ONKYO®

5.1ch Home Theater System

HT-S3100
HT-S3105

AV Receiver (HT-R340)

Speaker Package

HTP-360 **(North American and Asian models)**

HTP-318 **(European models)**

Instruction Manual

Thank you for purchasing an Onkyo 5.1ch 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 5.1ch Home Theater System.
Please retain this manual for future reference.

Contents

En

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.

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 230–240 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.

   Some models have a voltage selector switch for compatibility with power systems around the world. Before you plug in such a model, make sure that the voltage selector is set to the correct voltage for your area.

   Pressing the [STANDBY/ON] button 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. **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.
6. **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.

For British models

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

IMPORTANT

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

Blue: Neutral
Brown: Live

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

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

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

IMPORTANT

The plug is fitted with an appropriate fuse. If the fuse needs to be replaced, the replacement fuse must approved by ASTA or BSI to BS1362 and have the same ampere rating as that indicated on the plug. Check for the ASTA mark or the BSI mark on the body of the fuse. If the power cord's plug is not suitable for your socket outlets, cut it off and fit a suitable plug. Fit a suitable fuse in the plug.

For European Models

Declaration of Conformity

We, ONKYO EUROPE ELECTRONICS GmbH LIEGNITZERSTRASSE 6, 82194 GROEBENZELL, GERMANY

CE

declare in own responsibility, that the ONKYO product described in this instruction manual is in compliance with the corresponding technical standards such as EN60065, EN55013, EN55020 and EN61000-3-2, -3-3.

GROEBENZELL, GERMANY

K. MIYAGI

ONKYO EUROPE ELECTRONICS GmbH

Memory Backup

The AV receiver uses a battery-less memory backup system in order to retain radio presets and other settings when it's unplugged or in the case of a power failure. Although no batteries are required, the AV receiver must be plugged into an AC outlet in order to charge the backup system. Once it has been charged, the AV receiver will retain the settings for several weeks, although this depends on the environment and will be shorter in humid climates.

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 DVD player, howling or slipping of sound may occur. To prevent this, move the unit away from the turntable, CD player or 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. To prevent this, the SKF-360F/SKF-318F and SKC-360C/SKC-318C feature internal magnetic shielding. In some situations, however, discoloration may still be an issue, in which case you should turn off your TV or monitor, wait 15 to 30 minutes, and then turn it back on again. This normally activates the degaussing function, which neutralizes the magnetic field, thereby removing any discoloration effects. If discoloration problems persist, try moving the speakers away from your TV or monitor. Note that discoloration can also be caused by a magnet or demagnetizing tool that's too close to your TV or monitor.

Do not place SKM-360S/SKM-318S close to TV or a computer monitor because they have no magnetic shield.

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.

Features

HT-R340 AV Receiver

- 100 W/channel into 6 ohms (FTC)
- 100 W/channel into 6 ohms (DIN)
- 120 W/channel into 6 ohms (JEITA)
- Dolby[*1] Digital and Dolby Pro Logic II
- DTS and DTS Neo:6[*2] 5.1
- Optimum Gain Volume Circuitry
- Massive High Current Power Supply (H.C.P.S.) transformer
- CinemaFILTER
- Non-Scaling Configuration
- A-Form — Auto Format Sensing
- OR-EQ (OptiResponse Equalizer)[*3] function
- 192 kHz/24-bit D/A converters
- Powerful and highly accurate Analog Devices 32-bit DSP processing
- 3 digital inputs (2 optical, 1 coaxial)
- HDTV-ready component video switching (3 inputs, 1 output)
- Adjustable crossover (40/50/60/80/100/120/150/200 Hz)
- Speaker A/B terminal
- Color-coded speaker terminal posts
- RI system control
- Compatible with RI Dock for iPod[*4]
- A/V Sync control function

*1. Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are registered trademarks of Dolby Laboratories.
*2. "DTS" and "Neo:6" are trademarks of Digital Theater Systems, Inc.
*3. OptiResponse, and OR-EQ are trademarks of Onkyo Corporation.
*4. Apple and iPod are trademarks of Apple Computer, Inc., registered in the U.S. and other countries.

HTP-360 Speaker Package (North American and Asian model)

SKF-360F L/R 2-Way Front Speakers
SKC-360C 2-Way Center Speaker
(North American model)

- 3-1/4" (8 cm) cone woofer
- 3/4" (2 cm) ceramic tweeter
- Max. input power:120 W
- Magnetically shielded
- Color-coded speaker terminals and speaker cable
- 6-ohm impedance

SKC-360C 2-Way Center Speaker (Asian model)

- 3-1/4" (8 cm) cone woofer × 2
- 3/4" (2 cm) ceramic tweeter
- Max. input power:120 W
- Magnetically shielded
- Color-coded speaker terminals and speaker cable
- 6-ohm impedance

SKM-360S L/R Full-Range Surround Speakers

- 3-1/4" (8 cm) full-range speaker
- Max. input power:120 W
- 6-ohm impedance
- Color-coded speaker terminals and speaker cable

SKW-360 Bass Reflex Subwoofer

- 8" (20 cm) cone woofer
- Max. input power:130 W
- Color-coded speaker terminals and speaker cable

HTP-318 Speaker Package (European model)

SKF-318F L/R 2-Way Front Speakers
SKC-318C 2-Way Center Speaker

- 3-1/4" (8 cm) cone woofer
- 3/4" (2 cm) ceramic tweeter
- Max. input power:120 W
- Magnetically shielded
- Color-coded speaker terminals and speaker cable
- 6-ohm impedance

SKM-318S L/R Full-Range Surround Speakers

- 3-1/4" (8 cm) full-range speaker
- Max. input power:120 W
- 6-ohm impedance
- Color-coded speaker terminals and speaker cable

SKW-318 Bass Reflex Subwoofer

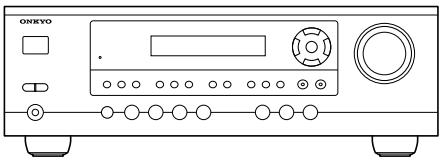
- 8" (20 cm) cone woofer
- Max. input power:130 W
- Color-coded speaker terminals and speaker cable

Contents

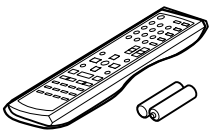
Package Contents

Make sure you have the following items:

AV Receiver HT-R340

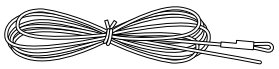


HT-R340



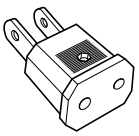
Remote controller & two batteries (AA/R6)

(American type shown)



Indoor FM antenna
(Connector type varies from country to country.)

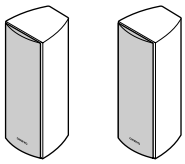
AM loop antenna



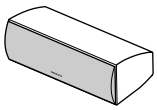
Power-plug adapter
Only supplied in certain countries. Use this adapter if your AC outlet does not match with the plug on the AV receiver's power cord. (Adapter varies from country to country.)

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

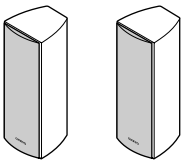
Speaker Package HTP-360 (North American and Asian models)



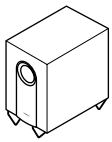
Front speakers (SKF-360F L/R)



Center speaker (SKC-360C)

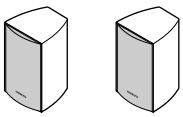


Surround speakers (SKM-360S L/R)

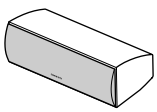


Subwoofer (SKW-360)

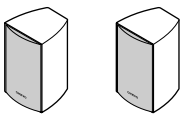
Speaker Package HTP-318 (European models)



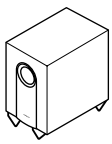
Front speakers (SKF-318F L/R)



Center speaker (SKC-318C)

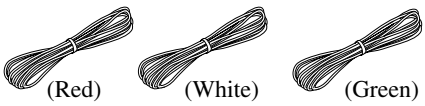


Surround speakers (SKM-318S L/R)

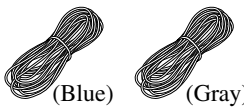


Subwoofer (SKW-318)

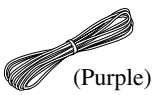
Speaker Package Accessories



Speaker cable for front speakers and center speaker 11 ft. (3.5 m)

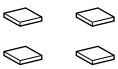


Speaker cables for surround speakers 30 ft. (9 m)



Speaker cables for subwoofer 15 ft. (4.5 m)

16 thin rubber stoppers, 12 thick rubber stoppers

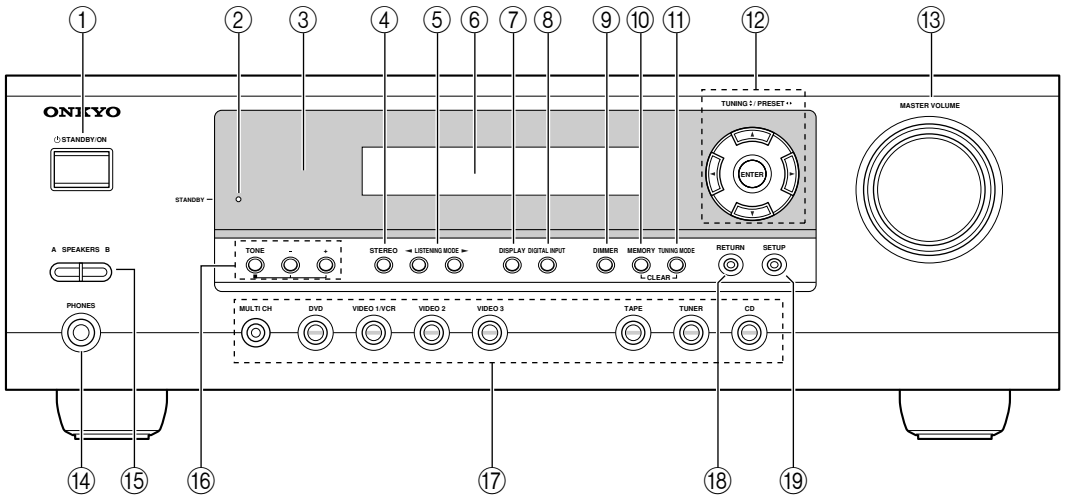


4 floor pads for the subwoofer

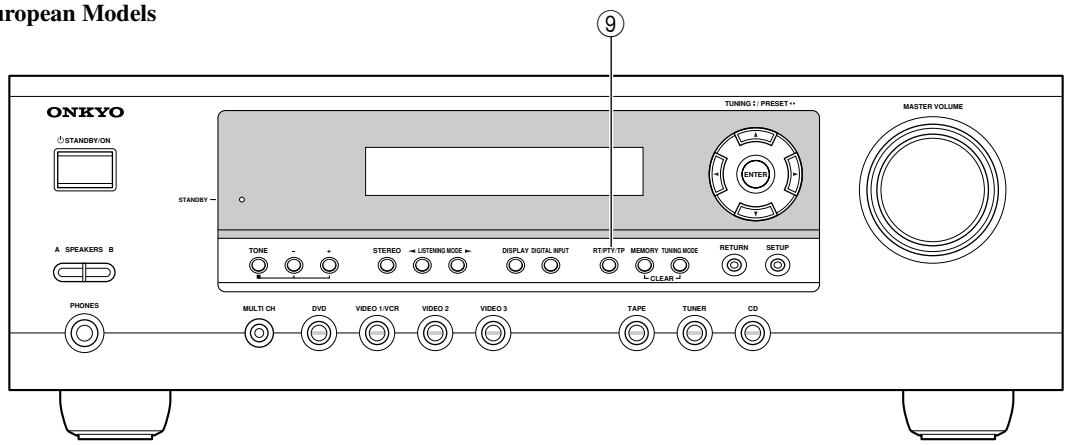
Front & Rear Panels

Front Panel

North American and Asian Models



European Models



For detailed information, see the pages in parentheses.

① **STANDBY/ON button (37)**
This button is used to set the AV receiver to On or Standby.

② **STANDBY indicator (37)**
This indicator lights up when the AV receiver is in Standby mode, and it flashes while a signal is being received from the remote controller.

③ **Remote-control sensor (19)**
This sensor receives control signals from the remote controller.

④ **STEREO button (49)**
This button is used to select the Stereo listening mode.

⑤ **LISTENING MODE [◄]/[►] buttons (49)**
These buttons are used to select the listening modes.

⑥ **Display**
See “Display” on page 9.

⑦ **DISPLAY button (40)**
This button is used to display various information about the currently selected input source.

⑧ **DIGITAL INPUT button (38, 57)**
This button is used to assign the digital inputs and to specify the format of digital input signals.

⑨ **DIMMER or RT/PTY/TP button (44, 45)**
This button is used to adjust the display brightness.

On the European model, this is the RT/PTY/TP button, and it’s used with RDS (Radio Data System). See “Using RDS (European models only)” on page 43.

⑩ **MEMORY button (42)**
This button is used when storing or deleting radio presets.

⑪ **TUNING MODE button (41)**
This button is used to select the Auto or Manual tuning mode.

⑫ **Arrow/TUNING/PRESET & ENTER buttons (51, 53–56)**
When the AM or FM input source is selected, the TUNING [▲] [▼] buttons are used to tune the tuner, and the PRESET [◀] [▶] buttons are used to select radio presets (see pages 41, 42). When the setup menus are used, they work as arrow buttons and are used to select and set items. The ENTER button is also used with the setup menus.

⑬ **MASTER VOLUME control (39)**
This control is used to adjust the volume of the AV receiver.

⑭ **PHONES jack (45)**
This 1/4-inch phone jack is for connecting a standard pair of stereo headphones for private listening.

⑮ **SPEAKERS A & B buttons (39)**
These buttons are used to turn speaker sets A and B on or off.

⑯ **TONE, [–] & [+] buttons (45)**
These buttons are used to adjust the bass and treble.

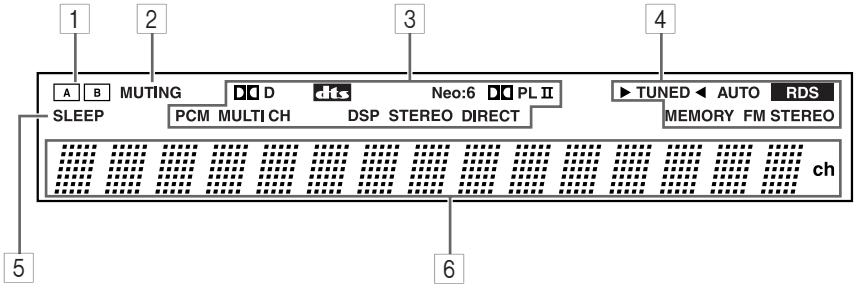
⑰ **Input selector buttons (38–40)**
These buttons are used to select from the following input sources: MULTI CH, DVD, VIDEO 1/VCR, VIDEO 2, VIDEO 3, TAPE, TUNER, or CD.

The [MULTI CH] button selects the DVD analog multichannel input.

⑱ **RETURN button (51, 53, 54, 56)**
This button is used to return to the previously displayed setup menu.

⑲ **SETUP button (51, 53–56)**
This button is used to access various settings.

Display



For detailed information, see the pages in parentheses.

1 **A & B speaker indicators (20, 39)**
Indicator A lights up when speaker set A is on. Indicator B lights up when speaker set B is on.

2 **MUTING indicator (46)**
This indicator flashes when the AV receiver is muted.

3 **Source/listening mode indicators (50, 57)**
These indicators show the currently selected listening mode and digital audio format.

4 **Tuning indicators**

TUNED (41): This indicator lights up when the AV receiver is tuned to a radio station.

AUTO (41): This indicator lights up when Auto Tuning is selected and disappears when Manual Tuning is selected.

RDS (European model only) (43): This indicator lights up when the AV Receiver is tuned to a radio station that supports RDS (Radio Data System).

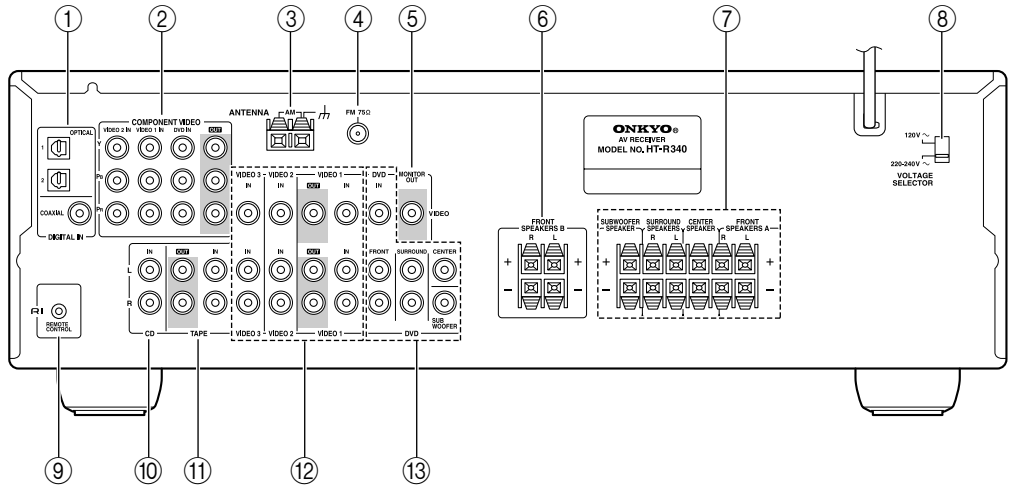
MEMORY (42): This indicator lights up when presetting radio stations.

FM STEREO (41): This indicator lights up when the AV receiver is tuned to a stereo FM station.

5 **SLEEP indicator (46)**
This indicator lights up when the Sleep function has been set.

6 **Message area**
This area of the display shows various information about the currently selected source.

Rear Panel



① **DIGITAL IN OPTICAL 1, 2 & COAXIAL**
These optical and coaxial jacks can be used to connect a CD or DVD player and other components with digital audio outputs.

② **COMPONENT VIDEO**
A DVD player, TV, or other component that supports component video can be connected here.

③ **AM ANTENNA**
These push terminals are for connecting an AM antenna.

④ **FM ANTENNA**
This jack is for connecting an FM antenna.

⑤ **MONITOR OUT**
The composite video output should be connected to a video input on your TV or projector.

⑥ **FRONT SPEAKERS B**
These push terminals are for connecting speaker set B.

⑦ **FRONT SPEAKERS A, SURROUND SPEAKERS, CENTER SPEAKER & SUBWOOFER SPEAKER**
These push terminals are for connecting speaker set A.

⑧ **VOLTAGE SELECTOR (only some models)**
This voltage selector provides compatibility with power systems around the world.

⑨ **RI**
This RI (Remote Interactive) jack can be connected to the RI jack on another Onkyo component. The AV receiver's remote controller can then be used to control that component.

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

Note:
RI can only be used with Onkyo components.

⑩ **CD IN**
These analog inputs can be used to connect a CD player with analog outputs.

⑪ **TAPE IN/OUT**
These analog inputs and outputs can be used to connect a cassette recorder, MiniDisc recorder, or other recorder with analog inputs and outputs.

⑫ **VIDEO 1 IN/OUT, VIDEO 2 IN & VIDEO 3 IN**
The VIDEO 1, composite video, and audio inputs and outputs can be used to connect a VCR. The VIDEO 2, VIDEO 3, composite video, and audio inputs can be used to connect another video source (e.g., cable TV, satellite TV, or a set-top box).

⑬ **DVD IN**
The FRONT, SURROUND, CENTER, and SUBWOOFER jacks can be used to connect a component with an analog multichannel audio output, such as a DVD player with a 5.1-channel analog output. The composite video input should be connected to a video output on the DVD player.

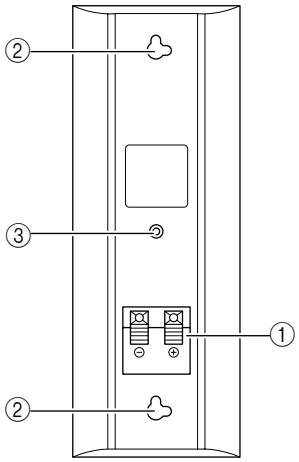
See pages 20–36 for connection information.

Speaker Package

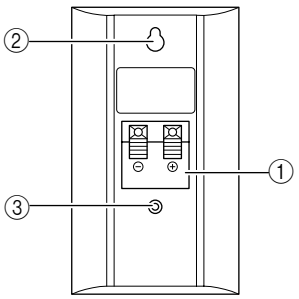
Front, Center, Surround, & Subwoofer speakers (SKF-360F/SKF-318F, SKC-360C/SKC-318C, SKM-360S/SKM-318S, SKW-360/SKW-318)

■ **Rear**

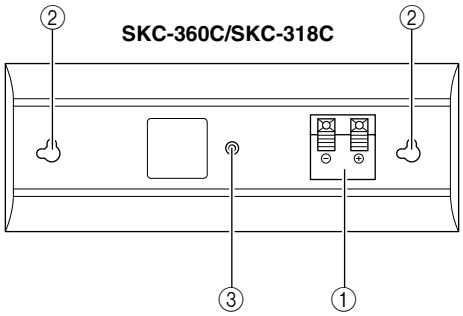
SKF-360F/SKM-360S



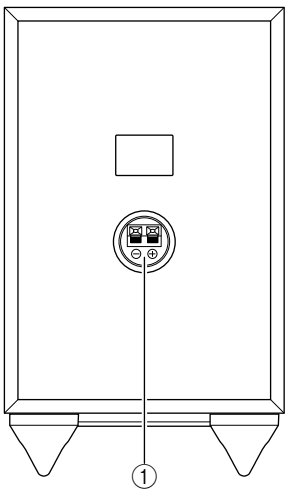
SKF-318F/SKM-318S



SKC-360C/SKC-318C



SKW-360/SKW-318



① **Speaker terminals**
These push terminals are for connecting the speaker to the HT-R340 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.

② **Keyhole slots**
These keyhole slots can be used to wall-mount the speaker. See page 22 for mounting instructions.

③ **Speaker mount/bracket inserts**
These threaded inserts can be used to attach the speaker to a speaker mount or bracket. See page 22 for mounting instructions.

Note:
Use commercially available machine screws to attach the speaker to a speaker mount or bracket. North American models require 1/4-inch screws. Other models require M5 (5 mm) screws.

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

How to Use the Remote Controller

Including the AV receiver, the remote controller can be used to control up to six different components. The remote controller has a specific operating mode for use with each type of component. Modes are selected by using the five REMOTE MODE buttons.

■ RECEIVER/TAPE Mode

In RECEIVER/TAPE mode, you can control the AV receiver and an Onkyo cassette recorder connected via RI.

■ DVD, CD, MD, CDR & HDD Modes

With these modes, you can control an Onkyo DVD player and CD/MD/CDR/HDD player/recorder.

1 **Use the REMOTE MODE buttons to select a mode.**

2 **Use the buttons supported by that mode to control the component.**

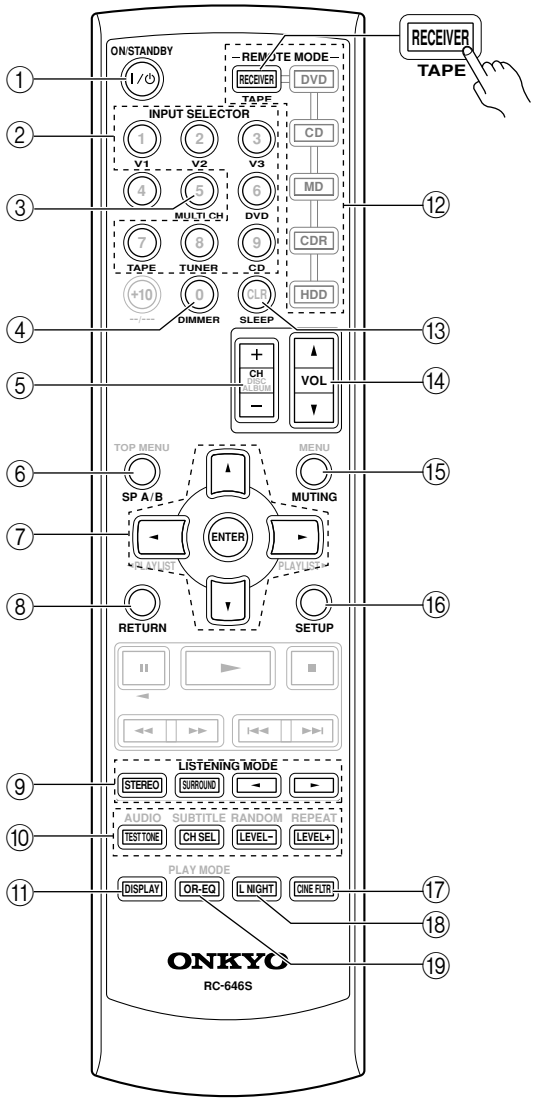
RECEIVER mode: see right column
DVD mode: see page 14
CD mode: see page 15
MD/CDR mode: see page 16
HDD mode: see page 17
TAPE mode: see page 18

Note:
Some of the remote controller operations described in this manual may not work as expected with other components.

RECEIVER Mode

RECEIVER mode is used to control the AV receiver.

To set the remote controller to RECEIVER mode, press the [RECEIVER] REMOTE MODE button.



For detailed information, see the pages in parentheses.

① **ON/STANDBY button (37)**
This button is used to set the AV receiver to On or Standby.

② **INPUT SELECTOR buttons (39)**
These buttons are used to select the input sources.

③ **MULTI CH button (40)**
This button is used to select the multichannel DVD input.

④ **DIMMER button (45)**
This button is used to adjust the display brightness.

⑤ **CH +/– button (42)**
This button is used to select radio presets.

⑥ **SP A/B button (39)**
This button is used to turn speaker sets A and B on or off.

⑦ **Arrow [▲]/[▼]/[◄]/[►] & ENTER buttons (51, 53–56)**
These buttons are used to select and adjust settings.

⑧ **RETURN button (51, 53, 54, 56)**
This button is used to return to the previous display when changing settings.

⑨ **LISTENING MODE buttons (49)**
These buttons can be used to select listening modes regardless of the currently selected remote controller mode.

STEREO button
This button selects the Stereo listening mode.

SURROUND button
This button selects the Dolby and DTS listening modes.

[◄]/[►] buttons
These buttons can be used to select any of the available listening modes.

⑩ **TEST TONE, CH SEL, LEVEL- & LEVEL+ buttons (37, 47, 54)**
These buttons are used to adjust the level of each speaker.

⑪ **DISPLAY button (40)**
This button is used to display various information about the currently selected input source.

⑫ **REMOTE MODE buttons (12)**
These buttons are used to select the remote controller modes. When you press a button on the remote controller, the REMOTE MODE button for the currently selected mode lights up.

⑬ **SLEEP button (46)**
This button is used to set the Sleep function.

⑭ **VOL [▲]/[▼] button (39)**
This button can be used to adjust the volume of the AV receiver regardless of the currently selected remote controller mode.

⑮ **MUTING button (46)**
This button is used to mute the AV receiver.

⑯ **SETUP button (51, 53–56)**
This button is used to access various settings.

⑰ **CINE FLTR button (52)**
This button is used to set the CinemaFILTER function.

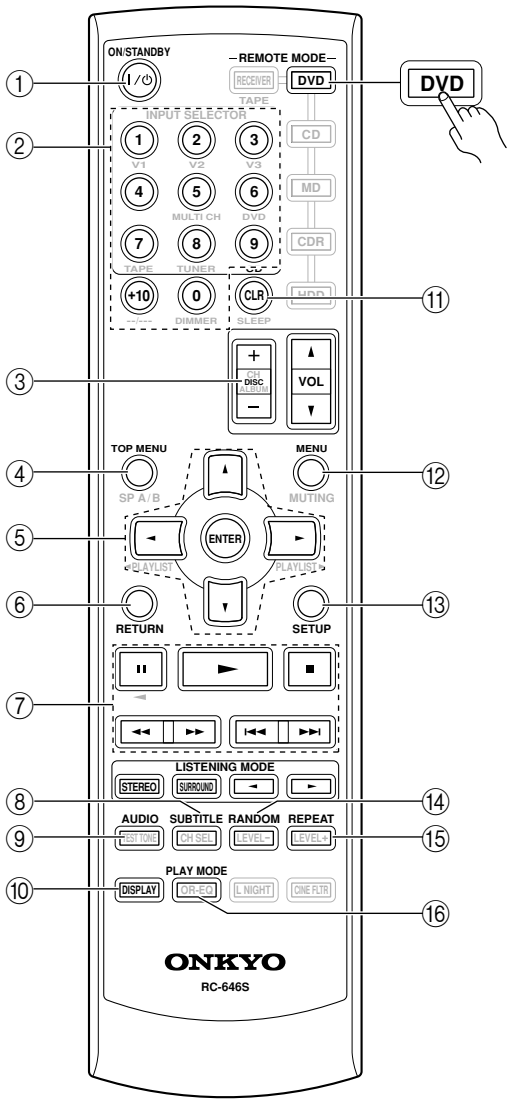
⑱ **L NIGHT button (52)**
This button is used to set the Late Night function.

⑲ **OR-EQ button (46)**
This button is used to turn on the OptiResponse Equalizer, which optimizes performance when the HT-R340 is used with the speakers included in the HTP-360/HTP-318 Home Theater Speaker Package. When the OptiResponse Equalizer is on, you can enjoy a powerful sound with movies or music even at low volume levels.

DVD Mode

To select your DVD player as the input source, press:

To set the remote controller to DVD mode, press the [DVD] REMOTE MODE button.



① **ON/STANDBY button**
This button sets the DVD player to On or Standby.

② **Number buttons**
These buttons are used to enter title, chapter, and track numbers and to enter times for locating specific points in time.

③ **DISC +/– button**
This button selects discs on a DVD changer.

④ **TOP MENU button**
This button is used to select a DVD's top menu.

⑤ **Arrow [▲]/[▼]/[◄]/[►] & ENTER buttons**
These buttons are used to navigate DVD menus and the DVD player's onscreen setup menus.

⑥ **RETURN button**
This button is used to exit the DVD player's onscreen setup menu and to restart menu playback.

⑦ **Playback buttons**
From left to right: Pause, Play, Stop, Fast Reverse, Fast Forward, Previous, and Next.

⑧ **SUBTITLE button**
This button is used to select subtitles.

⑨ **AUDIO button**
This button selects foreign language soundtracks and audio formats (e.g., Dolby Digital or DTS).

⑩ **DISPLAY button**
This button is used to display information about the current disc, title, chapter, or track on the DVD player's display, including the elapsed time, remaining time, total time, and so on.

⑪ **CLR button**
This button is used to cancel functions and to clear entered numbers.

⑫ **MENU button**
This button is used to display a DVD's menu.

⑬ **SETUP button**
This button is used to access the DVD player's onscreen setup menus.

⑭ **RANDOM button**
This button is used with the random playback function.

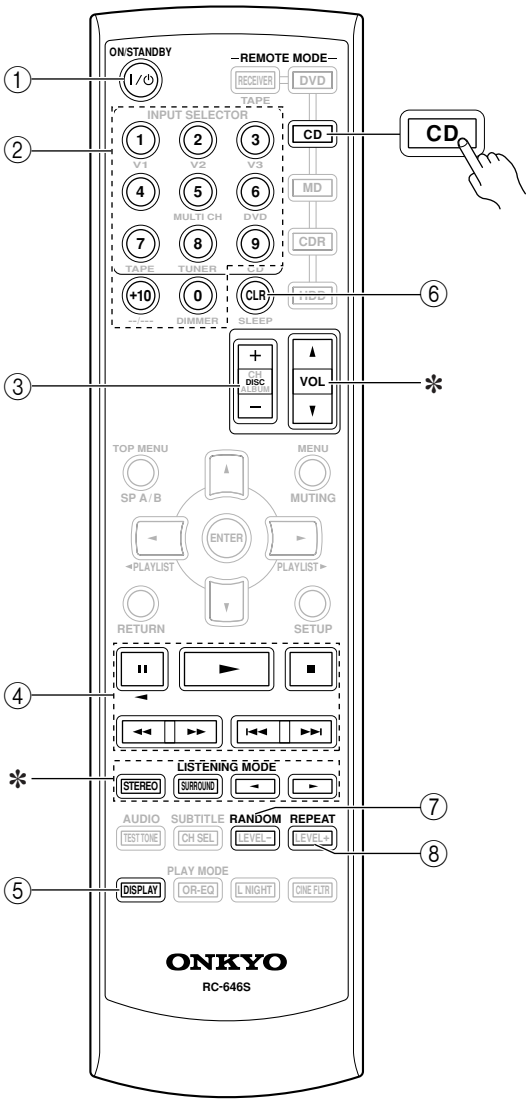
⑮ **REPEAT button**
This button is used to set the repeat playback functions.

⑯ **PLAY MODE button**
This button is used to select play modes on a component with selectable play modes.

CD Mode

To select your CD player as the input source, press:

To set the remote controller to CD mode, press the [CD] REMOTE MODE button.



① **ON/STANDBY button**
This button sets the CD player to On or Standby.

② **Number buttons**
These buttons are used to enter track numbers and to enter times for locating specific points in time.

③ **DISC +/– button**
This button selects discs on a CD changer.

④ **Playback buttons**
From left to right: Pause, Play, Stop, Fast Reverse, Fast Forward, Previous and Next.

⑤ **DISPLAY button**
This button is used to display information about the current disc or track on the CD player's display, including the elapsed time, remaining time, total time, and so on.

⑥ **CLR button**
This button is used to cancel functions and to clear entered numbers.

⑦ **RANDOM button**
This button is used with the random playback function.

⑧ **REPEAT button**
This button is used to set the repeat playback functions.

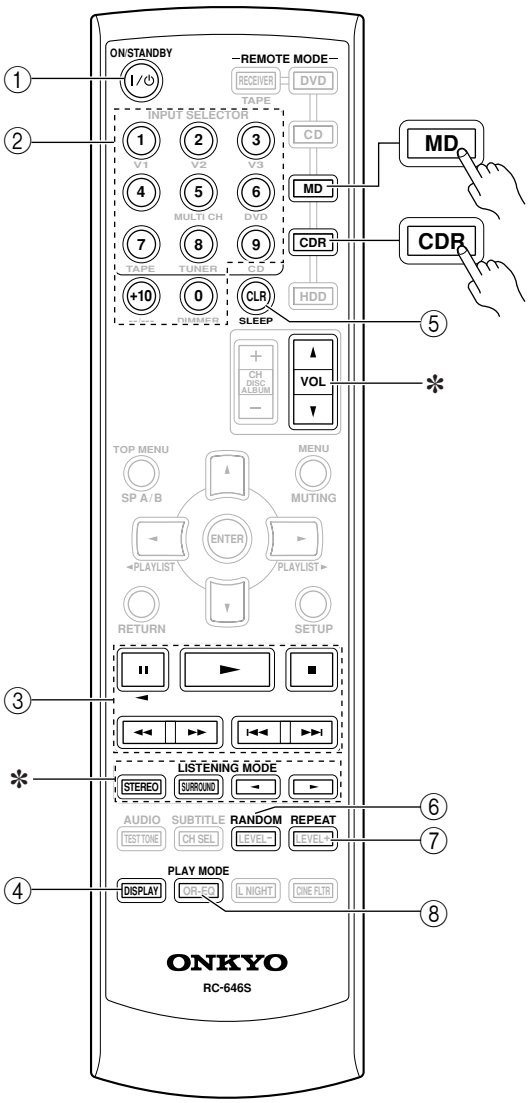
✻ The VOL [▲]/[▼] and LISTENING MODE buttons work the same as for RECEIVER mode.

MD, & CDR Mode

To select your MiniDisc or CD recorder as the input source, press:

* You must change the Input Display (see page 38).

To set the remote controller to MD or CDR mode, press the [MD] or [CDR] REMOTE MODE button.



① **ON/STANDBY button**
This button sets the MD/CD recorder to On or Standby.

② **Number buttons**
These buttons are used to enter track numbers and to enter times for locating specific points in time. The [+10] button is used to enter numbers above 10.

③ **Playback buttons**
From left to right: Pause, Play, Stop, Fast Reverse, Fast Forward, Previous and Next.

④ **DISPLAY button**
This button is used to display information about the current disc or track on the MD/CD recorder's display, including the elapsed time, remaining time, total time, and so on.

⑤ **CLR button**
This button is used to cancel functions and to clear entered numbers.

⑥ **RANDOM button**
This button is used with the random playback function.

⑦ **REPEAT button**
This button is used to set the repeat playback functions.

⑧ **PLAY MODE button**
This button is used to select play modes on a component with selectable play modes.

✻ The VOL [▲]/[▼] and LISTENING MODE buttons work the same as for RECEIVER mode.

HDD Mode

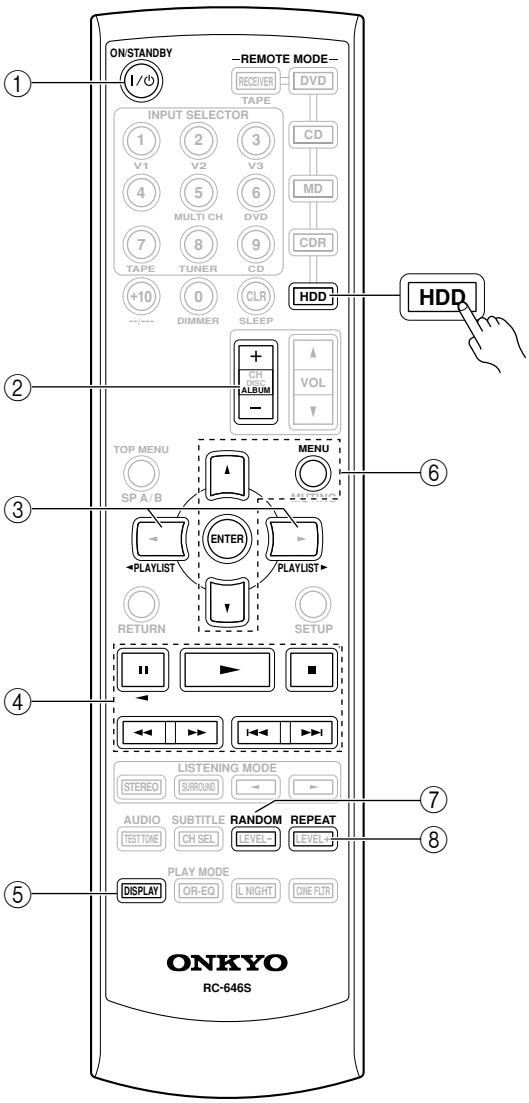
HDD mode is for controlling an Apple iPod in an Onkyo RI Dock that's connected via RI.

To select an Onkyo RI Dock that's connected via RI as the input source, press:

* You must change the Input Display (see page 38).

See page 34 for more information.

To set the remote controller to HDD mode, press the [HDD] REMOTE MODE button.



① **ON/STANDBY button**
This button sets the iPod to On or Standby.

② **ALBUM +/– button**
This button selects the next or previous album on an iPod.

③ **PLAYLIST [◄II]/[II►] buttons**
These buttons select the previous or next playlist on the iPod.

④ **Playback buttons**
From left to right: Pause, Play, Stop, Fast Reverse, Fast Forward, Previous and Next.

⑤ **DISPLAY button**
This button turns on the iPod's display for 30 seconds.

⑥ **MENU, ENTER, and Up and Down [▲]/[▼] buttons**

MENU button: Displays the iPod's menu.

[▲]/[▼] buttons: Select options on the iPod's menu.

ENTER button: Confirms the selection on the iPod's menu.

⑦ **RANDOM button**
This button is used with the random playback function.

⑧ **REPEAT button**
This button is used to set the repeat playback functions.

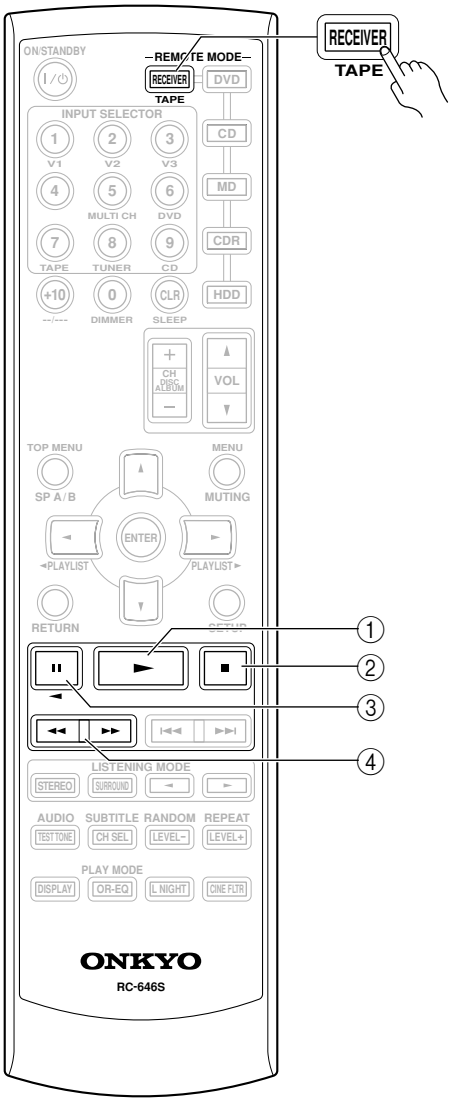
TAPE Mode

To select your Cassette deck as the input source, press:

TAPE mode is used to control an Onkyo cassette recorder connected to the AV receiver via .

To set the remote controller to TAPE mode, press the [RECEIVER] REMOTE MODE button.

For twin cassette decks, only deck B can be controlled.



① **Play [▶] button**
This button is used to start playback.

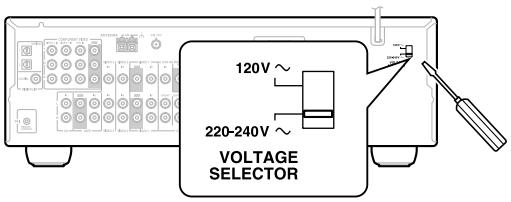
② **Stop [■] button**
This button is used to stop playback.

③ **Reverse Play [◀] button**
This button is used to start reverse playback.

④ **Rewind & FF [◀◀]/[▶▶] buttons**
The Rewind [◀◀] button is used to start rewind. The FF [▶▶] button is used to start fast forward.

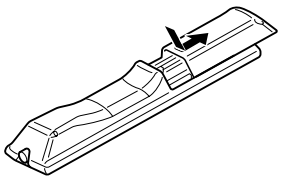
Setting the Voltage Selector (on some models)

Some models have a voltage selector switch for compatibility with power systems around the world. Before you plug in this model, make sure that the voltage selector is set to the correct voltage for your area. If it isn't, use a small screwdriver to set it as appropriate. For example, if the voltage in your area is 120 volts, set the selector to "120V." If it's between 220 and 240 volts, set it to "220-240V."

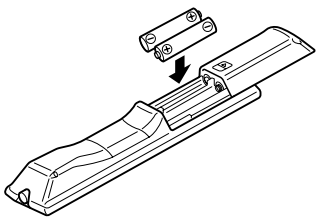


Installing the Batteries

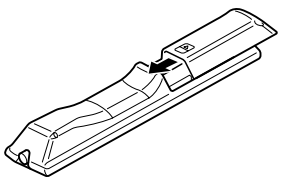
1 **To open the battery compartment, press the small hollow and slide open the cover.**



2 **Insert the two supplied batteries (AA/R6) in accordance with the polarity diagram inside the battery compartment.**



3 **Slide the cover shut.**

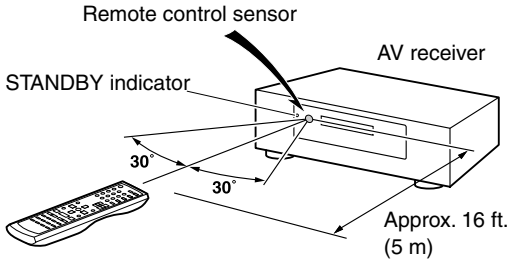


Notes:

- 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.
- Expired batteries should be removed as soon as possible to prevent damage from leakage or corrosion.

Using the Remote Controller

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



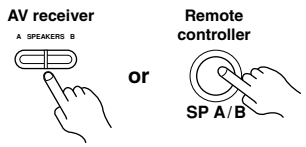
Notes:

- The remote controller may not work reliably if the AV receiver is subjected to bright light, such as direct sunlight or inverter-type fluorescent lights. Keep this in mind when installing.
- If another remote controller of the same type is used in the same room, or the AV receiver is installed close to equipment that uses infrared rays, the remote controller may not work reliably.
- Don't put anything, such as a book, on the remote controller, because the buttons may be pressed inadvertently, thereby draining the batteries.
- The remote controller may not work reliably if the AV receiver is installed in a rack behind colored glass doors. Keep this in mind when installing.
- The remote controller will not work if there's an obstacle between it and the AV receiver's remote control sensor.

Enjoying Home Theater

Speaker Sets A and B

You can use two sets of speakers with the AV receiver: ***speaker set A*** and ***speaker set B***.
Speaker set A should be used in your main listening room for up to 5.1-channel playback.
*While speaker set B is on, speaker set A is reduced to 2.1-channel playback.
Speaker set B can be used in another room and offers 2-channel stereo playback.



Speaker set A	Speaker set B	Indicator	Output
On	On	A B	Set A: 2.1 channels Set B: 2 channels
	Off	A	Set A: 5.1 channels
Off	On	B	Set B: 2 channels
	Off		No sound

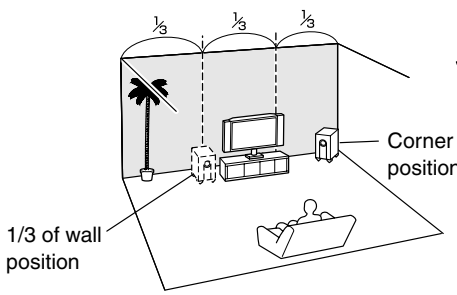
Speaker Set A: Main Room

Center speaker (SKC-360C)
This speaker enhances the front left and right speakers, making sound movements distinct and providing a full sound image. For movies it's used mainly for dialog. Position it close to your TV facing forward at about ear level, or at the same height as the front left and right speakers.

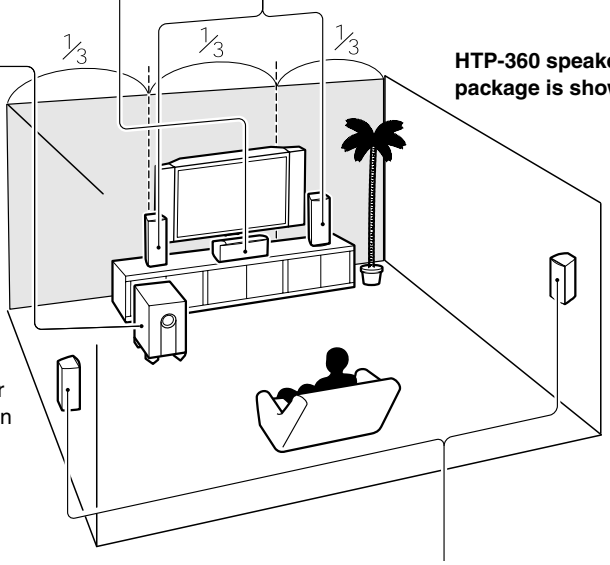
* While speaker set B is on, this speaker outputs no sound.

Front left and right speakers (SKF-360F L/R)
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 equally spaced from the TV. Angle them inward.

Subwoofer (SKW-360)
The subwoofer handles the bass sounds of the LFE (Low-Frequency Effects) channel. In general, a good bass sound can be obtained by installing the sub-woofer in a front corner, or at one-third the way along the wall, as shown.



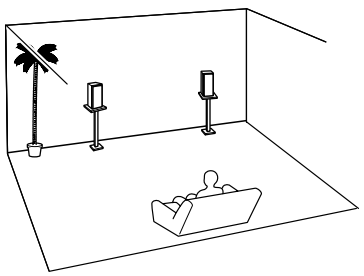
HTP-360 speaker package is shown



Surround left and right speakers (SKM-360S L/R)
These speakers are used for precise sound positioning and to add realistic ambience. Position them at the sides of the listener, or slightly behind, about 2–3 feet (60–100 cm) above ear level. Ideally they should be equally spaced from the listener.

* While speaker set B is on, these speakers output no sound.

Speaker Set B: Sub Room



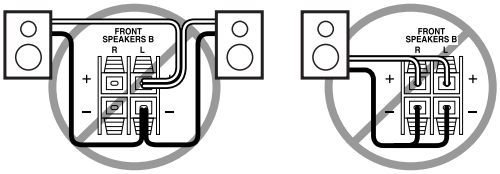
Connecting Your Speakers

Speaker Connection Precautions

Read the following before connecting your speakers:

- You can connect speakers with an impedance of **6 ohms or higher**. 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 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 to only positive (+) terminals, and negative (–) terminals to only 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.

- 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.

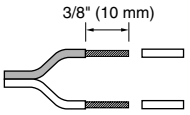


Connecting Speaker

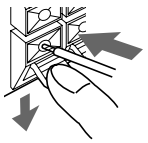
The AV receiver's positive (+) speaker terminals are color-coded for ease of identification. (The negative (–) speaker terminals are all black.)

Speaker terminal	Color
Front left	White
Front right	Red
Center	Green
Surround left	Blue
Surround right	Gray
Subwoofer	Purple

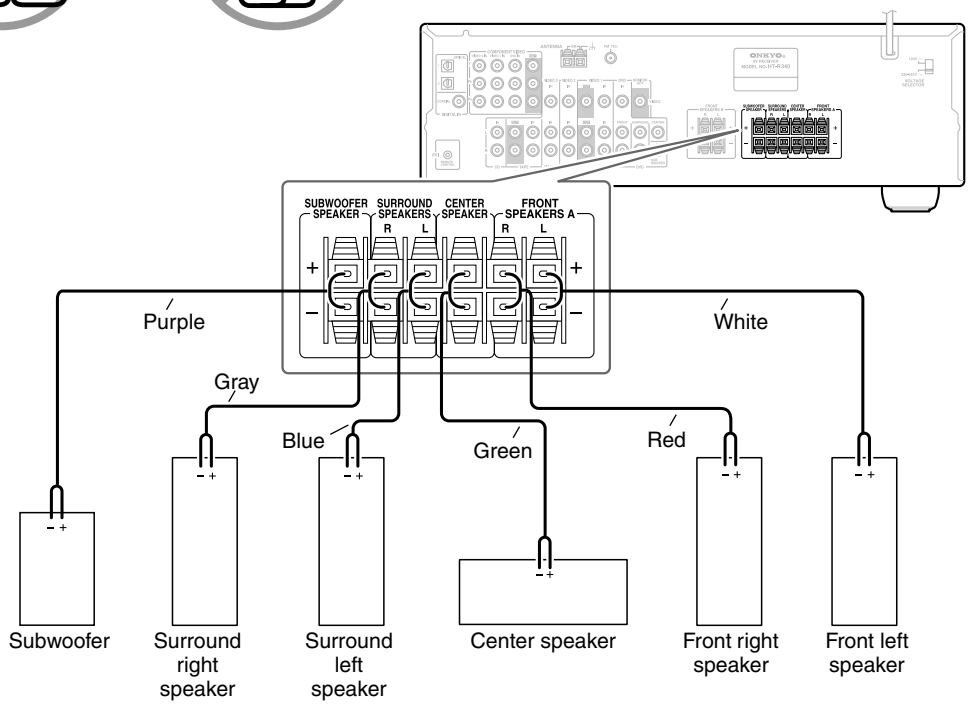
1 Strip 3/8" (10 mm) of insulation from the ends of the speaker cables. (Supplied speaker cables are already stripped.)



2 While pressing the lever, insert the wire into the hole, and then release the lever.
Make sure that the terminals are gripping the bare wires, not the insulation.



The following illustration shows which speaker should be connected to each pair of terminals.

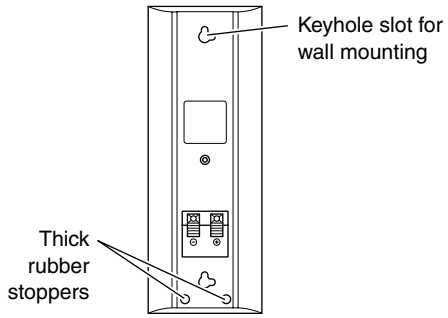


Wall Mounting

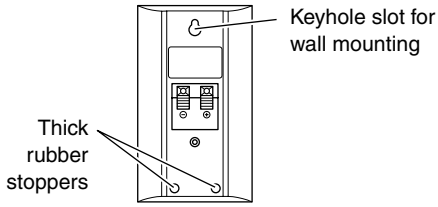
The speakers can easily be wall mounted by using the keyhole slots. To prevent the speaker from vibrating against the wall, attach two of the supplied thick rubber stoppers to the rear of each speaker.

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

HTP-360 Front/Surround speakers (SKF-360F/SKM-360S)

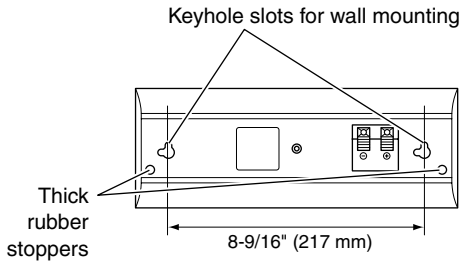


HTP-318 Front/Surround speakers (SKF-318F/SKM-318S)



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

Center speaker (SKC-360C/SKC-318C)



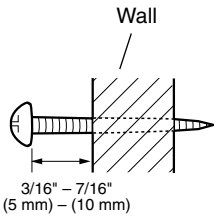
Caution:

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" (9 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.

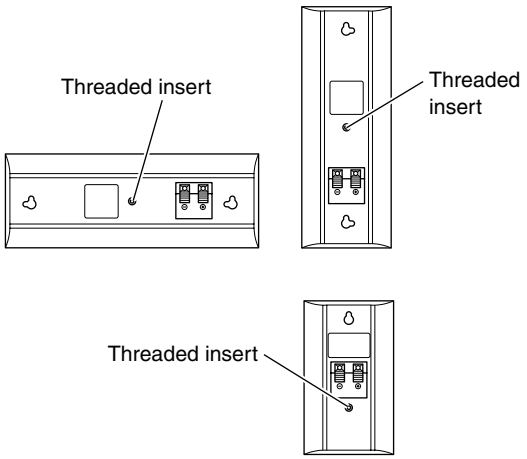
Leave a gap of between 3/16" (5 mm) and 7/16" (10 mm) between the wall and the base of the screw head, as shown.

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



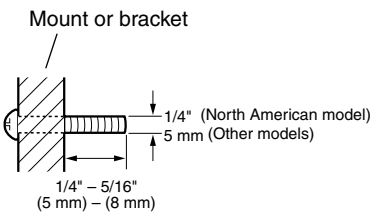
Using Speaker Mounts/Brackets

Threaded inserts for machine screws are provided on the rear of each speaker for wall-mounting with commercially available speaker mounts or brackets. North American models require 1/4-inch screws. Other models require M5 (5 mm) screws. Refer to the manual supplied with your mounts or brackets for installation details.



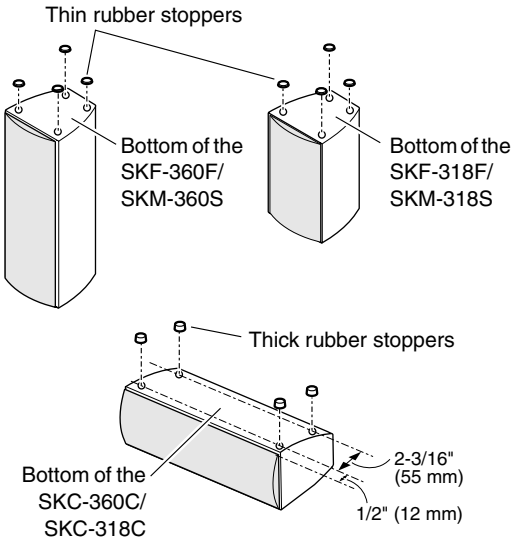
Note:

- The portion of the screw that goes into the speaker's threaded insert should be between 1/4" – 5/16" (5 mm – 8 mm) long.



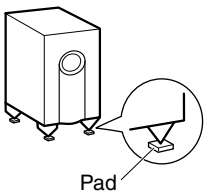
Using the Rubber Stoppers for a More Stable Platform

We recommend using the provided rubber stoppers to achieve the best possible sound from your speakers. The rubber stoppers prevent the speakers from moving, providing a more stable platform. Use thick stoppers for the center speaker, and thin stoppers for the other speakers.



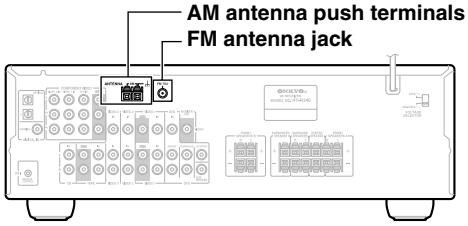
Using the Floor Pads for Subwoofer

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 Antenna

This section explains how to connect the supplied indoor FM antenna and AM loop antenna, and how to connect commercially available outdoor FM and AM antennas.
The AV receiver won't pick up any radio signals without any antenna connected, so you must connect the antenna to use the tuner.

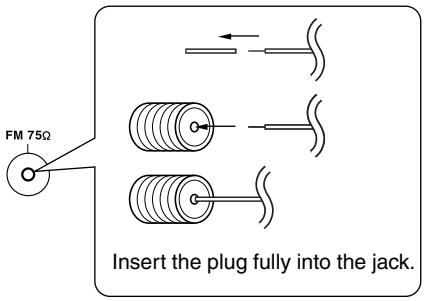


Connecting the Indoor FM Antenna

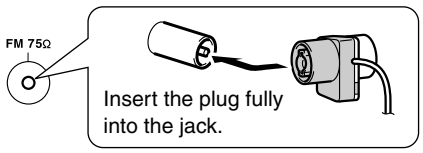
The supplied indoor FM antenna is for indoor use only.

1 **Attach the FM antenna, as shown.**

■ **American Model**



■ **Other Models**



Once your AV receiver is ready for use, you'll need to tune into an FM radio station and adjust the position of the FM antenna to achieve the best possible reception.

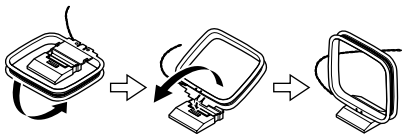
2 **Fully extend the antenna and point it in various directions to find the best reception. Secure it in that position with thumbtacks or something similar.**

If you cannot achieve good reception with the supplied indoor FM antenna, try a commercially available outdoor FM antenna instead (see page 25).

Connecting the AM Loop Antenna

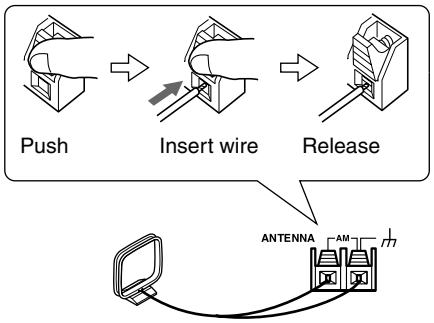
The supplied indoor AM loop antenna is for indoor use only.

1 **Assemble the AM loop antenna, inserting the tabs into the base, as shown.**



2 **Connect both wires of the AM loop antenna to the AM push terminals, as shown.**

(The antenna's wires are not polarity sensitive, so they can be connected either way around).
Make sure that the wires are attached securely and that the push terminals are gripping the bare wires, not the insulation.

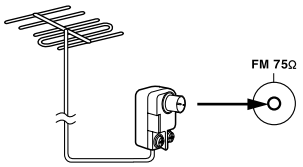


Once your AV receiver is ready for use, you'll need to tune into an AM radio station and adjust the position of the AM antenna to achieve the best possible reception.
Keep the antenna as far away as possible from your AV receiver, TV, speaker cables, and power cords.

If you cannot achieve good reception with the supplied indoor AM loop antenna, try using it with a commercially available outdoor AM antenna (see page 25).

Connecting an Outdoor FM Antenna

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

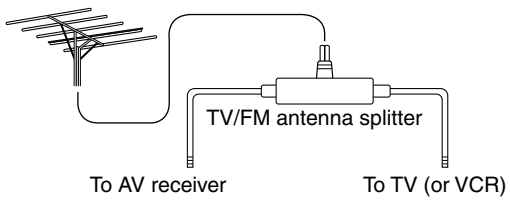


Notes:

- Outdoor FM antennas work best outside, but usable results can sometimes be obtained when installed in an attic or loft.
- For best results, install the outdoor FM antenna well away from tall buildings, preferably with a clear line of sight to your local FM transmitter.
- Outdoor antenna should be located away from possible noise sources, such as neon signs, busy roads, etc.
- For safety reasons, outdoor antenna should be situated well away from power lines and other high-voltage equipment.
- Outdoor antenna must be grounded in accordance with local regulations to prevent electrical shock hazards.

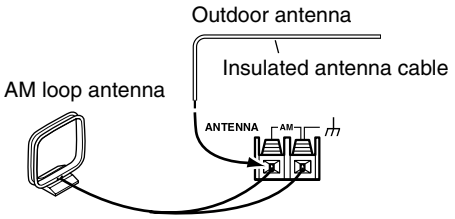
■ Using a TV/FM Antenna Splitter

It's best not to use the same antenna for both FM and TV reception, as this can cause interference problems. If circumstances demand it, use a TV/FM antenna splitter, as shown.



Connecting an Outdoor AM Antenna

If good reception cannot be achieved using the supplied AM loop antenna, an outdoor AM antenna can be used in addition to the loop antenna, as shown.



Outdoor AM antennas work best when installed outside horizontally, but good results can sometimes be obtained indoors by mounting horizontally above a window. Note that the AM loop antenna should be left connected.

Outdoor antenna must be grounded in accordance with local regulations to prevent electrical shock hazards.

Connecting Your Components

About AV Connections

- Before making any AV connections, read the manuals supplied with your other AV components.
- Don't connect the power cord until you've completed and double-checked all AV connections.

Optical Digital Jacks

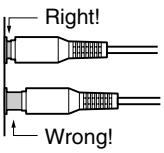
The AV receiver's optical digital jack has shutter-type cover that open when an optical plug is inserted and close when it's removed. Push plugs in all the way.

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

AV Connection Color Coding

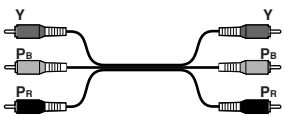
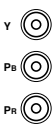
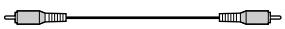
RCA-type AV connections are usually color coded: red, white, and yellow. Use red plugs to connect right-channel audio inputs and outputs (typically labeled "R"). Use white plugs to connect left-channel audio inputs and outputs (typically labeled "L"). And use yellow plugs to connect composite video inputs and outputs.

- 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.

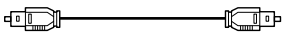
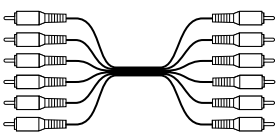
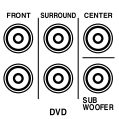


AV Cables & Jacks

Video

Cable		Jack	Description
Component video cable			Component video separates the luminance (Y) and color difference signals (PR, PB), providing the best picture quality. (Some TV manufacturers label their component video jacks slightly differently.)
Composite video cable			Composite video is commonly used on TVs, VCRs, and other video equipment. Use only dedicated composite video cables.

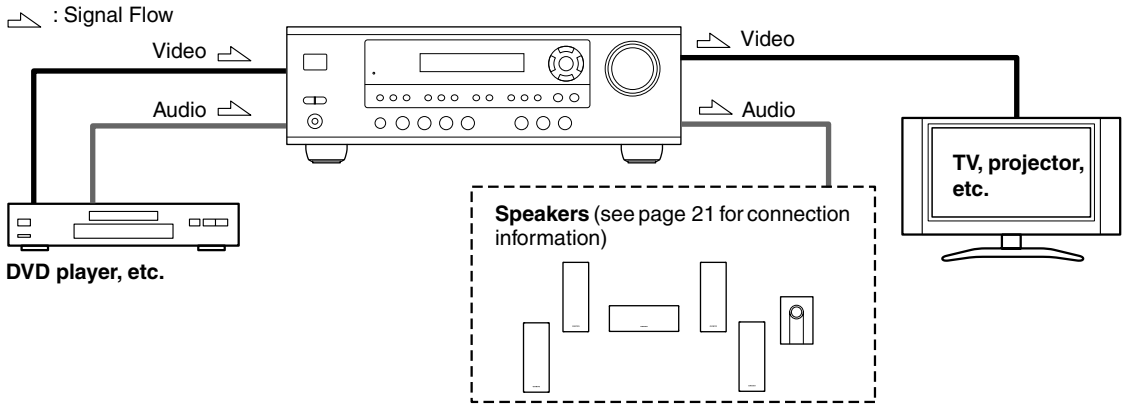
Audio

Cable		Jack	Description
Optical digital audio cable			Offers the best sound quality and allows you to enjoy surround sound (e.g., Dolby Digital, DTS). The audio quality is the same as for coaxial.
Coaxial digital audio cable			Offers the best sound quality and allows you to enjoy surround sound (e.g., Dolby Digital, DTS). The audio quality is the same as for optical.
Analog audio cable (RCA)			This cable carries analog audio. It's the most common connection format for analog audio and can be found on virtually all AV components.
Multichannel analog audio cable (RCA)			This cable carries multichannel analog audio and is typically used to connect DVD players with a 5.1-channel analog audio output. Several standard analog audio cables can be used instead of a multichannel cable.

Note: The AV receiver does not support SCART plugs.

Connecting Both Audio & Video

By connecting both the audio and video outputs of your DVD player and other AV components to the AV receiver, you can select both the audio and video simultaneously simply by selecting the appropriate input source on the AV receiver.



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 other components. Use the following sections as a guide.

For video components, such as a DVD player, you must make two connections—one for audio, one for video.

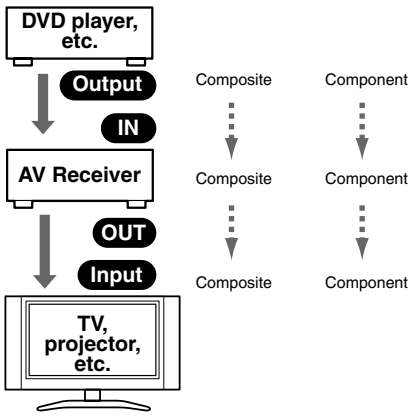
Video Connection Formats

Video equipment can be connected to the AV receiver using one of the following video connection formats: composite video, or component video, the latter offering the best picture quality.

When choosing a connection format, bear in mind that the AV receiver doesn't convert between formats, so only outputs of the same format as the input will output the signal.

For example, if you connect your DVD player to the COMPONENT VIDEO DVD IN, a video signal will be output by the COMPONENT OUT, but not by any composite video outputs.

Video Input/Output Diagram



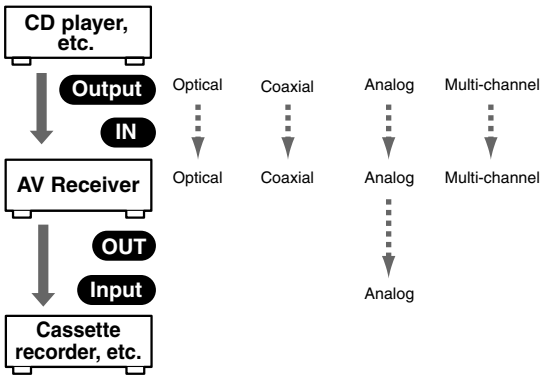
Audio Connection Formats

Audio equipment can be connected to the AV receiver using the following audio connection formats: analog, optical, coaxial, and multichannel.

When choosing a connection format, bear in mind that the AV receiver doesn't convert between formats.

For example, audio signals connected to an OPTICAL or COAXIAL digital input are not output by the analog TAPE OUT, so if you want to record from, for example, your CD player, in addition to connecting it to a digital input, you must also connect it to the analog CD IN.

Audio Input/Output Diagram for Recording

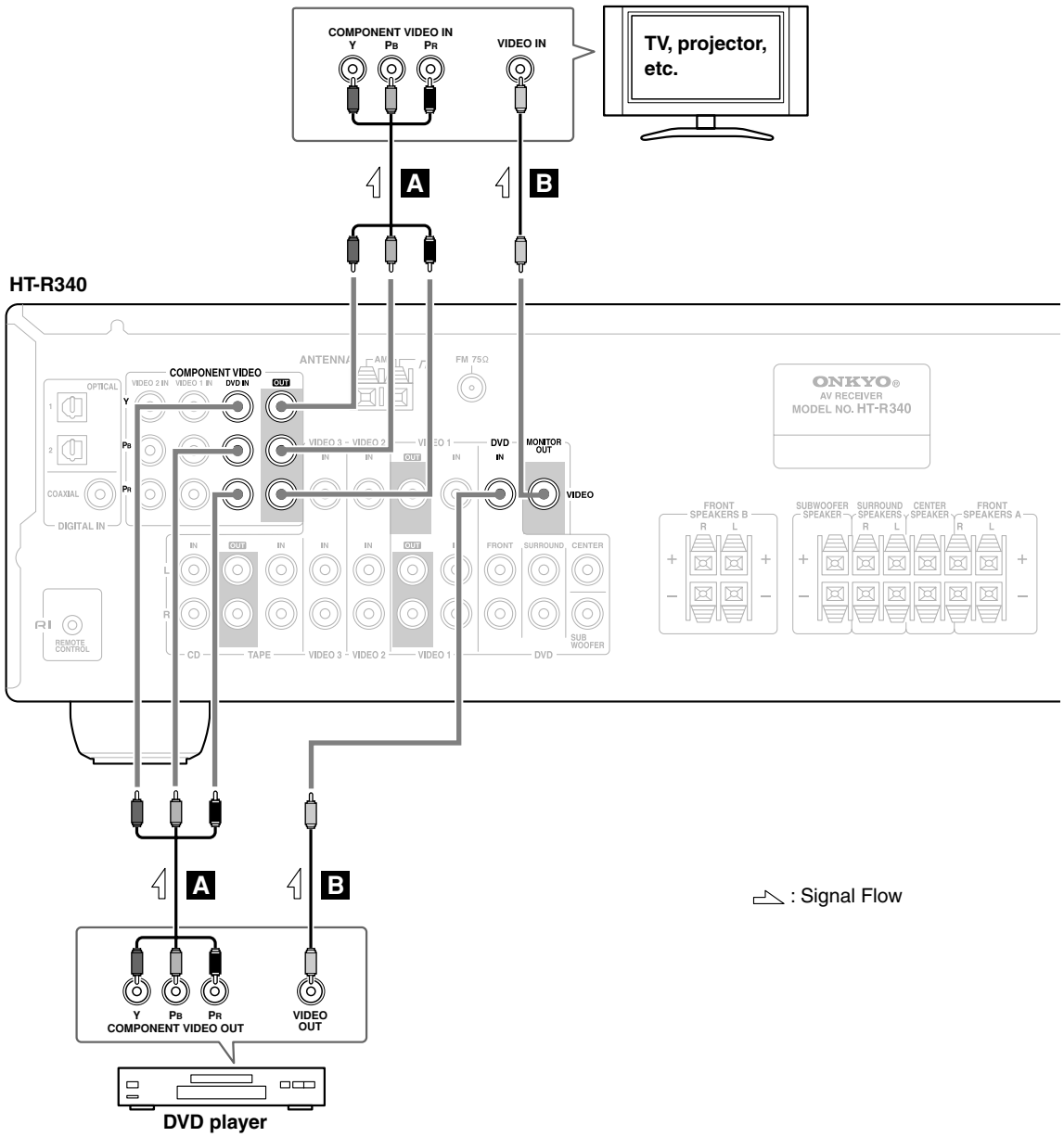


Connecting a DVD Player

Step 1: Video Connection (DVD Player to AV Receiver to TV)

A If your TV has component video input jacks, connect your DVD player to the AV receiver's COMPONENT VIDEO DVD IN jacks. And connect the AV receiver's COMPONENT VIDEO OUT jacks to your TV. This will provide better picture quality than connection **B**.

B If your TV doesn't have component video input jacks, connect your DVD player to the AV receiver's DVD IN VIDEO jack. And connect the AV receiver's MONITOR OUT VIDEO jack to your TV.



Step 2: Audio Connection

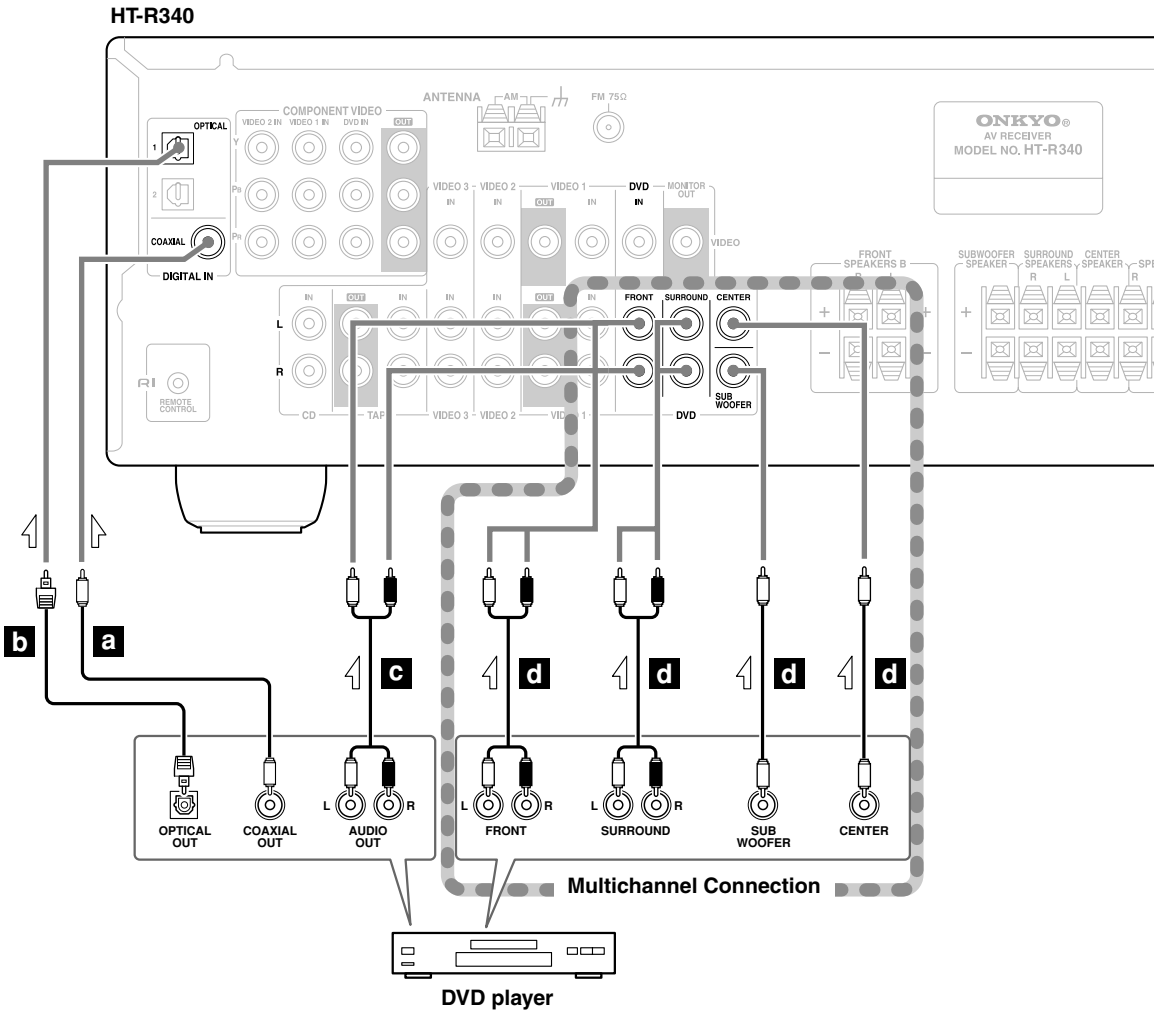
a If your DVD player has a coaxial digital audio output jack, connect it to the AV receiver's DIGITAL IN COAXIAL jack. You can enjoy Dolby and DTS listening modes with this connection.

b If your DVD player has an optical digital audio output jack instead of coaxial one, connect it to the AV receiver's DIGITAL IN OPTICAL 1 or 2 jack, and set the DIGITAL INPUT assignment to OPT1 or OPT 2 (see page 38). Coaxial connections perform the same as optical ones.

c Optionally, connecting your DVD player's audio out L/R jacks to the AV receiver's DVD IN FRONT L/R jacks will allow you to record audio from your DVD player.
Note: If your DVD player has main L/R output jacks and multichannel L/R output jacks, use the main L/R output jacks.

—Multichannel Audio Connection—

d If your DVD player has analog multichannel output jacks, connect them to the AV receiver's DVD IN FRONT, SURROUND, CENTER, and SUBWOOFER jacks. Use a multichannel analog cable or several normal audio cables. You can enjoy DVD-Audio or SACD with this connection.



: Signal Flow

Connecting a VCR

Connecting a VCR for Playback

Step 1: Video Connection (VCR to AV Receiver to TV)

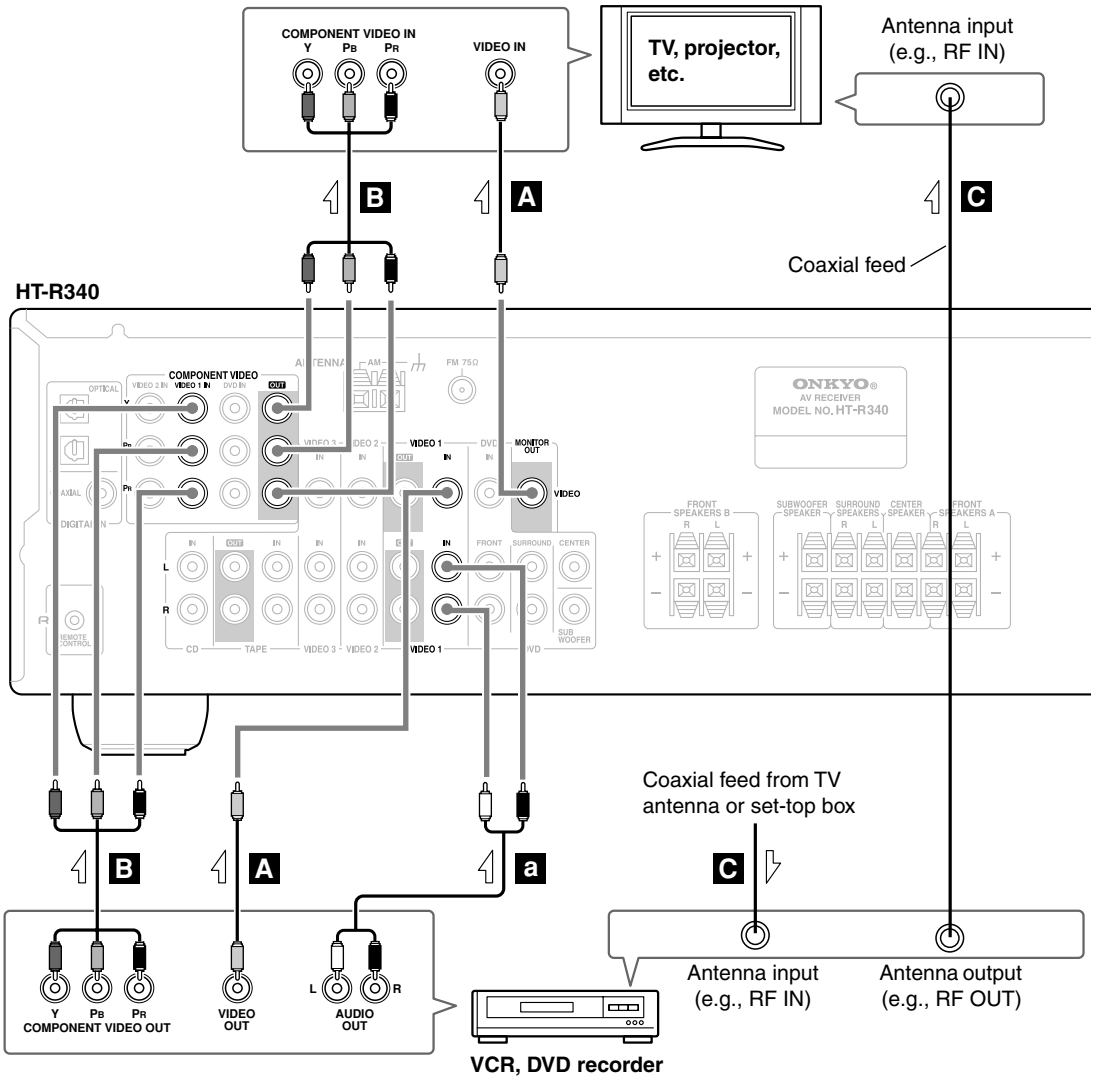
A Connect your VCR's video output jack to the AV receiver's VIDEO 1 IN jack and connect the AV receiver's MONITOR OUT jack to your TV's video input jack.

B If your VCR and TV have component video jacks, connect the VCR's component video output jacks to the AV receiver's COMPONENT VIDEO VIDEO 1 IN jacks, and connect the AV receiver's COMPONENT VIDEO OUT jacks to your TV's component video in jacks. This offers better picture quality than composite video.

C Connect a TV antenna output jack (e.g., RF OUT) to your VCR's antenna input, and connect your VCR's antenna output jack to your TV's antenna input jack.

Step 2: Audio Connection

a Connect your VCR's audio output jacks to the AV receiver's VIDEO 1 IN L/R jacks.



Connecting a VCR for Recording

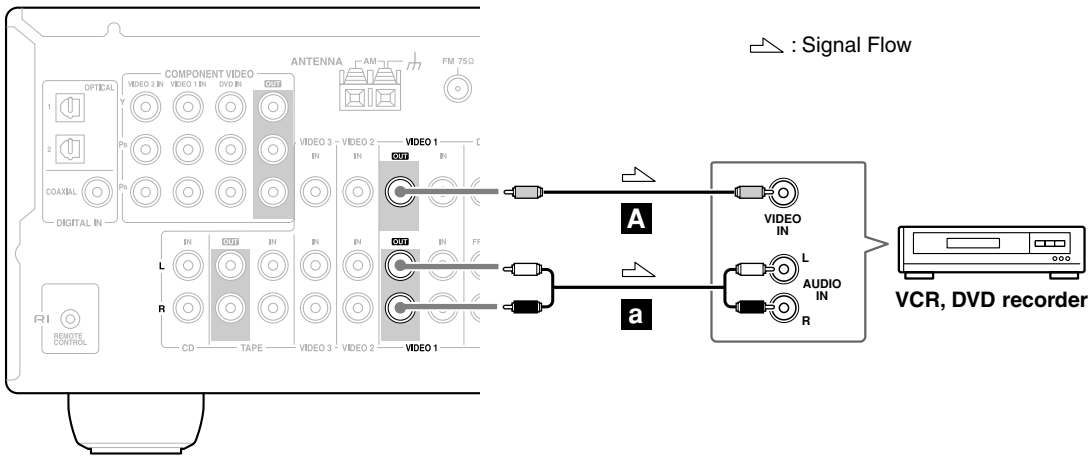
Step 1: Video Connection

A Connect the AV receiver's VIDEO 1 OUT jack to your VCR's video input jack.

Step 2: Audio Connection

a Connect the AV receiver's VIDEO 1 OUT L/R jacks to your VCR's audio input jacks.

HT-R340



Connecting a Camcorder, Games Console, or Other Device

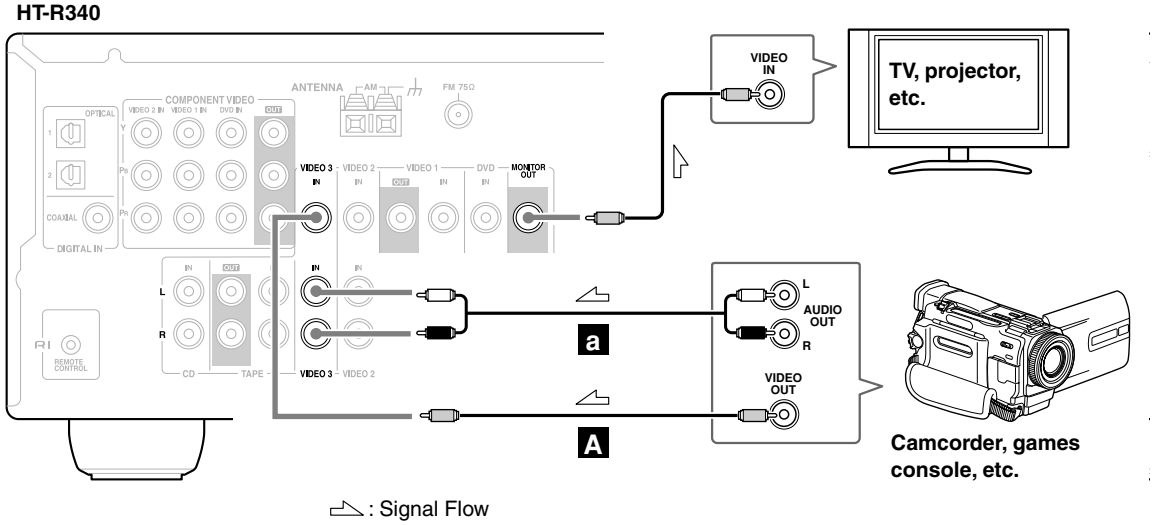
Step 1: Video Connection

A Connect your camcorder's video output jack to the AV receiver's VIDEO 3 IN jack.

Step 2: Audio Connection

a Connect your camcorder's audio output jack to the AV receiver's VIDEO 3 IN L/R jacks.

HT-R340



Connecting a Satellite, Cable, Set-top Box, or Other Video Source

Step 1: Video Connection

A Connect your set-top box's video output jack to the AV receiver's VIDEO 2 IN jack and connect the AV receiver's MONITOR OUT jack to your TV's video input jack.

B If your VCR and TV have component video jacks, connect your set-top box's component video output to the AV receiver's COMPONENT VIDEO VIDEO 2 IN jacks, and connect the AV receiver's COMPONENT VIDEO OUT jacks to your TV's component video in jacks. This offers better picture quality than composite video.

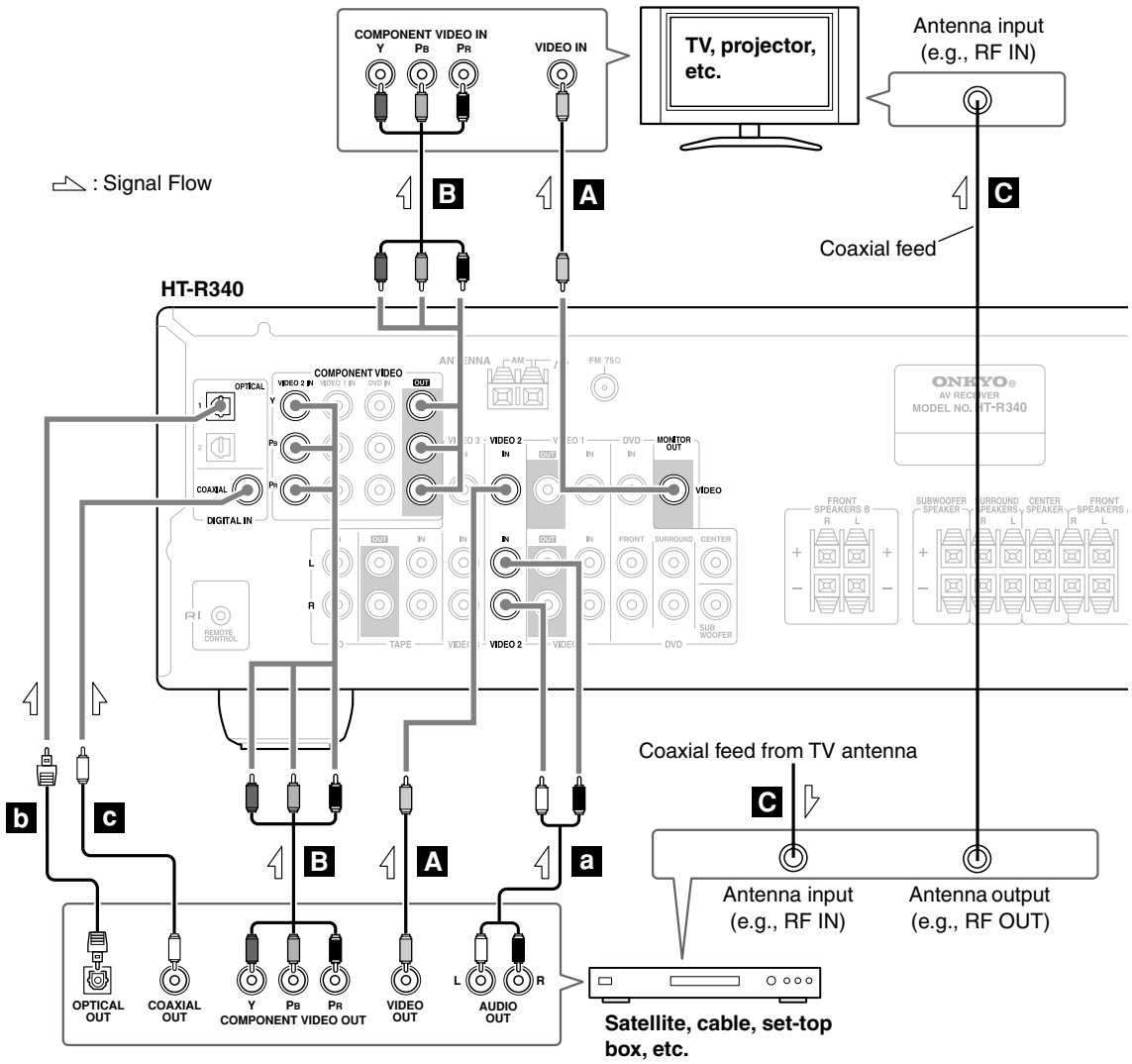
C Connect a coaxial feed from a TV antenna to your set-top box's antenna input jack (e.g., RF IN), and connect your set-top box's antenna output jack (e.g., RF OUT) to your TV's antenna input jack.

Step 2: Audio Connection

a Connect your set-top box's audio output jack to the AV receiver's VIDEO 2 IN L/R jacks.

b If your set-top box has an optical digital audio output jack, connect it to the AV receiver's DIGITAL IN OPTICAL 1 jack. You can enjoy Dolby and DTS listening modes with this connection.

c If your set-top box has a coaxial digital audio output jack instead of an optical one, connect it to the AV receiver's DIGITAL IN COAXIAL jack, and set the DIGITAL INPUT assignment to COAX (see page 38). Coaxial connections perform the same as optical ones.



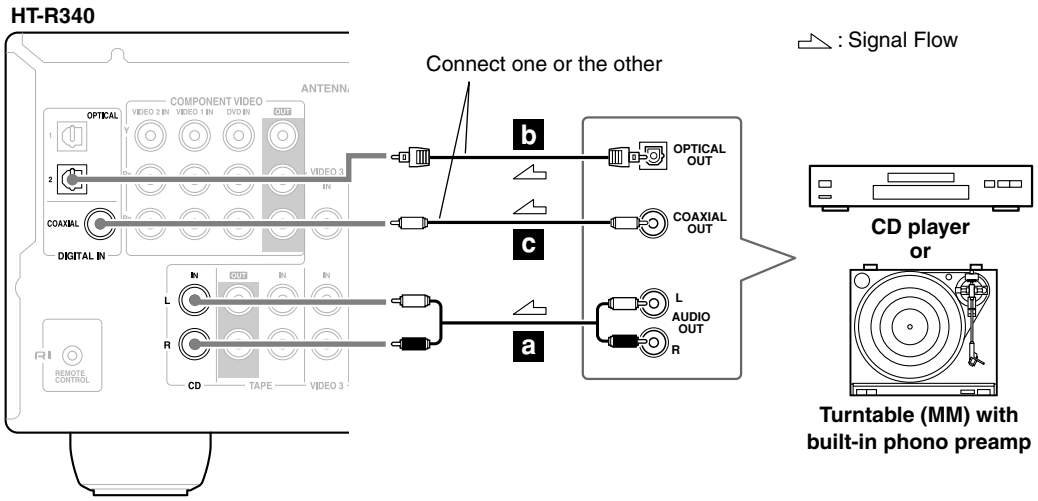
Connecting a CD Player or Turntable

■ CD Player or Turntable with Built-in Phono Preamp

a Connect your CD player's analog audio output jacks, or your turntable with built-in phono preamp's audio output jacks to the AV receiver's CD IN L/R jacks. With connection **a**, you can listen to and record audio from the CD player or turntable.

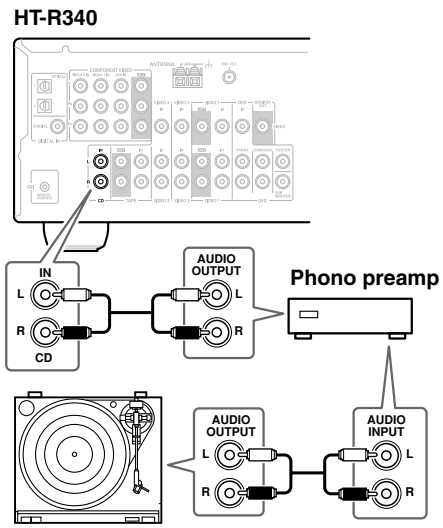
b If your CD player has an optical output jack, connect it to the AV receivers DIGITAL IN OPTICAL 2 jack.

c If your CD player has a coaxial output jack instead of an optical one, connect it to the AV receiver's DIGITAL IN COAXIAL jack, and set the DIGITAL INPUT assignment to COAX (see page 38). Coaxial connections perform the same as optical ones.



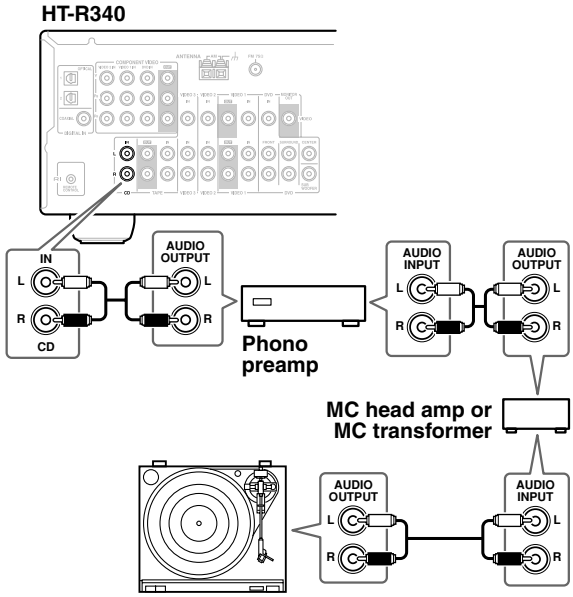
■ Turntable (MM) with no Phono Preamp Built-in

A phono preamp is necessary to connect a turntable that doesn't have a phono preamp built-in.



■ Turntable with an MC (Moving Coil) Cartridge

An MC head amp and phono preamp are necessary to connect a turntable with an MC (Moving Coil) cartridge.

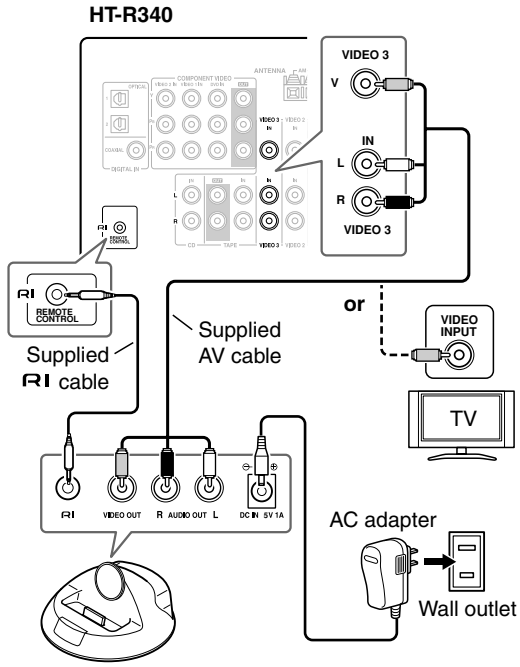


Connecting an Onkyo RI Dock for the iPod

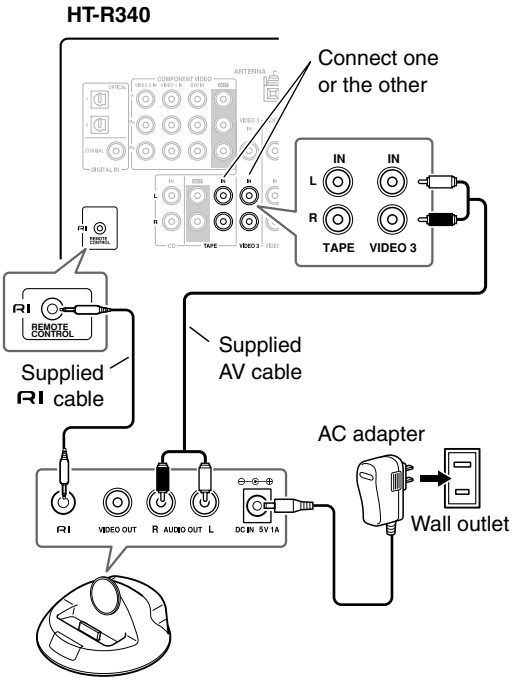
Not all iPods output video.

For information about which iPod models are supported by the RI Dock, see the RI Dock's instruction manual.

■ If Your iPod Supports Video:



■ If Your iPod Doesn't Support Video:



- **If you connect the RI Dock's AUDIO OUT L/R jacks to the AV receiver's TAPE IN jacks and also want to connect the RI Dock's VIDEO OUT jack to the AV receiver:**

  Connect the RI Dock's VIDEO OUT jack to an unused video input on the AV receiver. Do not connect it to the COMPONENT VIDEO jacks. To watch an iPod slideshow or video, select the video input source first, and then select the TAPE input source. The AV receiver will output the audio being fed to the TAPE input, and because the video source doesn't change when the TAPE input source is selected, it'll continue to output the video being fed to the video input.

- **What to do if you already have a component connected to the AV receiver's VIDEO 3 IN or TAPE IN jacks:**

  You can connect the RI Dock to an unused AV input on the AV receiver, however, you will not be able to control your iPod with the AV receiver's remote controller, as the RI functionality will be unavailable. The VIDE 3 IN and TAPE IN jacks are especially designed for use with the RI Dock.

Notes:

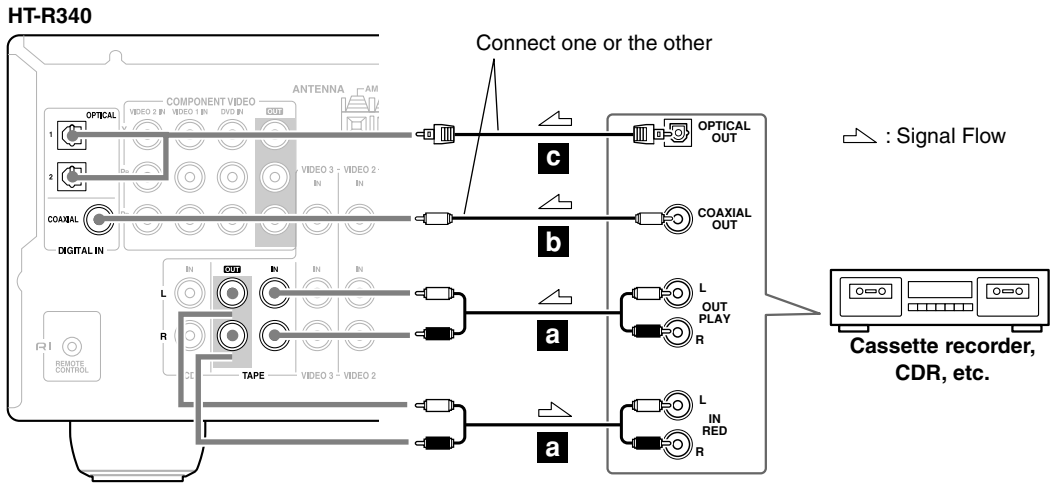
- If you have an Onkyo DS-A1 RI Dock, connect its S-VIDEO jack directly to an S-Video input on your TV.
- Set the RI Dock's RI MODE switch to HDD or HDD/DOCK.
- Set the AV receiver's Input Display to HDD (see page 38).
- See the RI Dock's instruction manual for more information.
- When the AC adapter is unplugged or not connected to the RI Dock, the RI Dock will output no sound or video, RI functions will not work, and your iPod's battery will not be charged.
- Connect the supplied RI cable to only RI jacks. Do not connect headphones to the RI jack, as it will damage your equipment.

Connecting a Cassette, CDR, MiniDisc, or DAT Recorder

a Connect your recorder's audio input jacks to the AV receiver's TAPE OUT L/R jacks, and connect your recorder's audio output jacks to the AV receiver's TAPE IN L/R jacks. With connection **a**, you can play and record with the recorder.

b If your recorder has a coaxial digital output jack, connect it to the AV receiver's DIGITAL IN COAXIAL jack, and set the DIGITAL INPUT assignment to COAX (see page 38).

c If your recorder has an optical output jack instead of a coaxial one, connect it to the AV receiver's DIGITAL IN OPTICAL 1 or 2 jack and set the DIGITAL INPUT assignment to OPT1 or OPT2 (see page 38).



Connecting Onkyo RI Components

Step 1: Make sure that each Onkyo component is connected to the AV receiver with an analog audio cable.

Step 2: Make the RI connection.

Step 3: If you're using an MD, CDR, or HDD component, change the Input Display (see page 38).

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

■ Auto Power On/Standby

When you start playback on a component connected via RI, if the AV receiver is on Standby, it will automatically turn on and select that component as the input source. Similarly, when the AV receiver is set to Standby, all components connected via RI will also go on Standby.

■ Direct Change

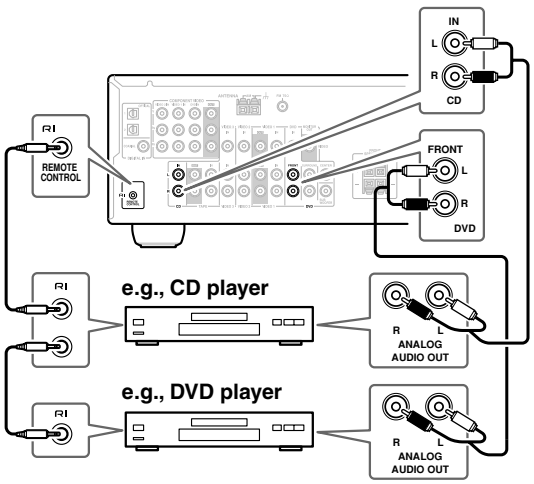
When playback is started on a component connected via RI, the AV receiver automatically selects that component as the input source. If your DVD player is connected to the AV receiver's multichannel DVD input, you'll need to press the [MULTI CH] button to hear all channels (see page 40), as the Direct Change RI function only selects the FRONT DVD IN jacks.

■ 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.

Notes:

- 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.

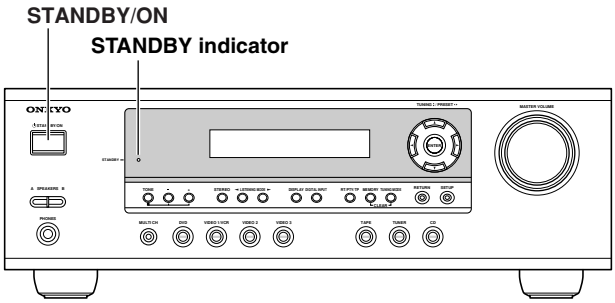


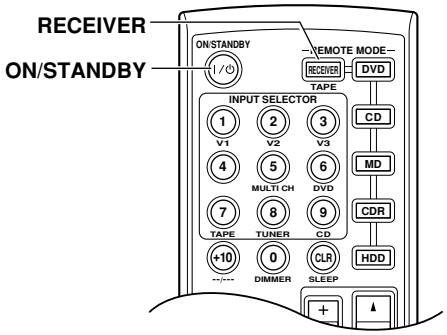
Connecting the Power Cord

Notes:

- **Before connecting the power cord, connect all of your speakers and AV components.**
- Connect the AV receiver's power cord to a suitable wall outlet.
- Turning on the AV receiver may cause a momentary power surge that might interfere with other electrical equipment on the same circuit. If this is a problem, plug the AV receiver into a different branch circuit.

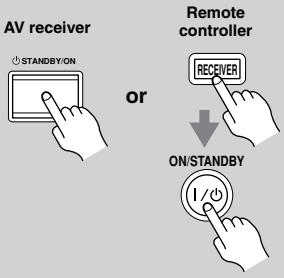
Turning On





Turning On the AV Receiver

1



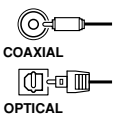
Press the [STANDBY/ON] button.
Alternatively, press the remote controller's [RECEIVER] button followed by the [ON/STANDBY] button.
The AV receiver comes on, the display lights up, and the STANDBY indicator goes off.

To turn the AV receiver off, press the [STANDBY/ON] button, or the remote controller's [ON/STANDBY] button. The AV receiver will enter Standby mode. To prevent any loud surprises the next time you turn on the AV receiver, always turn down the volume before turning it off.

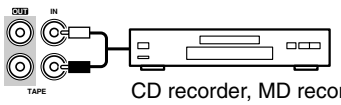
Smooth Operation in a Few Easy Steps

To ensure smooth operation, here's a few easy steps to help you configure the AV receiver before you use it for the very first time. These settings only need to be made once.

■ **Have you connected a component to a digital audio input?**
If you have, see "Assigning Digital Inputs to Input Sources" on page 38.



■ **Have you connected an Onkyo MD recorder, CD recorder, or RI Dock?**
If you have, see "Changing the Input Display" on page 38.



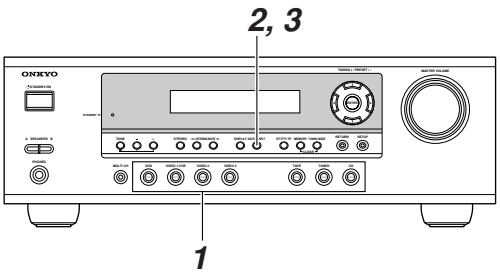
CD recorder, MD recorder

Testing the speakers

To test that all of the speakers are working properly, **press the remote controller's [TEST TONE] button**.
The test tone will be output by each speaker in turn and the name of each speaker will appear on the display. To turn off the test tone, press the [TEST TONE] button again.

- If the test tone is not produced by a speaker, or it's produced by a speaker other than that shown on the display, you may have wired the speakers incorrectly and you should check your connections (see page 21).
- If the test tone is not produced by a speaker and its name does not appear on the display, you may have set the speaker settings incorrectly (see page 55).

Assigning Digital Inputs to Input Sources



To enjoy Dolby Digital and DTS, you must connect your DVD player to the AV receiver by using a digital audio connection (coaxial or optical).

Here are the default assignments.

Input selector	Default assignment
DVD	COAX
VIDEO 1/VCR	- - - -
VIDEO 2	OPT 1
VIDEO 3	- - - -
TAPE	- - - -
CD	OPT 2

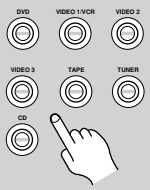
With this function, you can assign digital inputs to input sources. For example, if you connect your DVD player to DIGITAL IN OPTICAL, you'll need to assign that input (OPT1) to the DVD input source.

You can change the assignments as follows.

Note:

Make sure you also set your digital sources to send out a digital signals. Please refer to the digital sources' manual.

1



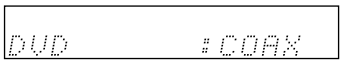
Press the input selector button for the source that you want to assign.

(Digital inputs cannot be assigned to the TUNER input source.)

2

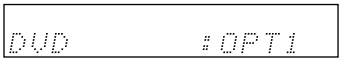
Press the [DIGITAL INPUT] button.

The current assignment appears.



3

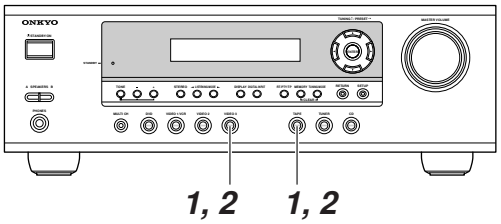
Press the [DIGITAL INPUT] button repeatedly to select COAX, OPT1, OPT2, or "– – – –" (analog).



Changing the Input Display

If you connect an RI-capable Onkyo MiniDisc recorder, CD recorder, or RI Dock to the TAPE IN/OUT or VIDEO 3 IN jacks, for RI to work properly, you must change this setting.

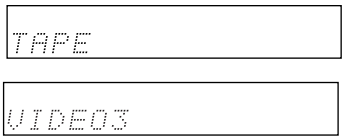
This setting can only be changed on the AV receiver.



iPod photo: If you're using an iPod photo with the DS-A1 Remote Interactive Dock, connect the DS-A1's S VIDEO jack directly to an S-Video input on your TV.

1

Press the [TAPE] or [VIDEO 3] input selector button so that "TAPE" or "VIDEO3" appears on the display.



2

Press and hold down the [TAPE] or [VIDEO 3] input selector button (about 3 seconds) to change the setting.

Repeat this step to select MD, CDR, or HDD.

For the TAPE input selector, the setting changes in this order:

TAPE → MD → CDR → HDD

For the VIDEO 3 input selector, the setting changes in this order:

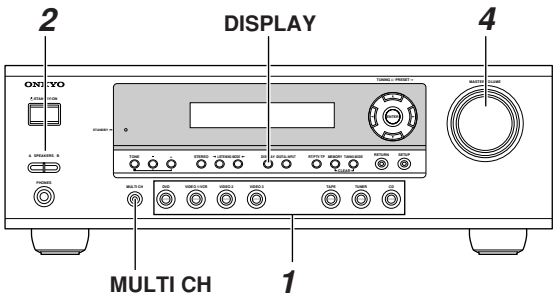
VIDEO 3 → HDD

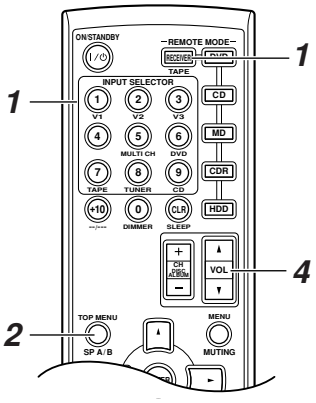
Note:

HDD can be selected for the TAPE input selector or VIDEO 3 input selector, but not both at the same time.

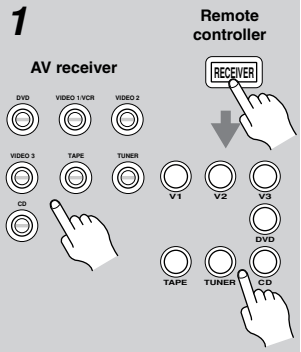
Playing Your AV Components

Basic AV Receiver Operation





1

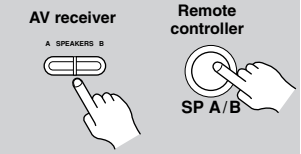


Use the AV receiver's input selector buttons to select the input source.

To select the input source with the remote controller, press the [RECEIVER] button, and then use the INPUT SELECTOR buttons.

On the remote controller, the [V1], [V2], and [V3] buttons select the VIDEO 1/VCR, VIDEO 2, and VIDEO 3 input sources respectively.

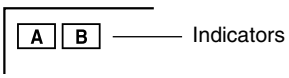
2



Use the SPEAKERS [A] and [B] buttons on the AV receiver or the [SP A/B] button on the remote controller to select the speaker set that you want to use.

Pressing the remote controller's [SP A/B] button cycles through the following settings: Speaker Set A → Speaker Set A&B → Speaker Set B → Off.

The A and B speaker indicators show whether each speaker set is on or off.



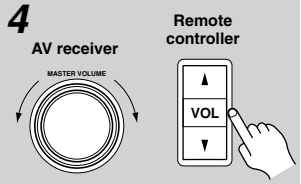
Note that when speaker set B is turned on, speaker set A is reduced to 2.1-channel playback.

3

Start playback on the source component.

When you select DVD or another video component, on your TV you'll need to select the video input that's connected to the AV receiver's MONITOR OUT.

4



To adjust the volume, use the MASTER VOLUME control, or the remote controller's [VOL] button.

The AV receiver is designed for home theater enjoyment and has a wide volume range for precise adjustment.

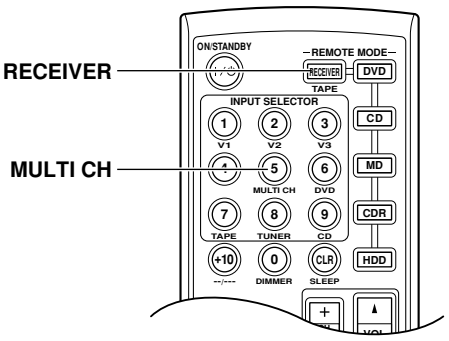
Note: The maximum master volume level is affected by the subwoofer volume level.

5

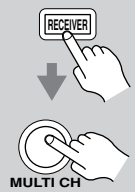
Select a suitable listening mode and enjoy!

See "Using the Listening Modes" on page 49.

Using the Multichannel Input



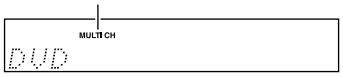
The multichannel input is for connecting a component with individual 5.1-channel analog audio output jacks, such as a DVD player or MPEG decoder. See page 29 for hookup information.



Press the [RECEIVER] button followed by the [MULTI CH] button so that MULTI CH indicator appears on the display.

Audio from the multichannel input will now be used for the DVD input source.

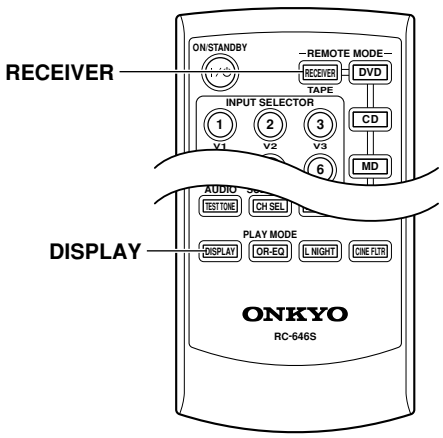
MULTI CH indicator



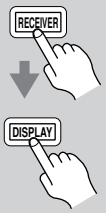
Note:

- While the multichannel input is selected, the Speaker Configuration settings on page 55 are ignored, and signals from the multichannel input are fed to the front left, front right, center, surround left, and surround right speakers and subwoofer regardless of those settings.

Displaying Source Information



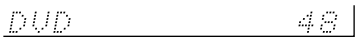
You can display various information about the current input source as follows.



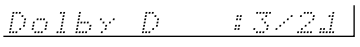
Press the [RECEIVER] button, and then press the [DISPLAY] button repeatedly to cycle through the available information.

The following information can typically be displayed for input sources.

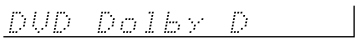
Input source & volume*1



Signal format*2 or sampling frequency



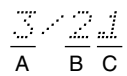
Input source & listening mode



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

*2 If the input signal is analog, or AM or FM radio is selected, 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 3 seconds, then the previous display reappears.

Interpreting Surround Channel Information



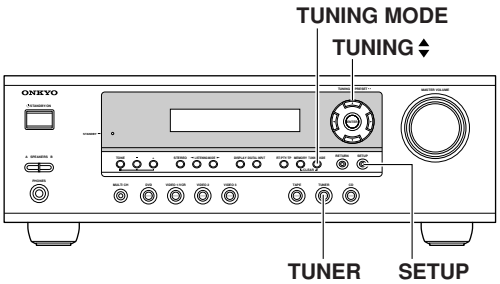
A: The number of front channels (front left, front right, and center).

B: The number of surround channels (surround left and surround right). If there's surround back channel information, this number will be 3.

C: LFE channel for subwoofer (1 means yes).

Using the Tuner

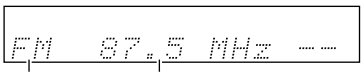
Listening to the Radio



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

1 TUNER

Use the [TUNER] input selector button to select either AM or FM.
In this example, FM has been selected.



(Actual display depends on country.)

AM Frequency Step Setup (not North America and Europe)

Here you can specify the AM frequency step used in your area. When this setting is changed, all radio presets are deleted.

1 **Press the [SETUP] button to display "0. Hardware Setup," and then press [ENTER].**

2 **Use the Up and Down [▲]/[▼] buttons to select "AM Freq," and then use the Left and Right [◄]/[►] buttons to select:**
10 kHz: Select if 10 kHz steps are used in your area.
9 kHz: Select if 9 kHz steps are used in your area.

3 **Press the [SETUP] button.**
Setup closes.

Note:
- This procedure can also be performed on the remote controller by using its [SETUP] button, arrow buttons, and [ENTER] button.

Tuning into Radio Stations

■ Auto Tuning Mode

1 TUNING MODE

Press the [TUNING MODE] button so that the AUTO indicator appears on the display.

2 TUNING ↕ / PRESET ↔ ENTER

Press the TUNING Up or Down [▲]/[▼] button.
Searching stops when a station is found.

■ Manual Tuning Mode

1 TUNING MODE

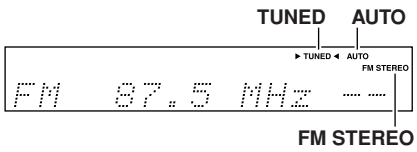
Press the [TUNING MODE] button so that the AUTO indicator disappears from the display.

2 TUNING ↕ / PRESET ↔ ENTER

Press and hold the TUNING Up or Down [▲]/[▼] button.
The frequency stops changing when you release the button.
Press the buttons repeatedly to change the frequency one step at a time.

The American model changes FM frequency in 0.2 MHz steps, 10 kHz steps for AM. For other models it's 0.05 MHz steps for FM and 9 kHz or 10 kHz steps for AM.

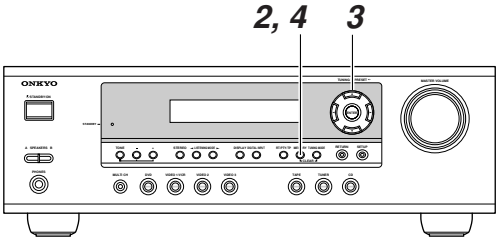
When tuned into a station, the TUNED indicator appears. When tuned into a stereo FM station, the FM STEREO indicator appears on the display, as shown.



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.

Note:
- You can also use the remote controller's Up and Down [▲]/[▼] buttons to tune the radio.

Presetting Radio Stations

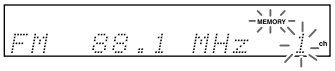


You can store up to 30 of your favorite radio stations as presets.

1 **Tune into the station that you want to store as a preset.**

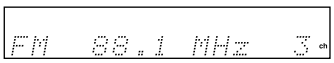
2 **Press the [MEMORY] button.**

The MEMORY indicator appears and the preset number flashes.



3 **While the MEMORY indicator is displayed (about 8 seconds), use the PRESET [◀]/[▶] buttons to select a preset from 1 through 30.**

In this example, preset #3 is selected.

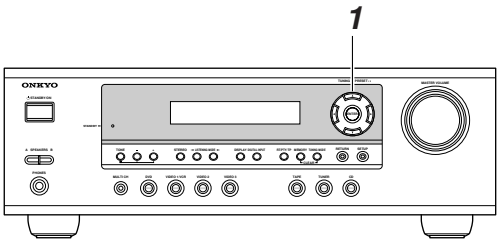


4 **Press the [MEMORY] button again to store the station.**

The station is stored and the preset number stops flashing.

Repeat this procedure for all your favorite radio stations.

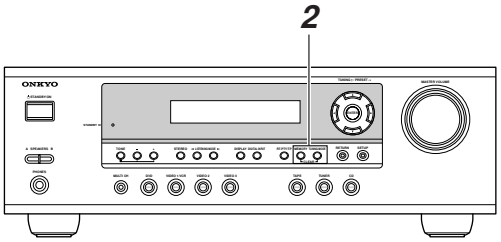
Selecting Preset Stations



1 

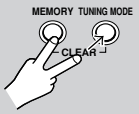
Use the PRESET [◀]/[▶] buttons, or the remote controller's CH [+/–] button to select a preset.

Deleting Presets



1 **Select the preset that you want to delete.**

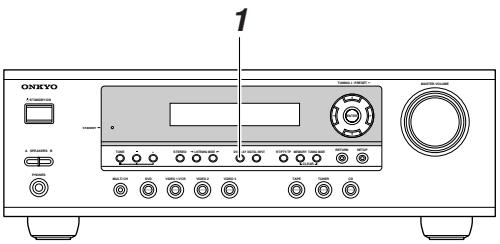
See the previous section.

2 

While holding down the [MEMORY] button, press the [TUNING MODE] button.

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

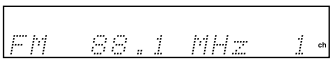
Displaying Radio Information



1 

Press the [DISPLAY] button repeatedly to cycle through the available information.

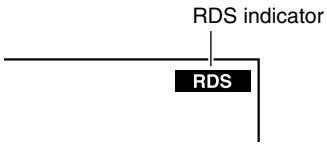
Band, preset # & frequency



Listening mode

Using RDS (European models only)

RDS only works with European models and only in areas where RDS broadcasts are available. When tuned into an RDS station, the RDS indicator appears.



■ What is RDS?

RDS stands for *Radio Data System* and is a method of transmitting data in FM radio signals. It was developed by the European Broadcasting Union (EBU) and is available in most European countries. Many FM stations use it these days. In addition to displaying text information, RDS can also help you find radio stations by type (e.g., news, sport, rock, etc.).

The AV receiver supports four types of RDS information:

PS (Program Service)

When tuned to an RDS station that's broadcasting PS information, the station's name appears. When you press the [DISPLAY] button, the frequency is displayed for three seconds.

RT (Radio Text)

When tuned to an RDS station that's broadcasting RT text information, that information is shown on the display (see page 44).

PTY (Program Type)

You can also search for radio stations by type (see page 44).

TP (Traffic Program)

You can also search for TP radio stations (see page 44).

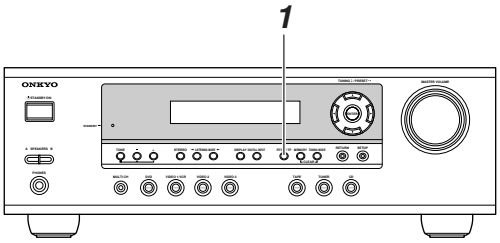
Notes:

- In some cases, the text characters displayed on the AV receiver may not be identical to those broadcast by the radio station. Also, unexpected characters may be displayed when unsupported characters are received. This is not a malfunction.
- If the signal from an RDS station is weak, RDS data may be displayed intermittently or not at all.

Program Types Used in Europe (PTY)

Type	Display	Description
None	NONE	No program type.
News reports	NEWS	Reports on current events and happenings.
Current affairs	AFFAIRS	Topical reporting of current affairs, often with a wider range of topics than news reports.
Information	INFO	General information such as weather forecasts, consumer affairs, medical help, etc.
Sport	SPORT	Live sports action, sports news, and interviews.
Education	EDUCATE	Formal educational programs.
Drama	DRAMA	Radio plays and serials.
Culture	CULTURE	Cultural programs (including religious affairs).
Science and technology	SCIENCE	Programs about the natural sciences and technology.
Varied	VARIED	Speech-based programs not covered by the above categories (e.g., quizzes, panel games, and comedy).
Pop music	POP M	Popular commercial music, usually from past or present sales charts (e.g., Top 40).
Rock music	ROCK M	Popular music with an alternative appeal, often not appearing on sales charts.
Middle of the road music	M.O.R.M	Easy listening music (as opposed to Pop, Rock, or Classical).
Light classics	LIGHT M	Classical music for general rather than specialist appreciation.
Serious classics	CLASSICS	Performances of major orchestral works, symphonies, chamber music, etc. (including the Grand Opera).
Other music	OTHER M	Music styles not covered by the above categories (e.g., Jazz, Rhythm & Blues, Folk, Country, and Reggae).
Alarm	ALARM	When an RDS station is making an emergency broadcast, ALARM will flash on the display.

Displaying Radio Text (RT)



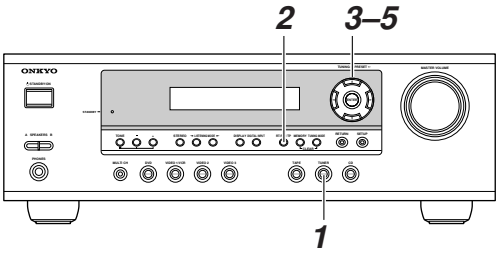
When tuned to an RDS station that's broadcasting RT text information, that information can be displayed.

1 

Press the [RT/PTY/TP] button once.
The RT information scrolls across the display.

Notes:
- The message "Waiting" may appear while the AV receiver waits for RT information.
- If the message "No Text Data" appears on the display, no RT information is available.

Finding Stations by Type (PTY)



You can search for radio stations by type.

1 

Use the [TUNER] input selector button to select FM.

2 

Press the [RT/PTY/TP] button twice.
The current program type appears on the display.

3 

Use the PRESET [◀]/[▶] buttons to select the type of program you want.
See the table on page 43.

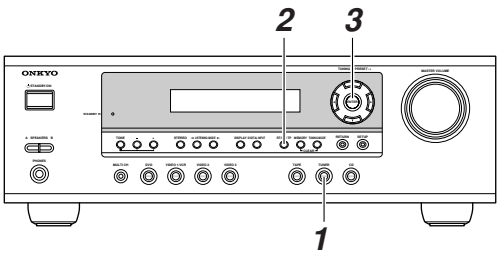
4 

To start the search, press [ENTER].
The AV receiver searches until it finds a station of the type you specified, at which point it stops briefly before continuing with the search.

5 

When a station you want to listen to is found, press [ENTER].
If no stations are found, the message "Not Found" appears.

Listening to Traffic News (TP)



You can search for TP radio stations.

1 

Use the [TUNER] input selector button to select FM.

2 

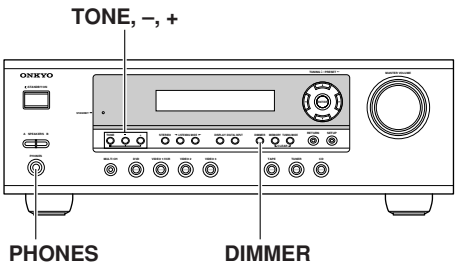
Press the [RT/PTY/TP] button three times.
If the current radio station is broadcasting TP (Traffic Program), "[TP]" will appear on the display, and traffic news will be heard as and when it's broadcast. If "TP" without square brackets appears, this means that the station is not broadcasting TP.

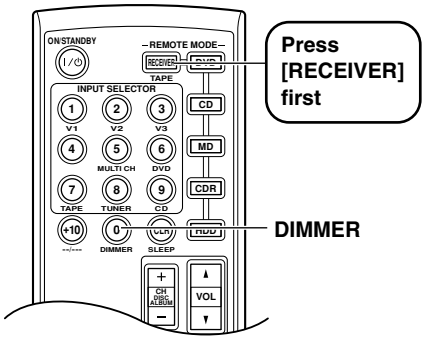
3 

To locate a station that is broadcasting TP, press [ENTER].
The AV receiver searches until it finds a station that's broadcasting TP.
If no stations are found, the message "Not Found" appears.

Common Functions

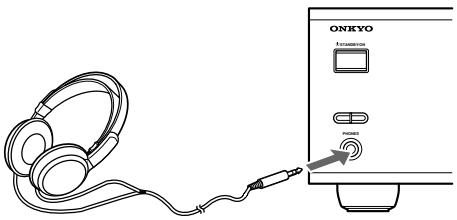
This chapter explains functions that can be used with any input source.





Using Headphones

You can connect a pair of stereo headphones (1/4-inch phone plug) to the AV receiver's PHONES jack for private listening, as shown.

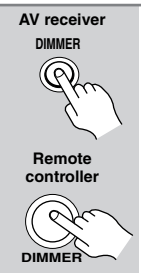


Notes:

- Always turn down the volume before connecting your headphones.
- Speaker sets A and B are turned off while the headphones plug is inserted in the PHONES jack.
- When you connect a pair of headphones, the listening mode is set to Stereo, unless it's already set to Mono, Stereo, or Direct.
- When the multichannel DVD input is selected, only the front left and front right channels can be heard in the headphones.

Setting the Display Brightness

With this function, you can adjust the brightness of the display.

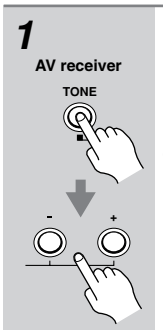


Press the [DIMMER] button repeatedly to select: dim, dimmer, or normal brightness.

Alternatively, you can use the [DIMMER] button on the AV receiver (not European models).

Adjusting the Bass & Treble

You can adjust the bass or treble for speaker set A's front speakers, except when the Direct listening mode is selected.



Press the AV receiver's [TONE] button repeatedly to select either Bass or Treble.
Use the TONE [–]/[+] buttons to adjust.

■ Bass

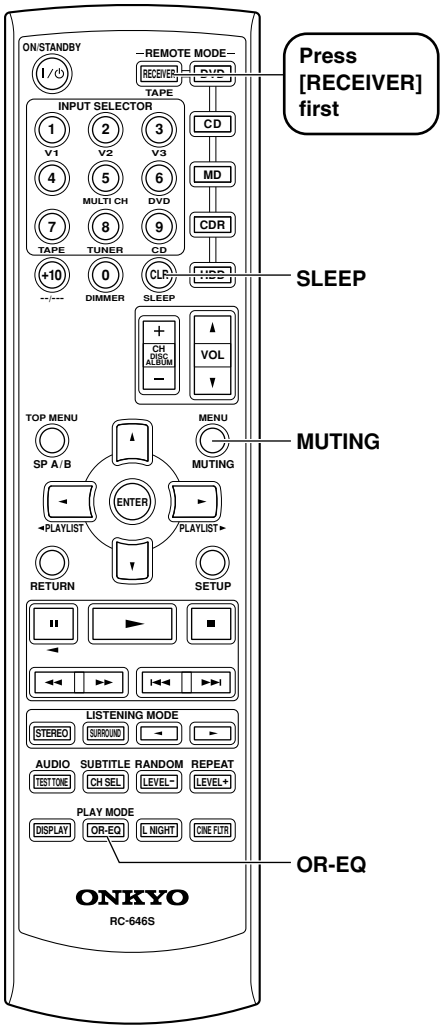
You can boost or cut low-frequency sounds output by the front speakers from –10 dB to +10 dB in 2 dB steps.

■ Treble

You can boost or cut high-frequency sounds output by the front speakers from –10 dB to +10 dB in 2 dB steps.

Note:

- To bypass the bass and treble tone circuits, select the Direct listening mode.



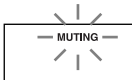
Muting the AV Receiver

With this function, you can temporarily mute the output of the AV receiver.

Remote controller

Press the remote controller's [MUTING] button.

The output is muted and the MUTING indicator flashes on the display, as shown.



To unmute the AV receiver, press the remote controller's [MUTING] button again, or adjust the volume. The output is unmuted and the MUTING indicator goes off.

Muting is cancelled when the AV receiver is set to Standby.

Using the Sleep Timer

With the sleep timer, you can set the AV receiver so that it automatically turns off after a set period.

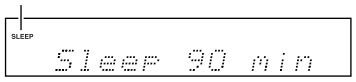
Remote controller

Press the remote controller's [SLEEP] button repeatedly to select the required sleep time.

You can set the sleep time from 90 to 10 minutes in 10 minute steps.

The SLEEP indicator appears on the display when the sleep timer has been set, as shown. The specified sleep time appears on the display for about five seconds, then the previous display reappears.

SLEEP indicator



To cancel the sleep timer, press the [SLEEP] button repeatedly until the SLEEP indicator disappears.

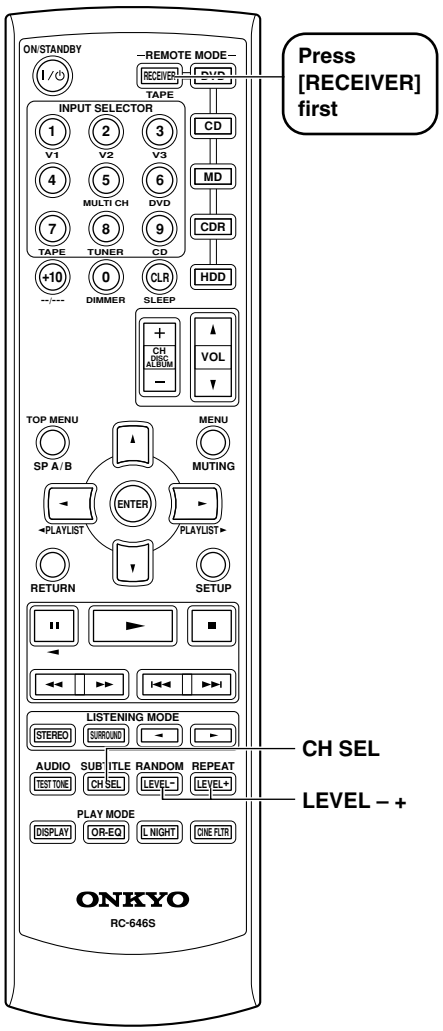
To check the remaining sleep time, press the [SLEEP] button. Note that if you press the [SLEEP] button while the sleep time is being displayed, you'll shorten the sleep time by 10 minutes.

Using the OptiResponse Equalizer

When using the HT-R340 with the speakers included in the HTP-360/HTP-318 Home Theater Speaker Package, by turning on the OptiResponse equalizer, you can enjoy a powerful sound with movies or music.

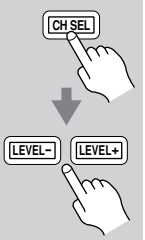
Remote controller

Press the remote controller's [OR-EQ] button to turn the Opti-Response equalizer on or off.



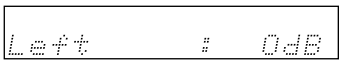
Adjusting Speaker Levels

You can adjust the level of each speaker in speaker set A while listening to an input source. These temporary adjustments are cancelled when the AV receiver is set to Standby.



Use the remote controller's [CH SEL] button to select each speaker, and use the [LEVEL–] and [LEVEL+] buttons to adjust the volume.

You can adjust the volume of each speaker from –12 dB to +12 dB (–15 dB to +12 dB for the subwoofer).



Notes:

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

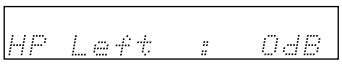
■ Speaker Set B

While speaker set B is on, you can also adjust the levels of the left and right speakers in speaker set B, from –12 dB to +12 dB.

- These settings are stored when the AV receiver is set to Standby.
- While speaker set B is on, you can adjust the levels of the left and right speakers in speaker set A's and the subwoofer.

■ Headphones

While a pair of headphones is connected, you can adjust the volume of the left and right channels individually, from –12 dB to +12 dB each.



- These settings are stored when the AV receiver is set to Standby.

■ Multichannel DVD Input

While the multichannel DVD input is selected, you can adjust the level of each 5.1 channel input individually, from –12 dB to +12 dB. (–30 to +12 dB for the subwoofer.)

- These settings are stored when the AV receiver is set to Standby.
- Individual speaker levels can also be adjusted in "3. MultiLevel Setup" (see page 54).

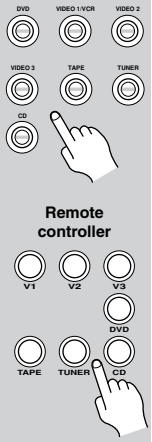
Recording

This chapter explains how to record the selected input source to an AV component with recording capability, and how to record audio and video from two different sources.

Recording the Input Source

You can record only to AV components that are connected to the TAPE OUT or VIDEO 1 OUT jacks.
See pages 26–36 for information on connecting your AV components to the AV receiver.

1 **Use the input selector buttons to select the AV component that you want to record.**



Audio signals from the selected input source are output by the VIDEO 1 OUT and TAPE OUT jacks.

You can listen to the source while recording. The AV receiver's VOLUME control has no effect on recording.

2 **Start recording on the AV component connected to the TAPE OUT or VIDEO 1 OUT jacks.**

3 **Start playback on the source AV component.**

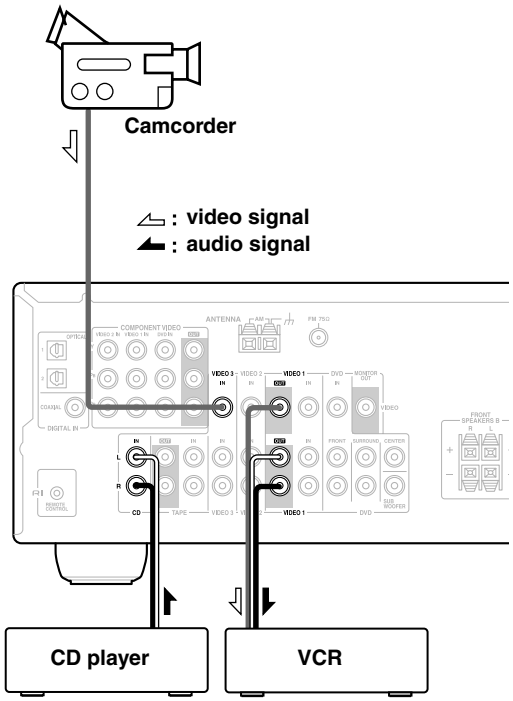
Notes:

- You cannot record from AV components that are connected to the digital inputs. You must use analog connections.
- The surround effects produced by the surround and DSP listening modes cannot be recorded.
- You cannot record from an AV component that is connected to the multichannel input.
- If you select another input source while recording, that input source will be recorded instead.

Recording from Different AV Sources

With this function, you can record audio and video from different sources, allowing you to overdub audio onto your video recordings. This function takes advantage of the fact that when an audio-only input source (i.e., TAPE, TUNER, or CD) is selected, the video input source remains unchanged. For example, if you first select the VIDEO 3 input source, followed by the CD input source, you can watch the video from the VIDEO 3 input and listen to the audio from the CD input.

In the following example, audio from the CD player connected to the CD IN jacks, and video from the camcorder connected to the VIDEO 3 IN jack are recorded by the VCR, which is connected to the VIDEO 1 OUT jacks.



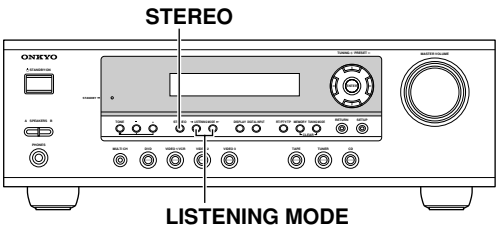
1. **Prepare the camcorder and CD player for playback.**
2. **Prepare the VCR for recording.**
3. **Press the [VIDEO 3] input selector button.**
4. **Press the [CD] input selector button.**
   This selects the CD player as the audio source, but leaves the camcorder as the video source.
5. **Start recording 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.

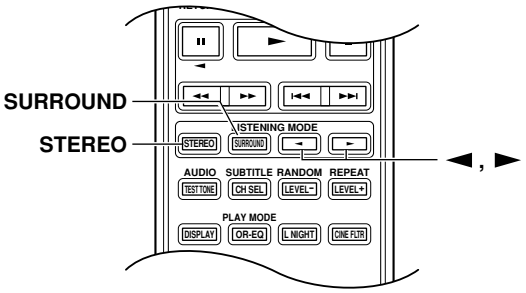
Using the Listening Modes

Selecting Listening Modes

See "About the Listening Modes" on page 50 for detailed information about the listening modes.

- **The Dolby Digital and DTS listening modes can only be selected if your DVD player is connected to the AV receiver with a digital audio connection (coaxial or optical).**
- **Listening mode availability depends on the format of the current input signal.**
- **While a pair of headphones is connected, you can select only the Mono, Direct, or Stereo listening mode.**
- **While speaker B is on, you can select only the Direct or Stereo listening mode.**
- **The listening modes cannot be selected while speaker set A is off.**





■ [STEREO] button

This button selects the Stereo listening mode.

■ [SURROUND] button (remote controller only)

This button selects the Dolby Digital and DTS listening modes.

■ LISTENING MODE [◄]/[►] buttons

Pressing these buttons repeatedly cycles through all of the listening modes that can be used with the current input source.

The following table lists all the listening modes and shows which modes can be selected for each input signal format.

Input signal format		Analog, PCM*1	Dolby D				DTS/DTS 96/24*2				Multich
			*/2	2/0 (Stereo)	1/0,1+1	Other	3/2.1	2/0 (Stereo)	DTS-ES		
									Discrete	Matrix	
Source / Listening mode		CD, TV, VHS, MD, turntable, radio, cassette, DTV, etc.	DVD, DTV, etc.				DVD, CD, etc.				DVD
Direct		✔	✔	✔	✔	✔	✔	✔	✔		✔
Stereo Mono		✔	✔	✔	✔	✔	✔	✔	✔		
Multich											✔
PLII Movie/Music/Game Neo:6 Cinema Neo:6 Music		✔		✔				✔			
Dolby D			✔			✔					
DTS							✔		✔		
Onkyo Original DSP	Mono Movie Orchestra Unplugged Studio-Mix TV Logic All Ch Stereo Full Mono	✔	✔	✔	✔	✔	✔	✔	✔		

*1. In the Direct listening modes, PCM signals at 32 kHz, 44.1 kHz, and 48 kHz are processed at 64 kHz, 88.2 kHz, and 96 kHz respectively. 96 kHz signals are processed at 48 kHz for all listening modes other than Direct, and Stereo.

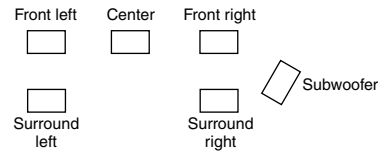
*2. DTS 96/24 is always processed as DTS.

Tip: You can check the format of the digital input signal on page 40, "Displaying Source Information."

About the Listening Modes

With its built-in surround-sound decoders and DSP programs, the AV receiver can transform your home listening room into a movie theater or concert hall.

This illustration shows which speakers are active in each listening mode.



Direct
The selected input source is output directly with minimal processing for a pure sound.

Stereo
The selected input source is processed as a stereo signal and output by the front left and right speakers and the subwoofer.

Mono
Use this mode when watching an old movie with a mono soundtrack, or to select multilingual soundtracks recorded in the left and right channels of some movies. It can also be used when playing a DVD or other source with multiplexed audio, such as a karaoke DVD.

Dolby Pro Logic II Movie
Use this mode with DVDs and videos that bear the Dolby Surround logo or TV shows that feature Dolby Surround. You can also use this mode with stereo movies or TV shows and the AV receiver will create a 5.1 surround mix from the 2-channel stereo.

Dolby Pro Logic II Music
Use this mode to add 5.1 surround to stereo sources such as music CDs and DVDs.

Dolby Pro Logic II Game
Use this mode when playing game discs.

Dolby Digital
With this format you can experience the same superb sound that you get at a movie theater or concert hall. Use this mode with DVDs that bear the Dolby Digital logo.

DTS
This digital surround format offers a surround sound experience with exceptional fidelity. It uses compressed digital audio data, with six discrete channels (5.1), and the ability to handle large amounts of audio data while remaining faithful to the original. DTS provides very high-quality sound. You'll need a DTS compatible DVD player in order to enjoy DTS material. Use this mode with DVDs and CDs that bear the DTS logo.

Neo:6
This mode provides 5.1-channel playback from 2-channel sources. It offers five full-bandwidth channels with excellent separation. There are two modes of operation: Cinema mode for movies, and Music mode for listening to music.

Cinema mode simulates the realistic sense of movement that you get with 5.1-channel surround sound sources. Use this mode with videos, DVDs, and TV shows that feature stereo sound.

Music mode uses the surround channels to simulate a natural sound field that cannot be produced with conventional stereo. Use this mode with stereo material such as music CDs.

Onkyo Original DSP Modes

Mono Movie
This mode is suitable for use with old movies and other mono sound sources. The center speaker outputs the sound as it is, while reverb is applied to the sound output by the other speakers, giving presence to even mono material.

Orchestra
Suitable for classical or operatic music. The surround channels are emphasized in order to widen the stereo image. In addition, it simulates the natural reverberation of a large hall.

Unplugged
Suitable for acoustic instrument sounds, vocals, and jazz music. By emphasizing the front stereo image, it simulates the stage-front experience.

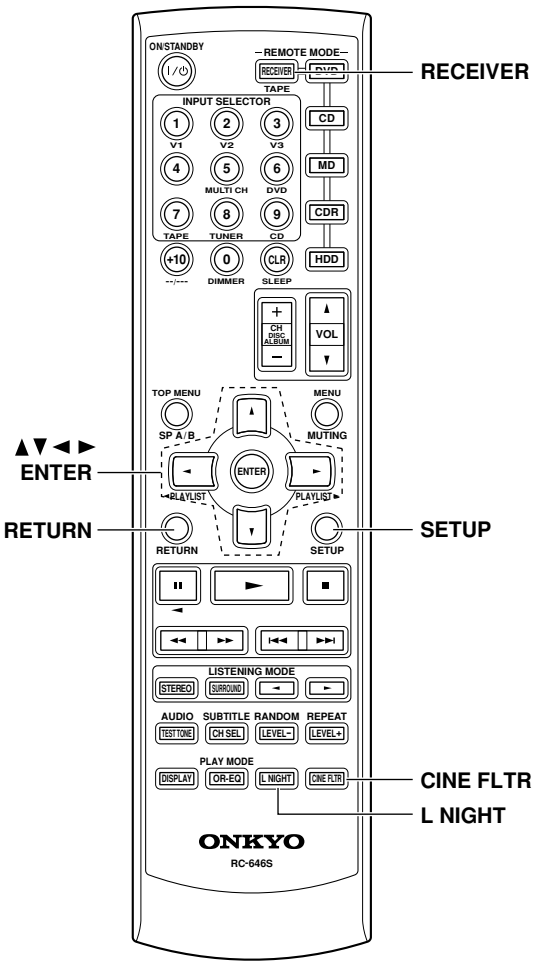
Studio-Mix
Suitable for rock and pop music. Listening to music in this mode creates a lively sound field with a powerful acoustic image, like being at a club or rock concert.

TV Logic
Adds realistic acoustics to TV shows produced in a TV studio. In addition, it adds surround effects to the entire sound and adds clarity to voices.

All Ch Stereo
Ideal for background music. The front, surround, and surround back channels create a stereo image that fills the entire listening area.

Full Mono
In this mode, all speakers output mono audio, so the music sounds the same regardless of where you are.

Adjusting the Listening Modes



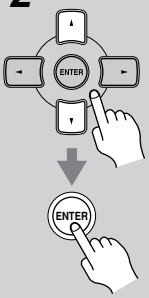
Using the Audio Adjust Functions

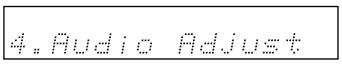
Some functions are not available with all speaker configurations.

Audio Adjust provides various functions for adjusting the sound.

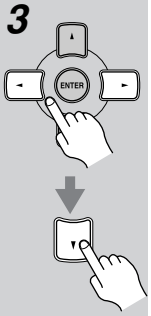
1 **Press the [RECEIVER] button followed by the [SETUP] button.**

2 **Use the Up and Down [▲]/[▼] buttons to select "4. Audio Adjust," and then press the [ENTER] button.**





3 **Use the Left and Right [◄]/[►] buttons to change the settings. Press the Down [▼] button to select the next setting.**



4 **Repeat step 3 to complete all settings.**

5 **Press the [SETUP] button.**

Setup closes.

When you want to go back up one menu level to "Audio Adjust," press the [RETURN] button.

The Audio Adjust functions are explained below.

Input Channel Settings

■ Multiplex

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

Main: The main channel is output (default).
Sub: The sub channel is output.
M/S: Both the main and sub channels are output.

■ Mono (2ch)

This setting determines which channel is output when the Mono listening mode is used with a stereo source.

L+R: Both the left and right channels are output (default).
L: Only the left channel is output.
R: Only the right channel is output.

PLII Music Mode Settings

These settings apply to only 2-channel (stereo) sources.

■ Panorama

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

On: Panorama function on.

Off: Panorama function off (default).

■ Dimension

With this setting, you can move the sound field forward or backward when using the Pro Logic II Music listening mode. The default setting is 3. It can be adjusted from 0 to 6. Higher settings move the sound field forward. Lower settings move it backward.

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

This setting has an effect when you use a center speaker.

With this function, you can adjust the width of the sound from the center speaker when using the Pro Logic II 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. It can be adjusted from 0 to 7 (default is 3).

DTS Neo:6 Music Mode Setting

■ Center Image

This setting has an effect when you use a center speaker.

The DTS Neo:6 Music listening mode creates 5-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. It can be adjusted from 0 to 5 (default is 2). This setting is unavailable if no surround speakers are connected.

When set to 0, the front left and right channel output is attenuated by half (–6 dB), giving the impression that the sound is located centrally. This setting works well when the listening position is considerably off center. When set to 5, the front left and right channels are not attenuated, maintaining the original stereo balance.

Using the Late Night Function (Dolby Digital only)

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.

1

Press the [RECEIVER] button, and then press the [L NIGHT] button repeatedly to select:

Off: Late Night function off.

Low: Small reduction in dynamic range.

High: Big reduction in dynamic range.

Notes:

- The effect of the Late Night function depends on the Dolby Digital material that you are playing, and with some material there will be little or no effect.
- The Late Night function is set to Off when the AV receiver is set to Standby.

Using the CinemaFILTER

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

CinemaFILTER can be used with the following listening modes: Dolby Digital, Dolby PLII Movie, DTS, and DTS Neo:6 Cinema.

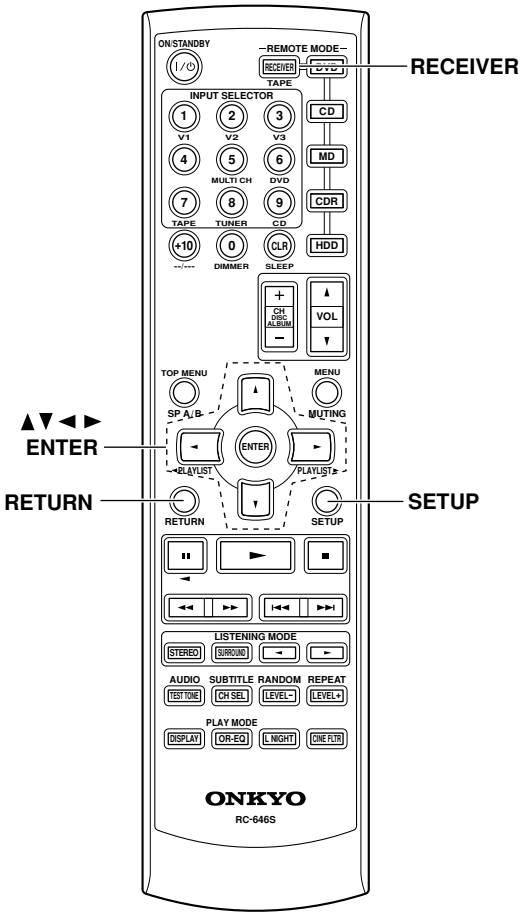
1

Press the [RECEIVER] button, and then press the [CINE FLTR] button repeatedly to select:

On: CinemaFILTER on.

Off: CinemaFILTER off.

Advanced Speaker Settings



Speaker Distance

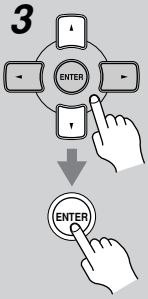
The speaker distance setting cannot be changed while a pair of headphones is connected, speaker set B is on, or the multichannel input is being used.

To get the best from surround sound, it's important that the sound from each speaker reaches the listener at the same time. To achieve this, you need to specify the distance from each speaker to the listening position.

1 **Measure and make a note of the distance from each speaker to the listening position.**

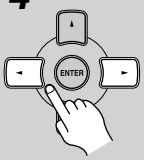
2 

Press the [RECEIVER] button followed by the [SETUP] button on the remote controller.

3 

Use the Up and Down [▲]/[▼] buttons to select "2. SP Distance," and then press the [ENTER] button.

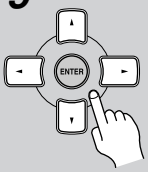
2.SP Distance

4 

While "Unit" is displayed, use the Left and Right [◄]/[►] buttons to select feet or meters.

feet: Distances in feet. Can be set from 1 to 30 feet in 1-foot steps.

meters: Distances in meters. Can be set from 0.3 to 9 meters in 0.3-meter steps.

5 

Use the Down [▼] button to select "Front," and use the Left and Right [◄]/[►] buttons to specify the distance for the "front speakers," then press the Down [▼] button to select the next speaker.

6 **Repeat step 5 for all speakers.**

Note:
Speakers that you set to No or None in the Speaker Configuration (page 55) cannot be selected.

7 

Press the [SETUP] button.

Setup closes.

When you want to go back up one menu level to "SP Distance," press the [RETURN] button.

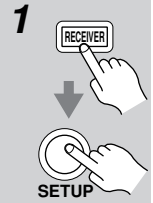
Notes:

- The Center and Subwoofer distances can be set up to 5 ft. (1.5 m) more or less than the Front distance. For example, if the Front distance is set to 20 ft. (6 m), the Center and Subwoofer distances can be set between 15 and 25 ft. (4.5 and 7.5 m).
- The Surround distances can be set up to 5 ft. (1.5 m) more or 15 ft. (4.5 m) less than the Front distance. For example, if the Front distance is set to 20 ft. (6 m), the SurrRight and Surr Left distances can be set between 5 and 25 ft. (1.5 and 7.5 m).

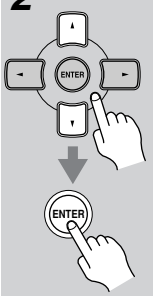
Speaker Levels

With this function, you can adjust the volume of each speaker so that all speakers can be heard equally at the listening position.

The speaker levels cannot be adjusted while a pair of headphones is connected, speaker set B is on, or the AV receiver is muted.

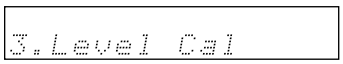
1 

Press the [RECEIVER] button followed by the [SETUP] button on the remote controller.

2 

Use the Up and Down [▲]/[▼] buttons to select "3. Level Cal," and then press the [ENTER] button.

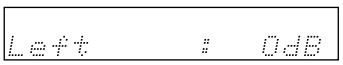
A pink noise test tone is output by the front left speaker.

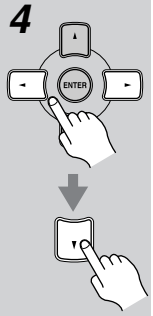


3

Turn up the volume so that you can hear the test tone sufficiently.

While each speaker outputs the test tone, its name appears on the display, as shown.



4 

Use the Left and Right [◄]/[►] buttons to adjust the speaker level, and use the Down [▼] button to select the next speaker.

The level can be adjusted from –12 to +12 dB in 1 dB steps (–15 to +12 dB for the subwoofer).

5

Repeat step 4 so that the level of the test tone from each speaker is the same.

Speakers that you set to No or None in the Speaker Configuration (page 55) do not output the test tone.

6 

Press the [SETUP] button.

Setup closes.

Don't forget to turn down the volume if you turned it up while setting the levels.

When you want to go back up one menu level to "Level Cal," press the [RETURN] button.

Note:

- A quicker way to adjust the speaker levels is to press the remote controller's [TEST TONE] button to output the test tone, use the [LEVEL–] and [LEVEL+] buttons to adjust the levels, and use the [CH SEL] button to select the speakers.
- If the multichannel input is selected (page 40), in step 2, the "3. MultiLevel" menu appears instead of the "3. Level Cal" menu, and you can adjust the level of each channel of the multichannel input regardless of the Speaker Configuration settings.
  You can adjust the volume of each speaker from –12 dB to +12 dB (–30 dB to +12 dB for the subwoofer).

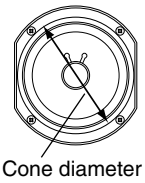
Speaker Configuration, Crossover Frequency, and Double Bass settings only need to be changed if you're not using the speakers in this package.
These settings cannot be changed while headphones are connected, speaker set B is on, or the multichannel DVD input is being used.

Speaker Configuration

This section explains how to specify your speaker configuration.

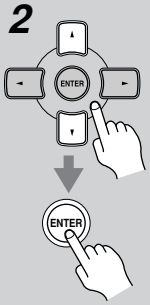
For speakers with a cone diameter larger than 6-1/2 inches (16 cm), specify ***Large*** (full band). For those with a smaller diameter, specify ***Small*** (default crossover 100 Hz).

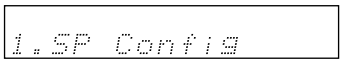
The crossover frequency can be changed on page 56.



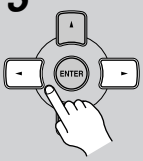
1 **Press the [RECEIVER] button followed by the [SETUP] button.**

2 **Use the Up and Down [▲]/[▼] buttons to select "1. SP Config," and then press the [ENTER] button.**





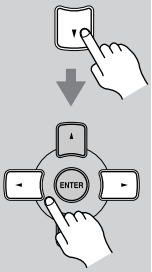
3 **While the Subwoofer setting is selected, use the Left and Right [◄]/[►] buttons to select Yes or No.**



Yes: Select if a subwoofer is connected.

No: Select if no subwoofer is connected.

4 **Use the Down [▼] button to select "Front," and then use the Left and Right [◄]/[►] buttons to select Small or Large.**

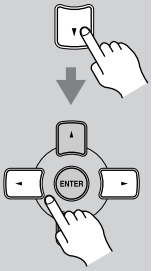


Small: Select if the front speakers are small.

Large: Select if the front speakers are large.

Note:
- If the Subwoofer setting in step 3 is set to No, this setting is fixed at Large and does not appear.

5 **Use the Down [▼] button to select "Center," and then use the Left and Right [◄]/[►] buttons to select Small, Large, or None.**



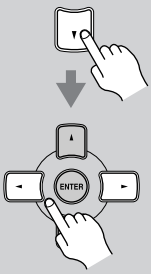
Small: Select if the center speaker is small.

Large: Select if the center speaker is large.

None: Select if no center speaker is connected.

Note:
- If the Front setting in step 4 is set to Small, the Large option cannot be selected.

6 **Use the Down [▼] button to select "Surround," and then use the Left and Right [◄]/[►] buttons to select Small, Large, or None.**



Small: Select if the surround speakers are small.

Large: Select if the surround speakers are large.

None: Select if no surround speakers are connected.

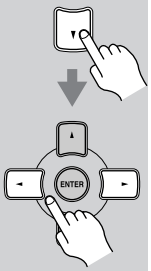
Note:
- If the Front setting in step 4 is set to Small, the Large option cannot be selected.

Continue with step 7 of the "Crossover Frequency" setting.

Crossover Frequency

This setting only applies to the speakers that you specified as ***Small*** in the "Speaker Configuration" on page 55. To get the best bass performance from your speaker system, you need to set the crossover frequency according to the size and frequency response of your speakers.

7



Use the Down [▼] button to select "Crossover," and then use the Left and Right [◄]/[►] buttons to select a crossover frequency.

Use the diameter of the smallest speaker in your system when choosing the crossover frequency.

Speaker cone diameter	Crossover frequency
Over 8 in. (20 cm)	40/50/60Hz*
6-1/2 to 8 in. (16–20 cm)	80Hz
5-1/4 to 6-1/2 in. (13–16 cm)	100Hz
3-1/2 to 5-1/4 in. (9–13 cm)	120Hz (default)
Under 3-1/2 in. (9 cm)	150/200Hz*

*Choose the setting suitable for the speaker.

Continue with step 8 of the "Double Bass" setting below.

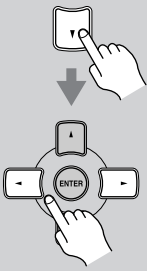
Notes:

- For a more accurate setting, look up the frequency response in the manuals supplied with your speakers and set accordingly.
- Choose a higher crossover frequency if you want more sound from your subwoofer.

Double Bass

With the Double Bass function, you can boost bass output by feeding bass sounds from the front left and right channels to the subwoofer. This function can be set only if the Subwoofer setting (step 3) is set to Yes, and the Front setting (step 4) is set to Large in the Speaker Configuration on page 55.

8



Use the Down [▼] button to select "Double Bass," and then use the Left and Right [◄]/[►] buttons to select:

On: Double Bass function on. Bass from the front left and right channels is also fed to the subwoofer (default).

Off: Double Bass function off.

9

Press the [SETUP] button.

Setup closes.

When you want to go back up one menu level to "SP Config," press the [RETURN] button.

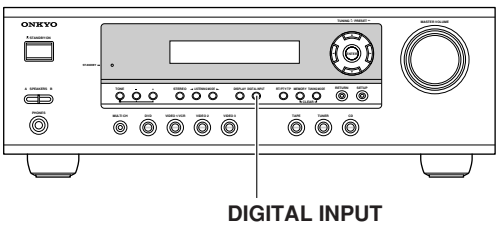
Digital Input Signal Formats

The following table shows the display indicators for each supported digital signal format.

Format	Display
Dolby Digital	DD D
DTS	dts
PCM	PCM

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.



1 **Press and hold the AV receiver's [DIGITAL INPUT] button for about 3 seconds.**

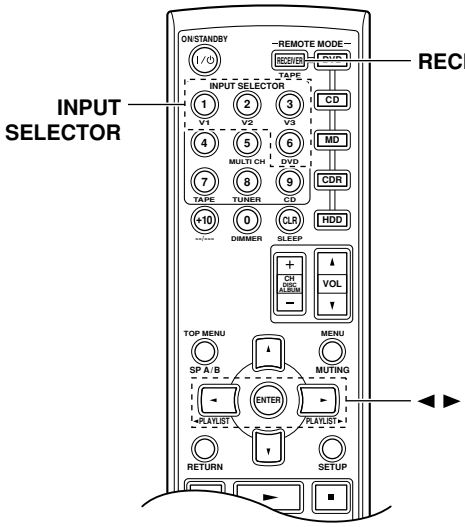
2 **While "Auto" is displayed (about 3 seconds), press the [DIGITAL INPUT] button again to select: PCM, DTS, or Auto.**

DTS or PCM: The DTS or PCM indicator, depending on which format you have set, flashes, and only signals in that format are output. Digital signals in other formats are ignored.

Auto (default): The format is detected automatically. If no digital input signal is present, the corresponding analog input is used instead.

Correcting Sound and Picture Sync

When using progressive scanning on your DVD player, you may find that the picture and sound are out of sync. With this setting, you can correct this by delaying the audio signals. You can set it to 0, 20, or 40 milliseconds.

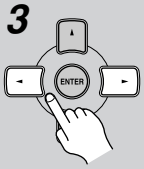


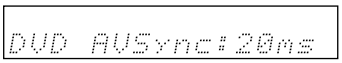
1 **Press the [RECEIVER] REMOTE MODE button.**

2 **Press and hold, for more than 4 seconds, the input selector button for the input source that you want to correct.**

This can be the [DVD], [VIDEO 1], [VIDEO 2], or [VIDEO 3] input source.

3 **Use the Left and Right [◄]/[►] buttons to set the delay to 0, 20, or 40 milliseconds.**





The previous display reappears if you don't do anything for 5 minutes.

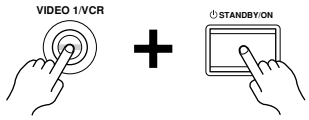
Note:

- This setting is not available when the Direct listening mode is used with an analog input signal.

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, 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 the [VIDEO 1] button, press the [STANDBY/ON] button. "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.

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 AV receiver turns off as soon as it's turned on?

- The amp 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 one hour. After that, reconnect the power cord, and then 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 properly. 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?

- Press the SPEAKERS [A] or [B] button to turn on the indicator for the speakers that you want to output sound.
- Make sure that the digital input source is selected properly (page 38). Press the [DIGITAL INPUT] button repeatedly.
- Make sure that all audio connecting plugs are pushed in all the way (page 26).
- Make sure that the polarity of the speaker cables is correct, and that the bare wires are in contact with metal part of each speaker terminal (page 21)
- Make sure that the speaker cables are not shorting.
- Check the volume. The AV receiver is designed for home theater enjoyment and has a wide volume range for precise adjustment (page 39).
- If the MUTING indicator is shown on the display, press the remote controller's [MUTING] button to unmute the AV receiver (page 46).
- While a pair of headphones is connected to the PHONES jack, no sound is output by the speakers (page 45).
- Check the digital audio output setting on the connected device. On some games consoles, such as those that can play DVDs, the default setting is off.
- With some DVD-Video discs, you need to select an audio format from a menu.
- If your turntable doesn't have a phono preamp built-in, you must connect one between it and the AV receiver. If your turntable uses an MC cartridge, you must connect an MC head amp, or an MC transformer and a phono preamp.
- Specify the speaker distances and adjust the individual speaker levels (pages 53, 54).
- The input signal format is set to PCM or DTS. Set it to Auto (page 57).

Only the front speakers produce sound?

- When the Stereo or Mono listening mode is selected, only the front speakers and subwoofer produce sound.
- Make sure the speakers are configured correctly (page 55).

Only the center speaker produces sound?

- If you use the Pro Logic II Movie or Pro Logic II Music 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 (page 55).

The surround speakers produce no sound?

- When the Stereo or Mono listening mode is selected, the surround speakers produce no sound (page 50).
- 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 (page 55).

The center speaker produces no sound?

- When the Stereo or Mono listening mode is selected, the center speaker produces no sound (page 50).
- Make sure the speakers are configured correctly (page 55).

The subwoofer produces no sound?

- The subwoofer outputs no sound while only speaker set B is on. Turn on speaker set A.
- 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 (page 55).
- If the multichannel DVD input is selected and speaker set B is on, speaker set A is reduced to 2-channel playback, so the subwoofer outputs no sound.
- On the AV receiver, the subwoofer setting in the speaker configuration is set to No. Set the subwoofer setting to Yes.

There's no sound with a certain signal format?

- Check the digital audio output setting on the connected device. On some games consoles, such as those that can play DVDs, the default setting is off.
- With some DVD-Video discs, you need to select an audio output format from a menu.

Can't get 5.1-channel playback?

- When speaker B is turned on, speaker set A is reduced to 2.1-channel playback.

The volume cannot be set to 79?

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

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 (page 52).

The DVD analog multichannel input doesn't work?

- Check the DVD analog multichannel input connections (page 29).
- To select the DVD analog multichannel input, press the [MULTI CH] input selector button (page 40).
- Check the audio output settings on your DVD player.

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 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.

Video

There's no picture?

- Make sure that all video connecting plugs are pushed in all the way (page 26).
- Make sure that each video component is properly connected.
- The AV receiver does not convert between formats, so if a video source component is connected to a component video input, your TV must be connected to the component video output (page 27).
- On your TV, make sure that the video input to which the AV receiver is connected is selected.

Tuner

Reception is noisy, stereo FM reception suffers from hiss, or the FM STEREO indicator doesn't appear?

- Relocate your antenna.
- Move the AV receiver away from your TV or computer.
- Listen to the station in mono (page 41).
- 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 (page 25).

Remote Controller

The remote controller doesn't work?

- Make sure that the batteries are installed with the correct polarity (page 19).
- 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 (page 19).
- Make sure you've selected the correct remote controller mode (page 12).
- Make sure you've entered the correct remote control code.

Can't control other components?

- Make sure you've selected the correct remote controller mode (page 12).
- If you've connected an RI-capable Onkyo MD recorder, CD recorder, or next generation HDD-compatible component to the TAPE IN/OUT jacks, or a DS-A1 Remote Interactive Dock to the VIDEO 3 IN jacks, for the remote controller to work properly, you must set the Input Display to MD, CDR, or HDD (see page 38).
- To control an Onkyo component that's connected via RI, point the remote controller at the AV receiver.

RI Dock for the iPod

There's no sound

- Make sure your iPod is actually playing.
- Make sure your iPod is inserted properly in the RI Dock.
- Make sure the RI Dock is connected to the correct input jacks on the AV receiver. Do not connect it to any output jacks.
- 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.
- Make sure the AC adapter is connected to a suitable wall outlet and connected to the RI Dock.
- Try resetting your iPod.

There's no video

- Make sure that your iPod'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

- 3rd generation iPods are not supported.
- Make sure your iPod is properly inserted in the RI Dock. If your iPod is in a case, it may not connect properly to the RI Dock. Always remove your iPod from the case before inserting it into the RI Dock.
- The iPod cannot be operated while it's displaying the Apple logo.
- Make sure you've selected the right remote mode.
- Check the RI Dock's RI MODE switch setting.
- When you use the AV receiver's remote controller, point it toward your amp.
- The RI Dock must be connected to the AV receiver with both an RI cable and an audio cable.
- If you still can't control your iPod, start playback by pressing your iPod's Play button. Remote operation should then be possible.

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 (e.g., TAPE IN to TAPE OUT, or VIDEO 1 IN to VIDEO 1 OUT).

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, Direct.

How do I change the language of a multiplex source?

- Use the "Multiplex" setting on the "4. Audio Adjust" menu to select Main or Sub (page 51).

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 (page 36).

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.

Specifications

Amplifier Section

Rated Output Power
North American (FTC):
(FL, FR, C, SL, SR) 100 watts minimum continuous power per channel, 8 ohm loads, at 1 kHz, with a maximum total harmonic distortion of 1%
(Subwoofer) 105 watts minimum continuous power per channel, 8 ohm loads, at 80 Hz, with a maximum total harmonic distortion of 1%
(FL, FR, C, SL, SR) 115 watts minimum continuous power per channel, 6 ohm loads, at 1 kHz, with a maximum total harmonic distortion of 1%
(Subwoofer) 125 watts minimum continuous power per channel, 6 ohm loads, 1 channel driven at 80 Hz, with a maximum total harmonic distortion of 1%
European (IEC): 6 ch × 110 W at 6 ohms, 1 kHz, 1ch driven
Maximum Output Power
Asian (JEITA): 6 ch × 120 W at 6 ohms, 1 kHz, 1ch driven
Dynamic Power 180 W + 180 W (3Ω, Front)
140 W + 140 W (4Ω, Front)
95 W + 95 W (8Ω, Front)
THD (Total Harmonic Distortion) 0.9% (Power Rated)
Damping Factor 60 (Front, 1kHz, 8Ω)
Input Sensitivity and Impedance 200 mV/ 47 kΩ (LINE)
Output Level and Impedance 200 mV/ 470 Ω (REC OUT)
Frequency Response 10 Hz–50 kHz/ +1 dB-3 dB (Direct mode)
Tone Control ±10 dB, 80 Hz (BASS)
±10 dB, 20 kHz (TREBLE)
Signal to Noise Ratio 100 dB (LINE, IHF-A)
Speaker Impedance 6Ω– 16Ω

Video Section

Input Sensitivity/Output Level and Impedance 1 Vp-p /75Ω (Component)
0.7 Vp-p /75Ω (Component P_B/C_B, P_R/C_R)
1 Vp-p /75Ω (Composite)
Component Video Frequency Response 5 Hz–50 MHz

Tuner Section

■ FM

Tuning Frequency Range North American: 87.5 MHz–107.9 MHz
European: 87.50 MHz–108.00 MHz
Asian: 87.50 MHz–108.00 MHz
Usable Sensitivity Stereo: 22.2 dBf (75Ω IHF)
Mono: 15.2 dBf (75Ω IHF)
Signal to Noise Ratio Stereo: 67 dB (IHF-A)
Mono: 73 dB (IHF-A)
THD Stereo: 0.5% (1 kHz)
Mono: 0.3% (1 kHz)
Frequency Response 30 Hz–15 kHz / ±1 dB
Stereo Separation 40 dB (1kHz)

■ AM

Tuning Frequency Range North American: 530 kHz–1710 kHz
European: 522 kHz–1611 kHz
Asian:
522 kHz–1611 kHz at 9 kHz steps
530 kHz–1710 kHz at 10 kHz steps
Usable Sensitivity 300 µV
Signal to Noise Ratio 40 dB
THD 0.7%

General

Power Supply North American: AC 120 V, 60 Hz
Australian and European: AC 230-240 V, 50 Hz
Others: AC 120/220–240 V, 50/60 Hz
AC 220–230 V, 50/60 Hz
Power Consumption North American: 3.4 A
Australian and European: 360 W
Korean: 330 W
Worldwide: 300 W
Stand-by Power Consumption North American: 0.1 W
European: 0.3 W
Others: 0.5 W
Dimensions (W × H × D) 435 × 150 × 369 mm
17-1/8" × 5-7/8" × 14-1/2"
Weight North American: 8.8 kg
19.4 lbs.
Others: 9.6 kg, 21.2 lbs.

■ Video Inputs

Component DVD, VIDEO1, VIDEO2
Composite DVD, VIDEO1, VIDEO2, VIDEO3

■ Video Outputs

Component MONITOR
Composite MONITOR, VIDEO1

■ Audio Inputs

Digital Inputs Optical: 2
Coaxial: 1
Analog Inputs DVD (MULTICHANNEL),VIDEO1, VIDEO2,VIDEO3,TAPE,CD
Multichannel Inputs 6

■ Audio Outputs

Analog Outputs TAPE,VIDEO1
Subwoofer Pre Outputs 1
Speaker Outputs SP-A (FL, FR, C, SL, SR, SW) + SP-B (L, R)
Phones 1

5.1ch Home Theater Speaker Package

■ Passive Subwoofer (SKW-360/SKW-318)

Type:	Bass-reflex type Passive subwoofer
Impedance:	6 Ω
Maximum input power:	130 W
Output sound pressure level:	83 dB/m/w
Frequency response:	30 Hz–150 Hz
Cabinet capacity:	0.85 cubic feet (24.1 L)
Dimensions (W × H × D):	9-5/8" × 16-1/8" × 14-5/8" (245 × 410 × 372 mm)
Weight:	14.6 lbs. (6.6 kg)
Drivers unit:	8" (20 cm) Cone
Terminal:	Spring type color coded

■ Front Speaker (SKF-360F)

Type:	2 Way Bass-reflex
Impedance:	6 Ω
Maximum input power:	120 W
Output sound pressure level:	82 dB/W/m
Frequency response:	80 Hz–22 kHz
Crossover frequency:	10 kHz
Cabinet capacity:	0.064 cubic feet (1.8 L)
Dimensions (W × H × D):	4" × 10-3/4" × 4-3/4" (101 × 273 × 121 mm)
Weight:	2.2 lbs. (1.0 kg)
Drivers unit:	3-1/4" (8 cm) Cone (Woofer) 3/4" (2 cm) Ceramic (Tweeter)
Terminal:	Spring type color coded
Keyhole slot:	2
Threaded insert:	North American model: 1/4" screw, Depth 5/16" × 1 Other models: 5 mm screw, Depth 8 mm × 1
Grille:	Fixed
Other:	Magnetic shielding

■ Front Speaker (SKF-318F)

Type:	2 Way Bass-reflex
Impedance:	6 Ω
Maximum input power:	120 W
Output sound pressure level:	81 dB/W/m
Frequency response:	80 Hz–22 kHz
Crossover frequency:	10 kHz
Cabinet capacity:	0.039 cubic feet (1.1 L)
Dimensions (W × H × D):	4" × 6-7/8" × 4-9/16" (101 × 175 × 116 mm)
Weight:	1.8 lbs. (0.8 kg)
Drivers unit:	3-1/4" (8 cm) Cone (Woofer) 3/4" (2 cm) Ceramic (Tweeter)
Terminal:	Spring type color coded
Keyhole slot:	1
Threaded insert:	5 mm screw, Depth 8 mm
Grille:	Fixed
Other:	Magnetic shielding

■ Center Speaker (SKC-360C/SKC-318C)

Type:	2 Way Bass-reflex
Impedance:	6 Ω
Maximum input power:	120 W
Output sound pressure level:	82 dB/W/m
Frequency response:	80 Hz–22 kHz
Crossover frequency:	10 kHz
Cabinet capacity:	0.064 cubic feet (1.8 L)
Dimensions (W × H × D):	10-3/4" × 4" × 4-3/16" (273 × 101 × 106 mm)
Weight:	2.2 lbs. (1.0 kg)
Drivers unit:	3-1/4" (8 cm) Cone (Woofer) 3/4" (2 cm) Ceramic (Tweeter)
Terminal:	Spring type color coded
Keyhole slot:	2
Threaded insert:	North American model: 1/4" screw, Depth 5/16" × 1 Other models: 5 mm screw, Depth 8 mm × 1
Grille:	Fixed
Other:	Magnetic shielding

■ Surround Speaker (SKM-360S)

Type:	Full-Range Bass-reflex
Impedance:	6 Ω
Maximum input power:	120 W
Output sound pressure level:	81 dB/W/m
Frequency response:	80 Hz–22 kHz
Cabinet capacity:	0.064 cubic feet (1.8 L)
Dimensions (W × H × D):	4" × 10-3/4" × 4-3/4" (101 × 273 × 121 mm)
Weight:	1.5 lbs. (0.8 kg)
Drivers unit:	3-1/4" (8 cm) Cone
Terminal:	Spring type color coded
Keyhole slot:	1
Threaded insert:	North American model: 1/4" screw, Depth 5/16" × 1 Other models: 5 mm screw, Depth 8 mm × 1
Grille:	Fixed

■ Surround Speaker (SKM-318S)

Type:	Full-Range Bass Reflex
Impedance:	6 Ω
Maximum input power:	120 W
Output sound pressure level:	80 dB/W/m
Frequency response:	80 Hz–22 kHz
Cabinet capacity:	0.039 cubic feet (1.1 L)
Dimensions (W × H × D):	4" × 6-7/8" × 4-9/16" (101 × 175 × 116 mm)
Weight:	1.5 lbs. (0.7 kg)
Drivers unit:	3-1/4" (8 cm) Cone
Terminal:	Spring type color coded
Keyhole slot:	1
Threaded insert:	5 mm screw, Depth 8 mm
Grille:	Fixed

Specifications and features are subject to change without notice.

ONKYO CORPORATION
Sales & Product Planning Div. : 2-1, Nisshin-cho, Neyagawa-shi, OSAKA 572-8540, JAPAN
Tel: 072-831-8023 Fax: 072-831-8163

ONKYO U.S.A. CORPORATION
18 Park Way, Upper Saddle River, N.J. 07458, U.S.A.
Tel: 201-785-2600 Fax: 201-785-2650 http://www.us.onkyo.com/

ONKYO EUROPE ELECTRONICS GmbH
Liegnitzerstrasse 6, 82194 Groebenzell, GERMANY
Tel: +49-8142-4401-0 Fax: +49-8142-4401-555 http://www.eu.onkyo.com/

ONKYO EUROPE UK Office
Suite 1, Gregories Court, Gregories Road, Beaconsfield, Buckinghamshire, HP9 1HQ
UNITED KINGDOM Tel: +44-(0)1494-681515 Fax: +44(0)-1494-680452

ONKYO CHINA LIMITED
Unit 1&12, 9/F, Ever Gain PlazaTower 1, 88, Container Port Road, Kwai Chung,
N.T., HONG KONG Tel: 852-2429-3118 Fax: 852-2428-9039
http://www.ch.onkyo.com/

ONKYO
HOMEPAGE
http://www.onkyo.com/

I0801-1

SN 29344695

* 2 9 3 4 4 6 9 5 *