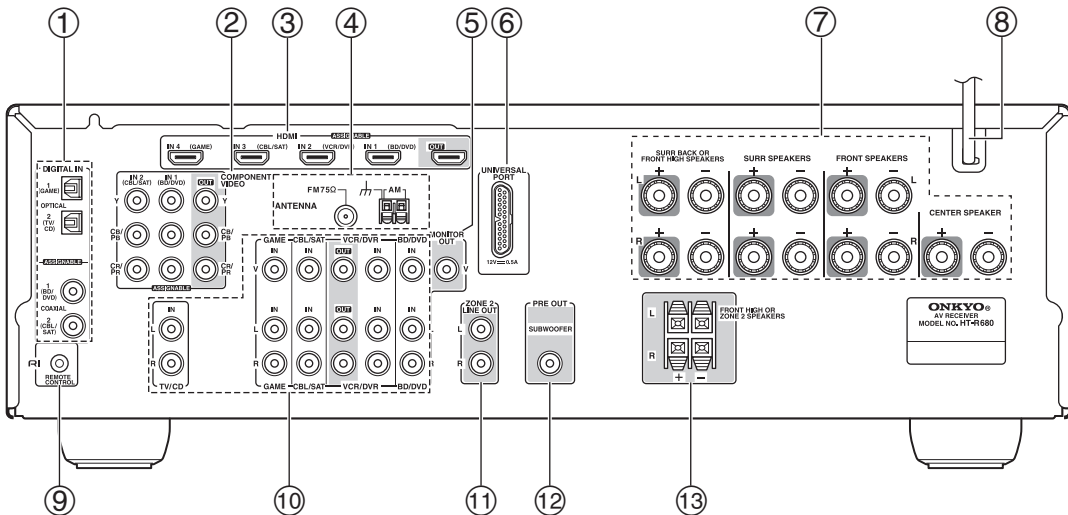
- | | |
|--|---|
| ① ON/STANDBY button (→ 24) | ⑬ SETUP button (→ 38) |
| ② STANDBY indicator (→ 24) | ⑭ TUNING, PRESET (→ 30 to 31), arrow and ENTER buttons |
| ③ HDMI THRU indicator (→ 49) | ⑮ RETURN button |
| ④ ZONE 2 indicator (→ 54) | ⑯ MASTER VOLUME control (→ 25) |
| ⑤ Remote control sensor (→ 5) | ⑰ MUSIC OPTIMIZER button (→ 51) |
| ⑥ ZONE 2, OFF, ZONE 2 LEVEL/TONE LEVEL and TONE buttons (→ 50, 54 to 55) | ⑱ PHONES jack (→ 27) |
| ⑦ Display (→ 9) | ⑲ Input selector buttons (BD/DVD, VCR/DVR, CBL/SAT, GAME, AUX, TUNER, TV/CD and PORT) (→ 25) |
| ⑧ LISTENING MODE buttons (MOVIE/TV, MUSIC and GAME) (→ 33) | ⑳ AUX INPUT LINE IN jack (→ 20) |
| ⑨ DIMMER button (→ 26) | ㉑ AUX INPUT VIDEO jack (→ 20) |
| ⑩ MEMORY button (→ 31) | ㉒ AUX INPUT AUDIO jacks (→ 20) |
| ⑪ TUNING MODE button (→ 30) | ㉓ SETUP MIC jack (→ 28) |
| ⑫ DISPLAY button (→ 25) | |



For detailed information, see the pages in parentheses.

- ① Audio input indicators
- ② Listening mode and format indicators (→ 33, 51)
- ③ Audyssey indicators (→ 28, 44)
- ④ Tuning indicators (→ 30)
- ⑤ SLEEP indicator (→ 26)
- ⑥ MUTING indicator (→ 26)
- ⑦ Message area

Rear Panel



- ① DIGITAL IN OPTICAL and COAXIAL jacks
- ② COMPONENT VIDEO IN and OUT jacks
- ③ HDMI IN and OUT jacks
- ④ FM ANTENNA jack and AM ANTENNA terminal
- ⑤ MONITOR OUT V jack
- ⑥ UNIVERSAL PORT jack
- ⑦ SPEAKERS terminals (CENTER, FRONT, SURR and SURR BACK OR FRONT HIGH)
- ⑧ Power cord
- ⑨ RI REMOTE CONTROL jack
- ⑩ Composite video and analog audio jacks (BD/DVD IN, VCR/DVR IN and OUT, CBL/SAT IN, GAME IN and TV/CD IN)
- ⑪ ZONE 2 LINE OUT jacks
- ⑫ SUBWOOFER PRE OUT jack
- ⑬ FRONT HIGH OR ZONE 2 SPEAKERS terminals

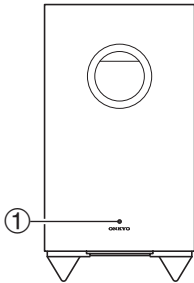
See “Connecting the AV Receiver” for connection information (→ 16 to 23).

Speaker Package

Subwoofer (SKW-770/780)

For detailed information, see the pages in parentheses.

■ Front

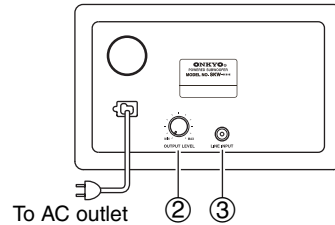


① Standby/On indicator

Red: Subwoofer in standby mode
Blue: Subwoofer on

With the Auto Standby function, the SKW-770/780 automatically turns on when an input signal is detected in Standby mode. When there's no input signal for a while, the SKW-770/780 automatically enters Standby mode.

■ Rear



② OUTPUT LEVEL control (→ 25)

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

③ LINE INPUT (→ 17)

This RCA input should be connected to the **SUBWOOFER PRE OUT** on the AV receiver with supplied RCA cable.

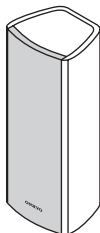
Note

- 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 the AV receiver (→ 42).

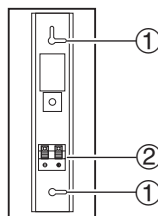
Front, Center, Surround and Surround Back Speakers

■ HTP-680 (SKF-680, SKC-680, SKR-680, SKB-680)

SKF-680

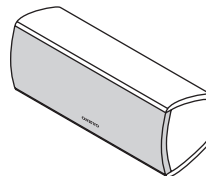


Front

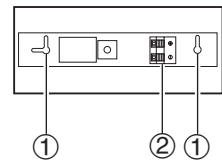


Rear

SKC-680

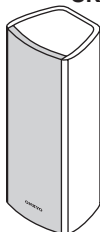


Front

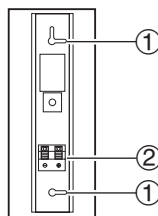


Rear

SKR-680/SKB-680

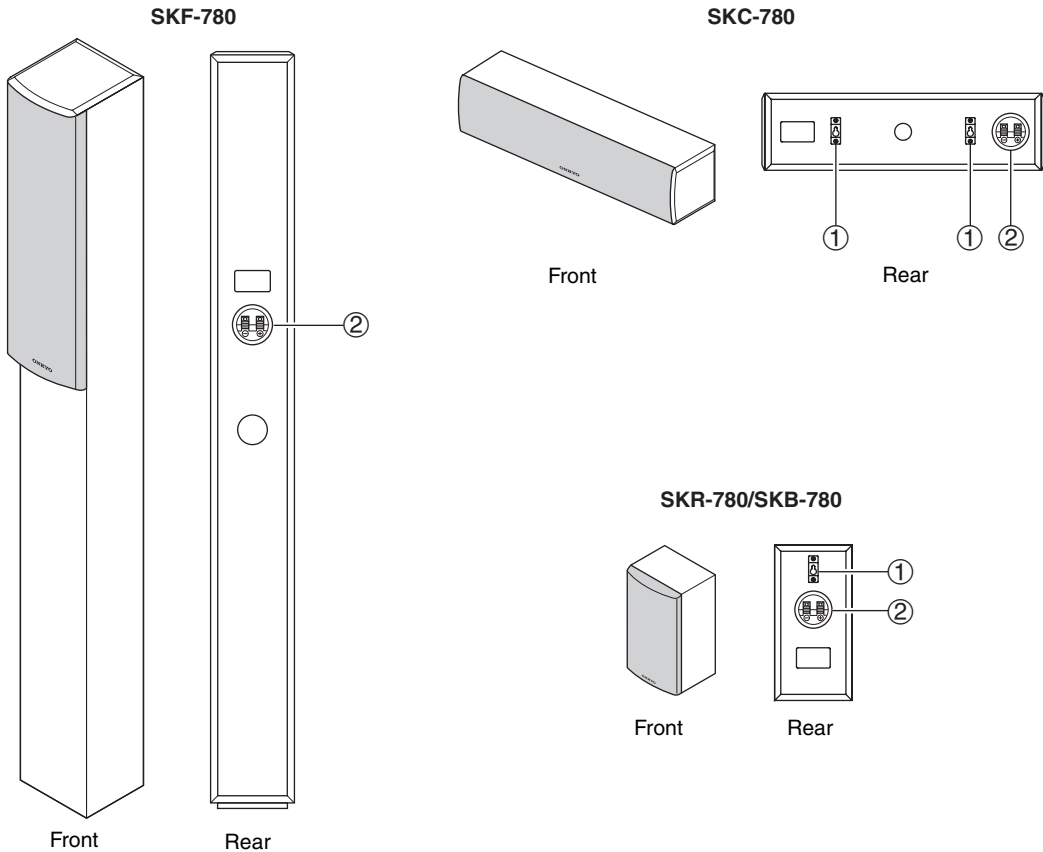


Front



Rear

■ HTP-780 (SKF-780, SKC-780, SKR-780, SKB-780)



① **Keyhole slots**

These keyhole slots can be used to wall-mount the speaker. See “Wall Mounting” for mounting instructions (→ 14).

② **Speaker terminals**

These push terminals are for connecting the speaker to the HT-R680 with the supplied speaker cables.

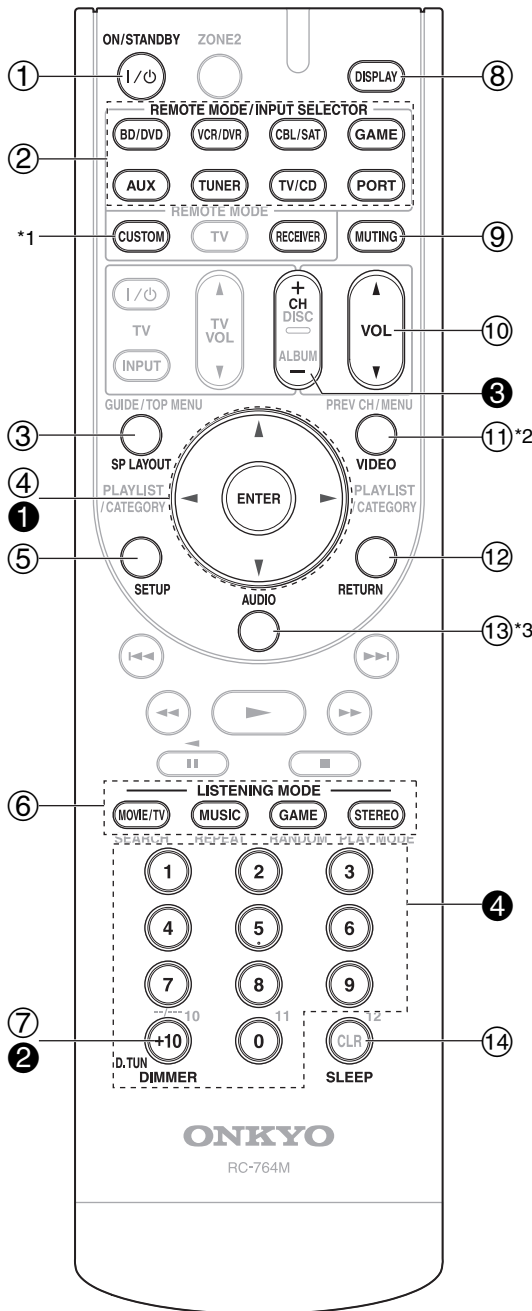
The supplied speaker cables are color-coded for easy identification. Simply connect each cable to the same-colored positive speaker terminal.

Caution

- The front grilles are not designed to be removed so do not attempt to remove them forcibly, as this will damage them.

Remote Controller

Controlling the AV Receiver



To control the AV receiver, press **RECEIVER** to select Receiver mode.

You can also use the remote controller to control Onkyo Blu-ray Disc/DVD player, CD player and other components.

See “Entering Remote Control Codes” for more details (→ 61).

For detailed information, see the pages in parentheses.

- ① **ON/STANDBY** button (→ 24)
- ② **REMOTE MODE/INPUT SELECTOR** buttons (BD/DVD, VCR/DVR, CBL/SAT, GAME, AUX, TUNER, TV/CD and PORT) (→ 25)
- ③ **SP LAYOUT** button (→ 26)
- ④ **Arrow ▲/▼/◀/▶ and ENTER** buttons
- ⑤ **SETUP** button (→ 38)
- ⑥ **LISTENING MODE** buttons (MOVIE/TV, MUSIC, GAME and STEREO) (→ 33)
- ⑦ **DIMMER** button (→ 26)
- ⑧ **DISPLAY** button (→ 25)
- ⑨ **MUTING** button (→ 26)
- ⑩ **VOL ▲/▼** button (→ 25)
- ⑪ **VIDEO** button (→ 26)
- ⑫ **RETURN** button
- ⑬ **AUDIO** button (→ 26)
- ⑭ **SLEEP** button (→ 26)

■ Controlling the tuner

To control the AV receiver’s tuner, press **TUNER** (or **RECEIVER**).

You can select AM or FM by pressing **TUNER** repeatedly.

- ① **Arrow ▲/▼** buttons (→ 30)
- ② **D.TUN** button (→ 30)
- ③ **CH +/-** button (→ 31)
- ④ **Number** buttons (→ 30)

*1 To control component, you must first enter remote control code.

See “Entering Remote Control Codes” for more details (→ 61).

*2 This button acts as a shortcut for the Video menu (→ 26).

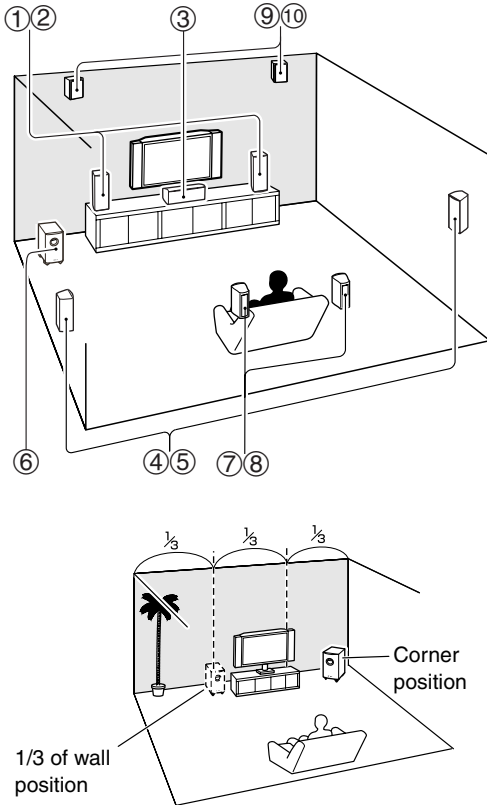
*3 This button acts as a shortcut for the Audio menu (→ 26).

About Home Theater

Enjoying Home Theater

Thanks to the AV receiver's superb capabilities, 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. With Blu-ray Discs or DVDs, you can enjoy DTS and Dolby Digital. With analog or digital TV, you can enjoy Dolby Pro Logic IIX, DTS Neo:6, or Onkyo's original DSP listening modes.

Speaker illustrations are based on HTP-680.



1/3 of wall position

Tip

- To find the best position for your subwoofer, while playing a movie or some music with good bass, experiment by placing your subwoofer at various positions within the room, and choose the one that provides the most satisfying results.

① ② Front speakers (SKF-680/780)

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.

③ Center speaker (SKC-680/780)

This speaker enhances the front 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 speakers.

④ ⑤ Surround speakers (SKR-680/780)

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 to 3 feet (60 to 100 cm) above ear level. Ideally they should be equidistant from the listener.

⑥ Subwoofer (SKW-770/780)

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.

⑦ ⑧ Surround back speakers (SKB-680/780)

These speakers are necessary to enjoy Dolby Digital EX, DTS-ES Matrix, DTS-ES Discrete, etc. They enhance the realism of surround sound and improve sound localization behind the listener. Position them behind the listener about 2 to 3 feet (60 to 100 cm) above ear level.

⑨ ⑩ Front high speakers (Optional)


These speakers are necessary to enjoy Dolby Pro Logic IIX Height. They significantly enhance the spatial experience. Position them at least 3.3 feet (100 cm) above the front speakers (preferably as high as possible) and at an angle slightly wider than the front speakers.

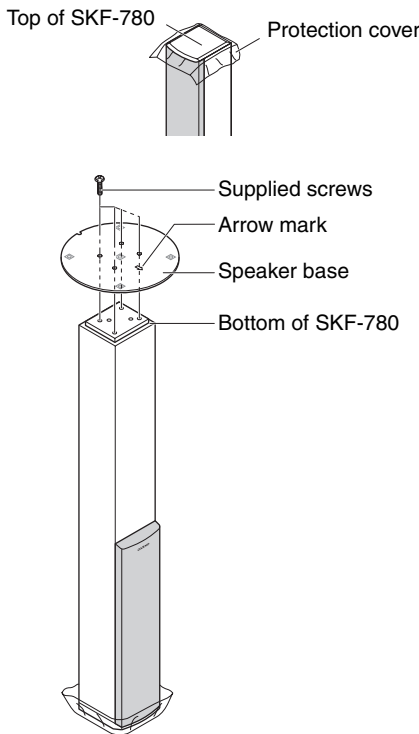
Connecting the AV Receiver

Attaching the Speaker Bases

■ SKF-780

Before you connect the speakers, attach the supplied speaker base to each SKF-780.

1. Turn the speaker upside down with the protection cover attached.
2. Align the speaker base while the arrow mark  is headed in the same direction as the speaker's face. Be careful not to tip over the speaker.
3. Align the screw holes on the speaker base with those on the bottom of each speaker, and affix the speaker base using the supplied screws. Recommended torque is 10 kgf-cm (9 lbf-in). Be careful not to tip over the speaker.
4. Turn the speaker right side up.
5. Remove the protection cover.



SAFETY PRECAUTIONS:

- Attach the speaker bases in a manner that will not allow the speakers to tip over.
- Be sure to tighten the screws when you attach the speaker bases.
- Attach the speaker bases on a flat, level, and stable floor.
- After you attach the speaker bases, make sure that the speakers stand upright and are stable.

Wall Mounting

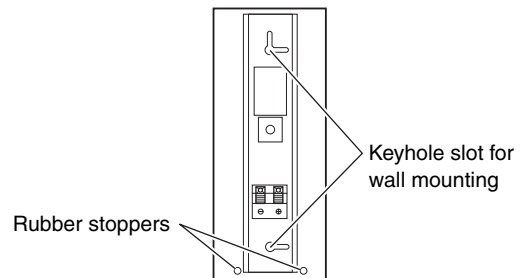
The speakers can easily be wall mounted by using the keyhole slots.

Front, Surround and Surround Back Speakers

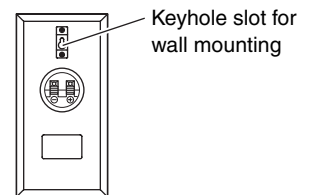
To mount the front, surround and surround back speakers vertically, use the keyhole slot shown to hang each speaker on a screw that's securely screwed into the wall.

■ SKF-680, SKR-680, SKB-680

To prevent the speaker from vibrating against the wall, attach two of the supplied rubber stoppers to the rear of each speaker.



■ SKR-780,SKB-780

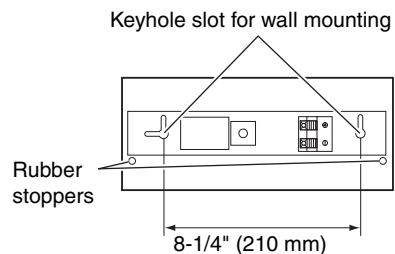


Center Speaker

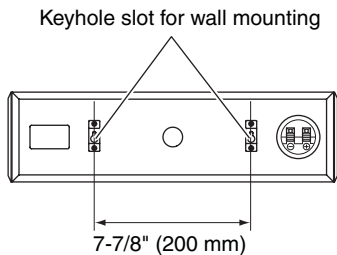
To mount the center speaker horizontally, use the two keyhole slots shown to hang each speaker on two screws that are securely screwed into the wall.

■ SKC-680

To prevent the speaker from vibrating against the wall, attach two of the supplied rubber stoppers to the rear of each speaker.

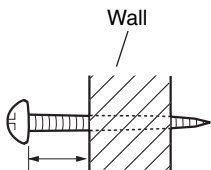


■ SKC-780



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 5/16" (8 mm) or less and a shank diameter of 1/8" (4 mm) or less. With hollow walls, use a cable/pipe detector to check for any power cables or water pipes before making any holes.
 - **(HTP-680)** Leave a gap of between 5/32" (4 mm) and 5/16" (8 mm) between the wall and the base of the screw head, as shown.
 - **(HTP-780)** Leave a gap of between 3/16" (5 mm) and 7/16" (10 mm) between the wall and the base of the screw head, as shown.
- (We recommend that you consult a home installation professional.)



(HTP-680) 5/32" to 5/16" (4 mm to 8 mm)

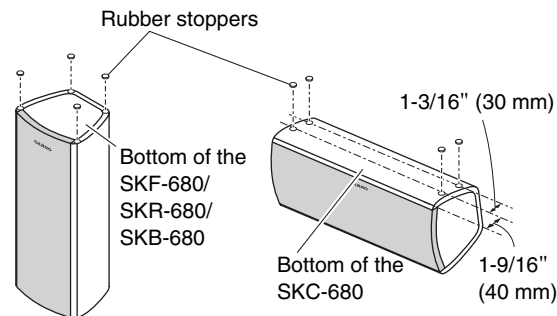
(HTP-780) 3/16" to 7/16" (5 mm to 10 mm)

Using the Stoppers for a More Stable Platform

We recommend using the provided stoppers to achieve the best possible sound from your speakers. The stoppers prevent the speakers from moving, providing a more stable platform.

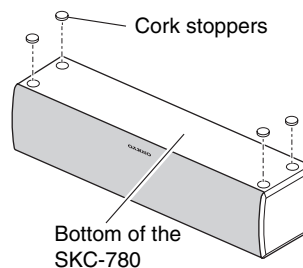
■ SKF-680, SKR-680, SKB-680, SKC-680

Use rubber stoppers for the speakers.



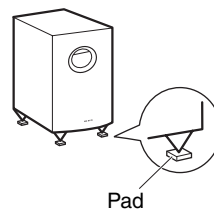
■ SKC-780

Use cork stoppers for the center speaker.



Using the Floor Pads for Subwoofer

If the subwoofer is placed on a hard floor (wood, vinyl, tile, etc.) and playback is very loud, the subwoofer's feet may damage the flooring. To prevent this, place the supplied pads underneath the subwoofer's feet. The pads also provide a stable base for the subwoofer.



Connecting Your Speakers

Speaker Configuration

The following table indicates the channels you should use depending on the number of speakers that you have.

For 7.1-channel surround-sound playback, you need 7 speakers and a powered subwoofer.

Number of speakers	2	3	4	5	6	7	7	8	9
Front speakers	✓	✓	✓	✓	✓	✓	✓	✓	✓
Center speaker		✓		✓	✓	✓	✓	✓	✓
Surround speakers			✓	✓	✓	✓	✓	✓	✓
Surround back speaker*1*2					✓			✓	
Surround back speakers*2						✓			✓
Front high speakers*2*3							✓	✓	✓

*1 If you're using only one surround back speaker, connect it to the **SURR BACK OR FRONT HIGH L** terminals.

*2 Front high and surround back speakers cannot be used at the same time.

*3 When you connect the front high left and right speakers, prepare for it separately, or use the surround back left and right speakers.

No matter how many speakers you use, a powered subwoofer is recommended for a really powerful and solid bass.

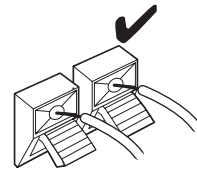
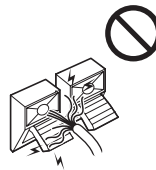
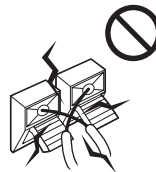
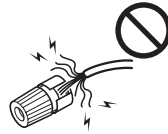
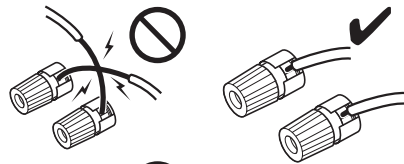
To get the best from your surround sound system, you need to set the speaker settings. You can do this automatically (→ 28) or manually (→ 40).

Speaker Connection Precautions

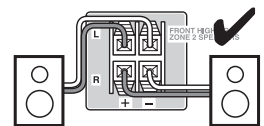
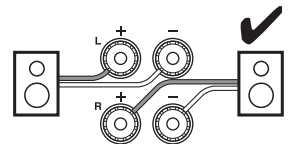
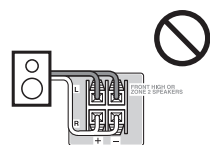
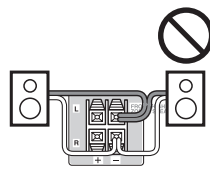
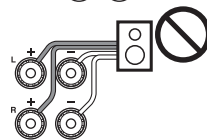
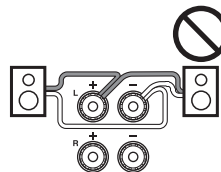
Read the following before connecting your speakers:

- You can connect speakers with an impedance of between 6 and 16 ohms. If you use speakers with a lower impedance, and use the amplifier at high volume levels for a long period of time, the built-in amp protection circuit may be activated.
- Disconnect the power cord from the wall outlet before making any connections.
- Pay close attention to speaker wiring polarity. In other words, connect positive (+) terminals only to positive (+) terminals, and negative (-) terminals only to negative (-) terminals. If you get them the wrong way around, the sound will be out of phase and will sound unnatural.
- Unnecessarily long, or very thin speaker cables may affect the sound quality and should be avoided.
- Be careful not to short the positive and negative wires. Doing so may damage the AV receiver.

- Make sure the metal core of the wire does not have contact with the AV receiver's rear panel. Doing so may damage the AV receiver.



- Don't connect more than one cable to each speaker terminal. Doing so may damage the AV receiver.
- Don't connect one speaker to several terminals.

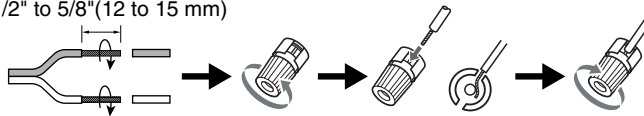


Connecting the Speaker Cables

Screw-type speaker terminals

Strip 1/2" to 5/8" (12 to 15 mm) of insulation from the ends of the speaker cables, and twist the bare wires tightly, as shown. (Supplied speaker cables are already stripped.)

1/2" to 5/8" (12 to 15 mm)



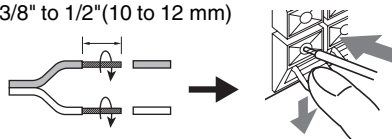
Using Banana Plugs

- If you are using banana plugs, tighten the speaker terminal before inserting the banana plug.
- Do not insert the speaker code directly into the center hole of the speaker terminal.

Push-type speaker terminals

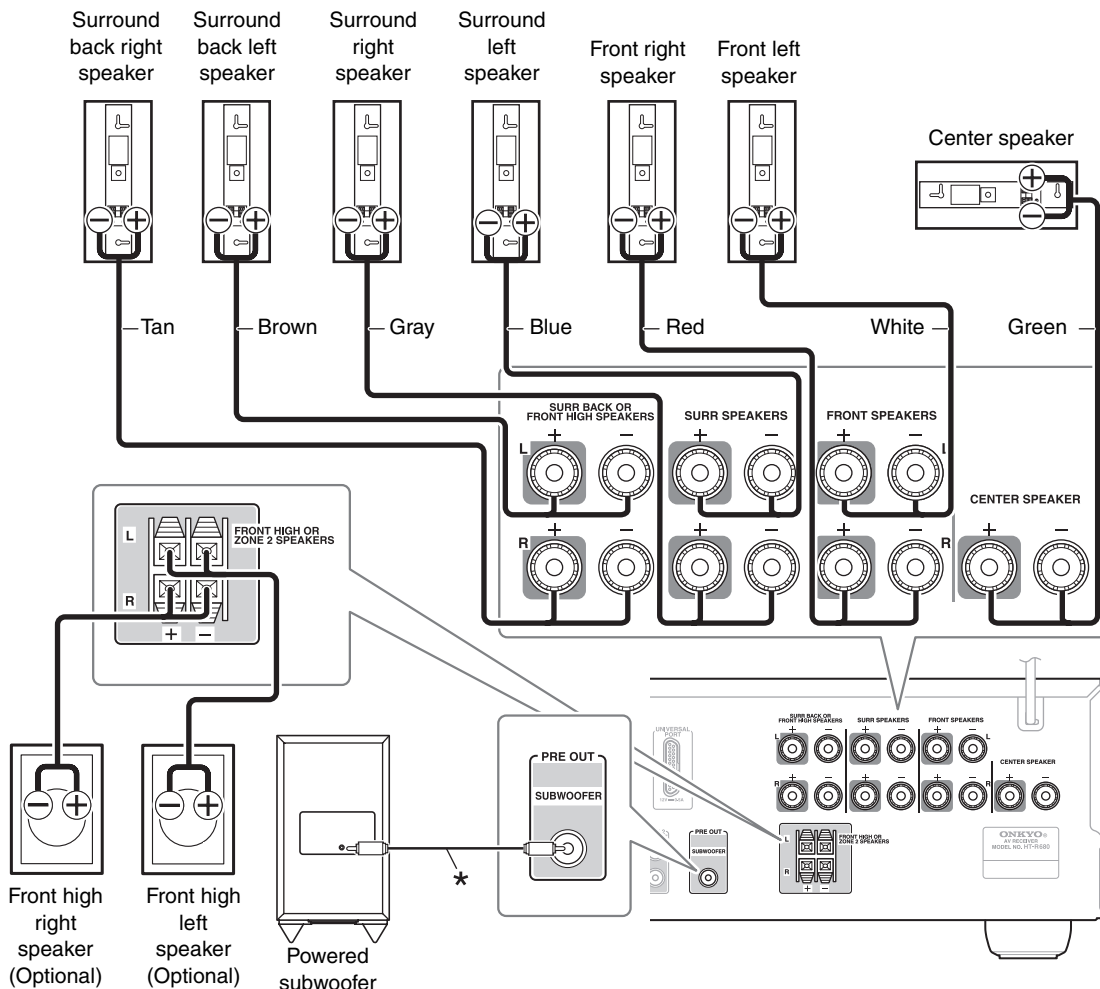
Strip 3/8" to 1/2" (10 to 12 mm) of insulation from the ends of the speaker cables, and twist the bare wires tightly, as shown. (Supplied speaker cables are already stripped.)

3/8" to 1/2" (10 to 12 mm)



The following illustration shows which speaker should be connected to each pair of terminals. If you're using only one surround back speaker, connect it to the **SURR BACK OR FRONT HIGH L** terminals.

Speaker illustrations are based on HTP-680.

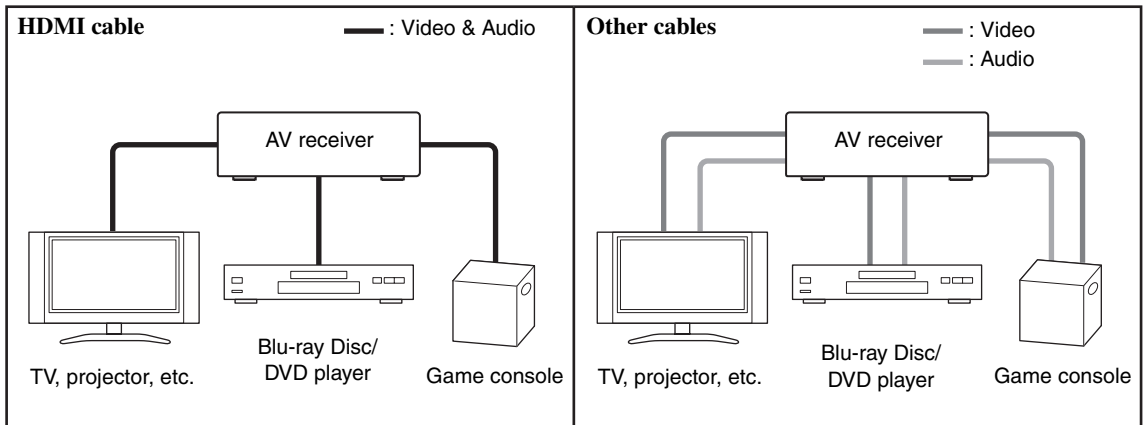


* Using the supplied RCA cable, connect the subwoofer's **LINE INPUT** jack to your AV receiver's **SUBWOOFER PRE OUT** jack.

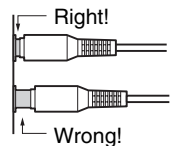
Note

- The front high speakers can also be connected to the **SURR BACK OR FRONT HIGH SPEAKERS** terminals. When doing so, set "Surr Back/Front High" in Speaker Setup to "Front High" (→ 40).


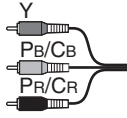

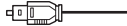

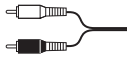

Connected image with AV components



- Before making any AV connections, read the manuals supplied with your AV components.
- Don't connect the power cord until you've completed and double-checked all AV connections.
- Push plugs in all the way to make good connections (loose connections can cause noise or malfunctions).
- To prevent interference, keep audio and video cables away from power cords and speaker cables.



AV Cables and Jacks

Signal	Cable	Jack	Description
Video and Audio	HDMI	 HDMI	HDMI connections can carry digital video and audio.
Video	Component video	 Y PB/CB PR/CR Y CB/PB CR/PR	Component video separates the luminance (Y) and color difference signals (PB/CB, PR/CR), providing the best picture quality (some TV manufacturers label their component video sockets slightly differently).
	Composite video	 V	Composite video is commonly used on TVs, VCRs, and other video equipment.
Audio	Optical digital audio	 OPTICAL	Optical digital connections allow you to enjoy digital sound such as PCM*, Dolby Digital or DTS. The audio quality is the same as coaxial.
	Coaxial digital audio	 COAXIAL	Coaxial digital connections allow you to enjoy digital sound such as PCM*, Dolby Digital or DTS. The audio quality is the same as optical.
	Analog audio (RCA)	 L R	Analog audio connections (RCA) carry analog audio.
	1/8" (3.5 mm) Stereo mini plug	 L R	This cable carries analog audio.

* Available sampling rate for PCM input signal is 32/44.1/48/88.2/96 kHz. Even 176.4/192 kHz is effective in case of the HDMI connection.

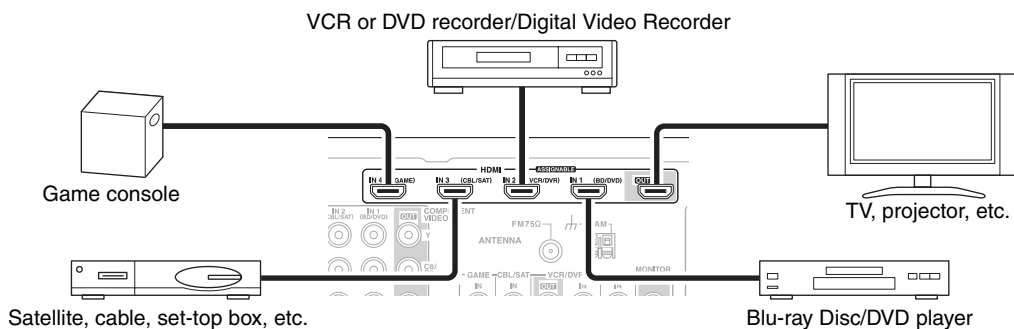
Note

- The AV receiver does not support SCART plugs.
- The AV receiver's optical digital jacks have shutter-type covers that open when an optical plug is inserted and close when it's removed. Push plugs in all the way.

Caution

- To prevent shutter damage, hold the optical plug straight when inserting and removing.

Connecting Your Components with HDMI



Connect your components to the appropriate jacks. The default input assignments are shown below.

✓: Assignment can be changed (→ 39).

Jack	Signal	Components	Assignable	
Input	HDMI IN 1	Audio/Video	Blu-ray Disc/DVD player	✓
	HDMI IN 2		VCR or DVD recorder/Digital Video Recorder	✓
	HDMI IN 3		Satellite, cable, set-top box, etc.	✓
	HDMI IN 4		Game console	✓
Output	HDMI OUT		TV, projector, etc.	

Refer to “About HDMI” (→ 72) and “Using an RIHD-compatible TV, Player, or Recorder” (→ 73).

■ Audio return channel (ARC) function

Audio return channel (ARC) function enables an HDMI capable TV to send the audio stream to the **HDMI OUT** of the AV receiver. To use this function, you must select the **TV/CD** input selector.

- To use ARC function, you must select the **TV/CD** input selector, your TV must support ARC function and “**HDMI Control (RIHD)**” is set to “**On**”(→ 49).

Tip

- To listen to audio received by the **HDMI IN** jacks through your TV’s speakers:
 - Set the “**TV Control**” setting to “**On**” (→ 50) for an **RIHD**-compatible TV.
 - Set the “**Audio TV Out**” setting to “**On**” (→ 49) when the TV is not compatible with **RIHD** or the “**TV Control**” setting to “**Off**”.
 - Set your Blu-ray Disc/DVD player’s HDMI audio output setting to PCM.
 - To listen to TV audio through the AV receiver, see “Connecting Your Components” (→ 20).

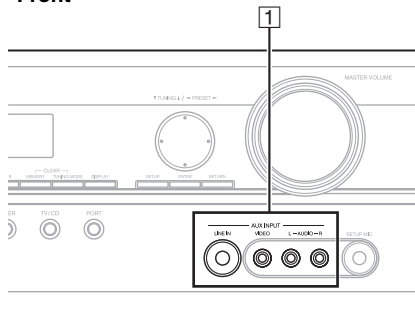
Note

- When listening to an HDMI component through the AV receiver, set the HDMI component so that its video can be seen on the TV screen (on the TV, select the input of the HDMI component connected to the AV receiver). If the TV power is off or the TV is set to another input source, this may result in no sound from the AV receiver or the sound may be cut off.
- When the “**Audio TV Out**” setting is set to “**On**” (→ 49) to hear from your TV’s speakers, by controlling the AV receiver’s volume, the sound will be output from the AV receiver’s speakers, too. When the “**TV Control**” setting is set to “**On**” (→ 50) to hear from speakers of **RIHD**-compatible TV, by controlling the AV receiver’s volume, the AV receiver’s speakers will produce sound while the TV’s speakers are muted. To stop the AV receiver’s speakers producing sound, change the settings, change your TV’s settings, or turn down the AV receiver’s volume.

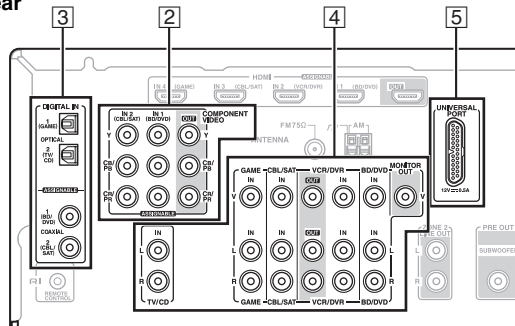
Connecting Your Components

The on-screen setup menus appear only on a TV that is connected to the **HDMI OUT**. If your TV is connected to the **MONITOR OUT V** or the **COMPONENT VIDEO OUT**, use the AV receiver's display when changing settings.

Front



Rear



Connect your components to the appropriate jacks. The default input assignments are shown below.

✓: Assignment can be changed (→ 40).

No.	Jack	Signal	Components	Assignable		
1	AUX INPUT	LINE IN	Analog audio	Portable audio player		
		VIDEO	Composite video	Camcorder, etc		
		AUDIO L/R	Analog audio			
2	COMPONENT VIDEO	IN 1 (BD/DVD)	Component video	Blu-ray Disc/DVD player	✓	
		IN 2 (CBL/SAT)		Satellite, cable, set-top box, etc.	✓	
		OUT		TV, projector, etc.		
3	DIGITAL IN	OPTICAL	IN 1 (GAME)	Digital audio	Game console	✓
			IN 2 (TV/CD)		TV, CD player	✓
	COAXIAL	IN 1 (BD/DVD)		Blu-ray Disc/DVD player	✓	
		IN 2 (CBL/SAT)		Satellite, cable, set-top box, etc.	✓	
4	MONITOR OUT	Composite video	TV, projector, etc.			
	BD/DVD IN	Analog audio and composite video	Blu-ray Disc/DVD player			
	VCR/DVR IN		VCR or DVD recorder/digital video recorder			
	CBL/SAT IN		Satellite, cable, set-top box, etc.			
	GAME IN		Game console			
	TV/CD IN	Analog audio	TV, CD player, Turntable*1, cassette tape deck, MD, CD-R			
5	UNIVERSAL PORT	Analog audio/video	Universal port optional dock (UP-A1 etc.)			

Note

*1 Connect a turntable (MM) that has a phono preamp built-in. If your turntable (MM) doesn't have it, you'll need a commercially available phono preamp.

If your turntable has a moving coil (MC) type cartridge, you'll need a commercially available MC head amp or MC transformer as well as a phono preamp. See your turntable's manual for details.

- When you connect to both **AUX INPUT AUDIO** jacks and **AUX INPUT LINE IN** jack at the same time, **AUX INPUT LINE IN** jack will be given a higher priority.
- The AV receiver can output audio and video signals from the **AUX INPUT** jacks to the **VCR/DVR OUT** jacks.
- With connection 4, you can listen and record audio from the external components while you are in Zone 2. You can listen and record audio from the external components in the main room; you can listen to the audio in Zone 2 as well.
- With connection 3, you can enjoy Dolby Digital and DTS. (To record or listen in Zone 2 as well, use 3 and 4.)
- With connection 4, if your Blu-ray Disc/DVD player has both the main stereo and multichannel outputs, be sure to connect the main stereo.

How to record the video

With the connections described above, you cannot record the video through the AV receiver. To make a connection for video recording (→ 32).

Connecting Onkyo RI Components

Step 1:

Make sure that each Onkyo component is connected with an analog audio cable (connection 4 in the hookup examples) (→ 20).

Step 2:

Make the **RI** connection (see illustration below).

Step 3:

If you're using an RI Dock, or cassette tape deck, change the Input Display (→ 27).

With **RI** (Remote Interactive), you can use the following special functions:

■ System On/Auto Power On

When you start playback on a component connected via **RI** while the AV receiver is on Standby, the AV receiver will automatically turn on and select that component as the input source.

■ Direct Change

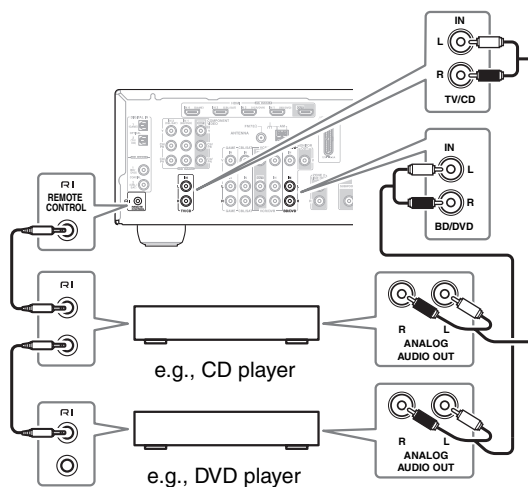
When playback is started on a component connected via **RI**, the AV receiver automatically selects that component as the input source.

■ Remote Control

You can use the AV receiver's remote controller to control your other **RI**-capable Onkyo components, pointing the remote controller at the AV receiver's remote control sensor instead of the component. You must enter the appropriate remote control code first (→ 61).

Note

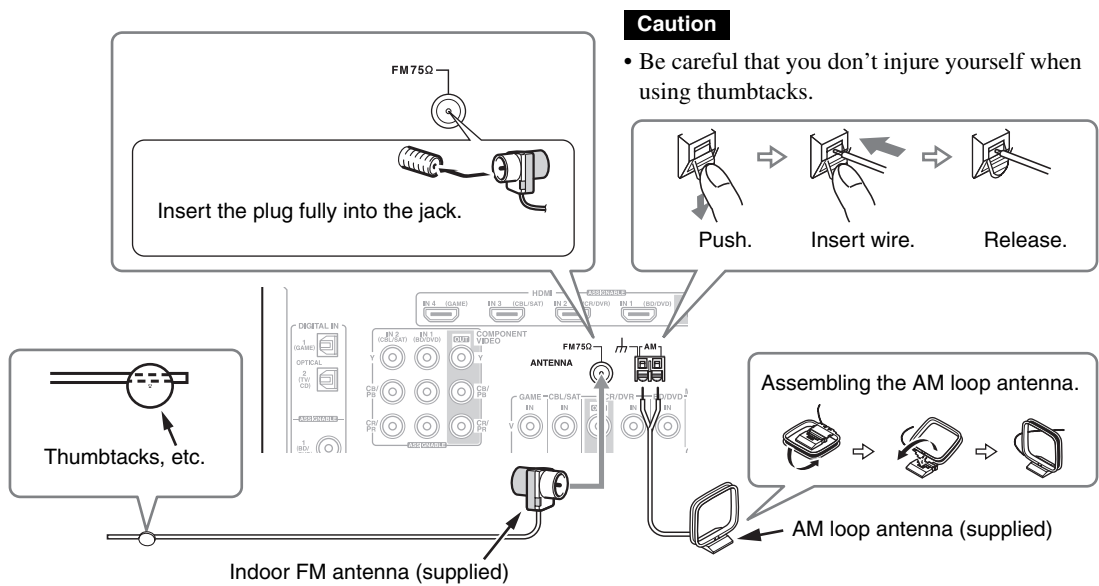
- Use only **RI** cables for **RI** connections. **RI** cables are supplied with Onkyo players (DVD, CD, etc.).
- Some components have two **RI** jacks. You can connect either one to the AV receiver. The other jack is for connecting additional **RI**-capable components.
- Connect only Onkyo components to **RI** jacks. Connecting other manufacturer's components may cause a malfunction.
- Some components may not support all **RI** functions. Refer to the manuals supplied with your other Onkyo components.
- While Zone 2 is on, the System On/Auto Power On and Direct Change **RI** functions do not work.
- Do not use RI connections if you use HDMI Control (RIHD) (→ 49).



Connecting Antenna

This section explains how to connect the supplied indoor FM antenna and AM loop antenna.

The AV receiver won't pick up any radio signals without any antenna connected, so you must connect the antenna to use the tuner.



Note

- Once your AV receiver is ready for use, you'll need to tune into a radio station and position the antenna to achieve the best possible reception.
- Keep the AM loop antenna as far away as possible from your AV receiver, TV, speaker cables, and power cords.

Tip

- If you cannot achieve good reception with the supplied indoor FM antenna, try a commercially available outdoor FM antenna instead.
- If you cannot achieve good reception with the supplied indoor AM loop antenna, try using it with a commercially available outdoor AM antenna.

Which Connections Should I Use?

The AV receiver supports several connection formats for compatibility with a wide range of AV equipment. The format you choose will depend on the formats supported by your components. Use the following sections as a guide.

The on-screen setup menus appear only on a TV that is connected to the HDMI OUT. If your TV is connected to the MONITOR OUT V or the COMPONENT VIDEO OUT, use the AV receiver's display when changing settings.

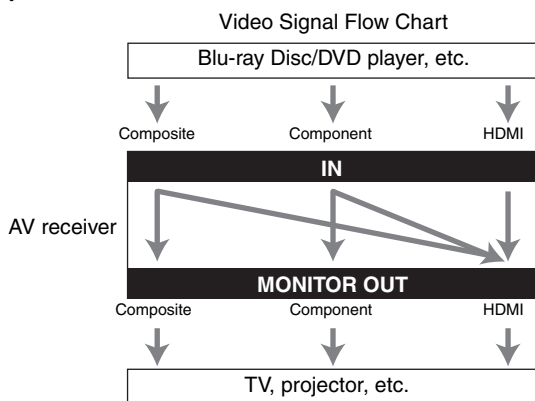
Video Connection Formats

Video component can be connected by using any one of the following video connection formats: composite video, component video, or HDMI, the latter offering the best picture quality.

Video input signals flow through the AV receiver as shown, with composite video and component video sources all being upconverted for the HDMI output.

The composite video and component video outputs pass through their respective input signals as they are.

When you connect audio component to an HDMI or COMPONENT input, you must assign that input to an input selector (→ 39).

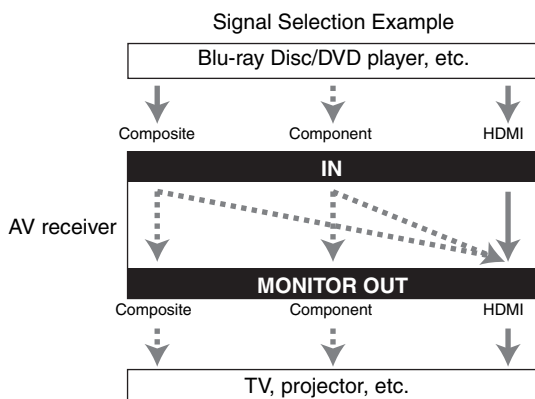


■ Signal Selection

If signals are present at more than one input, the inputs will be selected automatically in the following order of priority: HDMI, component video, composite video.

However, for component video only, regardless of whether a component video signal is actually present, if a component video input is assigned to the input selector, that component video input will be selected. And if no component video input is assigned to the input selector, this will be interpreted as no component video signal being present.

In the Signal Selection Example shown on the right, video signals are present at both the HDMI and composite video inputs, however, the HDMI signal is automatically selected as the source and video is output by the HDMI outputs.

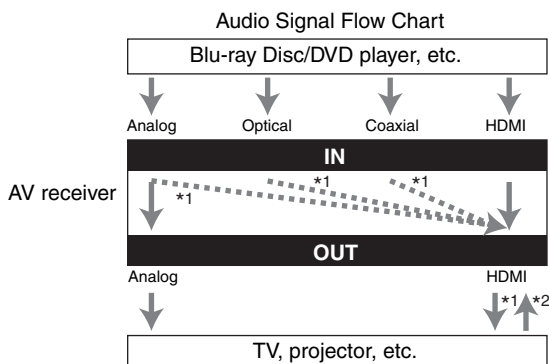


Audio Connection Formats

Audio component can be connected by using any of the following audio connection formats: analog, optical, coaxial, or HDMI.

When choosing a connection format, bear in mind that the AV receiver does not convert digital input signals for analog line outputs and vice versa. For example, audio signals connected to an optical or coaxial digital input are not output by the analog **VCR/DVR OUT**.

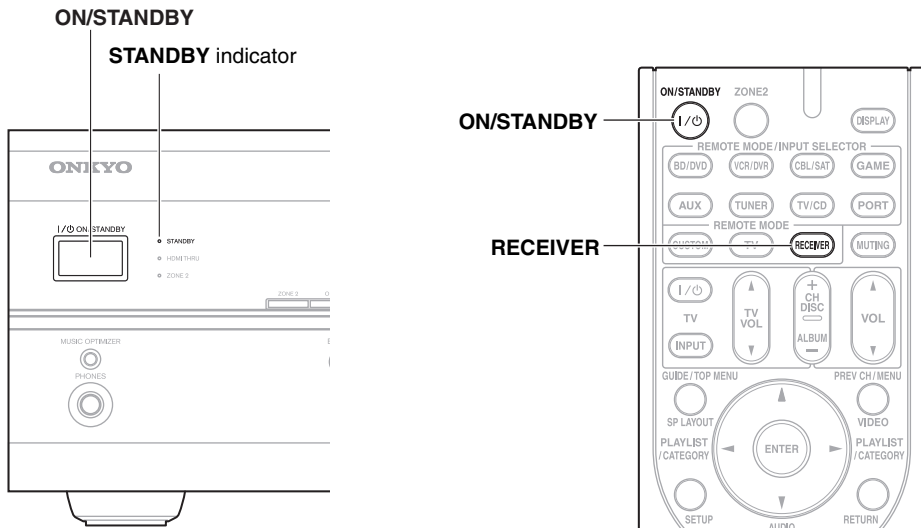
If signals are present at more than one input, the inputs will be selected automatically in the following order of priority: HDMI, digital, analog.



*1 Depends on the "Audio TV Out" setting (→ 49).

*2 This setting is available, when "Audio Return Channel" setting is set to "Auto" (→ 49), you must select the TV/CD input selector and your TV must support ARC function.

Turning On/Off the AV Receiver



Turning On

Press **ON/STANDBY** on the front panel.

or

Press **RECEIVER** followed by **ON/STANDBY** on the remote controller.

The AV receiver comes on, the display lights, and the **STANDBY** indicator goes off.

Turning Off

Press **ON/STANDBY** on the front panel or the remote controller.

The AV receiver will enter Standby mode. To prevent any loud surprises when you turn on the AV receiver, always turn down the volume before you turn it off.

Basic Operations

The on-screen menus appear only on a TV that is connected to the **HDMI OUT**. If your TV is connected to the **MONITOR OUT V** or the **COMPONENT VIDEO OUT**, use the AV receiver's display when changing settings.

This manual describes the procedure using the remote controller unless otherwise specified.

Selecting the Language Used for the Onscreen Setup Menus

You can determine the language used for the onscreen setup menus. See "Language" in the "OSD Setup" (→ 48).

Playing the Connected Component

■ Operating on the AV receiver

1 Use the input selector buttons to select the input source.

2 Start playback on the source component.

See also:

- "Controlling Other Components" (→ 60)
- "Controlling iPod" (→ 56)
- "Listening to the Radio" (→ 30)

3 To adjust the volume, use the **MASTER VOLUME** control.

4 Select a listening mode and enjoy!

See also:

- "Using the Listening Modes" (→ 33)
- "Audyssey" (→ 44)

■ Operating with the remote controller

1 Press **RECEIVER** followed by **INPUT SELECTOR**.

2 Start playback on the source component.

See also:

- "Controlling Other Components" (→ 60)
- "Controlling iPod" (→ 56)
- "Listening to the Radio" (→ 30)

3 To adjust the volume, use **VOL ▲/▼**.

4 Select a listening mode and enjoy!

See also:

- "Using the Listening Modes" (→ 33)
- "Audyssey" (→ 44)

■ Adjusting the subwoofer volume level

Use the subwoofer's **OUTPUT LEVEL** control to adjust the volume of the subwoofer.

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.

Note

- When the subwoofer volume level is set to a positive (+) value, the maximum master volume level is reduced proportionally.

Displaying Source Information

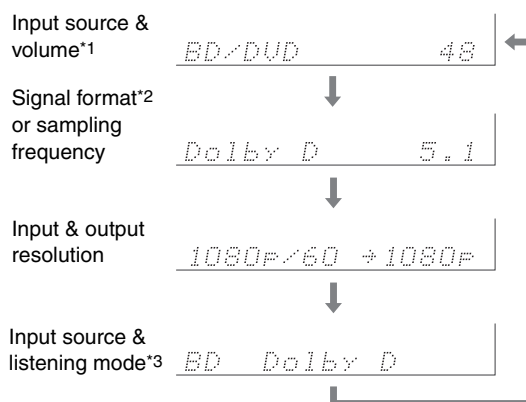
You can display various information about the current input source as follows. (Components connected to the **UNIVERSAL PORT** jack are excluded.)

Press **RECEIVER** followed by **DISPLAY** repeatedly to cycle through the available information.

Tip

- Alternatively, you can use the AV receiver's **DISPLAY**.

The following information can typically be displayed.



*1 When AM or FM radio is used, the band, preset number, and frequency are displayed.

*2 If the input signal is analog, no format information is displayed. If the input signal is PCM, the sampling frequency is displayed. If the input signal is digital but not PCM, the signal format is displayed.

Information is displayed for about three seconds, then the previously displayed information reappears.

*3 The input source is displayed with the default name even when you have entered a custom name in "Name Edit" (→ 45).

Using the Music Optimizer

The Music Optimizer function enhances the sound quality of compressed music files.

Press **MUSIC OPTIMIZER** on the front panel.
The **M.Opt** indicator lights on the display.

Tip

- Alternatively, you can use the remote controller's **AUDIO** and arrow buttons.
- See "Music Optimizer" for more details (→ 51).

Setting the Display Brightness

You can adjust the brightness of the AV receiver's display.

Press **RECEIVER** followed by **DIMMER** repeatedly to select: dim, dimmer, or normal brightness.

Tip

- Alternatively, you can use the AV receiver's **DIMMER**.

Muting the AV Receiver

You can temporarily mute the output of the AV receiver.

Press **RECEIVER** followed by **MUTING**.
The output is muted and the **MUTING** indicator flashes on the display.

Tip

- To unmute, press **MUTING** again or adjust the volume.
- The Mute function is cancelled when the AV receiver is set to Standby.

Using the Sleep Timer

With the sleep timer, you can set the AV receiver to turn off automatically after a specified period.

Press **RECEIVER** followed by **SLEEP** repeatedly to select the required sleep time.

The sleep time can be set from 90 to 10 minutes in 10 minute steps.

The **SLEEP** indicator lights on the display when the sleep timer has been set. The specified sleep time appears on the display for about 5 seconds, then the previous display reappears.

Tip

- If you need to cancel the sleep timer, press **SLEEP** repeatedly until the **SLEEP** indicator goes off.
- To check the time remaining until the AV receiver sleeps, press **SLEEP**. Note that if you press **SLEEP** while the sleep time is being displayed, you'll shorten the sleep time by 10 minutes.

Selecting Speaker Layout

You can prioritize which speakers you want to use.

Press **RECEIVER** followed by **SP LAYOUT** repeatedly.

► Speaker Layout:FH:

The sound from front high speakers is output by priority.

► Speaker Layout:SB:

The sound from surround back speakers is output by priority.

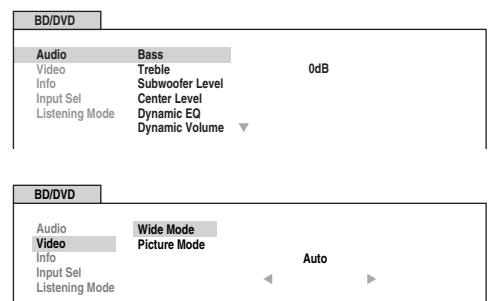
Note

- If the Powered Zone 2 is being used (→ 54), this setting cannot be selected.
- When the listening mode that doesn't support front high or surround back speakers is used, the setting cannot be selected.

Using the Audio and Video Menus

By pressing **AUDIO** or **VIDEO**, you can have a quick access to frequently used menus without having to go through the long standard menu. The menus enable you to change settings and view the current information.

1 Press **RECEIVER** followed by **AUDIO** or **VIDEO**.
Either of the following screens will be superimposed on the TV screen.



2 Use ▲/▼/◀/▶ to make the desired selection.

■ Audio*1

- ▶ You can change the following settings: “Bass”, “Treble”, “Subwoofer Level”, “Center Level”, “Dynamic EQ”, “Dynamic Volume”, “Late Night”, “Music Optimizer”, “Cinema filter” and “Audio Selector”.

See also:

- “Audyssey” (→ 44)
- “Using the Audio Settings” (→ 50)

■ Video*2

- ▶ You can change the following settings: “Wide Mode” and “Picture Mode”.

See also:

- “Picture Adjust” (→ 46)

■ Info*3*4

- ▶ You can view the information of the following items: “Audio”, “Video” and “Tuner”.

■ Input Sel*4*5

- ▶ You can select the input source while viewing the information as follows: the name of input selectors, input assignments, and radio information, and ARC function setting.

Press **ENTER** to display the current input source, followed by ▲/▼ to select the desired input source. Pressing **ENTER** again switches to the selected input source.

■ Listening Mode

- ▶ You can select the listening modes that are grouped in the following categories: “MOVIE/TV”, “MUSIC” and “GAME”.

Use ▲/▼ to select the category and ◀/▶ to select the listening mode. Press **ENTER** to switch to the selected listening mode.

Note

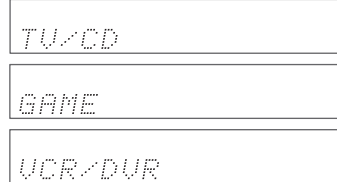
- *1 If Direct listening mode is selected, “Dynamic EQ” and “Dynamic Volume” cannot be selected.
- *2 Only when you have selected “Custom” in the “Picture Mode” (→ 46), pressing **ENTER** allows you to adjust the following items; “Brightness”, “Contrast”, “Hue”, and “Saturation”. Press **RETURN** to return to the original Video menu.
- *3 Depending on the input source and listening mode, not all channels shown here output the sound.
- *4 When you have entered a custom name in “Name Edit” (→ 45), the input source is displayed with that name. But even if not, the component name may be displayed if the AV receiver receives it via HDMI connection (→ 19).
- *5 For the **PORT** input selector, the name of Universal Port Option Dock will be displayed.

Changing the Input Display

When you connect an **RI**-capable Onkyo component, you must configure the input display so that **RI** can work properly.

This setting can be done only from the front panel.

- 1 Press **TV/CD**, **GAME** or **VCR/DVR** so that “TV/CD”, “GAME” or “VCR/DVR” appears on the display.



- 2 Press and hold down **TV/CD**, **GAME** or **VCR/DVR** (about 3 seconds) to change the input display.

Repeat this step to select “MD”, “CDR”, “DOCK” or “TAPE”.

For the **TV/CD** input selector, the input display changes in this order:

TV/CD → MD → CDR
└ TAPE ← DOCK ←┐

For the **GAME** input selector, the setting changes in this order:

GAME ↔ DOCK

For the **VCR/DVR** input selector, the setting changes in this order:

VCR/DVR ↔ DOCK

Note

- **DOCK** can be selected for the **TV/CD**, **GAME** or **VCR/DVR** input selector, but not at the same time.
- Enter the appropriate remote control code before using the remote controller for the first time (→ 60).

Using Headphones

Connect a pair of stereo headphones with a standard plug (1/4 inch or 6.3 mm) to the **PHONES** jack.

Note

- Always turn down the volume before connecting your headphones.
- While the headphones plug is inserted in the **PHONES** jack, the speakers are turned off. (The Powered Zone 2 speakers are not turned off.)
- When you connect a pair of headphones, the listening mode is set to Stereo, unless it's already set to Stereo, Mono or Direct.
- Only the Stereo, Direct and Mono listening modes can be used with headphones.

Audyssey 2EQ® Room Correction and Speaker Setup

With the supplied calibrated microphone, Audyssey 2EQ automatically determines the number of speakers connected, their size for purposes of bass management, optimum crossover frequencies to the subwoofer (if present), and distances from the primary listening position.

Audyssey 2EQ then removes the distortion caused by room acoustics by capturing room acoustical problems over the listening area in both the frequency and time domain. The result is clear, well-balanced sound for everyone. Enabling Audyssey 2EQ allows you to also use Audyssey Dynamic EQ®, which maintains the proper octave-to-octave balance at any volume level (→ 44). Before using this function, connect and position all of your speakers.

If “Dynamic EQ” is set to “On” (→ 44), the “Equalizer” setting will be set to “Audyssey” (→ 42). On the other hand, if it is set to “Off”, the “Dynamic Volume” setting will be set to “Off” (→ 44).

It takes about 15 minutes to complete Audyssey 2EQ Room Correction and Speaker Setup for 3 positions. Total measurement time varies depending on the number of speakers.

Using Audyssey 2EQ

Using Audyssey 2EQ to create a listening environment in your home theater that all listeners will enjoy, Audyssey 2EQ takes measurements at up to 3 positions within the listening area. Position the microphone at ear height of a seated listener with the microphone tip pointed directly at the ceiling using a tripod. Do not hold the microphone in your hand during measurements as this will produce inaccurate results.

① First measurement position

Also referred to as the Main Listening Position this refers to the most central position where one would normally sit within the listening environment. 2EQ uses the measurements from this position to calculate speaker distance, level, polarity, and the optimum crossover value for the subwoofer.

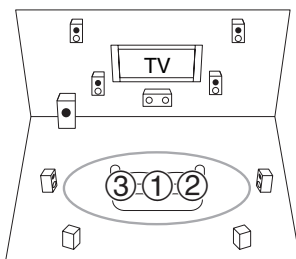
② Second measurement position

The right side of the listening area.

③ Third measurement position

The left side of the listening area.

The distances from position ① to ② and ① to ③ must be at least 1 meter.



○ : Listening area ① to ③: Listening position

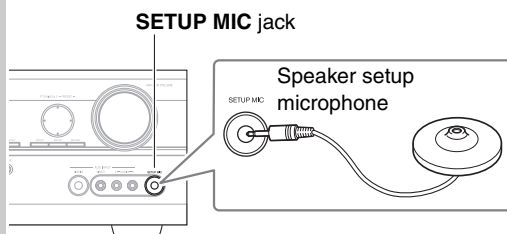
Note

- Make the room as quiet as possible. Background noise and Radio Frequency Interference (RFI) can disrupt the room measurements. Close windows, televisions, radios, air conditioners, fluorescent lights, home appliances, light dimmers, or other devices. Turn off the cell phone (even if it is not in use) or place it away from all audio electronics.
- The microphone picks up test tones which played through each speaker as Audyssey 2EQ Room Correction and Speaker Setup run.
- Audyssey 2EQ Room Correction and Speaker Setup cannot be performed while a pair of headphones is connected.

1 Turn on the AV receiver and the connected TV.

On the TV, select the input to which the AV receiver is connected.

2 Set the speaker setup microphone at the Main Listening Position ①, and connect it to the SETUP MIC jack.

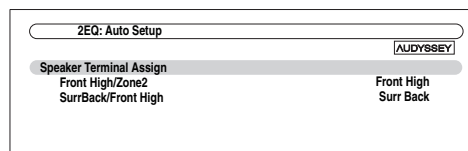


The speaker setting menu appears.

Note

- The on-screen setup menus appear only on a TV that is connected to the **HDMI OUT**. If your TV is connected to the **MONITOR OUT V** or the **COMPONENT VIDEO OUT**, use the AV receiver's display when changing settings.

3 When you've finished making the settings, press ENTER.



4 Press ENTER.

Audyssey 2EQ Room Correction and Speaker Setup starts.

Test tones are played through each speaker as Audyssey 2EQ Room Correction and Speaker Setup runs. This process takes a few minutes. Please **refrain from talking** during measurements and **do not stand** between speakers and the microphone.

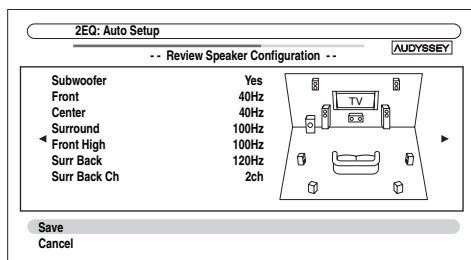
Do not disconnect the speaker setup microphone during Audyssey 2EQ Room Correction and Speaker Setup, unless you want to cancel the setup.

5 Place the setup microphone at the next position, and then press ENTER.

Audyssey 2EQ performs more measurements. This takes a few minutes.

6 When prompted, repeat step 5.

7 Use ▲/▼ to select an option, and then press ENTER.



The options are:

- ▶ **Save:**
Save the calculated settings and exit Audyssey 2EQ® Room Correction and Speaker Setup.
- ▶ **Cancel:**
Cancel Audyssey 2EQ Room Correction and Speaker Setup.

Note

- You can view the calculated settings for the speaker configuration, speaker distances, and speaker levels by using ◀/▶.

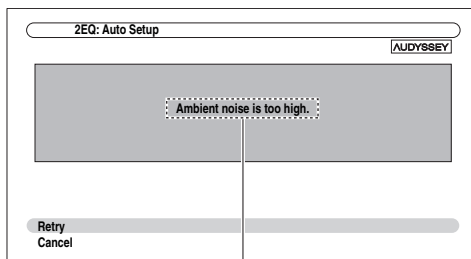
8 Disconnect the speaker setup microphone.

Note

- When Audyssey 2EQ Room Correction and Speaker Setup is complete, the “**Equalizer**” will be set to “**Audyssey**” (→ 42). The **Audyssey** indicator will light (→ 9).
- You can cancel Audyssey 2EQ Room Correction and Speaker Setup at any point in this procedure simply by disconnecting the setup microphone.
- Do not connect or disconnect any speakers during Audyssey 2EQ Room Correction and Speaker Setup.
- If the AV receiver is muted, it will be unmuted automatically when Audyssey 2EQ Room Correction and Speaker Setup starts.
- Changes to the room after Audyssey 2EQ Room Correction and Speaker Setup requires you run Audyssey 2EQ Room Correction and Speaker Setup again, as room EQ characteristics may have changed.

Error Messages

While Audyssey 2EQ Room Correction and Speaker Setup is in progress, one of the error messages below may appear.



Error message

The options are:

- ▶ **Retry:**
Try again.
 - ▶ **Cancel:**
Cancel Audyssey 2EQ Room Correction and Speaker Setup.
- **Ambient noise is too high.**
The background noise is too loud. Remove the source of the noise and try again.
 - **Speaker Matching Error!**
The number of speakers detected was different from that of the first measurement. Check the speaker connection.
 - **Writing Error!**
This message appears if saving fails. Try saving again. If this message appears after 2 or 3 attempts, contact your Onkyo dealer.
 - **Speaker Detect Error**
This message appears if a speaker is not detected. “**No**” means that no speaker was detected.

Tip

- See “Speaker Configuration” for appropriate settings (→ 16).

Changing the Speaker Settings Manually

You can manually make changes to the settings found during Audyssey 2EQ Room Correction and Speaker Setup. See also:

- “Speaker Configuration” (→ 41)
- “Speaker Distance” (→ 41)
- “Level Calibration” (→ 42)
- “Equalizer Settings” (→ 42)

Using a Powered Subwoofer

If you’re using a powered subwoofer and it outputs very low-frequency sound at a low volume level, it may not be detected by Audyssey 2EQ Room Correction and Speaker Setup.

If the “**Subwoofer**” appears on the “**Review Speaker Configuration**” screen as “**No**”, increase the subwoofer’s volume to the half-way point, set it to its highest crossover frequency, and then try running Audyssey 2EQ Room Correction and Speaker Setup again. Note that if the volume is set too high and the sound distorts, detection issues may occur, so use an appropriate volume level.

Listening to the Radio

This section describes the procedure using the buttons on the front panel unless otherwise specified.

Using the Tuner

With the built-in tuner you can enjoy AM and FM radio stations. You can store your favorite stations as presets for quick selection.

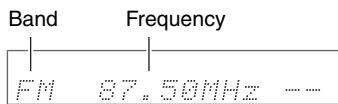
This model changes FM/AM frequency in 200/10kHz (or 50/9kHz) steps.

Listening to the Radio

Press **TUNER** to select either “AM” or “FM”.

In this example, FM has been selected.

Each time you press **TUNER**, the radio band changes between AM and FM.



(Actual display depends on the country.)

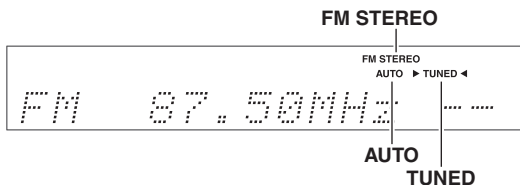
Tuning into Radio Stations

Auto tuning mode

1 Press **TUNING MODE** so that the **AUTO** indicator lights on the display.

2 Press **TUNING ▲/▼**.
Searching stops when a station is found.

When tuned into a station, the **TUNED** indicator lights. When tuned into a stereo FM station, the **FM STEREO** indicator lights on the display, as shown.



Manual tuning mode

1 Press **TUNING MODE** so that the **AUTO** indicator goes off on the display.

2 Press and hold **TUNING ▲/▼**.
The frequency stops changing when you release the button.
Press the buttons repeatedly to change the frequency one step at a time.

In manual tuning mode, FM stations will be in mono.

Tuning into weak FM stereo stations

If the signal from a stereo FM station is weak, it may be impossible to get good reception. In this case, switch to manual tuning mode and listen to the station in mono.

Tuning into stations by frequency

You can tune into AM and FM stations directly by entering the appropriate frequency.

1 On the remote controller, press **TUNER** repeatedly to select “AM” or “FM”, followed by **D.TUN**.



(Actual display depends on the country.)

2 Within **8 seconds**, use the **number buttons** to enter the frequency of the radio station.

For example, to tune to 87.50 (FM), press **8, 7, 5, 0**. If you have entered the wrong number, you can retry after 8 seconds.

Presetting FM/AM Stations

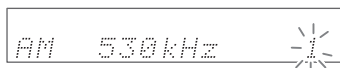
You can store a combination of up to 40 of your favorite FM/AM radio stations as presets.

1 Tune into the FM/AM station that you want to store as a preset.

See the previous section.

2 Press MEMORY.

The preset number flashes.



3 While the preset number is flashing (about 8 seconds), use PRESET ◀/▶ to select a preset from 1 through 40.

4 Press MEMORY again to store the station or channel.

The station or channel is stored and the preset number stops flashing.

Repeat this procedure for all of your favorite FM/AM radio stations.

Note

- You can name your radio presets for easy identification (→ 45). Its name is displayed instead of the band and frequency.

Selecting Presets

To select a preset, use PRESET ◀/▶ on the AV receiver, or the remote controller's CH +/-.

Tip

- You can also use the remote controller's number buttons to select a preset directly.

Deleting Presets

1 Select the preset that you want to delete.

See the previous section.

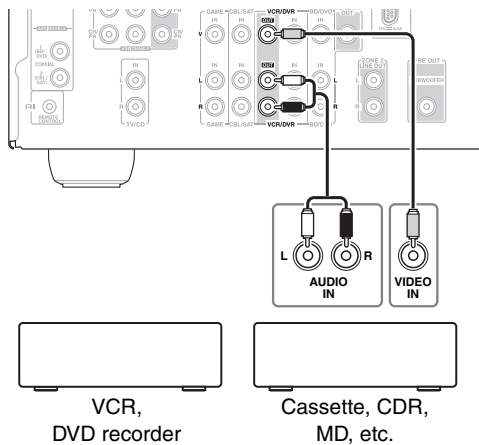
2 While holding down MEMORY, press TUNING MODE.

The preset is deleted and its number disappears from the display.

Recording

This section explains how to record the selected input source to a component with recording capability, and how to record audio and video from different sources.

Connecting a Recording Component



Note

- The AV receiver must be turned on for recording. Recording is not possible while it's in Standby mode.
- If you want to record directly from your TV or playback VCR to the recording VCR without going through the AV receiver, connect the TV/VCR's audio and video outputs directly to the recording VCR's audio and video inputs. See the manuals supplied with your TV and VCR for details.
- Video signals connected to composite video inputs can be recorded only via composite video outputs. If your TV/VCR is connected to a composite video input, the recording VCR must be connected to a composite video output.
- The surround sound and DSP listening modes cannot be recorded.
- Copy-protected Blu-ray Disc/DVDs cannot be recorded.
- Sources connected to a digital input cannot be recorded. Only analog inputs can be recorded.
- DTS signals will be recorded as noise, so don't attempt analog recording of DTS CDs or LDs.

AV Recording

Audio sources can be recorded to a recorder (e.g., cassette deck, CDR, MD) connected to the **VCR/DVR OUT** jacks. Video sources can be recorded to a video recorder (e.g., VCR, DVD recorder) connected to the **VCR/DVR OUT** jack.

1 Use the input selector buttons to select the source that you want to record.

You can watch the source while recording. The AV receiver's **MASTER VOLUME** control has no effect on recording.

2 On your recorder, start recording.

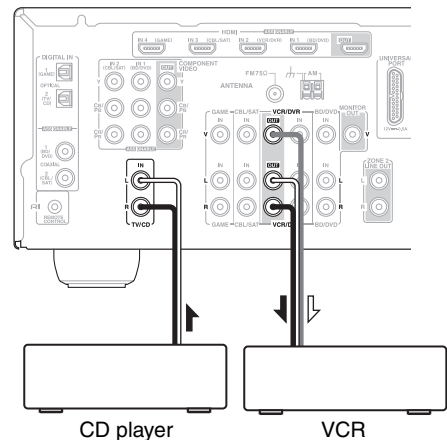
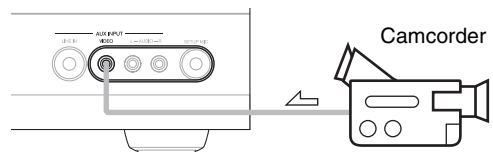
3 On the source component, start playback.

If you select another input source during recording, that input source will be recorded.

Recording Separate AV Sources

Here you can record audio and video from completely separate sources, allowing you to overdub audio onto your video recordings. This function takes advantage of the fact that when an audio-only input source (**TV/CD**) is selected, the video input source remains unchanged.

In the following example, audio from the CD player connected to the **TV/CD IN** and video from the camcorder connected to the **AUX INPUT VIDEO** jack are recorded by the VCR connected to the **VCR/DVR OUT** jacks.



↘ : Video signal
↙ : Audio signal

1 Prepare the camcorder and CD player for playback.

2 Prepare the VCR for recording.

3 Press AUX input selector.

4 Press TV/CD input selector.

This selects the CD player as the audio source, but leaves the camcorder as the video source.

5 Start recording on the VCR and start playback on the camcorder and CD player.

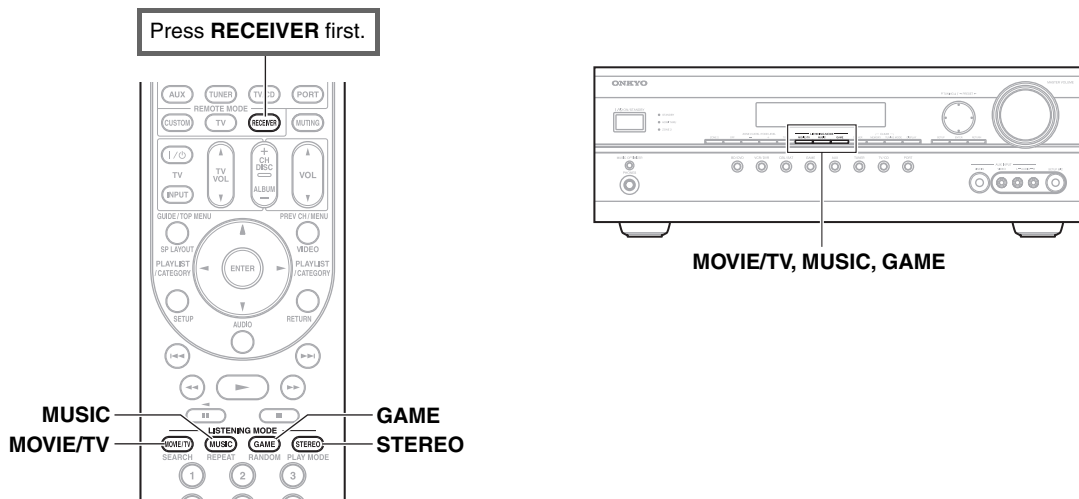
The video from the camcorder and the audio from the CD player are recorded by the VCR.

Using the Listening Modes

Selecting Listening Modes

See “About Listening Modes” for detailed information about the listening modes (→ 34).

Listening Mode Buttons



MOVIE/TV button

This button selects the listening modes intended for use with movies and TV.

MUSIC button

This button selects the listening modes intended for use with music.

GAME button

This button selects the listening modes intended for use with video games.

STEREO button

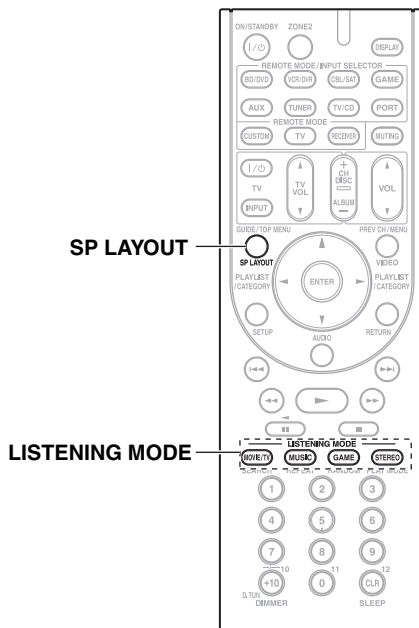
This button selects Stereo and All Channel Stereo listening modes.

- The Dolby Digital and DTS listening modes can only be selected if your Blu-ray Disc/DVD player is connected to the AV receiver with a digital audio connection (coaxial, optical, or HDMI).
- The listening modes you can select depends on the format of the input signal. To check the format, see “Displaying Source Information” (→ 25).
- While a pair of headphones is connected, you can select the following listening modes: Mono, Direct, and Stereo.
- The listening modes cannot be used while you are listening to sound through your TV speakers coming from components connected to the AV receiver (“TV Sp On” appears on the front panel).

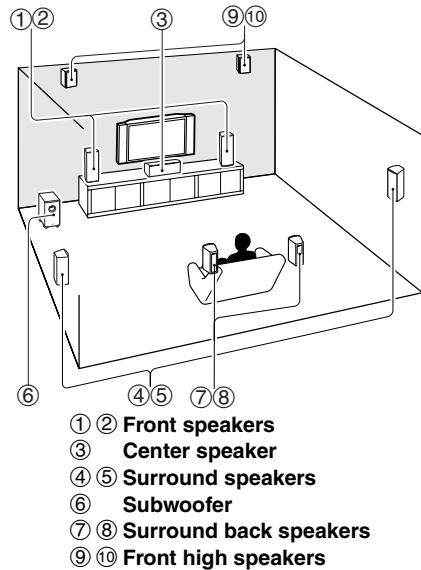
About Listening Modes

The AV receiver's listening modes can transform your listening room into a movie theater or concert hall, with high fidelity and stunning surround sound.

Explanatory Notes



Speaker illustrations are based on HTP-680.



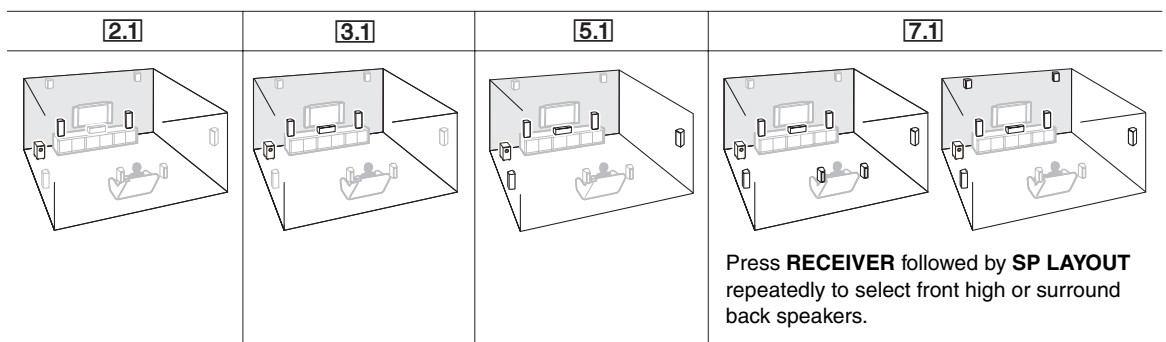
■ Input Source

The following audio formats are supported by the listening mode.

MONO	This is mono (monophonic) sound.
STEREO	This is stereo (stereophonic) sound. Two independent audio signal channels are reproduced through two speakers.
5.1ch	This is 5.1-channel surround sound. This surround system has five main channels of sound and a sixth subwoofer channel (called the point-one channel).
7.1ch	This is 7.1-channel surround sound. This is a further sound enhancement to 5.1 channel sound with two additional speakers that provide greater sound envelopment and more accurate positioning of sounds.
DTS-ES	This is DTS-ES surround sound. This surround system can produce a discrete or a matrix-encoded sixth channel from existing DTS 5.1 encoded material.
DJEX	This is Dolby Digital EX surround sound. This provides a center back surround channel from 5.1-channel sources.

■ Speaker Layout

The illustration shows which speakers are activated in each channel. See "Speaker Configuration" for the speaker setup (→ 41).



Press **RECEIVER** followed by **SP LAYOUT** repeatedly to select front high or surround back speakers.

Listening Modes

Listening Mode	Description	Input Source	Speaker Layout
Direct <i>Direct</i>	In this mode, audio from the input source is output without surround-sound processing. The “ Sp Config ” (presence of speakers), “ Sp Distance ” and “ A/V Sync ” settings are enabled, but much of the processing set via AUDIO is disabled. See “Advanced Setup” for more details (→ 38).	MONO STEREO 5.1ch 7.1ch DTS-ES DDEX	2.1 3.1 5.1 7.1 *1
Stereo <i>Stereo</i>	Sound is output by the front left and right speakers and subwoofer.	MONO STEREO 5.1ch 7.1ch DTS-ES DDEX	2.1 3.1 5.1 7.1
Mono <i>Mono</i>	Use this mode when watching an old movie with a mono soundtrack, or use it with the foreign language soundtracks recorded in the left and right channels of some movies. It can also be used with DVDs or other sources containing multiplexed audio, such as karaoke DVDs.	5.1ch 7.1ch DTS-ES DDEX	3.1 5.1 7.1
Multichannel <i>Multich</i>	This mode is for use with PCM multichannel sources.	5.1ch	3.1 5.1 7.1
Dolby Pro Logic IIx² Dolby Pro Logic II <i>PLII Movie</i> <i>PLII Music</i> <i>PLII Game</i> <i>PLIIx Movie</i> <i>PLIIx Music</i> <i>PLIIx Game</i>	<p>Dolby Pro Logic IIx expands any 2-channel source for 7.1-channel playback. It provides a very natural and seamless surround-sound experience that fully envelops the listener. As well as music and movies, video games can also benefit from the dramatic spatial effects and vivid imaging. If you're not using any surround back speakers, Dolby Pro Logic II will be used instead of Dolby Pro Logic IIx.</p> <ul style="list-style-type: none"> • Dolby PLIIx Movie Use this mode with any stereo or Dolby Surround (Pro Logic) movie (e.g., TV, DVD, VHS). • Dolby PLIIx Music Use this mode with any stereo or Dolby Surround (Pro Logic) music source (e.g., CD, radio, cassette, TV, VHS, DVD). • Dolby PLIIx Game Use this mode with video games, especially those that bear the Dolby Pro Logic II logo. 	STEREO 5.1ch	3.1 5.1 7.1 7.1
Dolby Pro Logic IIz Height <i>PLIIZ Height</i>	Dolby Pro Logic IIz Height is designed to more effectively use existing program material when height channel speaker outputs are present. Dolby Pro Logic IIz Height can be used to upmix a variety of sources from movies and music, but are particularly well-suited to upmix game content.	STEREO 5.1ch 7.1ch	7.1 *3
Dolby EX <i>Dolby EX</i> <i>Dolby DEX</i>	These modes expand 5.1-channel sources for 6.1/7.1-channel playback. They're especially suited to Dolby EX soundtracks that include a matrix-encoded surround back channel. The additional channel adds an extra dimension and provides an enveloping surround sound experience, perfect for rotating and fly-by sound effects.	5.1ch DDEX	7.1 *4

Listening Mode	Description	Input Source	Speaker Layout
Dolby Digital <i>Dolby D</i>	In this mode, audio from the input source is output without surround-sound processing. “ Sp Config ” (presence of speakers), “ Crossover ”, “ Sp Distance ”, “ A/V Sync ” and much of the processing set via AUDIO are enabled. See “Advanced Setup” for more details (→ 38).	5.1ch	3.1 5.1 7.1
Dolby Digital Plus ^{*5} <i>Dolby D+</i>		5.1ch	3.1 5.1 7.1
		7.1ch	3.1 5.1 7.1 ^{*1}
Dolby TrueHD <i>TrueHD</i>		5.1ch	3.1 5.1 7.1
		7.1ch	3.1 5.1 7.1 ^{*1}
DTS <i>DTS</i>		5.1ch	3.1 5.1 7.1
DTS-HD High Resolution Audio <i>DTS-HD HR</i>		5.1ch	3.1 5.1 7.1
		7.1ch	3.1 5.1 7.1 ^{*1}
DTS-HD Master Audio <i>DTS-HD MSTR</i>		5.1ch	3.1 5.1 7.1
		7.1ch	3.1 5.1 7.1 ^{*1}
DTS Express <i>DTS Express</i>		STEREO 5.1ch	3.1 5.1 7.1
DSD ^{*6} <i>DSD</i>		5.1ch	3.1 5.1 7.1
DTS 96/24 ^{*7} <i>DTS 96/24</i>		This mode is for use with DTS 96/24 sources. This is high-resolution DTS with a 96 kHz sampling rate and 24-bit resolution, providing superior fidelity. Use it with DVDs that bear the DTS 96/24 logo.	5.1ch
DTS-ES Discrete ^{*8} <i>ES Discrete</i>	This mode is for use with DTS-ES Discrete soundtracks, which use a discrete surround back channel for true 6.1/7.1-channel playback. The seven totally separate audio channels provide better spatial imaging and 360-degree sound localization, perfect for sounds that pan across the surround channels. Use it with DVDs that bear the DTS-ES logo, especially those with a DTS-ES Discrete soundtrack.	DTS-ES	7.1 ^{*4}
DTS-ES Matrix ^{*8} <i>ES Matrix</i>	This mode is for use with DTS-ES Matrix soundtracks, which use a matrix-encoded back-channel for 6.1/7.1-channel playback. Use it with DVDs that bear the DTS-ES logo, especially those with a DTS-ES Matrix soundtrack.	DTS-ES	7.1 ^{*4}
DTS Neo:6 <i>Neo:6</i> <i>Neo:6 Cinema</i> <i>Neo:6 Music</i>	This mode expands any 2-channel source for up to 7.1-channel playback. It uses seven full-bandwidth channels of matrix decoding for matrix-encoded material, providing a very natural and seamless surround sound experience that fully envelops the listener. <ul style="list-style-type: none"> • Neo:6 Cinema Use this mode with any stereo movie (e.g., TV, DVD, VHS). • Neo:6 Music Use this mode with any stereo music source (e.g., CD, radio, cassette, TV, VHS, DVD). <p>This mode uses Neo:6 to expand 5.1-channel sources for 6.1/7.1-channel playback.</p>	STEREO	3.1 5.1 7.1 ^{*4}
		5.1ch	7.1 ^{*4}

Onkyo-Original DSP Listening Modes

Listening Mode	Description	Input Source	Speaker Layout		
Orchestra <i>Orchestra</i>	Suitable for classical or operatic music, this mode emphasizes the surround channels in order to widen the stereo image, and simulates the natural reverberation of a large hall.	MONO STEREO 5.1ch DTS-ES DDEX	5.1 7.1 ^{*9}		
Unplugged <i>Unplugged</i>	Suitable for acoustic instruments, vocals, and jazz, this mode emphasizes the front stereo image, giving the impression of being right in front of the stage.				
Studio-Mix <i>Studio-Mix</i>	Suitable for rock or pop music, listening to music in this mode creates a lively sound field with a powerful acoustic image, like being at a club or rock concert.				
TV Logic <i>TV Logic</i>	This mode adds realistic acoustics to TV shows produced in a TV studio, surround effects to the entire sound, and clarity to voices.				
Game-RPG <i>Game-RPG</i>	Use this mode when playing role playing game discs.				
Game-Action <i>Game-Action</i>	Use this mode when playing action game discs.				
Game-Rock <i>Game-Rock</i>	Use this mode when playing rock game discs.				
Game-Sports <i>Game-Sports</i>	Use this mode when playing sports game discs.				
All Ch Stereo <i>All Ch St</i>	Ideal for background music, this mode fills the entire listening area with stereo sound from the front, surround, and surround back speakers.			MONO STEREO 5.1ch 7.1ch DTS-ES DDEX	3.1 5.1 7.1 ^{*9}
Full Mono <i>Full Mono</i>	In this mode, all speakers output the same sound in mono, so the sound you hear is the same regardless of where you are within the listening room.				
T-D (Theater-Dimensional) <i>T-D</i>	With this mode you can enjoy a virtual surround sound even with only two or three speakers. This works by controlling how sounds reach the listener's left and right ears. Good results may not be possible if there's too much reverb, so we recommend that you use this mode in an environment with little or no natural reverb.	2.1 3.1 5.1 7.1			

Note

- *1 When the input source contains the encoded front high channel, front high speakers output the sound.
 - *2 If there are no surround back speakers, or Powered Zone 2 is being used, Dolby Pro Logic II is used.
 - *3 Surround back speakers are not supported.
 - *4 Front high speakers are not supported.
 - *5 For the Blu-ray Discs, Dolby Digital is used in a 3.1/5.1-channel speaker system.
 - *6 AV receiver can input the DSD signal from **HDMI IN**. Setting the output setting on the player side to PCM might obtain a better sound according to the player. In that case, set the output setting on the player side to PCM.
 - *7 Depending on the input source, DTS is used.
 - *8 If there are no surround back speakers, DTS is used.
 - *9 Output can be switched between front high or surround back speakers by pressing **SP LAYOUT** [depending on the "Speaker Configuration" setting (→ 41)].
- The listening modes cannot be selected with some source formats.

Advanced Setup

On-screen Setup Menus

The on-screen setup menus appear only on a TV that is connected to the HDMI OUT. If your TV is connected to the composite video MONITOR OUT or the COMPONENT VIDEO OUT, use the AV receiver's display when changing settings.

This manual describes the procedure using the remote controller unless otherwise specified.

- | MENU | |
|------|----------------------------|
| ① | 1. Input/Output Assign |
| ② | 2. Speaker Setup |
| ③ | 3. Audio Adjust |
| ④ | 4. Source Setup |
| ⑤ | 5. Listening Mode Preset |
| ⑥ | 6. Miscellaneous |
| ⑦ | 7. Hardware Setup |
| ⑧ | 8. Remote Controller Setup |
| ⑨ | 9. Lock Setup |

① Input/Output Assign (→ 39)

- | 1. Input/Output Assign | |
|------------------------|-----------------------|
| 1. | Monitor Out |
| 2. | HDMI Input |
| 3. | Component Video Input |
| 4. | Digital Audio Input |

② Speaker Setup (→ 40)

- | 2. Speaker Setup | |
|------------------|-----------------------|
| 1. | Speaker Settings |
| 2. | Speaker Configuration |
| 3. | Speaker Distance |
| 4. | Level Calibration |
| 5. | Equalizer Settings |

③ Audio Adjust (→ 42)

- | 3. Audio Adjust | |
|-----------------|---------------------|
| 1. | Multiplex/Mono |
| 2. | Dolby |
| 3. | DTS |
| 4. | Theater-Dimensional |

④ Source Setup (→ 44)

- | 4. Source Setup | |
|-----------------|----------------|
| 1. | Audyssey |
| 2. | IntelliVolume |
| 3. | A/V Sync |
| 4. | Name Edit |
| 5. | Picture Adjust |

⑤ Listening Mode Preset (→ 47)

- | 5. Listening Mode Preset | |
|--------------------------|---------|
| 1. | BD/DVD |
| 2. | VCR/DVR |
| 3. | CSL/SAT |
| 4. | GAME |
| 5. | AUX |
| 6. | TUNER |
| 7. | TV/CD |
| 8. | PORT |

⑥ Miscellaneous (→ 48)

- | 6. Miscellaneous | |
|------------------|--------------|
| 1. | Volume Setup |
| 2. | OSD Setup |

⑦ Hardware Setup (→ 48)

- | 7. Hardware Setup | |
|-------------------|-----------|
| 1. | Remote ID |
| 2. | Tuner |
| 3. | HDMI |

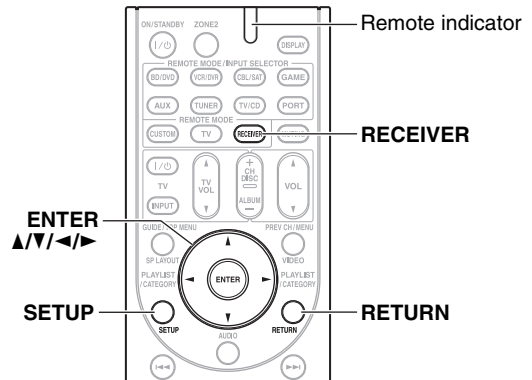
⑧ Remote Controller Setup (→ 60)

- | 8. Remote Controller Setup | |
|----------------------------|-------------------|
| | Remote Mode Setup |

⑨ Lock Setup (→ 50)

- | 9. Lock Setup | |
|---------------|------|
| | Lock |

Common Procedures in Setup Menu



The on-screen setup menus appear on the connected TV and provide a convenient way to change the AV receiver's various settings. Settings are organized into 9 categories on the **main menu**.

Carry out the settings by using the on-screen display.

1 Press RECEIVER followed by SETUP.

The following menu appears.

- | MENU | |
|------|-------------------------|
| 1. | Input/Output Assign |
| 2. | Speaker Setup |
| 3. | Audio Adjust |
| 4. | Source Setup |
| 5. | Listening Mode Preset |
| 6. | Miscellaneous |
| 7. | Hardware Setup |
| 8. | Remote Controller Setup |
| 9. | Lock Setup |

Tip

• If the main menu doesn't appear, make sure the appropriate external input is selected on your TV.

2 Use ▲/▼ to select a menu, and then press ENTER.

3 Use ▲/▼ to select target, and then press ENTER.

4 Use ▲/▼ to select option and use ◀/▶ to change the setting.

Press **SETUP** to close the menu.

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

Note

- This procedure can also be performed on the AV receiver by using **SETUP**, arrow buttons, and **ENTER**.
- During Audyssey 2EQ® Room Correction and Speaker Setup, messages, etc., that are displayed on the TV screen will appear in the Display.

Explanatory Notes

- ① — **Main menu** / **Speaker Setup**
- ② — **Subwoofer**
- ③ — **Yes:**
Select if a subwoofer is connected.
- No:**
Select if no subwoofer is connected.

- ① Menu selection
- ② Setting target
- ③ Setting options (default setting underlined)

Input/Output Assign

Main Menu / Input/Output Assign

Monitor Out

You can specify the output resolution for the **HDMI OUT** and have the AV receiver upconvert the picture resolution as necessary to match the resolution supported by your TV.

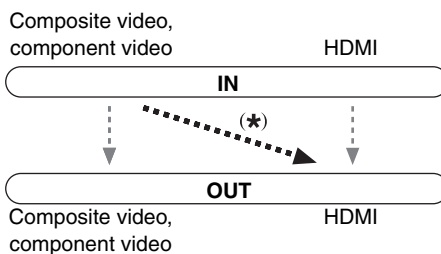
■ Resolution

- ▶ **Through:**
Select this to pass video through the AV receiver at the same resolution and with no conversion.
- ▶ **Auto:**
Select this to have the AV receiver automatically convert video at resolutions not supported by your TV.
- ▶ **480p:**
Select this for 480p output and video conversion as necessary.
- ▶ **720p:**
Select this for 720p output and video conversion as necessary.
- ▶ **1080i:**
Select this for 1080i output and video conversion as necessary.
- ▶ **1080p:**
Select this for 1080p output and video conversion as necessary.

HDMI Input

If you connect a video component to an HDMI input, you must assign that input to an input selector. For example, if you connect your Blu-ray Disc/DVD player to **HDMI IN 2**, you must assign “**HDMI2**” to the “**BD/DVD**” input selector.

If you’ve connected your TV to the AV receiver with an HDMI cable, composite video and component video sources can be upconverted* to HDMI. See “Video Connection Formats” for more information on video signal flow and upconversion (→ 23).



Here are the default assignments.

Input selector	Default assignment
BD/DVD	HDMI1
VCR/DVR	HDMI2
CBL/SAT	HDMI3
GAME	HDMI4
AUX	-----
TUNER	----- (Fixed)
TV/CD	-----
PORT	-----

■ BD/DVD, VCR/DVR, CBL/SAT, GAME, AUX, TV/CD, PORT

▶ HDMI1, HDMI2, HDMI3, HDMI4:

Select a corresponding HDMI input that the video component has been connected.

▶ -----:

Select this to output composite video and component video sources from the **HDMI OUT**. The video signal from HDMI output is configured in “Component Video Input” (→ 40).

- Each HDMI input cannot be assigned to two input selectors or more. When **HDMI1** - **HDMI4** have already been assigned, you must set first any unused input selectors to “-----” or you will be unable to assign **HDMI1** - **HDMI4** to input selector.

Note

- When an **HDMI IN** is assigned to an input selector as explained here, the same **HDMI IN** will be set as a priority in the “Digital Audio Input” (→ 40). In this case, if you want to use the coaxial or optical audio input, make the selection in the Audio Selector in the Audio menu (→ 26).
- “**TUNER**” selector cannot be assigned and is fixed at the “-----” option.
- If you connect a component (such as UP-A1 Dock that seated iPod) to **UNIVERSAL PORT** jack, you cannot assign any input to “**PORT**” selector.
- Do not assign the component connected with the HDMI input to “**TV/CD**” selector when you set “**TV Control**” setting to “**On**” (→ 50). Otherwise, appropriate CEC (Consumer Electronics Control) operation will not be guaranteed.

Component Video Input

If you connect a video component to a component video input, you must assign that input to an input selector. For example, if you connect your Blu-ray Disc/DVD player to **COMPONENT VIDEO IN 2**, you must assign “**IN2**” to the “**BD/DVD**” input selector.

Here are the default assignments.

Input selector	Default assignment
BD/DVD	IN1
VCR/DVR	-----
CBL/SAT	IN2
GAME	-----
AUX	-----
TUNER	----- (Fixed)
TV/CD	-----
PORT	-----

■ BD/DVD, VCR/DVR, CBL/SAT, GAME, AUX, TV/CD, PORT

▶ IN1, IN2:

Select a corresponding component video input that the video component has been connected.

▶ -----:

Select if you are using **HDMI** output, not component video output, to output composite video and component video sources.

Note

- If you connect a component (such as UP-A1 Dock that seated iPod) to the **UNIVERSAL PORT** jack, you cannot assign any input to “**PORT**” selector.

Digital Audio Input

If you connect a component to a digital audio input, you must assign that input to an input selector. For example, if you connect your CD player to the **OPTICAL IN 1**, you must assign “**OPT1**” to the “**TV/CD**” input selector.

Here are the default assignments.

Input selector	Default assignment
BD/DVD	COAX1
VCR/DVR	-----
CBL/SAT	COAX2
GAME	OPT1
AUX	-----
TUNER	----- (Fixed)
TV/CD	OPT2
PORT	-----

■ BD/DVD, VCR/DVR, CBL/SAT, GAME, AUX, TV/CD, PORT

▶ COAX1, COAX2, OPT1, OPT2:

Select a corresponding digital audio input that the component has been connected.

▶ -----:

Select if the component is connected to an analog audio input.

Note

- When an **HDMI IN** is assigned to an input selector in “**HDMI Input**” (→ 39), the same **HDMI IN** will be set as a priority in this assignment. In this case, if you want to use the coaxial or optical audio input, make the selection in the Audio Selector in the Audio menu.
- Available sampling rate for PCM signals from a digital input (optical and coaxial) is 32/44.1/48/88.2/96 kHz/16, 20, 24 bit.
- If you connect a component (such as UP-A1 Dock that seated iPod) to the **UNIVERSAL PORT** jack, you cannot assign any input to “**PORT**” selector.

Speaker Setup

Main menu

Speaker Setup

Some of the settings in this section are set automatically by Audyssey 2EQ® Room Correction and Speaker Setup function (→ 28).

Here you can check the settings made by Audyssey 2EQ Room Correction and Speaker Setup function, or set them manually, which is useful if you change one of the connected speakers after using Audyssey 2EQ Room Correction and Speaker Setup function.

Note

- These settings are disabled when:
 - a pair of headphones is connected, or
 - the “**Audio TV Out**” setting is set to “**On**” (→ 49) and an input selector other than **HDMI** is selected.

Speaker Settings

If you change these settings, you must run Audyssey 2EQ Room Correction and Speaker Setup again (→ 28).

■ Speaker Terminal Assign

Front High/Zone2

With this setting, you can specify the speakers connected to **FRONT HIGH OR ZONE 2 SPEAKERS** terminals.

▶ Front High:

Front high speakers can be used.

▶ Zone2:

Zone 2 speakers can be used (Powered Zone 2 enabled).

SurrBack/Front High

With this setting, you can specify the speakers connected to **SURR BACK OR FRONT HIGH SPEAKERS** terminals.

▶ Surr Back:

Surround back speakers can be used.

▶ Front High:

Front high speakers can be used.

Note

- If “**Front High**” is selected in the “**Front High/Zone2**” setting, you cannot select “**Front High**” here.

Speaker Configuration

This setting is set automatically by Audyssey 2EQ® Room Correction and Speaker Setup function (→ 28).

With these settings, you can specify which speakers are connected and a crossover frequency for each speaker. Specify “**Full Band**” for speakers that can output low frequency bass sounds adequately, for example, speakers with a good sized woofer. For smaller speakers, specify a crossover frequency. Sounds below the crossover frequency will be output by the subwoofer instead of the speaker. Refer to your speaker’s manuals to determine the optimum crossover frequencies.

■ Subwoofer

▶ **Yes:**

Select if a subwoofer is connected.

▶ **No:**

Select if no subwoofer is connected.

■ Front

▶ **Full Band**

▶ **40Hz** to **100Hz, 120Hz, 150Hz, 200Hz**

Note

- If the “**Subwoofer**” setting is set to “**No**”, the “**Front**” setting is fixed at “**Full Band**”.

■ Center*1, Surround*1, Surr Back*2*3*4*5

▶ **Full Band**

▶ **40Hz** to **100Hz, 120Hz, 150Hz, 200Hz**

▶ **None:**

Select if no speaker is connected.

■ Front High*1*2*4*6

▶ **Full Band**

▶ **40Hz** to **100Hz, 120Hz, 150Hz, 200Hz**

▶ **None:**

Select if no speaker is connected.

Note

- *1 “**Full Band**” can be selected only when “**Full Band**” is selected in the “**Front**” setting.
- *2 If the “**Surround**” setting is set to “**None**”, this setting cannot be selected.
- *3 If the “**Surround**” setting is set to anything other than “**Full Band**”, “**Full Band**” cannot be selected here.
- *4 If the Powered Zone 2 is being used (→ 54), this setting cannot be selected.
- *5 If you have selected other than “**Surr Back**” in the “**Surr-Back/Front High**” setting, this setting cannot be selected.
- *6 If you have selected other than “**Front High**” in the “**Front High/Zone2**” or “**SurrBack/Front High**” setting, this setting cannot be selected.

■ Surr Back Ch

▶ **1ch:**

Select if only one surround back speaker is connected.

▶ **2ch:**

Select if two (left and right) surround back speakers are connected.

Note

- If the “**Surr Back**” Setting is set to “**None**” (→ 48), this setting cannot be selected.

■ LPF of LFE

(Low-Pass Filter for the LFE Channel)

▶ **80Hz, 90Hz, 100Hz, 120Hz**

With this setting, you can specify the cutoff frequency of the LFE channel’s low-pass filter (LPF), which can be used to filter out unwanted hum. The LPF only applies to sources that use the LFE channel.

■ Double Bass

This setting is NOT set automatically by Audyssey 2EQ Room Correction and Speaker Setup function (→ 28).

With the Double Bass function, you can boost bass output by feeding bass sounds from the front left, right, and center channels to the subwoofer.

▶ **On:**

Double Bass function on.

▶ **Off:**

Double Bass function off.

Note

- This function can be set only if the “**Subwoofer**” setting is set to “**Yes**”, and the “**Front**” setting is set to “**Full Band**”.

Speaker Distance

This setting is set automatically by Audyssey 2EQ Room Correction and Speaker Setup function (→ 28).

Here you can specify the distance from each speaker to the listening position so that the sound from each speaker arrives at the listener’s ears as the sound designer intended.

■ Unit

▶ **feet:**

Distances can be set in feet. Range: “**1ft**” to “**30ft**” in 1 foot steps.

▶ **meters:**

Distances can be set in meters. Range: “**0.3m**” to “**9.0m**” in 0.3 meter steps.

■ Left, Front High Left, Center, Front High Right, Right, Surr Right, Surr Back Right, Surr Back Left, Surr Left, Subwoofer

▶ Specify the distance from the each speaker to your listening position.

Note

- Speakers that you set to “**No**” or “**None**” in the “**Speaker Configuration**” cannot be selected (→ 41).

Level Calibration

This setting is set automatically by Audyssey 2EQ® Room Correction and Speaker Setup function (→ 28).

Here you can adjust the level of each speaker with the built-in test tone so that the volume of each speaker is the same at the listening position.

■ Left, Front High Left, Center*1, Front High Right, Right, Surr Right, Surr Back Right, Surr Back Left, Surr Left

▶ **-12dB** to **0dB** to **+12dB** in 1 dB step.

■ Subwoofer*1

▶ **-15dB** to **0dB** to **+12dB** in 1 dB step.

Note

- Speakers that you set to “No” or “None” in the “Speaker Configuration” cannot be selected (→ 41).
- The speakers cannot be calibrated while the AV receiver is muted.

*1 For the center speaker and subwoofer, the level settings made by using the Audio menu are saved here as the default settings (→ 26).

Tip

- If you're using a handheld sound level meter, adjust the level of each speaker so that it reads 75 dB SPL at the listening position, measured with C-weighting and slow reading.

Equalizer Settings

This setting is set automatically by Audyssey 2EQ Room Correction and Speaker Setup function (→ 28).

■ Equalizer

▶ Audyssey:

This is selected automatically by Audyssey 2EQ Room Correction and Speaker Setup function. The **Audyssey** indicator will light (→ 9) and “Dynamic EQ” and “Dynamic Volume” become available (→ 44).

▶ Off:

No Audyssey 2EQ equalizing will apply.

Note

- While the Direct listening mode is selected, this setting has no effect.
- Audyssey equalizing does not work for DSD sources.

Audio Adjust

Main menu

Audio Adjust

With the Audio Adjust functions and settings, you can adjust the sound and listening modes as you like.

Multiplex/Mono

■ Multiplex

This setting determines which channel of a stereo multiplex source is output. Use it to select audio channels or languages with multiplex sources, multilingual TV broadcasts, and so on.

Input Channel

▶ Main:

The main channel is output.

▶ Sub:

The sub channel is output.

▶ Main/Sub:

Both the main and sub channels are output.

■ Mono

This setting specifies the channel to be used for playing any 2-channel digital source such as Dolby Digital, or 2-channel analog/PCM source in the Mono listening mode.

Input Channel

▶ Left + Right:

Both the left and right channels are output.

▶ Left:

Only the left channel is output.

▶ Right:

Only the right channel is output.

Dolby

■ PLIIx Music (2ch Input)

These settings apply to only 2-channel stereo sources. If you're not using any surround back speakers, these settings apply to Dolby Pro Logic II, not Dolby Pro Logic IIx.

Panorama

▶ On:

Panorama function on.

▶ Off:

Panorama function off.

With this setting, you can broaden the width of the front stereo image when using the Dolby Pro Logic IIx Music listening mode.

Dimension

▶ -3 to 0 to +3

With this setting, you can move the sound field forward or backward when using the Dolby Pro Logic IIx Music listening mode. Higher settings move the sound field backward. Lower settings move it forward.

If the stereo image feels too wide, or there's too much surround sound, move the sound field forward to improve the balance. Conversely, if the stereo image feels like it's in mono, or there's not enough surround sound, move it backward.

Center Width

▶ 0 to 3 to 7

With this setting, you can adjust the width of the sound from the center speaker when using the Dolby Pro Logic IIx Music listening mode. Normally, if you're using a center speaker, the center channel sound is output by only the center speaker. (If you're not using a center speaker, the center channel sound will be distributed to the front left and right speakers to create a phantom center). This setting controls the front left, right, and center mix, allowing you to adjust the weight of the center channel sound.

■ PLIIz Height Gain

The Height Gain Control in Dolby Pro Logic IIz enables the listener to select how much gain is applied to the front high speakers. There are three settings, "Low", "Mid" and "High", and the front high speakers are accentuated in that order. While "Mid" is the default listening setting, the listener may adjust the Height Gain Control to their personal preference.

▶ **Low:**

Low PLIIz Height Gain becomes active.

▶ **Mid:**

Medium PLIIz Height Gain becomes active.

▶ **High:**

High PLIIz Height Gain becomes active.

Note

- If the "Front High" settings is set to "None" (→ 40), this setting cannot be selected.

■ Dolby EX

This setting determines how Dolby EX encoded signals are handled. This setting is unavailable if no surround back speakers are connected. This setting is effective with Dolby Digital, Dolby Digital Plus and Dolby TrueHD only.

Dolby EX

▶ **Auto:**

If the source signal contains a Dolby EX flag, the Dolby EX listening mode is used.

▶ **Manual:**

You can select any available listening mode.

Note

- If the "Surr Back" setting is set to "None" (→ 41), this setting cannot be selected.
- If the "Front High" setting is enabled (→ 40), this setting is fixed at "Manual".

DTS

■ Neo:6 Music

Center Image

▶ 0 to 2 to 5

The DTS Neo:6 Music listening mode creates 6-channel surround sound from 2-channel stereo sources. With this setting, you can specify by how much the front left and right channel output is attenuated in order to create the center channel.

Setting a value "0" in the middle is set to hear a sound. Sound is spread in left and right (the outside) so that the set value is made big. Please adjust by liking.

Theater-Dimensional

■ Listening Angle

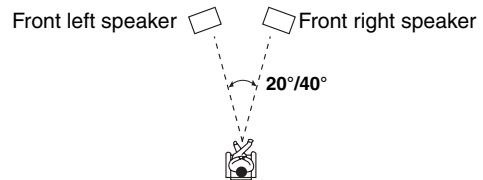
▶ **Wide:**

Select if the listening angle is 40 degrees.

▶ **Narrow:**

Select if the listening angle is 20 degrees.

With this setting, you can optimize the Theater-Dimensional listening mode by specifying the angle of the front left and right speakers relative to the listening position. Ideally, the front left and right speakers should be equidistant from the listening position and at an angle close to one of the two available settings.



Source Setup

Items can be set individually for each input selector.

Preparation

Press the input selector buttons to select an input source.

Main menu

Source Setup

Audyssey

When Audyssey 2EQ® Room Correction and Speaker Setup is complete, the “**Equalizer**” setting (→ 42) will be set to “**Audyssey**” and the “**Dynamic EQ**” will be set to “**On**”.

Dynamic EQ

▶ Off:

Audyssey Dynamic EQ® off.

▶ On:

Audyssey Dynamic EQ on.

The **Dynamic EQ** indicator will light (→ 9).

With Audyssey Dynamic EQ, you can enjoy great sound even when listening at low volume levels.

Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. It does so by selecting the correct frequency response and surround volume levels moment-by-moment so that the content sounds the way it was created at any volume level — not just at reference level.

Note

- If Direct listening mode is selected, this setting cannot be selected.

Reference Level

Audyssey Dynamic EQ Reference Level Offset

▶ 0dB:

It should be used when listening to movies.

▶ 5dB:

Select this setting for content that has a very wide dynamic range, such as classical music.

▶ 10dB:

Select this setting for jazz or other music that has a wider dynamic range. This setting should also be selected for TV content as that is usually mixed at 10 dB below film reference.

▶ 15dB:

Select this setting for pop/rock music or other program material that is mixed at very high listening levels and has a compressed dynamic range.

Movies are mixed in rooms calibrated for film reference. To achieve the same reference level in a home theater system each speaker level must be adjusted so that -30 dBFS band-limited (500 Hz to 2000 Hz) pink noise produces 75 dB sound pressure level at the listening position. A home theater system automatically calibrated by Audyssey 2EQ will play at reference level when the master volume control is set to the 0 dB position. At that level you can hear the mix as the mixers heard it.

Audyssey Dynamic EQ is referenced to the standard film mix level. It makes adjustments to maintain the reference response and surround envelopment when the volume is turned down from 0 dB. However, film reference level is not always used in music or other non-film content. Audyssey Dynamic EQ Reference Level Offset provides three offsets from the film level reference (5 dB, 10 dB, and 15 dB) that can be selected when the mix level of the content is not within the standard.

Note

- If “**Dynamic EQ**” setting is set to “**Off**”, this setting cannot be selected.

Dynamic Volume

▶ Off:

Audyssey Dynamic Volume® off.

▶ Light:

Light Compression Mode becomes active.

▶ Medium:

Medium Compression Mode becomes active.

▶ Heavy:

Heavy Compression Mode becomes active. This setting affects volume the most, causing all sounds to be of equal loudness.

Note

- Even if you have selected other than “**Audyssey**” in “**Equalizer**” setting after performing Audyssey 2EQ Room Correction and Speaker Setup, selecting “**On**” in the “**Dynamic EQ**” will change the “**Equalizer**” setting to “**Audyssey**” (→ 42).
- When “**Dynamic Volume**” is set to effective, “**Equalizer**” setting is set to “**Audyssey**” (→ 42) and “**Dynamic EQ**” is set to “**On**”. When “**Dynamic EQ**” is set to “**Off**”, “**Dynamic Volume**” becomes “**Off**” automatically.
- When “**Dynamic Volume**” is set to effective, the **Dynamic Vol** indicator will light (→ 9).
- If Direct listening mode is selected, this setting cannot be selected.

Audyssey 2EQ then removes the distortion caused by room acoustics by capturing room acoustical problems over the listening area in both the frequency and time domain. The result is clear, well-balanced sound for everyone. Enabling Audyssey 2EQ allows you to also use Audyssey Dynamic EQ, which maintains the proper octave-to-octave balance at any volume level.

Before using this function, connect and position all of your speakers.

About Audyssey Dynamic EQ

Audyssey Dynamic EQ solves the problem of deteriorating sound quality as volume is decreased by taking into account human perception and room acoustics. Dynamic EQ selects the correct frequency response and surround levels moment-by-moment at any user-selected volume setting. The result is bass response, tonal balance, and surround impression that remain constant despite changes in volume. Dynamic EQ combines information from incoming source levels with actual output sound levels in the room, a prerequisite for delivering a loudness correction solution. Audyssey Dynamic EQ works in tandem with Audyssey 2EQ to provide well-balanced sound for every listener at any volume level.

About Audyssey Dynamic Volume®

Audyssey Dynamic Volume solves the problem of large variations in volume level between television programs, commercials, and between the soft and loud passages of movies. Dynamic Volume looks at the preferred volume setting by the user and then monitors how the volume of program material is being perceived by listeners in real time to decide whether an adjustment is needed. Whenever necessary, Dynamic Volume makes the necessary rapid or gradual adjustments to maintain the desired playback volume level while optimizing the dynamic range. Audyssey Dynamic EQ® is integrated into Dynamic Volume so that as the playback volume is adjusted automatically, the perceived bass response, tonal balance, surround impression, and dialog clarity remain the same whether watching movies, flipping between television channels, or changing from stereo to surround sound content.

IntelliVolume

■ IntelliVolume

▶ **-12dB** to **0dB** to **+12dB** in 1 dB steps.

With IntelliVolume, you can set the input level for each input selector individually. This is useful if one of your source components is louder or quieter than the others.

Use ◀/▶ to set the level.

If a component is noticeably louder than the others, use ◀ to reduce its input level. If it's noticeably quieter, use ▶ to increase its input level.

A/V Sync

■ A/V Sync

▶ **0ms** to **200ms** in 10 ms steps.

When using your DVD player's progressive scanning function, you may find that the picture and sound are out of sync. With the A/V Sync setting, you can correct this by applying a delay to the audio signal.

To view the TV picture while setting the delay, press **ENTER**.

To return to the previous screen, press **RETURN**.

If HDMI Lip Sync is enabled (→ **49**) and your TV or display supports HDMI Lip Sync, the displayed delay time will be the summation of the A/V Sync delay time and the HDMI Lip Sync delay time. The HDMI Lip Sync delay time is displayed underneath in parentheses.

Note

- A/V Sync is disabled when the Direct listening mode is used with an analog input source.

Name Edit

You can enter a custom name for each individual input selector (excluding **TUNER**) and radio preset for easy identification. When entered, the custom name will appear on the display.

The custom name is edited using the character input screen.

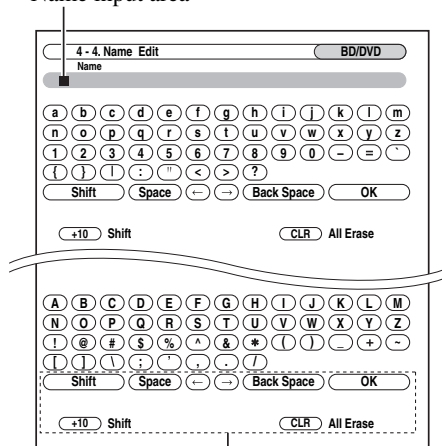
■ Name

1 Use ▲/▼/◀/▶ to select a character, and then press **ENTER**.

Repeat this step to enter up to 10 characters.

2 When you've finished, to store a name, be sure to use ▲/▼/◀/▶ to select **"OK"**, and then press **ENTER**. Otherwise it will not be saved.

Name input area



Shift*1:

Switches the displayed character.

Space:

Enters a space character.

◀ (Left)/ ▶ (Right):

Selected when the cursor is moved within the Name input area.

Back Space*2:

"Back Space" moves the cursor backward one character space. In addition, "Back Space" deletes the character to the left of the cursor.

OK:

Selects when the entry is complete.

Tip

- *1 You can also be performed on the remote controller by using **+10**.
- *2 Press **CLR** on the remote controller, you can delete all characters in the input.

To correct a character:

- 1 Use ▲/▼/◀/▶ to select “←”(Left) or “→”(Right), and then press **ENTER**.
- 2 Press **ENTER** several times to select the incorrect character (The cursor moves one letter each time **ENTER** is pressed).
- 3 Use ▲/▼/◀/▶ to select the correct character, and then press **ENTER**.

Note

- To name a radio preset, use **TUNER** to select AM or FM, and then select the preset (→ 31).

To restore a custom name to the default, erase the custom name by entering an empty white space for each letter.

Picture Adjust

Using “**Picture Adjust**”, you can adjust the picture quality and reduce any noise appearing on the screen.

To view the TV picture while setting, press **ENTER**. To return to the previous screen, press **RETURN**.

■ Game Mode

▶ Off:

Game Mode off.

▶ On:

Game Mode on.

If video signal delay occurs during playback on a video component (i.e. game console), select the corresponding input source and set the “**Game Mode**” setting to “**On**”. The delay will decrease but in return the picture quality will become poor.

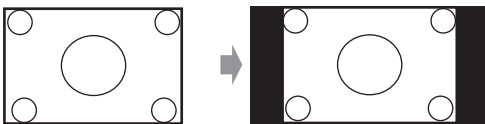
■ Wide Mode*1*2

This setting determines the aspect ratio.

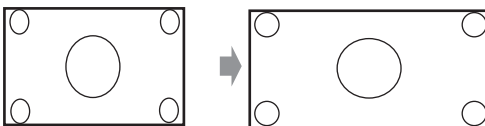
Note

- When the “**Game Mode**” is set to “**On**”, this setting is fixed at “**Full**”.

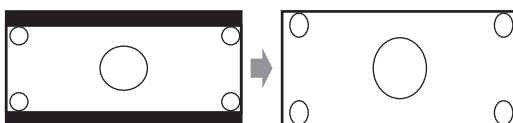
▶ 4:3:



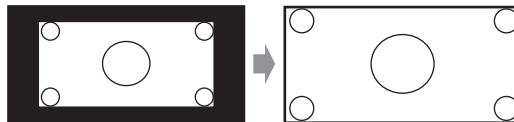
▶ Full:



▶ Zoom:



▶ Wide Zoom:



▶ Auto:

According to the input signals and monitor output setting, the AV receiver automatically selects the “**4 : 3**”, “**Full**”, “**Zoom**” or “**Wide Zoom**”. For the monitor output setting (→ 39).

■ Picture Mode*1*2

▶ Thru:

The following settings are set to the default values: “**Film Mode**”, “**Edge Enhancement**”, “**Noise Reduction**”, “**Brightness**”, “**Contrast**”, “**Hue**” and “**Saturation**”

▶ Custom:

You can set the following settings as you like: “**Film Mode**”, “**Edge Enhancement**”, “**Noise Reduction**”, “**Brightness**”, “**Contrast**”, “**Hue**” and “**Saturation**”

▶ Cinema:

Selected when the picture source is movie film, etc.

▶ Game:

Select to use in connecting a game console.

With “**Picture Mode**”, you can change the following settings to be suitable for the movie or game screen by one operation; “**Film Mode**”, “**Edge Enhancement**”, “**Noise Reduction**”, “**Brightness**”, “**Contrast**”, “**Hue**” or “**Saturation**”.

■ Film Mode*2

▶ Video:

Does not process in either “**3 : 2**” or “**2 : 2**”.

▶ Auto:

Adjusts to the picture source, automatically selecting “**Film Mode**”.

▶ 3 : 2:

Selected when the picture source is movie film, etc.

▶ 2 : 2:

Selected when the picture source is computer graphics, animation, etc.

The AV receiver will adjust to the picture source, processing in either “**3 : 2**” or “**2 : 2**” (**Film Mode**). It automatically converts the source to the appropriate progressive signal and reproduces the natural quality of the original picture.

When the “**Film Mode**” setting is set to “**Auto**”, the AV receiver automatically detects the picture source and in either “**3 : 2**” or “**2 : 2**”. However, there may be times when you will get a better picture by setting “**Film Mode**” yourself.

Note

- If the “**Game Mode**” setting is set to “**On**” (→ 46), this setting is fixed at “**Video**”.

■ Edge Enhancement*2

▶ **0** to **+10**

With this setting you can adjust the sharpness of edges in the picture. “**0**” is the softest. “**+10**” is the sharpest.

■ Noise Reduction*2

▶ **Off**:

Noise reduction off.

▶ **Low**:

Low noise reduction.

▶ **Mid**:

Medium noise reduction.

▶ **High**:

High noise reduction.

With this setting, you can reduce noise appearing on the screen.

Note

- If the “**Game Mode**” setting is set to “**On**” (→ **46**), this setting is fixed at “**Off**”.

■ Brightness*1*2

▶ **-50** to **0** to **+50**

With this setting you can adjust the picture brightness. “**-50**” is the darkest. “**+50**” is the brightest.

■ Contrast*1*2

▶ **-50** to **0** to **+50**

With this setting you can adjust contrast. “**-50**” is the least. “**+50**” is the greatest.

■ Hue*1*2

▶ **-20** to **0** to **+20**

With this setting you can adjust the red/green balance. “**-20**” is the strongest green. “**+20**” is the strongest red.

■ Saturation*1*2

▶ **-50** to **0** to **+50**

With this setting you can adjust saturation. “**-50**” is the weakest color. “**+50**” is the strongest color.

Tip

*1 This procedure can also be performed on the remote controller by using the Video menu (→ **26**).

*2 Press **CLR** if you want to reset to the default value.

Listening Mode Preset

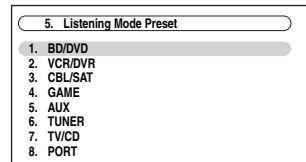
You can assign a default listening mode to each input source that will be selected automatically when you select each input source. For example, you can set the default listening mode to be used with Dolby Digital input signals. You can select other listening modes during playback, but the mode specified here will be resumed once the AV receiver has been set to Standby.

Main menu

Listening Mode Preset

1 Use **▲/▼** to select the input source that you want to set, and then press **ENTER**.

The following menu appears.



For **TUNER** input selector only “**Analog**” will be available.

Note

- If you connect an input component (such as UP-A1 series Dock that seated iPod) to the **UNIVERSAL PORT** jack, you can assign only listening modes for the analog sound to “**PORT**” selector.

2 Use **▲/▼** to select the signal format that you want to set, and then use **◀/▶** to select a listening mode.

Only listening modes that can be used with each input signal format can be selected (→ **34** to **37**).

The “**Last Valid**” option means that the listening mode selected last will be used.

■ Analog / PCM

With this setting, you can specify the listening mode to be used when an analog (CD, TV, LD, VHS, MD, turntable, radio, cassette, cable, satellite, etc.) or PCM digital (CD, DVD, etc.) audio signal is played.

■ Mono/Multiplex Source

With this setting, you can specify the listening mode to be used when a mono digital audio signal is played (DVD, etc.).

■ 2ch Source

With this setting, you can specify the default listening mode for 2-channel (2/0) stereo sources in a digital format, such as Dolby Digital or DTS.

■ Dolby D/Dolby D +/TrueHD

With this setting, you can specify the listening mode to be used when a Dolby Digital or Dolby Digital Plus format digital audio signal is played (DVD, etc.). Specifies the default listening mode for Dolby TrueHD sources, such as Blu-ray or HD DVD (input via HDMI).

■ DTS/DTS-ES/DTS-HD

With this setting, you can specify the listening mode to be used when a DTS or DTS-HD High Resolution Audio format digital audio signal is played (DVD, LD, CD, etc.). Specifies the default listening mode for DTS-HD Master Audio sources, such as Blu-ray or HD DVD (input via HDMI).

■ Other Multich Source

With this setting, you can specify the default listening mode for multichannel PCM sources from **HDMI IN** such as DVD-Audio, and DSD multichannel sources such as Super Audio CD.

Volume Setup

■ Maximum Volume

▶ **Off**, 30 to 79

With this setting, you can limit the maximum volume.

To disable this setting, select “Off”.

■ Power On Volume

▶ **Last**, Min, 1 to 79 or Max

With this preference, you can specify the volume setting to be used each time the AV receiver is turned on.

To use the same volume level that was used when the AV receiver was turned off, select “Last”.

The “Power On Volume” cannot be set higher than the “Maximum Volume” setting.

■ Headphone Level

▶ -12dB to **0dB** to +12dB

With this preference, you can specify the headphone volume relative to the main volume. This is useful if there's a volume difference between your speakers and your headphones.

OSD Setup

■ On Screen Display

This preference determines whether operation details are displayed on-screen when an AV receiver function is adjusted.

▶ **On**:

Displayed.

▶ **Off**:

Not displayed.

Even when “On” is selected, operation details may not be output if the input source is connected to an **HDMI IN**.

■ Language

▶ **English**, Deutsch, Français, Español, Italiano, Nederlands, Svenska, 中文

This setting determines the language used for the on-screen setup menus.

Remote ID

■ Remote ID

▶ **1**, 2, or 3

When several Onkyo components are used in the same room, their remote ID codes may overlap. To differentiate the AV receiver from the other components, you can change its remote ID from “1”, to “2” or “3”.

Note

- If you do change the AV receiver's remote ID, be sure to change the remote controller to the same ID (see below), otherwise, you won't be able to control it with the remote controller.

Changing the Remote Controller's ID

1 While holding down **RECEIVER**, press and hold down **SETUP** until the remote indicator lights (about 3 seconds) (→ 38).

2 Use the number buttons to enter ID 1, 2, or 3. The remote indicator flashes twice.

Tuner

For FM/AM tuning to work properly, you must specify the FM/AM frequency step used in your area. Note that when this setting is changed, all radio presets will be deleted.

■ FM/AM Frequency Step

▶ **200k/10kHz**:

Select if 200 k/10 kHz steps are used in your area.

▶ **50k/9kHz**:

Select if 50 k/9 kHz steps are used in your area.

■ Audio TV Out

▶ **Off:**

The audio is not output from the HDMI output.

▶ **On:**

The audio is output from the HDMI output.

This preference determines whether the incoming audio signal is output from the **HDMI OUT**. You may want to turn this preference on if your TV is connected to the **HDMI OUT** and you want to listen to the audio from a connected component through your TV's speakers. Normally, this should be set to "**Off**".

Note

- Listening mode cannot be changed when this setting is set to "**On**" and the input source is not HDMI.
- If "**On**" is selected and the audio can be output from the TV, the AV receiver will output no sound through its speakers. In this case, "**TV Sp On**" appears on the display.
- When "**TV Control**" is set to "**On**" (→ **50**), this setting is fixed to "**Auto**".
- With some TVs and input signals, no sound may be output even when this setting is set to "**On**".
- When the "**Audio TV Out**" setting is set to "**On**", or "**TV Control**" is set to "**On**" (→ **50**) and you're listening through your TV's speakers (→ **19**), if you turn up the AV receiver's volume control, the sound will be output by the AV receiver's front left and right speakers. To stop the AV receiver's speakers producing sound, change the settings, change your TV's settings, or turn down the AV receiver's volume.

■ Lip Sync

▶ **Disable:**

HDMI lip sync disabled.

▶ **Enable:**

HDMI lip sync enabled.

The AV receiver can be set to automatically correct any delay between the video and the audio, based on the data from the connected monitor.

Note

- This function works only if your HDMI-compatible TV supports HDMI Lip Sync.
- You can check the amount of delay being applied by the HDMI Lip Sync function on the A/V Sync screen.

■ HDMI Control (RIHD)

▶ **Off:**

RIHD disabled.

▶ **On:**

RIHD enabled.

This function allows **RIHD**-compatible components connected via HDMI to be controlled with the AV receiver (→ **72** to **73**).

Note

- When set to "**On**" and close the menu, the name of connected **RIHD**-compatible components and "**RIHD On**" are displayed on the AV receiver.
"**Search...**" → "(name)" → "**RIHD On**"
When the AV receiver cannot receive the name of the component, it is displayed as "**Player***" or "**Recorder***", etc ("*" means the number of two or more component).
When set to "**Off**" and close the menu, "**RIHD Off**" are displayed on the AV receiver.
"**Disconnect**" → "**RIHD Off**"
- When an **RIHD**-compatible component is connected to the AV receiver via the HDMI cable, the name of the connected component is displayed on the AV receiver display. For example, while you are watching TV broadcasting, if you operate a Blu-ray Disc/DVD player (being powered on) by the remote control of the AV receiver, the name of the Blu-ray Disc/DVD player is displayed on the AV receiver.
- Set to "**Off**" when a connected piece of equipment is not compatible or it is unclear whether the equipment is compatible or not.
- If movement is unnatural when set to "**On**", change the setting to "**Off**".
- Refer to the connected component's instruction manual for details.
- When the source equipment is connected with the **RI** connection, it may malfunction if "**HDMI Control (RIHD)**" is set to "**On**".

■ Audio Return Channel

▶ **Off:**

Select "**Off**" if you don't want to use audio return channel (ARC) function.

▶ **Auto:**

The audio signal from your TV tuner can be sent to the **HDMI OUT** of the AV receiver.

Audio return channel (ARC) function enables an HDMI (Audio Return Channel) capable TV to send the audio stream to the **HDMI OUT** of the AV receiver. To use this function, you must select the **TV/CD** input selector and your TV must support ARC function.

Note

- The "**Audio Return Channel**" setting can be set only when the "**HDMI Control (RIHD)**" setting is set to "**On**".
- This setting is set to "**Auto**" automatically when the "**HDMI Control (RIHD)**" is set to "**On**" first time.

■ Power Control

▶ **Off:**

Power Control disabled.

▶ **On:**

Power Control enabled.

To link the power functions of **RIHD**-compatible components connected via HDMI, select "**On**".

This setting is set to "**On**" automatically when the "**HDMI Control (RIHD)**" is set to "**On**" first time.

Note

- The “**Power Control**” setting can be set only when the “**HDMI Control (RIHD)**” setting is set to “**On**”.
- HDMI power control only works with **RIHD**-compatible components that support it and may not work properly with some components due to their settings or compatibility.
- When set to “**On**”, power consumption will increase.
- When set to “**On**”, regardless of whether the AV receiver is On or in Standby, both audio and video stream from an HDMI input will be output to the TV or other components via HDMI connection (HDMI pass through function). When the HDMI pass through function activates in standby mode, **HDMI THRU** indicator will light.
- The power consumption during standby mode will increase during the HDMI pass through function; however if your TV supports CEC (Consumer Electronics Control), the power consumption can be saved in the following cases:
 1. The TV is in standby mode.
 2. You are watching a TV program.
- Refer to the connected component’s instruction manual for details.

■ TV Control

▶ Off:

TV Control disabled.

▶ On:

TV Control enabled.

Set to “**On**” when you want to control the AV receiver from an **RIHD**-compatible TV that is connected to HDMI.

Note

- Do not assign the component connected with the HDMI input to the **TV/CD** selector when you set “**TV Control**” setting to “**On**”. Otherwise, appropriate CEC (Consumer Electronics Control) operation is not guaranteed.
- Set to “**Off**” when the TV is not compatible or when it is unclear whether the TV is compatible or not.
- The “**TV Control**” setting can be set only when the “**HDMI Control (RIHD)**” (→ 49) and “**Power Control**” (→ 49) settings are both set to “**On**”.
- Refer to the connected component’s instruction manual for details.

After changing the settings of the “**HDMI Control (RIHD)**”, “**Audio Return Channel**”, “**Power Control**”, or “**TV Control**”, turn off the power to all connected pieces of equipment and then turn them on again. Refer to the user’s manuals for all connected pieces of equipment.

Lock Setup

With this preference, you can protect your settings by locking the setup menus.

Main menu

Lock Setup

■ Setup

▶ Locked:

Setup menus locked.

▶ Unlocked:

Setup menus not locked.

When the setup menus are locked, you cannot change any setting.

Using the Audio Settings

You can change various audio settings by pressing **AUDIO** (→ 26).

1 Press **RECEIVER** followed by **AUDIO**.

2 Use **▲/▼** to select “**Audio**”, and then use **▲/▼/◀/▶** to make the desired selection.

Note

- These settings are disabled when:
 - a pair of headphones is connected, or
 - the “**Audio TV Out**” setting is set to “**On**” (→ 49) and an input selector other than **HDMI** is selected.

Tone Control Settings

You can adjust the bass and treble for the front speakers, except when the Direct listening mode is selected.

■ Bass

▶ **-10dB** to **0dB** to **+10dB** in 2 dB steps.

You can boost or cut low-frequency sounds.

■ Treble

▶ **-10dB** to **0dB** to **+10dB** in 2 dB steps.

You can boost or cut high-frequency sounds.

Operating on the AV receiver

1 Press **TONE** on the AV receiver repeatedly to select either “**Bass**” or “**Treble**”.

2 Use **TONE LEVEL +/-** on the AV receiver to adjust.

Speaker Levels

You can adjust the volume of each speaker while listening to an input source.

These temporary adjustments are cancelled when the AV receiver is set to Standby. To save the setting you made here, go to “Level Calibration” (→ 42) before setting the AV receiver to Standby.

■ Subwoofer Level

▶ **-15dB** to **0dB** to **+12dB** in 1 dB steps.

■ Center Level

▶ **-12dB** to **0dB** to **+12dB** in 1 dB steps.

Note

- You cannot use this function while the AV receiver is muted.
- Speakers that are set to “No” or “None” in the “Speaker Configuration” (→ 41) cannot be adjusted.

Audyssey Settings

■ Dynamic EQ

See “Dynamic EQ” in “Source Setup” (→ 44).

■ Dynamic Volume

See “Dynamic Volume” in “Source Setup” (→ 44).

Late Night

With the Late Night function, you can reduce the dynamic range of Dolby Digital material so that you can still hear quiet parts even when listening at low volume levels—ideal for watching movies late at night when you don’t want to disturb anyone.

■ Late Night

For **Dolby Digital** and **Dolby Digital Plus** sources, the options are:

- ▶ **Off:**
Late Night function off.
- ▶ **Low:**
Small reduction in dynamic range.
- ▶ **High:**
Large reduction in dynamic range.

For **Dolby TrueHD** sources, the options are:

- ▶ **Auto:**
The Late Night function is set to “On” or “Off” automatically.
- ▶ **Off:**
Late Night function off.
- ▶ **On:**
Late Night function on.

Note

- The effect of the Late Night function depends on the material that you are playing and the intention of the original sound designer, and with some material there will be little or no effect when you select the different options.
- The Late Night function can be used only when the input source is Dolby Digital, Dolby Digital Plus, or Dolby TrueHD.
- The Late Night function is set to “Off” when the AV receiver is set to Standby. For Dolby TrueHD sources, it will be set to “Auto”.

Music Optimizer

The Music Optimizer function enhances the sound quality of compressed music files. Use it with music files that use “lossy” compression, such as MP3.

■ Music Optimizer

- ▶ **Off:**
Music Optimizer off.
- ▶ **On:**
Music Optimizer on. The **M.Opt** indicator will light (→ 9).

Note

- The Music Optimizer function only works with PCM digital audio input signals with a sampling rate below 48 kHz and analog audio input signals. The Music Optimizer is disabled when the Direct listening mode is selected.
- The setting is stored individually for each input selector.

Cinema Filter

With the Cinema Filter, you can soften overly bright movie soundtracks, which are typically mixed for reproduction in a movie theater.

Cinema Filter can be used with the following listening modes: Dolby Digital, Dolby Digital EX, Dolby Digital Plus, Dolby TrueHD, Dolby Pro Logic IIx Movie, Dolby Pro Logic II Movie, Dolby Pro Logic IIz Height, Multi-channel, DTS, DTS-ES, DTS Neo:6 Cinema, DTS 96/24, Neo:6, DTS-HD High Resolution Audio, DTS-HD Master Audio and DTS Express.

■ Cinema Filter

- ▶ **Off:**
Cinema Filter off.
- ▶ **On:**
Cinema Filter on.

Note

- The Cinema Filter may not work when used with certain input sources.

Audio Selector

You can set priorities of audio output when there are both digital and analog inputs.

■ Audio Selector

▶ **ARC:**

The audio signal from your TV tuner can be sent to the **HDMI OUT** of the AV receiver.*1

With this selection the TV's audio can be automatically selected as a priority among other assignments.

▶ **HDMI:**

This can be selected when **HDMI IN** has been assigned as an input source. If both HDMI (**HDMI IN**) and digital audio inputs (**COAXIAL IN** or **OPTICAL IN**) have been assigned, HDMI input is automatically selected as a priority.

▶ **COAX:**

This can be selected when **COAXIAL IN** has been assigned as an input source. If both coaxial and HDMI inputs have been assigned, coaxial input is automatically selected as a priority.

▶ **OPT:**

This can be selected when **OPTICAL IN** has been assigned as an input source. If both optical and HDMI inputs have been assigned, optical input is automatically selected as a priority.

▶ **Analog:**

The AV receiver always outputs analog signals.

Note

- The setting is stored individually for each input selector.
- This setting can be made only for the input source that is assigned as **HDMI IN**, **COAXIAL IN**, or **OPTICAL IN**.

*1 You can select "**ARC**" if you select the **TV/CD** input selector. But you cannot select it if you've selected "**Off**" in the "**Audio Return Channel**" setting (→ 49).

Setting the Incoming Digital Signal (Fixed Mode)

By pressing **ENTER** while selecting "**HDMI**", "**COAX**", "**OPT**" in the "**Audio Selector**", you can specify the input signal in the Fixed Mode. Pressing **ENTER** again allows you to return to the "**Audio Selector**" setting.

Normally, the AV receiver detects the signal format automatically. However, if you experience either of the following issues when playing PCM or DTS material, you can manually set the signal format to PCM or DTS.

If the beginnings of tracks from a PCM source are cut off, try setting the format to PCM.

If noise is produced when fast forwarding or reversing a DTS CD, try setting the format to DTS.

▶ **Auto:**

The format is detected automatically. If no digital input signal is present, the corresponding analog input is used instead.

▶ **PCM:**

Only 2-channel PCM format input signals will be heard. If the input signal is not PCM, the **PCM** indicator will flash and noise may also be produced.

▶ **DTS:**

Only DTS (but not DTS-HD) format input signals will be heard. If the input signal is not DTS, the **DTS** indicator will flash and there will be no sound.

Note

- The setting is stored individually for each input selector.
- The setting will be reset to "**Auto**" when you change the setting in the "**Audio Selector**" (→ 52).

Zone 2

In addition to your main listening room, you can also enjoy playback in the other room, or as we call Zone 2. And, you can select a different source for each room.

Connecting Zone 2

There are two ways you can connect Zone 2 speakers:

1. Connect them directly to the AV receiver.
2. Connect them to an amp in Zone 2.

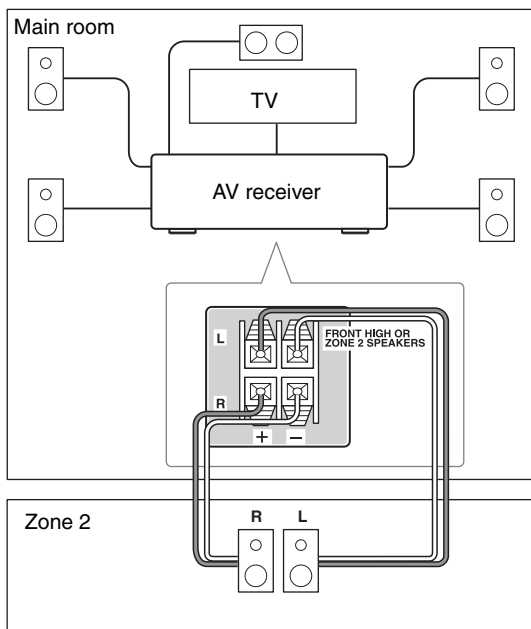
Connecting Your Zone 2 Speakers Directly to the AV receiver

This setup allows 5.1-channel playback in your main room and 2-channel stereo playback in Zone 2, with a different source in each room. This is called Powered Zone 2, as the Zone 2 speakers are powered by the AV receiver. Note that when Powered Zone 2 is turned off, you can enjoy 7.1-channel playback in your main room.

To use this setup, you must set the “Front High/Zone2” setting to “Zone2” (→ 54).

Hookup

- Connect your Zone 2 speakers to the AV receiver’s **FRONT HIGH OR ZONE 2 SPEAKERS L/R** terminals.



Note

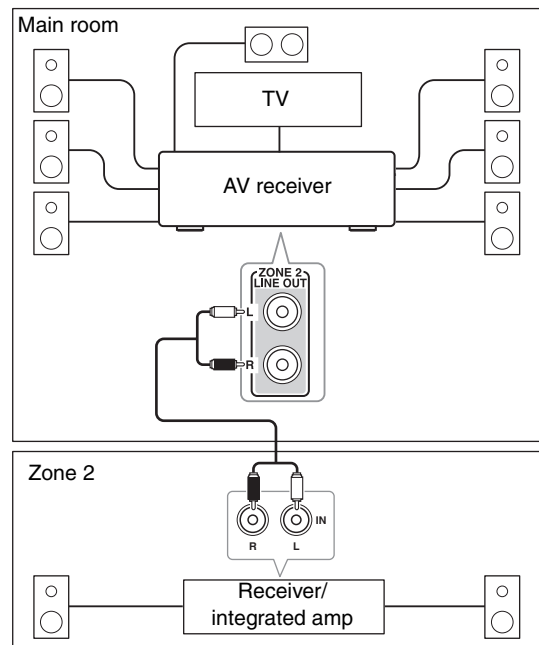
- With this setup, the Zone 2 volume is controlled by the AV receiver.

Connecting Your Zone 2 Speakers to an Amp in Zone 2

This setup allows 7.1-channel playback in your main listening room and 2-channel stereo playback in Zone 2, with a different source in each room.

Hookup

- Use an RCA audio cable to connect the AV receiver’s **ZONE 2 LINE OUT L/R** jacks to an analog audio input on your Zone 2 amp.
- Connect your Zone 2 speakers to the speaker terminals on your Zone 2 amp.



Note

- The Zone 2 volume must be set on the Zone 2 amp.

Setting the Powered Zone 2

If you've connected your Zone 2 speakers to the AV receiver, as explained in "Connecting Your Zone 2 Speakers Directly to the AV receiver" (→ 53), you must set the "Front High/Zone2" setting to "Zone2".

Main menu

Speaker Setup

- 1 In the "Speaker Setup" menu, select "Speaker Settings", and then press **ENTER**.
- 2 Use **▲/▼** to select "Front High/Zone2" and **◀/▶** to select "Zone2".
 - ▶ **Zone2:**
Zone 2 speakers can be used (Powered Zone 2 enabled).

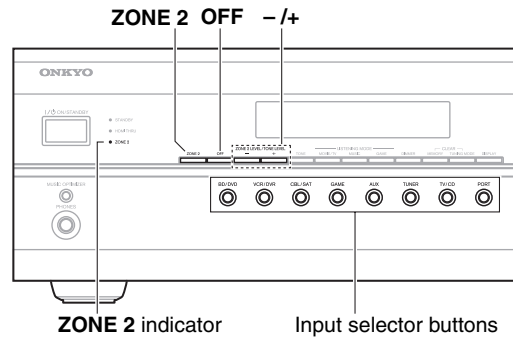
Note

- When "Zone2" is selected and Zone 2 turned on, the Zone 2 speakers connected to the **FRONT HIGH OR ZONE 2 SPEAKERS** terminals output sound, but the surround back or front high speakers connected to the **SURR BACK OR FRONT HIGH SPEAKERS** terminals do not. When "Zone2" is selected and Zone 2 turned off, the surround back or front high speakers output sound as normal.
- When the "Front High/Zone2" setting is set to "Zone2" and the input selector of Zone 2 is selected, power consumption on standby mode slightly increases.

Using Zone 2

This section explains how to turn Zone 2 on and off, how to select an input source for Zone 2, and how to adjust the volume for Zone 2.

Controlling Zone 2 from the AV receiver



- 1 To turn on Zone 2 and select an input source, press **ZONE 2** followed by an input selector button within 8 seconds.

Zone 2 turns on, the **ZONE 2** indicator lights.

To select AM or FM, press the **TUNER** input selector button repeatedly.

To select the same source as that of the main room, press **ZONE 2** repeatedly until "**Z2 Selector: Source**" appears on the display.

Note

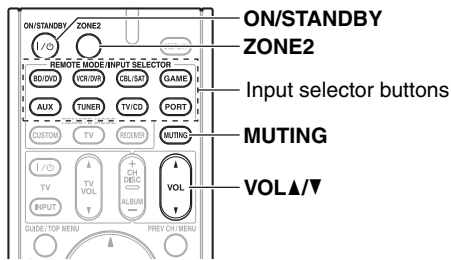
- You cannot select different AM or FM radio stations for your main room and Zone 2. The same FM/AM radio station will be heard in each room.

- 2 To turn off Zone 2, press **OFF**.

Note

- While Powered Zone 2 is being used, listening modes that require surround back and front high speakers (6.1/7.1), such as Dolby Digital EX, DTS-ES, and Dolby Pro Logic IIz Height are unavailable.
- When the "Front High/Zone2" setting is set to "Zone2" and the input selector of Zone 2 is selected, power consumption on standby mode slightly increases.

Controlling Zone 2 with the Remote Controller



1 Press **ZONE2** and then press **ON/STANDBY**.
Zone 2 turns on, the **ZONE 2** indicator lights.

2 To select an input source for Zone 2, press **ZONE2**, followed by an input selector button.
To select AM or FM, press the **TUNER** input selector repeatedly.

Note

- You cannot select different AM or FM radio stations for your main room and Zone 2. The same FM/AM radio station will be heard in each room.

3 To turn off Zone 2, press **ZONE 2** followed by **ON/STANDBY**.

Note

- To control Zone 2, you must press the remote controller's **ZONE2** first.

Adjusting the Volume for Zone 2

■ Operating with the remote controller

- 1 Press **ZONE2**.
- 2 Use **VOL ▲/▼** to adjust the volume.

■ Operating on the AV receiver

- 1 Press **ZONE 2** (the **ZONE 2** indicator and **Zone 2** selector on the display flashes).
- 2 Use **-/+** within 8 seconds to adjust the volume.

If your Zone 2 speakers are connected to a receiver or integrated amp in Zone 2, use its volume control to adjust the volume.

Muting Zone 2

■ Operating with the remote controller

Press **ZONE2** followed by **MUTING**.

Tip

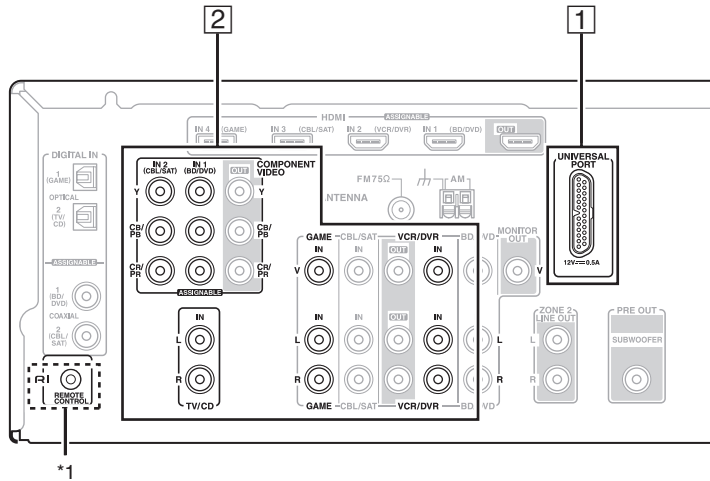
- To unmute, press **ZONE2** followed by **MUTING** again.

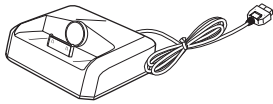
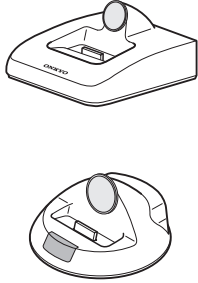
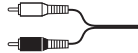
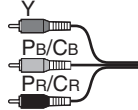


Note

- Only analog input sources are output by the **ZONE 2 LINE OUT** and **FRONT HIGH OR ZONE 2 SPEAKERS L/R** terminals. Digital input sources are not output. If no sound is heard when an input source is selected, check if it's connected to an analog input.
- While Powered Zone 2 is being used, listening modes that require surround back and front high speakers (6.1/7.1), such as Dolby Digital EX, DTS-ES and Dolby Pro Logic IIz Height are unavailable.
- While Zone 2 is on, **RI** functions will not work.
- You cannot select different AM or FM radio stations for your main room and Zone 2. The same FM/AM radio station will be heard in each room. For example, if you have an FM station for the main room, that station will also be used in Zone 2.
- Zone 2 can also be unmuted by adjusting the volume.

Controlling iPod

Connecting an Onkyo Dock



No.	Onkyo Dock	Cable	Note	Page
1	UP-A1 Dock (Included) (Universal Port Option Dock) 	—	<ul style="list-style-type: none"> When UP-A1 Dock that seated iPod is connected, the power consumption on standby mode slightly increases. You can control your iPod when PORT is selected as the input source. 	57
2	RI Dock (Not Included) 	Analog audio (RCA)  Component video  Composite video  RI cable*1 	<ul style="list-style-type: none"> See the RI Dock's instruction manual for more information. <p>*1 To use RI (Remote Interactive), you must make an analog audio connection (RCA) between the AV receiver and the RI Dock.</p>	58

Models sold are different depending on the region.

Using the Onkyo Dock

For the latest information on the Onkyo Dock components, see the Onkyo web site at:
<http://www.onkyo.com>

Before using the Onkyo Dock components, update your iPod with the latest software, available from the Apple web site.

UP-A1 Dock

With the supplied UP-A1 Dock, you can easily play the music, photo, or movie stored on your Apple iPod through the AV receiver and enjoy great sound.

You can use the AV receiver's remote controller to operate your iPod.

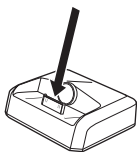
Compatible iPod models

Made for:

- iPod touch (1st and 2nd generation)
- iPod classic
- iPod (4th and 5th generation)
- iPod nano (1st, 2nd, 3rd, 4th and 5th generation)
- iPod mini
- All iPhone models

Putting Your iPod in the Dock

1. Turn on the AV receiver, and select the **PORT** selector.
2. Align your iPod with the Dock connector, and carefully place your iPod in the slot, as shown.

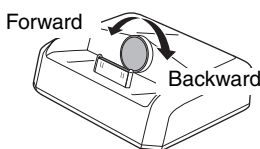


Note

- Remove the case, if fitted, from your iPod before inserting it into the UP-A1.

Adjusting the Adapter

The adapter needs to be adjusted to match your particular iPod. If there's a gap between the back of your iPod and the adapter, turn the adapter counterclockwise to close the gap. Turning the adapter counterclockwise moves it forward. Turning it clockwise moves it backward.



Note

- Make sure that the output level of the AV receiver is set to minimum.
- To prevent damage to the dock connector, don't twist your iPod when inserting or removing it, and be careful not to knock over the dock while your iPod is inserted.
- Do not take off your iPod from the Dock when you play back the music, photo, or movie stored on your iPod.
- Don't use the UP-A1 with any other iPod accessories, such as FM transmitters and microphones, because they may cause a malfunction.

- It is recommended that you update your iPod software before using it with this unit. The updater for the iPod software is available at the Apple website.

Basic Operation

The AV receiver may take several seconds to startup, so you might not hear the first few seconds of the first song.

Auto Power On

If you start iPod playback while the AV receiver is on Standby, the AV receiver will automatically turn on and select your iPod as the input source.

Direct Change

If you start iPod playback while listening to another input source, the AV receiver will automatically select your iPod as the input source.

Using the AV receiver's Remote Controller

You can use the AV receiver's remote controller to control basic iPod functions (→ 58).

Operating Notes

- Functionality depends on your iPod model and generation.
- Before selecting a different input source, stop iPod playback to prevent the AV receiver from selecting the iPod input source by mistake.
- If any accessories are connected to your iPod, the AV receiver may not be able to select the input source properly.
- When connecting UP-A1 Dock to the radio tuner UP-HT1 with AUTO selected by the tuner's Mode Selector switch, you can switch the input source between UP-A1 Dock and the tuner, by pressing **PORT** repeatedly on the front panel.
- While your iPod is in the UP-A1 Dock, its volume control has no effect. If you adjust your iPod models volume control while it's in the UP-A1 Dock, make sure it's not set too high before you reconnect your headphones.
- The Auto Power On function will not work if you set your iPod in the UP-A1 Dock while it is playing.
- When Zone 2 is turned on, you can't use Auto Power On and Direct Change functions.

Using Your iPod models Alarm Clock

You can use your iPod models Alarm Clock function to automatically turn on your iPod and the AV receiver at a specified time. The AV receiver's input source will automatically be set to the **PORT** selector.

Note

- To use this function, your iPod must be in the UP-A1 Dock, and the UP-A1 Dock must be connected to the AV receiver.
- This function only works when the Standard mode is set to **On**.
- When you use this function, be sure to set the AV receiver's volume control to a suitable level.
- When Zone 2 is turned on, you can't use this function.
- You cannot use this function for sound effects on your iPod.

■ Charging Your iPod models Battery

The UP-A1 Dock charges your iPod models battery while your iPod is in the UP-A1 Dock and connected to the **UNIVERSAL PORT** jack on the AV receiver. While your iPod is seated in the UP-A1 Dock, its battery will be charged when the AV receiver is set to “On” or “Standby”.

Note

- When UP-A1 Dock that seated iPod is connected, the power consumption on standby mode slightly increases.

■ Status Messages

• PORT Reading

The AV receiver is checking the connection with the dock.

• PORT Not Support

The AV receiver do not support the connected dock.

• PORT UP-A1

UP-A1 Dock is connected.

Note

- The AV receiver displays the message “UP-A1” for several seconds after recognizing the UP-A1.
- When the status message is not displayed on the AV receiver’s display, check the connection to your iPod.

RI Dock

RI Dock is sold separately.

For supported iPod models, see the instruction manual of the RI Dock.

With the RI Dock, you can easily play the music stored on your Apple iPod through the AV receiver and enjoy great sound, and watch iPod slideshows and videos on your TV. In addition, the onscreen display (OSD) allows you to view, navigate, and select your iPod model’s contents on your TV, and with the supplied remote controller, you can control your iPod from the comfort of your sofa. You can even use the AV receiver’s remote controller to operate your iPod.

Note

- Enter the appropriate remote control code before using the AV receiver’s remote controller for the first time (→ 61).
- Connect the RI Dock to the AV receiver with an **RI** cable (→ 56).
- Set the RI Dock’s RI MODE switch to HDD or HDD/DOCK.
- Set the AV receiver’s Input Display to “DOCK” (→ 27).

■ System Function

System On

When you turn on the AV receiver, the RI Dock and iPod turn on automatically. In addition, when the RI Dock and iPod are on, the AV receiver can be turned on by pressing **ON/STANDBY**.

Auto Power On

If you press the remote controller’s **▶** while the AV receiver is on Standby, the AV receiver will automatically turn on, select your iPod as the input source, and your iPod will start playback.

Direct Change

If you start iPod playback while listening to another input source, the AV receiver will automatically switch to the input to which the RI Dock is connected.

Other Remote Controllers

You can use the remote controller that came with the AV receiver to control other iPod functions. The available functionality depends on the AV receiver.

iPod Alarm

If you use the Alarm function on your iPod to start playback, the AV receiver will turn on at the specified time and select your iPod as the input source automatically.

Note

- Linked operations do not work with video playback or when the alarm is set to play a sound.
- If you use your iPod with any other accessories, iPod playback detection may not work.
- This function only works when the Standard mode is set to **On**.

■ Operating Notes

- Use the AV receiver’s volume control to adjust the playback volume.
- While your iPod is inserted in the RI Dock, its volume control has no effect.
- If you do adjust the volume control on your iPod while it’s inserted in the RI Dock, be careful that it’s not set too loud before you reconnect your earphones.

Controlling Your iPod

By pressing **REMOTE MODE** that’s been programmed with the remote control code for your Dock, you can control your iPod in the Dock with the following buttons. See “Remote Control Codes for Onkyo Components Connected via **RI**” for details on entering a remote control code (→ 61).

See the Dock’s instruction manual for more information.

■ UP-A1 Dock

PORT is preprogrammed with the remote control code for controlling a Dock with Universal Port connector.

You can control your iPod when **PORT** is selected as the input source.

Without the RI Control

You must enter a remote control code **82990** first (→ 61).

■ RI Dock

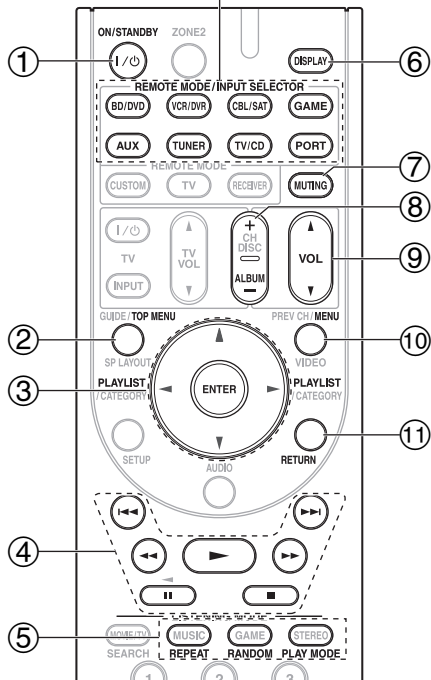
- Set the RI Dock’s RI MODE switch to HDD or HDD/DOCK.
- **ON/STANDBY** may not work with a remote control code (without **RI**). In this case, make an **RI** connection and enter a remote control code **81993** (with **RI**).

With the RI Control

In this case, make an **RI** connection and enter a remote control code **81993** (with **RI**).

- Set the AV receiver’s Input Display to “DOCK” (→ 27).

Press the appropriate **REMOTE MODE** first.



✓: Available buttons

		UP-A1 Dock	RI Dock
Buttons			
①	ON/STANDBY I/O		✓*1
②	TOP MENU		✓*5
③	▲/▼/◀/▶ ENTER PLAYLIST ◀/▶	✓	✓
④	▶, , ■, ◀, ▶▶, ◀◀, ▶▶▶	✓	✓
⑤	REPEAT RANDOM PLAY MODE	✓	✓
⑥	DISPLAY*6	✓*2	✓
⑦	MUTING	✓	✓
⑧	ALBUM +/-	✓	✓
⑨	VOL ▲/▼	✓	✓
⑩	MENU		✓
⑪	RETURN	✓	

• With some iPod models, generations and RI Docks, certain buttons may not work as expected.

• For detailed operation of the iPod, please refer to the instruction manual of RI Dock.

*1 This button does not turn the Onkyo DS-A2 or DS-A2X RI Dock on or off. Your iPod may not respond the first time you press this button, in which case you should press it again.

This is because the remote controller transmits the On and Standby commands alternately, so if your iPod is already on, it will remain on when the remote controller transmits an On command.

Similarly, if your iPod is already off, it will remain off when the remote controller transmits an Off command.

*2 Press **DISPLAY** to change the following modes:

Standard mode

Nothing is displayed on your TV and you navigate and select your contents by using your iPod models display.

Only this mode can playback the video.

Extended mode (Music)

Playlists (artists, albums, songs, and so on) are displayed on your TV, and you can navigate and select your music while looking at your TV.

Extended mode (Video)

Playlists (Movies, Music Videos, TV Shows, Video Podcasts, or Rentals) are displayed on your TV, and you can navigate and select your video while looking at your TV.

*3 In Extended mode (see *2), **PLAYLIST** is used as the page jump button.

With the page modes, you can quickly locate your favorite songs even when your song lists, artist lists, and so on are very long.

*4 **Resume mode**

With the Resume function, you can resume playback of the song that was playing when you removed your iPod from the RI Dock or Standard mode is selected.

*5 **TOP MENU** works as a Mode button when used with a DS-A2 RI Dock.

*6 **DISPLAY** turns on backlight for 30 seconds.

Note

- In Extended mode (see *2), the playback will be continued even if the AV receiver is turned off.
- In Extended mode (see *2), you cannot operate your iPod directly.
- In Extended mode (see *2), it may take some time to acquire the contents.
- In Extended mode (see *2), video contents can not display on your TV.

Controlling Other Components

You can use the AV receiver's remote controller (RC-764M) to control your other AV components, including those made by other manufacturers. This section explains how to enter the remote control code (with the default underlined) for a component that you want to control: DVD, TV, CD, etc.

Preprogrammed Remote Control Codes

The following **REMOTE MODE** are preprogrammed with remote control codes for controlling the components listed. You do not need to enter a remote control code to control these components.

For details on controlling these components, see the pages indicated.

- BD/DVD** Onkyo Blu-ray Disc player (→ 62)
- TV/CD** Onkyo CD player (→ 62)
- PORT** Onkyo Universal Port Option (→ 58)

Looking up for Remote Control Code

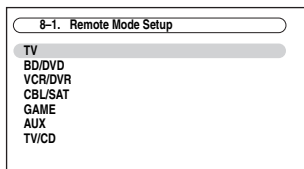
You can look up for appropriate remote control code from on-screen setup menu.

This setting can not be carried out by using the AV receiver's display.

- 1** Press **RECEIVER** followed by **SETUP**.
The main menu appears onscreen.

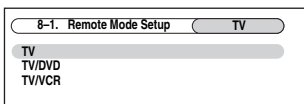
- 2** Use **▲/▼** to select "Remote Controller Setup", and then press **ENTER**.
The "Remote Controller Setup" menu appears.

- 3** Press **ENTER**.



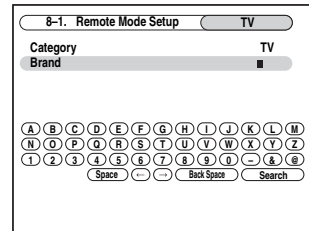
- 4** Use **▲/▼** to select remote mode, and then press **ENTER**.

The category selection menu appears.



- 5** Use **▲/▼** to select category, and then press **ENTER**.

The brand name input panel appears.

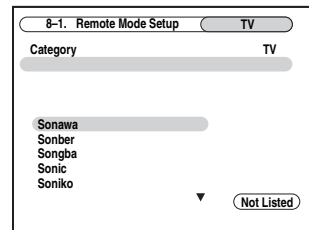


- 6** Use **▲/▼/◀/▶** to select a character, and then press **ENTER**.

Repeat this step from the 1st character to the 3rd character of the brand name.

When you have entered the 3rd character, select "Search" and press **ENTER**.

After searching, a list of the brand name appears.



If the brand name is not found:

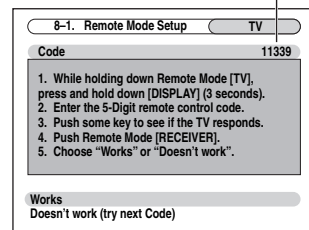
Use **▶** to select "Not Listed", and then press **ENTER**.

The brand name input panel appears.

- 7** Use **▲/▼** to select brand, and then press **ENTER**.

After searching, a remote control code and the input procedure appear. Try it.

Remote control code
(Number of search results)



- 8** If you can control component, use **▲/▼** to select "Works", and then press **ENTER**.

The "Remote Mode Setup" menu appears.

If you cannot control component, use **▲/▼** to select "Doesn't work (try next code)" and press **ENTER**.

The next code is appear.

Entering Remote Control Codes

You'll need to enter a code for each component that you want to control.

1 Look up the appropriate remote control code in the separate Remote Control Codes list.

The codes are organized by category (e.g., DVD player, TV, etc.).

2 While holding down REMOTE MODE to which you want to enter a code, press and hold down DISPLAY (about 3 seconds).

The remote indicator lights.

Note

- Remote control codes cannot be entered for **RECEIVER** and **ZONE 2**.
- Only TV remote control codes can be entered for **TV**.
- Except for **RECEIVER**, **TV** and **ZONE 2**, remote control codes from any category can be entered as **REMOTE MODE**. However, these buttons also work as input selector buttons (→ 25), so choose a **REMOTE MODE** that corresponds with the input to which you connect your component. For example, if you connect your CD player to the CD input, choose **TV/CD** when entering its remote control code.

3 Within 30 seconds, use the number buttons to enter the 5-digit remote control code.

The remote indicator flashes twice.

If the remote control code is not entered successfully, the remote indicator will flash once slowly.

Note

- The remote control codes provided are correct at the time of printing, but are subject to change.

Remote Control Codes for Onkyo Components Connected via RI

Onkyo components that are connected via **RI** are controlled by pointing the remote controller at the AV receiver, not the component. This allows you to control components that are out of view, in a rack, for example.

1 Make sure the Onkyo component is connected with an RI cable and an analog audio cable (RCA).

See "Connecting Onkyo **RI** Components" for details (→ 21).

2 Enter the appropriate remote control code for REMOTE MODE.

• BD/DVD

▶ 31612:

Onkyo DVD player with **RI**

• TV/CD

▶ 71327:

Onkyo CD player with **RI**

▶ 42157:

Onkyo cassette tape deck with **RI**

• PORT

▶ 81993:

Onkyo Dock

See the previous section for how to enter remote control codes.

Note

- When using a cassette tape deck connected via **RI**, press and hold **TV/CD** to switch to TAPE.

3 Press REMOTE MODE, point the remote controller at the AV receiver, and operate the component.

If you want to control an Onkyo component by pointing the remote controller directly at it, or you want to control an Onkyo component that's not connected via **RI**, use the following remote control codes:

• BD/DVD

▶ 30627:

Onkyo DVD player without **RI**

• TV/CD

▶ 71817:

Onkyo CD player without **RI**

▶ 11807:

Onkyo TV

If you want to control an Onkyo component by pointing the remote controller directly at it, use the following remote control codes:

▶ 32900:

Onkyo Blu-ray Disc player

▶ 32901:

Onkyo HD-DVD player

▶ 70868:

Onkyo MD recorder

▶ 71323:

Onkyo CD recorder

▶ 82990:

Onkyo Dock

Note

- If you connect a cassette tape deck to the **TV/CD IN** jack, or connect an RI Dock to the to the **TV/CD IN** or **VCR/DVR IN** or **GAME IN** jacks, for **RI** to work properly, you must set the Input Display accordingly (→ 27).

Resetting REMOTE MODE Buttons

You can reset a **REMOTE MODE** to its default remote control code.

- 1 While holding down REMOTE MODE that you want to reset, press and hold down AUDIO until the remote indicator lights (about 3 seconds).**
- 2 Within 30 seconds, press REMOTE MODE again.**

The remote indicator flashes twice, indicating that the button has been reset.

Each of **REMOTE MODE** is preprogrammed with a remote control code. When a button is reset, its pre-programmed code is restored.

Resetting the Remote Controller

You can reset the remote controller to its default settings.

- 1 While holding down RECEIVER, press and hold down AUDIO until the remote indicator lights (about 3 seconds).**
- 2 Within 30 seconds, press RECEIVER again.**

The remote indicator flashes twice, indicating that the remote controller has been reset.

Controlling Other Components

By pressing **REMOTE MODE** that's been programmed with the remote control code for your component, you can control your component as below.

For details on entering a remote control code for other components, see "Entering Remote Control Codes" (→ 61).

Controlling a TV

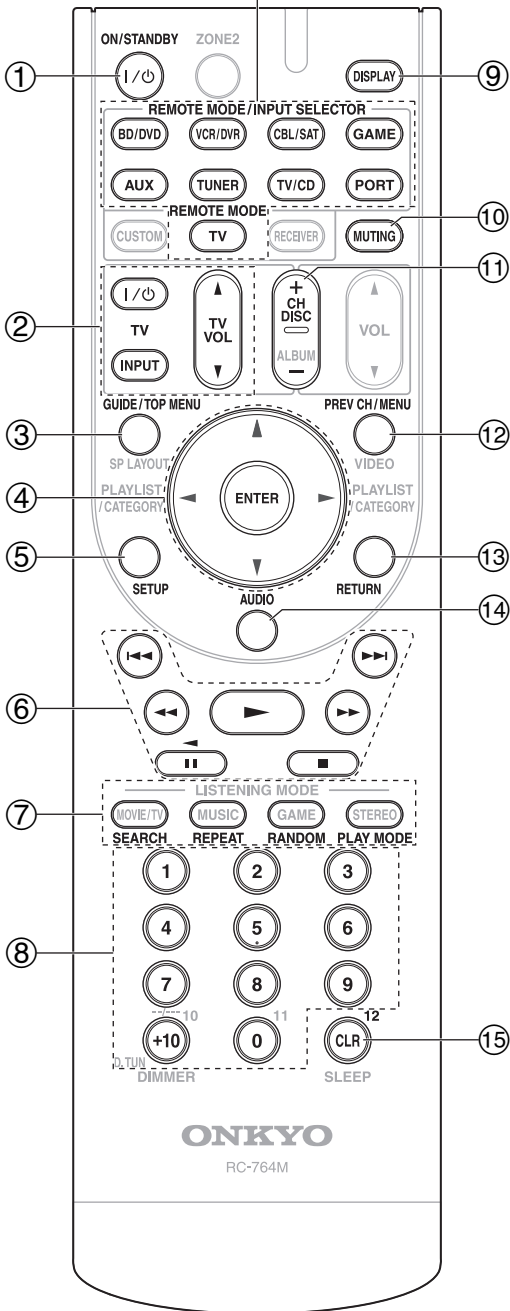
TV is preprogrammed with the remote control code for controlling a TV that supports the **RIHD***1 (limited to some models). The TV must be able to receive remote control commands via **RIHD** and be connected to the AV receiver via HDMI. If controlling your TV via **RIHD** doesn't work very well, program your TV's remote control code into **TV** and use the TV remote mode to control your TV.

Controlling a Blu-ray Disc/DVD Player, HD DVD Player or DVD Recorder

BD/DVD is preprogrammed with the remote control code for controlling a component that supports the **RIHD***1 (limited to some models). The component must be able to receive remote control commands via **RIHD** and be connected to the AV receiver via HDMI.

*1 The **RIHD** supported by the AV receiver is the CEC system control function of the HDMI standard.

Press the appropriate **REMOTE MODE** first.



✓: Available buttons

Buttons	Components						
	TV	DVD player/DVD recorder	Blu-ray Disc player HD DVD player	VCR/PVR	Satellite receiver Cable receiver	CD player/CD recorder MD recorder	Cassette tape deck
① ON/STANDBY I/⏻	✓	✓		✓	✓	✓	✓
② I/⏻, INPUT, TV VOL ▲/▼	✓						
③ GUIDE TOP MENU	✓			✓	✓		
④ ▲/▼/◀/▶ ENTER	✓	✓		✓	✓	✓	
⑤ SETUP	✓			✓	✓	✓	
⑥ ▶, ⏸, ■, ◀◀, ▶▶, ▶▶, ◀◀, ▶▶◀	✓*1	✓		✓	✓	✓	✓*3
⑦ SEARCH	✓*1*2	✓*1	✓*2		✓*2	✓	
REPEAT	✓*1*2	✓	✓*2		✓*2	✓	
RANDOM	✓*1*2	✓*1	✓*2		✓*2	✓	
PLAY MODE	✓*1*2	✓*1	✓*2		✓*2	✓	
⑧ Number: 1 to 9, 0	✓	✓		✓	✓	✓	
Number: +10	✓*1	✓*1		✓	✓	✓	
⑨ DISPLAY	✓	✓		✓	✓	✓	
⑩ MUTING	✓	✓		✓	✓	✓	✓
⑪ CH +/- DISC +/-	✓	✓		✓	✓		✓
⑫ PREV CH MENU	✓			✓	✓		
⑬ RETURN	✓	✓		✓	✓		
⑭ AUDIO	✓*1	✓*1			✓		
⑮ CLR	✓	✓		✓	✓	✓	

*1 The **RIHD** function is not supported. The **RIHD** supported by the AV receiver is the CEC system control function of the HDMI standard.

*2 These buttons function as colored buttons or A, B, C, D buttons.

*3 **⏸** (Pause) functions as reverse playback.

Note

- See the "Controlling Your iPod" about the operation of iPod (→ 58).

Note

- With some components, certain buttons may not work as expected, and some may not work at all.

Troubleshooting

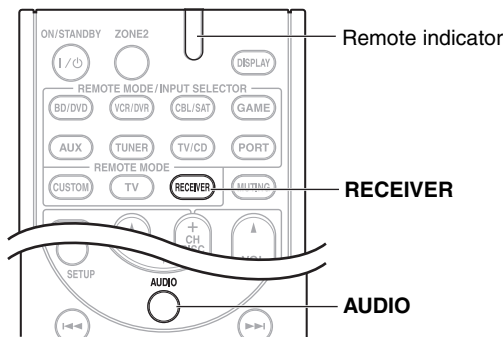
If you have any trouble using the AV receiver, look for a solution in this section. If you can't resolve the issue yourself, contact your Onkyo dealer.

If you can't resolve the issue yourself, try resetting the AV receiver before contacting your Onkyo dealer.

To reset the AV receiver to its factory defaults, turn it on and, while holding down VCR/DVR, press ON/STANDBY. "Clear" will appear on the display and the AV receiver will enter Standby mode.



Note that resetting the AV receiver will delete your radio presets and custom settings.



To reset the remote controller to its factory defaults, while holding down **RECEIVER**, press and hold down **AUDIO** until the remote indicator lights (about 3 seconds). Within 30 seconds, press **RECEIVER** again.

The on-screen setup menus appear only on a TV that is connected to the HDMI OUT. If your TV is connected to the MONITOR OUT V or the COMPONENT VIDEO OUT, use the AV receiver's display when changing settings.

Power

■ Can't turn on the AV receiver

Make sure that the power cord is properly plugged into the wall outlet. —

Unplug the power cord from the wall outlet, wait five seconds or more, then plug it in again. —

■ The STANDBY indicator flashes red

The protection circuit has been activated. Remove the power cord from the wall outlet immediately. Disconnect all speaker cables and input sources, and leave the AV receiver with its power cord disconnected for 1 hour. After that, reconnect the power cord and set the volume to maximum. If the AV receiver stays on, set the volume to minimum, disconnect the power cord, and reconnect your speakers and input sources. If the AV receiver turns off when you set the volume to maximum, disconnect the power cord, and contact your Onkyo dealer. —

Audio

■ There's no sound, or it's very quiet

Make sure that the digital input source is selected properly. **40**

Make sure that all audio connecting plugs are pushed in all the way. **18**

Make sure that the inputs and outputs of all components are connected properly. **19-21**

Make sure that the polarity of the speaker cables is correct, and that the bare wires are in contact with the metal part of each speaker terminal. **16**

Make sure that the input source is properly selected. **25**

Make sure that the speaker cables are not shorting. **16**

Check the volume. The AV receiver is designed for home theater enjoyment. It has a wide volume range, allowing precise adjustment. —

If the **MUTING** indicator is flashing on the display, press the remote controller's **MUTING** to unmute the AV receiver. **26**

While a pair of headphones is connected to the **PHONES** jack, no sound is output by the speakers. **27**

If there's no sound from a DVD player connected to an HDMI IN, check the DVD player's output settings, and be sure to select a supported audio format. —

Check the digital audio output setting on the connected device. On some game consoles, such as those that support DVD, the default setting is off. —

With some DVD-Video discs, you need to select an audio output format from a menu. —

If your turntable uses an MC cartridge, you must connect an MC head amp, or an MC transformer. —

Make sure that none of the connecting cables are bent, twisted, or damaged. —

Not all listening modes use all speakers. **34**

Specify the speaker distances and adjust the individual speaker levels. **41**

Make sure that the speaker setup microphone is not still connected. —

The input signal format is set to PCM or DTS. Set it to Auto. **52**

■ Only the front speakers produce sound

When the Stereo or Mono listening mode is selected, only the front speakers and subwoofer produce sound.

Check the Speaker Configuration. **41**

■ Only the center speaker produces sound

If you use the Dolby Pro Logic IIx Movie, Dolby Pro Logic IIx Music, or Dolby Pro Logic IIx Game listening mode with a mono source, such as an AM radio station or mono TV program, the sound is concentrated in the center speaker.

Make sure the speakers are configured correctly. **41**

■ The surround speakers produce no sound

When the T-D (Theater-Dimensional), Stereo or Mono listening mode is selected, the surround speakers produce no sound.

Depending on the source and current listening mode, not much sound may be produced by the surround speakers. Try selecting another listening mode.

Make sure the speakers are configured correctly. **41**

■ The center speaker produces no sound

When the Stereo or Mono listening mode is selected, the center speaker produces no sound.

Make sure the speakers are configured correctly. **41**

■ The front high and surround back speakers produce no sound

Depending on the current listening mode, no sound may be produced by the front high and surround back speakers. Select another listening mode. **34**

Not much sound may be produced by the front high and surround back speakers with some sources.

Make sure the speakers are configured correctly. **41**

While Powered Zone 2 is being used, playback in the main room is reduced to 5.1-channels and the front high, and surround back speakers produce no sound. **53**

■ The subwoofer produces no sound

When you play source material that contains no information in the LFE channel, the subwoofer produces no sound.

Make sure the speakers are configured correctly. **41**

■ There's no sound with a certain signal format

Check the digital audio output setting on the connected device. On some game consoles, such as those that support DVD, the default setting is off.

With some DVD-Video discs, you need to select an audio output format from a menu.

Depending on the input signal, some listening modes cannot be selected. **34-37**

■ Can't get 6.1/7.1 playback

If no surround back speakers, and front high speakers are connected, or the Zone 2 speakers are being used, 6.1/7.1 playback is not possible.

You can not always select all of the listening modes, depending on the number of the speakers connected. **34-37**

■ The speaker volume cannot be set as required (The volume cannot be set to 79 dB)

Check to see if a maximum volume has been set. **48**

If the volume level of each individual speaker has been adjusted to high positive values, then the maximum master volume possible may be reduced. Note that the individual speaker volume levels are set automatically after the Audyssey 2EQ® Room Correction and Speaker Setup function has been completed. **28, 41**

■ Noise can be heard

Using cable ties to bundle audio cables with power cords, speaker cables, and so on may degrade the audio performance, so don't do it.

An audio cable may be picking up interference. Try repositioning your cables.

■ The Late Night function doesn't work

Make sure the source material is Dolby Digital, Dolby Digital Plus, and Dolby TrueHD. **51**

■ About DTS signals

When DTS program material ends and the DTS bitstream stops, the AV receiver remains in DTS listening mode and the DTS indicator remains on. This is to prevent noise when you use the pause, fast forward, or fast reverse function on your player. If you switch your player from DTS to PCM, because the AV receiver does not switch formats immediately, you may not hear any sound, in which case you should stop your player for about three seconds, and then resume playback.

With some CD and LD players, you won't be able to playback DTS material properly even though your player is connected to a digital input on the AV receiver. This is usually because the DTS bitstream has been processed (e.g., output level, sampling rate, or frequency response changed) and the AV receiver doesn't recognize it as a genuine DTS signal. In such cases, you may hear noise.

When playing DTS program material, using the pause, fast forward, or fast reverse function on your player may produce a short audible noise. This is not a malfunction.

■ The beginning of audio received by an HDMI IN can't be heard

Since it takes longer to identify the format of an HDMI signal than it does for other digital audio signals, audio output may not start immediately.

Video

There's no picture

- Make sure that all video connecting plugs are pushed in all the way. **18**
- Make sure that each video component is properly connected. **19, 20, 56**
- If your TV is connected to the **HDMI OUT**, select “- - - -” in the “**HDMI Input**” setup to watch composite video, and component video sources. **39**
- If the video source is connected to a component video input, you must assign that input to an input selector, and your TV must be connected to either the **HDMI OUT** or **COMPONENT VIDEO OUT**. **20, 39**
- If the video source is connected to a composite video input, your TV must be connected to the **HDMI OUT** or the corresponding composite video output. **20**
- If the video source is connected to an HDMI input, you must assign that input to an input selector, and your TV must be connected to the **HDMI OUT**. **19, 39**
- On your TV, make sure that the video input to which the AV receiver is connected is selected. —

There's no picture from a source connected to an HDMI IN

- Reliable operation with an HDMI-to-DVI adapter is not guaranteed. In addition, video signals from a PC are not guaranteed. **72**
- When the Resolution is set to any resolution not supported by the TV, no video is output by the HDMI outputs. **39**
- If the message “**Resolution Error**” appears on the AV receiver's display, this indicates that your TV does not support the current video resolution and you need to select another resolution on your DVD player. —

The on-screen menus don't appear

- On your TV, make sure that the video input to which the AV receiver is connected is selected. —
- When the AV receiver doesn't connect TV with HDMI, onscreen menus are not displayed. —

The on screen display does not appear

- Depending on the input signal, the on screen display may not appear when the input signal from the **HDMI IN** is output to a device connected to the **HDMI OUT**. **48**

Tuner

Reception is noisy, FM stereo reception is noisy, or the FM STEREO indicator doesn't light

- Relocate your antenna. —
- Move the AV receiver away from your TV or computer. —
- Listen to the station in mono. **30**
- When listening to an AM station, operating the remote controller may cause noise. —
- Passing cars and airplanes can cause interference. —
- Concrete walls weaken radio signals. —
- If nothing improves the reception, install an outdoor antenna. —

Remote Controller

The remote controller doesn't work

- Before operating this unit, be sure to press **RECEIVER**. —
- Make sure that the batteries are installed with the correct polarity. **5**
- Install new batteries. Don't mix different types of batteries, or old and new batteries. **5**
- Make sure that the remote controller is not too far away from the AV receiver, and that there's no obstruction between the remote controller and the AV receiver's remote control sensor. **5**
- Make sure that the AV receiver is not subjected to direct sunshine or inverter-type fluorescent lights. Relocate if necessary. —
- If the AV receiver is installed in a rack or cabinet with colored-glass doors, the remote controller may not work reliably when the doors are closed. —
- Make sure you've selected the correct remote controller mode. **12, 62**
- When using the remote controller to control other manufacturers' AV components, some buttons may not work as expected. —
- Make sure you've entered the correct remote control code. **61**
- Make sure to set the same ID on both the AV receiver and remote controller. **48**

Can't control other components

- If it's an Onkyo component, make sure that the **RI** cable and analog audio cable are connected properly. Connecting only an **RI** cable won't work. **21**
- Make sure you've selected the correct remote controller mode. **12, 62**
- If you've connected a cassette tape deck, to the **TV/CD IN** jack, or an **RI Dock** to the **TV/CD IN** or **GAME IN** or **VCR/DVR IN** jacks, for the remote controller to work properly, you must set the display. **27**
- If you cannot operate it, you will need to enter the appropriate remote control code. **60**
- To control another manufacturer's component, point the remote controller at that component. **61**
- To control an Onkyo component that's connected via **RI**, point the remote controller at the AV receiver. Be sure to enter the appropriate remote control code first. **61**

To control an Onkyo component that's not connected via **RI**, point the remote controller at the component. Be sure to enter the appropriate remote control code first. **61**

The entered remote control code may not be correct. —
If more than one code is listed, try each one.

UP-A1 Dock for iPod

There's no sound

Make sure your iPod is actually playing. —
Make sure your iPod is inserted properly in the Dock. —
Make sure the UP-A1 Dock is connected to the **UNIVERSAL PORT** jack on the AV receiver. —
Make sure the AV receiver is turned on, the correct input source is selected, and the volume is turned up. —
Make sure the plugs are pushed in all the way. —
Try resetting your iPod. —

There's no video

Make sure that your iPod model's TV OUT setting is set to On. —
Make sure the correct input is selected on your TV or the AV receiver. —
Some versions of the iPod do not output video. —

The AV receiver's remote controller doesn't control your iPod

Make sure your iPod is properly inserted in the Dock. If your iPod is in a case, it may not connect properly to the Dock. Always remove your iPod from the case before inserting it into the Dock. —
The iPod cannot be operated while it's displaying the Apple logo. —
Make sure you've selected the right remote mode. —
When you use the AV receiver's remote controller, point it toward your AV receiver. —
When connecting UP-A1 Dock to the radio tuner UP-HT1 with AUTO selected by the tuner's Mode Selector switch, you can switch the input source between UP-A1 Dock and the tuner, by pressing **PORT** repeatedly on the front panel. —
If you still can't control your iPod, start playback by pressing your iPod model's Play button. Remote operation should then be possible. —
Try resetting your iPod. —
Depending on your iPod, some buttons may not work as expected. —

The AV receiver unexpectedly selects your iPod as the input source

Always pause iPod playback before selecting a different input source. If playback is not paused, the Direct Change function may select your iPod as the input source by mistake during the transition between tracks. —

Recording

Can't record

On your recorder, make sure the correct input is selected. —
To prevent signal loops and damage to the AV receiver, input signals are not fed through to outputs with the same name (**VCR/DVR IN** to **VCR/DVR OUT**). —

Zone 2

There's no sound

Only components connected to analog inputs can be played in Zone 2. —

The Zone 2 speakers produce no sound

To use the Zone 2 speakers, you must set the "**Front High/Zone2**" setting to "**Zone2**". **54**

Others

The sound changes when I connect my headphones

When a pair of headphones is connected, the listening mode is set to Stereo, unless it's already set to Stereo, Mono or Direct. —

The speaker distance cannot be set as required

In some cases, corrected values suitable for home theater use may be set automatically. —

How do I change the language of a multiplex source

Use the "**Multiplex**" setting on the "**Audio Adjust**" menu to select "**Main**" or "**Sub**". **42**

The RI functions don't work

To use **RI**, you must make an **RI** connection and an analog audio connection (RCA) between the component and AV receiver, even if they are connected digitally. **21**

The functions System On/Auto Power On and Direct Change don't work for components connected via RI

These functions don't work when Zone 2 is turned on. **21**

When performing "Audyssey 2EQ® Room Correction and Speaker Setup", the measurement fails showing the message "Ambient noise is too high."

This can be caused by any malfunction in your speaker unit. Check if the unit produces normal sounds. —

■ The following settings can be made for the composite video inputs

You must use the buttons on the unit to make these settings.

1. While holding down the input selector button for the input source that you want to set, press **SETUP**.
2. Use ◀/▶ to change the setting.
3. Press the input selector button for the input source that you want to set when you've finished.

• Video Attenuation

This setting can be made for the **BD/DVD**, **VCR/DVR**, **CBL/SAT**, **GAME**, or **AUX** input.

If you have a games console connected to the composite video input, and the picture isn't very clear, you can attenuate the gain.

Video ATT:OFF: (default).

Video ATT:ON: Gain is reduced by 2 dB.

The AV receiver contains a microcomputer for signal processing and control functions. In very rare situations, severe interference, noise from an external source, or static electricity may cause it to lockup. In the unlikely event that this happens, unplug the power cord from the wall outlet, wait at least five seconds, and then plug it back in again.

Onkyo is not responsible for damages (such as CD rental fees) due to unsuccessful recordings caused by the unit's malfunction. Before you record important data, make sure that the material will be recorded correctly.

Before disconnecting the power cord from the wall outlet, set the AV receiver to Standby.

Important Note Regarding Video Playback

The AV receiver can upconvert component video and composite video sources for display on a TV connected to the **HDMI OUT**. However, if the picture quality of the source is poor, upconversion may make the picture worse or disappear altogether.

In this case, try the following:

1 If the video source is connected to a component video input, connect your TV to the **COMPONENT VIDEO OUT**.

If the video source is connected to a composite video input, connect your TV to the **MONITOR OUT V**.

2 On the main menu, select "**1. Input/Output Assign**", and then select "**2. HDMI Input**". Select the relevant input selector, and assign it to "- - - -" (→ 39).

3 On the main menu, select "**1. Input/Output Assign**", and then select "**3. Component Video Input**" (→ 40):

If the video source is connected to **COMPONENT VIDEO IN 1**, select the relevant input selector, and assign it to "**IN1**".

If the video source is connected to **COMPONENT VIDEO IN 2**, select the relevant input selector, and assign it to "**IN2**".

If the video source is connected to composite video input, select the relevant input selector, and assign it to "- - - -".

Specifications

AV receiver

Amplifier Section

Rated Output Power All channels:	130 watts minimum continuous power per channel, 6 ohm, at 1 kHz with a maximum total harmonic distortion of 1%
Dynamic Power	180 W (3 Ω , Front) 160 W (4 Ω , Front) 100 W (8 Ω , Front)
Damping Factor	60 (Front, 1 kHz, 8 Ω)
Input Sensitivity and Impedance	200 mV/47 k Ω (LINE)
Rated RCA Output Level and Impedance	200 mV/2.2 k Ω (REC OUT)
Frequency Response	5 Hz - 100 kHz/+1 dB, -3 dB (DSP bypass)
Tone Control Characteristics	\pm 10 dB, 50 Hz (BASS) \pm 10 dB, 20 kHz (TREBLE)
Signal to Noise Ratio	106 dB (LINE, IHF-A)
Speaker Impedance	6 Ω - 16 Ω

Video Section

Input Sensitivity/Output Level and Impedance	1 V _{p-p} /75 Ω (Component Y) 0.7 V _{p-p} /75 Ω (Component P _B /C _B , P _R /C _R) 1 V _{p-p} /75 Ω (Composite)
Component Video Frequency Response	5 Hz - 100 MHz/+0 dB, -3 dB

Tuner Section

FM Tuning Frequency Range	87.5 MHz - 107.9 MHz
AM Tuning Frequency Range	530 kHz - 1710 kHz
Preset Channel	40

General

Power Supply	AC 120 V, 60 Hz
Power Consumption	4.9 A
Stand-by Power Consumption	0.2 W
Dimensions (W \times H \times D)	17-1/8" \times 5-15/16" \times 12-15/16" 435 mm \times 151.5 mm \times 328.5 mm
Weight	8.6 kg (19.0 lbs.)

■ HDMI

Input	IN 1, IN 2, IN 3, IN 4
Output	OUT
Video Resolution	1080p
Audio Format	Dolby True HD, DTS Master Audio, DVD-Audio, DSD
Supported	3D, Audio Return Channel, Deep Color, x.v.Color, LipSync, CEC

■ Video Inputs

Component	IN 1, IN 2
Composite	BD/DVD, VCR/DVR, CBL/SAT, GAME, AUX

■ Video Outputs

Component	OUT
Composite	MONITOR OUT, VCR/DVR OUT

■ Audio Inputs

Digital	Optical: 2 Coaxial: 2
Analog	BD/DVD, VCR/DVR, CBL/SAT, GAME, TV/CD, AUX

■ Audio Outputs

Analog	VCR/DVR, ZONE2 Line Out
Subwoofer Pre Output	1
Speaker Outputs	Main (L, R, C, SL, SR, SBL, SBR) + ZONE2 / Front High (L, R)
Phones	1 (6.3 ϕ)

■ Others

SETUP MIC	1
Universal Port	1
RI	1

Specifications and features are subject to change without notice.

7.1ch Home Theater Speaker Package (HTP-680)

■ Powered Subwoofer (SKW-770)

Type	Bass-reflex
Input sensitivity/Impedance	140 mV/20 k Ω
Maximum output power	290 W (Dynamic power)
Frequency response	25 Hz to 150 Hz
Cabinet capacity	37 L (1.3 cubic feet)
Dimensions (W × H × D)	10-13/16" × 19-15/16" × 16-3/16" 275 mm × 507 mm × 411 mm (incl. projection)
Weight	11.6 kg (25.6 lbs.)
Drivers unit	10" (25 cm) Cone Woofer
Power supply	AC 120 V, 60 Hz
Power consumption	163 W

■ Front Speaker (SKF-680)

Type	2 Way closed box
Impedance	6 Ω
Maximum input power	130 W
Sensitivity	81 dB/W/m
Frequency response	60 Hz to 50 kHz
Crossover frequency	4 kHz
Cabinet capacity	2.1 L (0.074 cubic feet)
Dimensions (W × H × D)	4-3/4" × 11-7/16" × 4" 120 mm × 290 mm × 102 mm (incl. grille and projection)
Weight	1.1 kg (2.4 lbs.)
Drivers unit	4" (10 cm) Cone (Woofer) × 2 1" (2.5 cm) Balanced dome (Tweeter)
Terminal	Spring type color coded
Keyhole slot	2
Grille	Fixed

■ Center Speaker (SKC-680)

Type	2 Way closed box
Impedance	6 Ω
Maximum input power	130 W
Sensitivity	81 dB/W/m
Frequency response	60 Hz to 50 kHz
Crossover frequency	4 kHz
Cabinet capacity	2.1 L (0.074 cubic feet)
Dimensions (W × H × D)	11-7/16" × 4-13/16" × 4-7/16" 290 mm × 122 mm × 113 mm (incl. grille and projection)
Weight	1.1 kg (2.4 lbs.)
Drivers unit	4" (10 cm) Cone (Woofer) × 2 1" (2.5 cm) Balanced dome (Tweeter)
Terminal	Spring type color coded
Keyhole slot	2
Grille	Fixed

■ Surround/Surround Back Speaker (SKR-680/SKB-680)

Type	Full-Range closed box
Impedance	6 Ω
Maximum input power	130 W
Sensitivity	79 dB/W/m
Frequency response	70 Hz to 20 kHz
Cabinet capacity	2.1 L (0.074 cubic feet)
Dimensions (W × H × D)	4-3/4" × 11-7/16" × 4" 120 mm × 290 mm × 102 mm (incl. grille and projection)
Weight	0.8 kg (1.8 lbs.)
Drivers unit	8 cm (3-1/4") Cone
Terminal	Spring type color coded
Keyhole slot	2
Grille	Fixed

7.1ch Home Theater Speaker Package (HTP-780)

■ Powered Subwoofer (SKW-780)

Type	Bass-reflex
Input sensitivity/Impedance	140 mV/20 kΩ
Maximum output power	290 W (Dynamic power)
Frequency response	25 Hz to 150 Hz
Cabinet capacity	37 L (1.3 cubic feet)
Dimensions (W × H × D)	10-13/16" × 19-15/16" × 16-3/16" 275 mm × 507 mm × 411 mm (incl. projection)
Weight	11.6 kg (25.6 lbs.)
Drivers unit	10" (25 cm) Cone Woofer
Power supply	AC 120 V, 60 Hz
Power consumption	163 W

■ Front Speaker (SKF-780)

Type	2 Way Bass-reflex
Impedance	6Ω
Maximum input power	130 W
Sensitivity	79.5 dB/W/m
Frequency response	55 Hz–50 kHz
Crossover frequency	4 kHz
Cabinet capacity	7.3 L (0.26 cubic feet)
Assembly dimensions (with supplied speaker base) (W × H × D):	10-5/16" × 41-1/8" × 10-5/16" 262 mm × 1045 mm × 262 mm (incl. projection)
Weight	5.2 kg (11.5 lbs.) (incl. speaker base)
Drivers unit	3-1/4" (8 cm) Cone (Woofer) × 2 1" (2.5 cm) Balanced dome (Tweeter)
Terminal	Spring type color coded
Grille	Fixed

■ Center Speaker (SKC-780)

Type	2 Way Bass-reflex
Impedance	6Ω
Maximum input power	130 W
Sensitivity	79 dB/W/m
Frequency response	60 Hz–50 kHz
Crossover frequency	4 kHz
Cabinet capacity	2.8 L (0.10 cubic feet)
Dimensions (W × H × D)	16-9/16" × 4-1/2" × 4-3/4" 420 mm × 115 mm × 121 mm (incl. grille and projection)
Weight	2.2 kg (4.9 lbs.)
Drivers unit	3-1/4" (8 cm) Cone (Woofer) × 2 1" (2.5 cm) Balanced dome (Tweeter)
Terminal	Spring type color coded
Keyhole slot	2
Grille	Fixed

■ Surround/Surround Back Speaker (SKR-780/SKB-780)

Type	Full-Range closed box
Impedance	6Ω
Maximum input power	130 W
Sensitivity	81 dB/W/m
Frequency response	80 Hz–20 kHz
Cabinet capacity	1.0 L (0.036 cubic feet)
Dimensions (W × H × D)	4-1/2" × 9-1/16" × 3-3/4" 115 mm × 230 mm × 96 mm (incl. grille and projection)
Weight	1.0 kg (2.2 lbs.)
Drivers unit	3-1/4" (8 cm) Cone
Terminal	Spring type color coded
Keyhole slot	1
Grille	Fixed

Dock for iPod UP-A1

Dimensions (W × H × D)	3-1/4" × 1-5/16" × 2-15/16" 83 mm × 33 mm × 74 mm
Weight	170 g (6 ounces)

Specifications and features are subject to change without notice.

About HDMI

Designed to meet the increased demands of digital TV, HDMI (High Definition Multimedia Interface) is a new digital interface standard for connecting TVs, projectors, Blu-ray Disc/DVD players, set-top boxes, and other video components. Until now, several separate video and audio cables have been required to connect AV components. With HDMI, a single cable can carry control signals, digital video, and up to eight channels of digital audio (2-channel PCM, multichannel digital audio, and multichannel PCM).

The HDMI video stream (i.e., video signal) is compatible with DVI (Digital Visual Interface)*1, so TVs and displays with a DVI input can be connected by using an HDMI-to-DVI adapter cable. (This may not work with some TVs and displays, resulting in no picture.)

The AV receiver uses HDCP (High-bandwidth Digital Content Protection)*2, so only HDCP-compatible components can display the picture.

The AV receiver's HDMI interface is based on the following:

Audio Return Channel, 3D, x.v.Color, Deep Color, Lip Sync, DTS-HD Master Audio, DTS-HD High Resolution Audio, Dolby TrueHD, Dolby Digital Plus, DSD and Multichannel PCM

Supported Audio Formats

- 2-channel linear PCM (32–192 kHz, 16/20/24 bit)
- Multichannel linear PCM (up to 7.1 ch, 32–192 kHz, 16/20/24 bit)
- Bitstream (DSD, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, DTS-HD High Resolution Audio, DTS-HD Master Audio)

Your Blu-ray Disc/DVD player must also support HDMI output of the above audio formats.

About Copyright Protection

The AV receiver supports HDCP (High-bandwidth Digital Content Protection)*2, a copy-protection system for digital video signals. Other devices connected to the AV receiver via HDMI must also support HDCP.

*1 DVI (Digital Visual Interface): The digital display interface standard set by the DDWG*3 in 1999.

*2 HDCP (High-bandwidth Digital Content Protection): The video encryption technology developed by Intel for HDMI/DVI. It's designed to protect video content and requires a HDCP-compatible device to display the encrypted video.

*3 DDWG (Digital Display Working Group): Lead by Intel, Compaq, Fujitsu, Hewlett Packard, IBM, NEC, and Silicon Image, this open industry group's objective is to address the industry's requirements for a digital connectivity specification for high-performance PCs and digital displays.

Note

- The HDMI video stream is compatible with DVI (Digital Visual Interface), so TVs and displays with a DVI input can be connected by using an HDMI-to-DVI adapter cable. (Note that DVI connections only carry video, so you'll need to make a separate connection for audio.) However, reliable operation with such an adapter is not guaranteed. In addition, video signals from a PC are not supported.
- The HDMI audio signal (sampling rate, bit length, etc.) may be restricted by the connected source component. If the picture is poor or there's no sound from a component connected via HDMI, check its setup. Refer to the connected component's instruction manual for details.

Using an RIHD-compatible TV, Player, or Recorder

RIHD, which stands for Remote Interactive over HDMI, is the name of the system control function found on Onkyo components. The AV receiver can be used with CEC (Consumer Electronics Control), which allows system control over HDMI and is part of the HDMI standard. CEC provides interoperability between various components, however, operation with components other than **RIHD**-compatible components cannot be guaranteed.

■ About **RIHD**-compatible components

The following components are **RIHD**-compatible. (As of February 2010) See the Onkyo web site for latest information.

TV

- Panasonic VIERA Link compatible TV
- Toshiba REGZA-LINK compatible TV
- Sharp TV (See Onkyo web site for latest information on compatible models.)

Players/Recorders

- Onkyo and Integra **RIHD**-compatible players
- Panasonic VIERA Link compatible players and recorders (only when used together with Panasonic VIERA Link compatible TV)
- Toshiba REGZA-LINK compatible players and recorders (only when used together with Toshiba REGZA-LINK compatible TV)
- Sharp players and recorders (only when used together with Sharp TV)

- * Models other than those mentioned above may have some interoperability if compatible with CEC which is part of the HDMI Standard, but operation cannot be guaranteed.

Note

- Do not connect the **RIHD**-compatible component more than the following number to the HDMI input terminal so that the linked operations work properly.
 - Blu-ray Disc/DVD player is up to three.
 - Blu-ray Disc recorder/DVD recorder/Digital Video Recorder is up to three.
 - Cable/Satellite Set-top box is up to four.
- Do not connect the AV receiver to the other AV receiver/AV amplifier via HDMI.
- When the **RIHD**-compatible component more than the above-mentioned is connected, the linked operations are not guaranteed.

■ Operations that can be performed with **RIHD** connection

For **RIHD**-compatible TV

The following linked operation is possible by connecting the AV receiver to an **RIHD**-compatible TV.

- The AV receiver will enter Standby mode when the power of the TV is turned to Standby.
- You can set on the menu screen of the TV to either output the audio from the speakers connected to the AV receiver, or from the speakers of the TV.
- It is possible to output the video/audio from the antenna or from the input jack of the TV from the speakers connected to the AV receiver. (A connection such as optical digital cable or similar is required above the HDMI cable.)
- Input to the AV receiver can be selected with the remote controller of the TV.
- Operations such as volume adjustment or similar for the AV receiver can be performed from the remote controller of the TV.

For **RIHD**-compatible players/recorders

The following link operation is possible by connecting the AV receiver to an **RIHD**-compatible player/recorder.

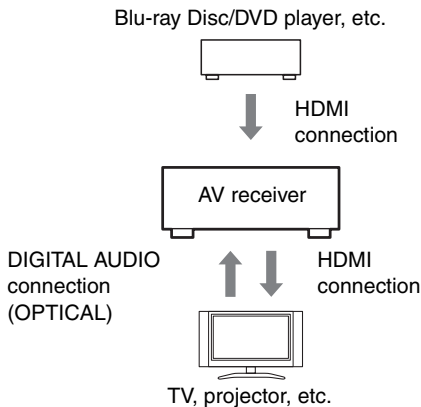
- When the playback is started on the player/recorder, input of the AV receiver will switch to the HDMI input of the player/recorder that is playing back.
- Operation of the player/recorder is possible with the remote controller supplied with the AV receiver.

- * Not all functions may operate depending on the model.

■ How to connect and setup

1 Confirm the connecting and setting.

1. Connect the **HDMI OUT** jack to the HDMI input jack of the TV.



2. Connect the audio output from the TV to the **OPTICAL IN 2** jack of the AV receiver using an optical digital cable.

Note

- When the audio return channel (ARC) function is used with TV for HDMI (Audio Return Channel), it should not be this connection (→ 49).
3. Connect the HDMI output of the Blu-ray Disc/DVD player/recorder to the **HDMI IN 1** jack of the AV receiver.

Note

- It is necessary to assign the HDMI input when connecting the Blu-ray Disc/DVD player/recorder to other jacks (→ 39). Do not assign the components connected to the HDMI IN to the TV/CD input at this time. Appropriate CEC (Consumer Electronics Control) operation can not be guaranteed.

2 Change each item in the “HDMI Setup” as below:

- **HDMI Control (RIHD): On**
- **Audio Return Channel (ARC): Auto**
- **Power Control: On**
- **TV Control: On**

See details of each setting (→ 49).

3 Confirm the settings.

1. Turn on the power for all connected components.
2. Turn off the power of the TV, and confirm that the power of the connected components is turned off automatically with the link operation.
3. Turn on the power of the Blu-ray Disc/DVD player/recorder.
4. Start playback of the Blu-ray Disc/DVD player/recorder, and confirm the following.
 - The power of the AV receiver is turned on automatically, and input with the Blu-ray Disc/DVD player/recorder connected is selected.
 - The power of the TV is turned on automatically, and input with the AV receiver connected is selected.
5. Following the operating instructions of the TV, select “Use the TV speakers” from the menu screen of the TV, and confirm that the audio is output from the speakers of the TV, and not from the speakers connected to the AV receiver.
6. Select “Use the speakers connected from the AV receiver” from the menu screen of the TV, and confirm that the audio is output from the speakers connected to the AV receiver, and not from the TV speakers.

Note

- Perform the above operations when you initially use the AV receiver, when the settings of each component are changed, when the main power of each component is turned off, when the power cable is disconnected from the power supply, or when there has been a power outage.

4 Operate with the remote controller.

For buttons that can be operated (→ 62).

Note

- Audio from DVD-Audio or Super Audio CD may not output from the TV speakers. You will be able to output the audio from the TV speakers by setting the audio output of the DVD player to 2ch PCM. (It may not be possible depending on the player models.)
- Even if you set to output audio on the TV speakers, audio will be output from the speakers connected to the AV receiver when you adjust the volume or switch the input on the AV receiver. To output audio from the TV speakers, re-do the operations on the TV.
- Do not connect the **RI** cable when connecting to the **RI** and **RI** audio control compatible components.
- When you select anything other than the HDMI jack where the AV receiver is connected as the input on the TV, input on the AV receiver will be switched to “TV/CD”.
- The AV receiver will automatically power on in conjunction when it determines it to be necessary. Even if the AV receiver is connected to an **RIHD** compatible TV or player/recorder, it will not power on if it is not necessary. It may not power on in conjunction when the TV is set to output audio from the TV.
- Linked functions with the AV receiver may not work depending on the model. Operate the AV receiver directly in such cases.

Video Resolution Chart

The following tables show how video signals at different resolutions are output by the AV receiver.

✓: Output

		Output	HDMI					Component					Composite
			1080p	1080i	720p	480p	480i	1080p	1080i	720p	480p	480i	480i
HDMI	1080p	✓											
	1080i	✓	✓	✓									
	720p	✓	✓	✓									
	480p	✓	✓	✓	✓								
	480i	✓	✓	✓	✓	✓							
Component	1080p	✓					✓						
	1080i	✓	✓	✓				✓					
	720p	✓	✓	✓					✓				
	480p	✓	✓	✓	✓					✓			
	480i	✓	✓	✓	✓	✓						✓	
Composite	480i	✓	✓	✓	✓	✓							✓

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