

ONKYO®

Preamplifier
P-3000R

Instruction Manual



WARNING:

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

CAUTION:

TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



WARNING
RISK OF ELECTRIC SHOCK
DO NOT OPEN

AVIS
RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

Important Safety Instructions

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

PORTABLE CART WARNING

S3125A
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. Damage Requiring Service

Unplug the apparatus from the wall outlet and refer servicing to qualified service personnel under the following conditions:

 - A. When the power-supply cord or plug is damaged,
 - B. If liquid has been spilled, or objects have fallen into the apparatus,
 - C. If the apparatus has been exposed to rain or water,
 - D. If the apparatus does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the apparatus to its normal operation,
- E. If the apparatus has been dropped or damaged in any way, and
- F. When the apparatus exhibits a distinct change in performance this indicates a need for service.
16. Object and Liquid Entry

Never push objects of any kind into the apparatus through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock.

The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases shall be placed on the apparatus.

Don't put candles or other burning objects on top of this unit.
17. Batteries

Always consider the environmental issues and follow local regulations when disposing of batteries.
18. If you install the apparatus in a built-in installation, such as a bookcase or rack, ensure that there is adequate ventilation.

Leave 20 cm (8") of free space at the top and sides and 10 cm (4") at the rear. The rear edge of the shelf or board above the apparatus shall be set 10 cm (4") away from the rear panel or wall, creating a flue-like gap for warm air to escape.

Precautions

- 1. Recording Copyright**—Unless it's for personal use only, recording copyrighted material is illegal without the permission of the copyright holder.
- 2. AC Fuse**—The AC fuse inside the unit is not user-serviceable. If you cannot turn on the unit, contact your Onkyo dealer.
- 3. Care**—Occasionally you should dust the unit all over with a soft cloth. For stubborn stains, use a soft cloth dampened with a weak solution of mild detergent and water. Dry the unit immediately afterwards with a clean cloth. Don't use abrasive cloths, thinners, alcohol, or other chemical solvents, because they may damage the finish or remove the panel lettering.
- 4. Power**
WARNING
BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.
AC outlet voltages vary from country to country. Make sure that the voltage in your area meets the voltage requirements printed on the unit's rear panel (e.g., AC 230 V, 50 Hz or AC 120 V, 60 Hz).
The power cord plug is used to disconnect this unit from the AC power source. Make sure that the plug is readily operable (easily accessible) at all times.
Pressing the [**POWER**] button to select OFF mode does not fully disconnect from the mains. If you do not intend to use the unit for an extended period, remove the power cord from the AC outlet.
- 5. Preventing Hearing Loss**
Caution
Excessive sound pressure from earphones and headphones can cause hearing loss.
- 6. Batteries and Heat Exposure**
Warning
Batteries (battery pack or batteries installed) shall not be exposed to excessive heat as sunshine, fire or the like.
- 7. Never Touch this Unit with Wet Hands**—Never handle this unit or its power cord while your hands are wet or damp. If water or any other liquid gets inside this unit, have it checked by your Onkyo dealer.

8. Handling Notes

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

For U.S. models

FCC Information for User

CAUTION:

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

NOTE:

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

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

For Canadian Models

NOTE:

THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003.

For models having a power cord with a polarized plug:

CAUTION:

TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

Modèle pour les Canadien

REMARQUE:

CET APPAREIL NUMÉRIQUE DE LA CLASSE B EST CONFORME À LA NORME NMB-003 DU CANADA.

Sur les modèles dont la fiche est polarisée:

ATTENTION:

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

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 be 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	
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	

Features

- DIDRC (Dynamic Intermodulation Distortion Reduction Circuitry)
- Separate Digital/Analog Circuitry
- Separate Massive Transformers for Digital/Analog Circuitry (Toroidal Transformer for Analog Circuitry)
- Separate Anti-Vibration Aluminum Panels for Top, Front, and Sides
- Side-mounted Circuit Board Construction to Reduce Vibration
- PLL Ultra-Low Jitter Technology
- Sampling Rate Converter (Up to 192 kHz)
- Separate TI (Burr-Brown) 192 kHz/32-Bit DACs (PCM1795) for L/R Channels
- Direct Mode
- Tone Control (Bass/Treble)
- Independent Headphone Amplifier
- Discrete Phono Equalizer
- Phono Input (MM)
- USB Digital Input for 192 kHz/32-Bit HD Audio from PC*
- AES/EBU Balanced Digital Input with XLR Connector
- 5 Digital Inputs (2 Optical, 2 Coaxial and 1 AES/EBU) and 1 Optical Output
- Separate L/R Bi-Amping-Capable Pre-Outs
- Gold-Plated, Machined Solid Brass, 19 mm-Pitch Audio Terminals
- 12 V Trigger Out
- Display Dimmer (Normal/Dim/Off)

* Playback of PC audio requires dedicated software that can be downloaded from an Onkyo website.

Technologies

DIDRC (Dynamic Intermodulation Distortion Reduction Circuitry)

Since the advent of digital audio, the values of S/N (signal-to-noise) ratio have risen significantly. However, it is also recognized that in terms of perceived S/N, analog audio sources are not inferior to digital sources.

Generally, S/N measures the ratio when sound is and not produced, but takes no account of the noise generated during sound reproduction.

For a long time, Onkyo has focused and made extensive research on the S/N when sound is produced (dynamic S/N). Using a mechanism that captures the noise beyond audible range, it has been possible to determine that both dynamic S/N and perceived S/N aggravate during music reproduction.

Although frequencies above 20 kHz are beyond human hearing, it is well known that a beat can be perceived if different signals are overlapped at such frequencies.

During the analog audio era, no significant signals were entering beyond the audible range. However, the digital era has made recording beyond the audible range possible and the generated beat is now perceivable.

With Onkyo's DIDRC technology, a new approach is introduced which prevents such beat from penetrating the audible range.

Separate Digital/Analog Circuitry and Transformers

To prevent unwanted interference, the P-3000R employs physically separate circuitry for digital and analog processing. What's more, it also features separate transformers for digital and analog circuitry.

Playback of Various Music Sources Including PC Audio via USB

Using the USB port on the rear panel of the P-3000R, you can connect your PC and play back 192 kHz/32-bit HD audio formats*.

* Playback of PC audio requires dedicated software that can be downloaded from an Onkyo website.


PLL (Phase Locked Loop) Ultra-Low Jitter Technology

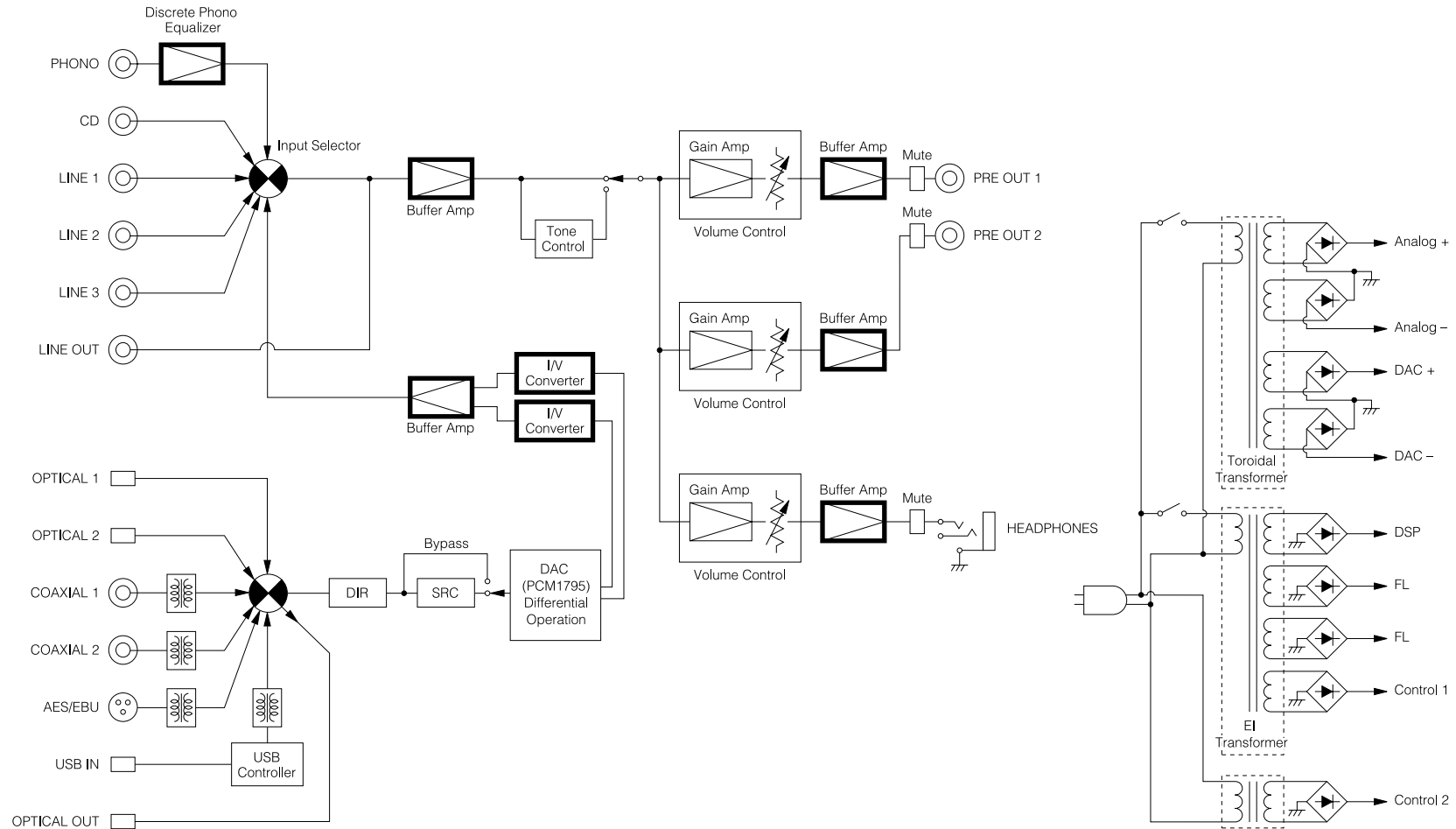
Jitter is an unwanted side-effect of the digital-to-analog conversion process caused by fluctuations in the time domain of a digital signal. PLL ultra-low jitter technology reduces jitter by comparing the input and output phases of the digital signal and creating an accurate clock waveform. This enhances the precision of digital signal processing and noticeably improves perceived audio quality.

Side-mounted Circuit Board Construction

Rather than being directly connected to the chassis base, the circuit boards inside the P-3000R are cushioned by internal struts and affixed to the front, side, and rear panels. This method of construction prevents vibrations from the chassis from adversely affecting the circuit boards.

Block Diagram

 DIDRC
(Dynamic Intermodulation Distortion Reduction Circuitry)

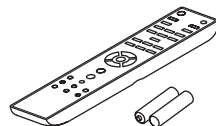


Supplied Accessories

Make sure you have the following accessories:

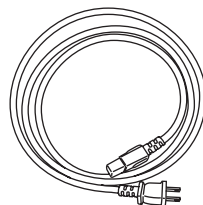
Remote controller and two batteries

- Remote controller (RC-797S) (1)
- Batteries (R03/AAA) (2)



Power cord

- Power cord (1.8 m/5.9 ft) (1)
(Plug type varies from country to country.)



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

Thank you for purchasing an Onkyo Preamplifier. 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 Preamplifier. Please retain this manual for future reference.

Contents

Introduction

Important Safety Instructions	2
Precautions	3
Features	5
Technologies	6
Block Diagram	7
Supplied Accessories	8
Before Using the Preamplifier	10
Installing the Batteries	10
Using the Remote Controller	10
Installing the Preamplifier	10
Getting to Know the Preamplifier	11
Front Panel	11
Display	12
Rear Panel	13
Remote Controller	14

Connections

Connections	15
Cable and Jacks	15
Connecting the Power Cord	16
Connecting a Compact Disc Player	17
Connecting the Onkyo Dock	18
Connecting a Turntable	19
Connecting a Cassette Tape Deck	19
Connecting a Recording Component	19
Connecting a Power Amplifier	20

Turning On & Basic Operations

Basic Operations	25
Turning On/Off the Preamplifier	25
Adjusting the Volume	26
Selecting the Input Source	26
Hiding the Digital Source Display	26
Adjusting the Bass, Treble and Balance	27
Muting the Sound	27
Using the Direct Function	28
Adjusting the Display Brightness	28
Changing the Display information	28
Using Headphones	29
Using MODE button	29
Playing the Onkyo Compact Disc Player	30
Playback	30
Playing Music Files on the PC	31
Connecting the PC	31
Installing a USB Driver	31
Playing Music Files on the PC	31

Controlling iPod & Other Components

Using an Onkyo Dock	32
Playing Music Files on iPod	32
Onkyo Dock	32

Advanced Operations

Custom Setup	33
Changing the Selector Name	33
Selecting the Sampling Rate Conversion	33
Setting the Bi-amp Level	33
Setting the Headphone Level	34
Selecting the Analog Audio Out	34
Setting ASb (Auto Standby)	35
LINE 2 Output with a Fixed Volume	35

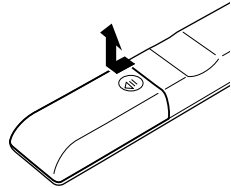
Others

Troubleshooting	36
Specifications	38

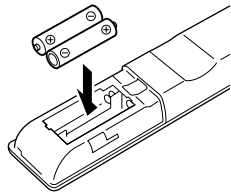
Before Using the Preamp

Installing the Batteries

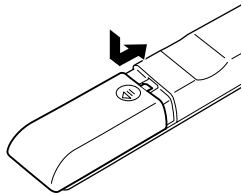
- 1 To open the battery compartment, press the small hollow and slide the cover.



- 2 Insert the two supplied batteries (R03/AAA) in accordance with the polarity diagram inside the battery compartment.



- 3 Replace the cover and slide it shut.

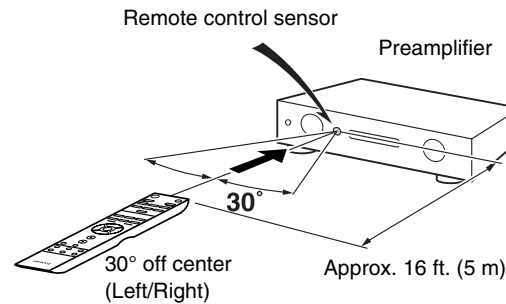


Note

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

Using the Remote Controller

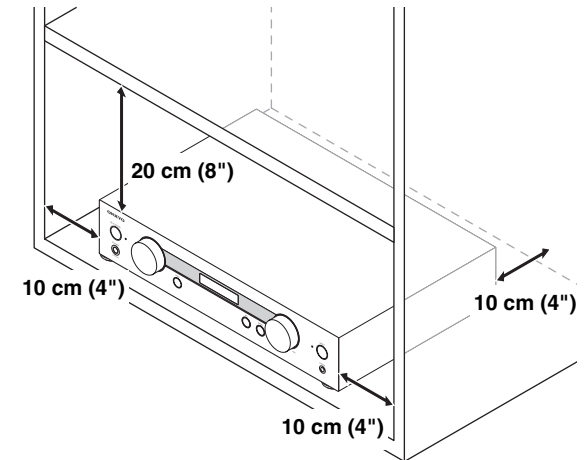
To use the remote controller, point it at the preamplifier's remote control sensor, as shown below.



Note

- The remote controller may not work reliably if the preamplifier 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 preamplifier 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 preamplifier 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 preamplifier's remote control sensor.

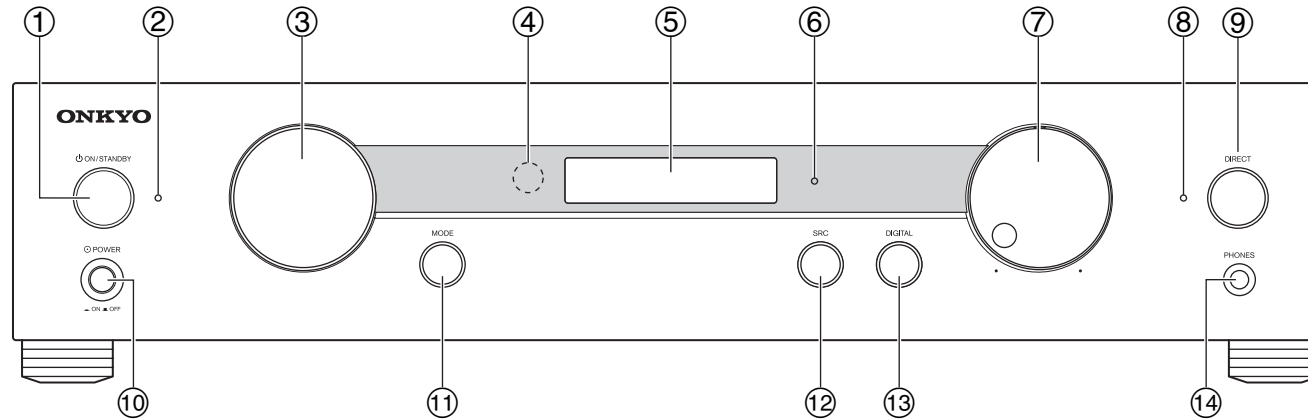
Installing the Preamp



Install the preamplifier on a sturdy rack or shelf. Position it so that its weight is evenly dispersed on its four legs. Do not install the preamplifier in a place with vibration or an unstable location.

Getting to Know the Preamplifier

Front Panel



The page numbers in parentheses show where you can find the main explanation for each item.

① ON/STANDBY button (→ 25)

Sets the preamplifier to On or Standby.

② Standby LED (→ 25)

Lights when the preamplifier is in Standby mode.

③ Multi jog dial (→ 29)

Selects the input sources in sequence. The input sources are “CD”, “LINE 1”, “LINE 2”, “LINE 3”, “COAX1”, “COAX2”, “OPT1”, “OPT2”, “AES/EBU”, “USB”, “PHONO”.

It is also used for various settings.

* You can select USB input only when the USB connector is connected.

④ Remote control sensor (→ 10)

The sensor receives control signals from the remote controller.

⑤ Display (→ 12)

See “Display”.

⑥ Display Off LED (→ 28)

Lights when the display is turned off.

Before entering standby mode with the ASb function, the Display Off LED flashes 30 seconds before the ASb function starts running.

⑦ Volume controller (→ 26)

You can set the volume.

⑧ Direct LED (→ 28)

Lights when the preamplifier is in Direct mode.

⑨ DIRECT button (→ 28)

Selects the Direct mode. Pressing this button again cancels the Direct mode.

⑩ POWER switch (→ 25)

This is the main power switch. When set to the **OFF** position (■), the preamplifier is completely shutdown. It must be set to the **ON** position (■) to set the preamplifier to On or Standby.

⑪ MODE button (→ 29)

Press this button to start the following settings: “BASS”, “TREBLE”, “BALANCE”, “BIAMP”, “HPLEVEL (headphone level)”, “LINEOUT (or RECOUT)”, “ASb (Auto Standby)”, “L2 OUT”.

⑫ SRC (Sampling Rate Converter) button (→ 33)

This button is used to convert the sampling rate of the input digital signal: “BYPASS (no conversion)”, “FS x2”, “FS x4”.

Note

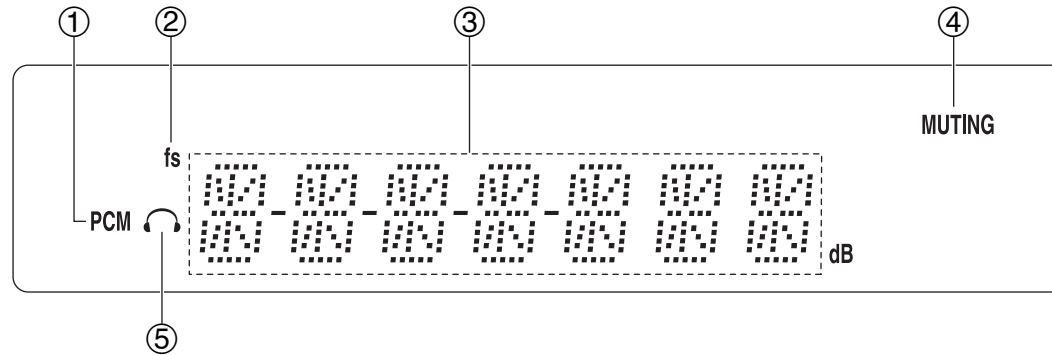
- The **USB** input does not support **FS x4** (→ 31).

⑬ DIGITAL button (→ 26)

This button is used to turn the digital input source display on or off.

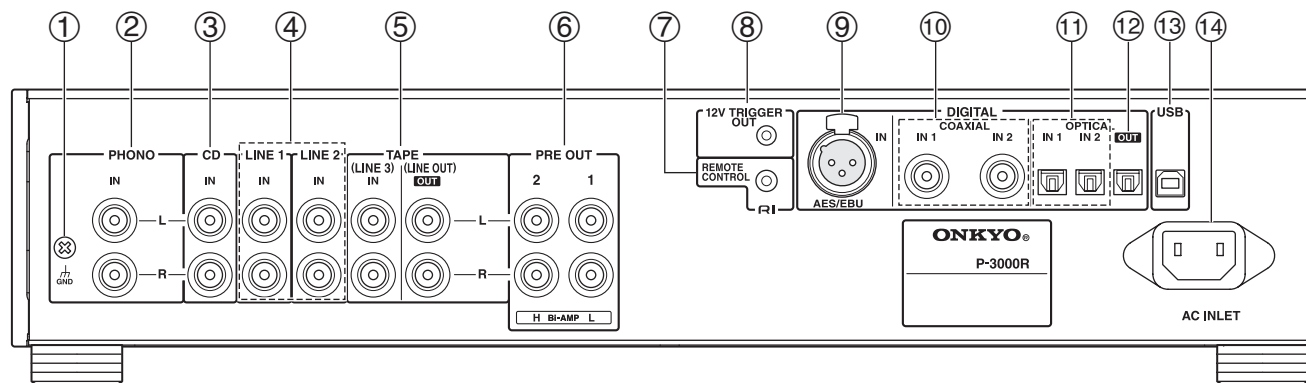
⑭ PHONES jack (→ 29, 34)

Stereo headphones with a standard plug can be plugged into this jack.



For detailed information, see the pages in parentheses.

- ① **PCM indicator**
Lights when it detects digital audio signal input. It blinks when nothing is detected.
- ② **fs indicator (→ 28)**
Lights when sampling rate is displayed.
- ③ **Message area**
Displays various information.
- ④ **MUTING indicator (→ 27)**
Flashes while the preamplifier is muted.
- ⑤ **Headphone indicator (→ 29)**
Lights when a pair of headphones are plugged into the **PHONES** jack.



① **GND screw**

This screw is for connecting a turntable's ground wire.

② **PHONO IN L/R jacks**

These analog audio inputs are for connecting a turntable (MM).

③ **CD IN L/R jacks**

These analog audio inputs are for connecting a compact disc player.

④ **LINE 1/2 IN L/R jacks**

These analog audio inputs are for connecting a playback device.

To input audio output (preout) to the preamplifier from the AV receiver, set "L2 OUT" to "THROUGH". The **PRE OUT** output of the preamplifier is fixed at 0 dB.

You can output the audio signal coming from LINE 2 with a fixed volume (→ 35).

⑤ **TAPE IN (LINE 3 IN) and TAPE OUT (LINE OUT) jacks**

These analog audio inputs and outputs are for connecting a cassette tape deck.

⑥ **PRE OUT 1/2 L/R jacks**

These outputs are for connecting a power amplifier.

⑦ **RI REMOTE CONTROL jack**

This **RI** (Remote Interactive) jack can be connected to an **RI** jack on an Onkyo Dock. The preamplifier's remote controller can then be used to control the Onkyo Dock.

To use **RI**, you must make an audio connection between the preamplifier and the Onkyo Dock. Other Onkyo components cannot be controlled via **RI**.

⑧ **12V TRIGGER OUT jack**

This output can be connected to the 12-volt trigger inputs on the power amplifier.

⑨ **DIGITAL AES/EBU IN jack**

This balanced AES/EBU input is for connecting a component with balanced AES/EBU output, such as compact disc players.

⑩ **DIGITAL COAXIAL IN 1/2 jacks**

These coaxial digital audio inputs are for connecting components with coaxial digital audio outputs, such as compact disc players.

⑪ **DIGITAL OPTICAL IN 1/2 jacks**

These optical digital audio inputs are for connecting components with optical digital audio outputs, such as compact disc players.

⑫ **DIGITAL OPTICAL OUT jack**

This optical digital audio output is for connecting an AV receiver. Digital input signals are put through and output on this preamplifier as is.

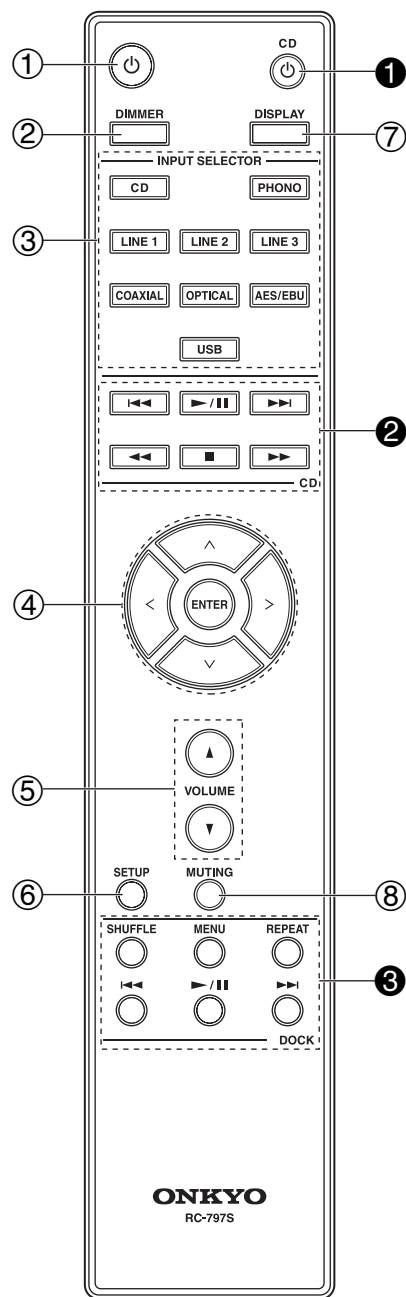
⑬ **USB port**

A PC can be connected here and the music can be played through the preamplifier.

⑭ **AC INLET**

The supplied power cord is connected here. The other end of the power cord should be connected to a suitable wall outlet.

See "Connections" for connection information (→ 15 to 24).



For detailed information, see the pages in parentheses.

- ① **⏻ button (→ 25)**
Sets the preamplifier to On or Standby.
- ② **DIMMER button (→ 28)**
Adjusts the display brightness.
- ③ **INPUT SELECTOR buttons (CD, PHONO, LINE 1, LINE 2, LINE 3, COAXIAL, OPTICAL, AES/EBU, USB) (→ 26)**
Selects an input source.
- ④ **^/∨/</> and ENTER buttons**
Used to select and adjust settings.
- ⑤ **VOLUME ▲/▼ button (→ 26)**
Adjusts the volume of the preamplifier.
- ⑥ **SETUP button**
Used to start the setup.
- ⑦ **DISPLAY button (→ 28, 33)**
Displays information about the current input source.
- ⑧ **MUTING button (→ 27)**
Mutes or unmutes the preamplifier.

You can also use the remote controller to control your Onkyo compact disc player (such as C-7000R) and Onkyo Dock.

Note

- Make sure the remote controller is pointed at the compact disc player when using it.
- Depending on the component, you may not be able to control with the remote controller.

■ Controlling the Onkyo Compact Disc Player (→ 30)

- ① **CD ⏻ button**
Used to set the compact disc player to On or Standby.

② Playback mode buttons
















- ⏮ button**
Used to select the previous song.
- ▶/⏸ button**
Used to start or pause playback.
- ⏭ button**
Used to select the next song.
- ⏪ button**
Used to fast reverse the current song.
- ⏩ button**
Used to fast forward the current song.
- button**
Used to stop playback.

■ Controlling the Onkyo Dock (→ 32)

- ③ **Dock control buttons**
- SHUFFLE button**
Used with the shuffle function.
- MENU button**
Opens iPod menu or returns to the previous menu.
- REPEAT button**
Used with the repeat function.
- ⏮ button**
Used to select the previous song.
- ▶/⏸ button**
Used to start or pause playback.
- ⏭ button**
Used to select the next song.

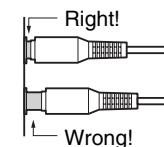
Connections

Cable and Jacks

Balanced AES/EBU			This is a professional digital audio interface. Balanced AES/EBU cables are used for better noise immunity and longer cable runs. The maximum sampling rate for PCM input is 192 kHz/24 bit, 2ch.
USB digital audio			USB digital connections allow you to enjoy digital sound. The preamplifier supports high-speed USB 2.0. Use Type A-B USB cable. The maximum sampling rate for PCM input is 192 kHz/32 bit, 2ch.
Optical digital audio			Optical digital connections allow you to enjoy digital sound such as PCM. The maximum sampling rate for PCM input is 96 kHz/24 bit, 2ch. Input and output jacks are provided.
Coaxial digital audio		 Orange	Coaxial digital connections allow you to enjoy digital sound such as PCM. The maximum sampling rate for PCM input is 192 kHz/24 bit, 2ch.
Analog audio (RCA)		 L White R Red	Analog audio connections (RCA) carry analog audio.
RI		 REMOTE CONTROL RI	To use RI (Remote Interactive), you must make an audio connection between the preamplifier and the Onkyo Dock.
Mono mini-plug		 12V TRIGGER	Use the supplied or commercially available mono mini-plug cable to connect to the 12V trigger terminals on the other device for linked operation. The tip polarity of the connectors are as shown in the right.  12 volts positive tip polarity

Note

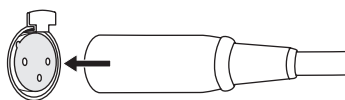
- Push plugs in all the way to make good connections (loose connections can cause noise or malfunctions).
- To prevent interference, keep audio cables away from power cords and speaker cables.
- The preamplifier's optical digital jacks have shutter-type covers that open when an optical plug is inserted and close when it's removed. Push plugs in all the way.
- To prevent shutter damage, hold the optical plug straight when inserting and removing.
- The analog audio cable can be used instead of the coaxial cable.



About Balanced Input (AES/EBU Jack)

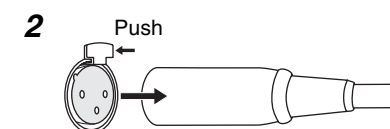
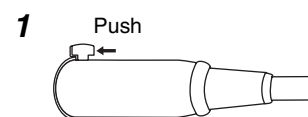
Plugging the AES/EBU cable

Match the pins and insert the terminal until you hear a “click.” Make sure that the terminal is locked by lightly pulling the connection cable.

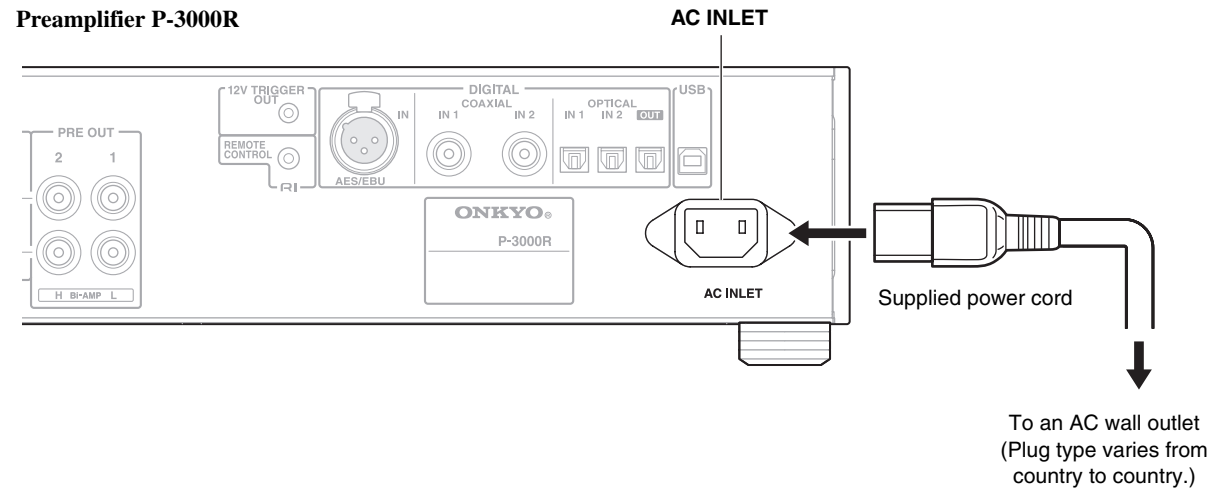


Unplugging the AES/EBU cable

Pull out the connection cable while holding down the lever.



Connecting the Power Cord



- 1** Make sure that the main power of the preamplifier is turned off.
- 2** Connect all of your components.
- 3** Connect the supplied power cord to the preamplifier's **AC INLET**.
- 4** Plug the power cord into an AC wall outlet.

Tip

- To reduce noise, do not tie the signal cable and power cable together. Wire them so that they are away from each other.

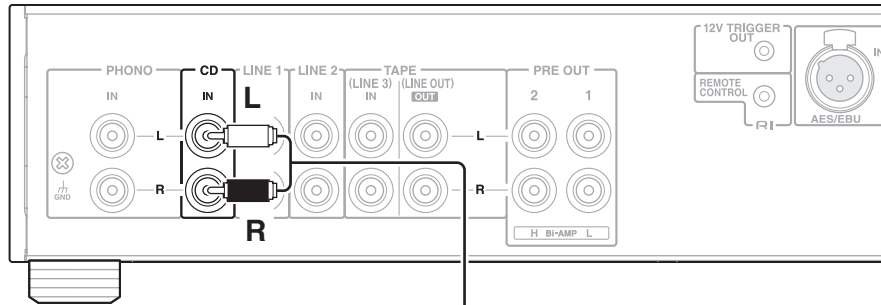
Note

- **Never disconnect the power cord from the preamplifier while the other end is still plugged into a wall outlet.** Doing so may cause an electric shock. Always disconnect the power cord from the wall outlet first, and then the preamplifier.
- Turning on the preamplifier may cause a momentary power surge that might interfere with other electrical equipment on the same circuit. If this is a problem, plug the preamplifier into a different branch circuit.
- Do not use a power cord other than the one supplied with the preamplifier. The supplied power cord is designed exclusively for use with the preamplifier and should not be used with any other equipment.

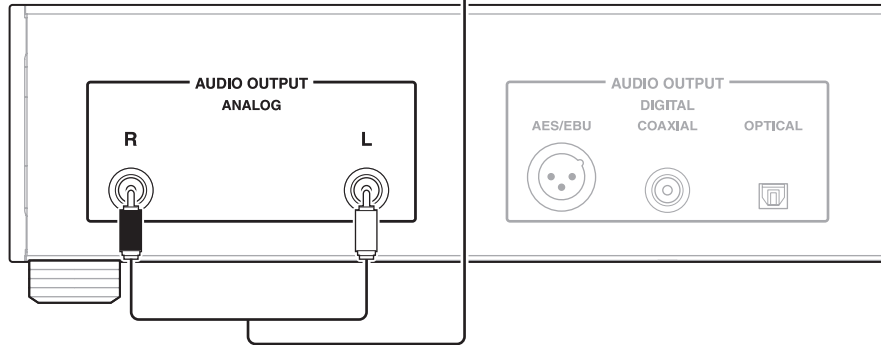
Connecting a Compact Disc Player

Analog Connection

Preamplifier P-3000R

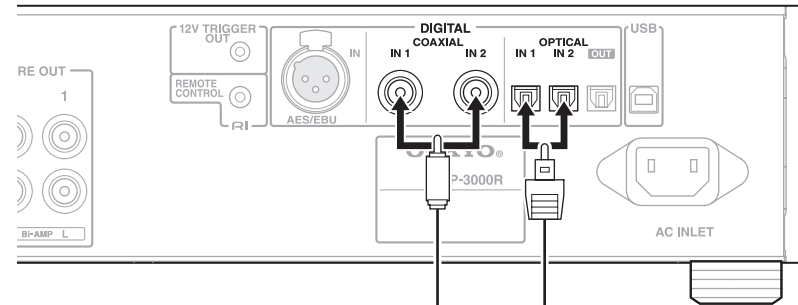


Compact Disc Player C-7000R

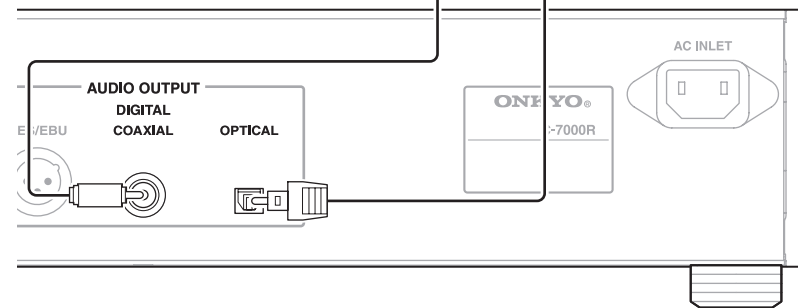


Digital (Optical or Coaxial) Connection

Preampifier P-3000R



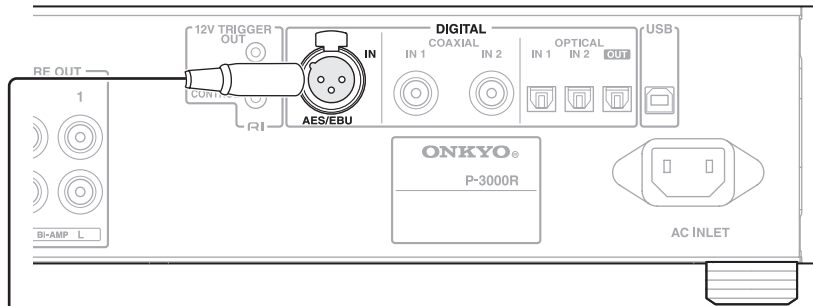
Compact Disc Player C-7000R



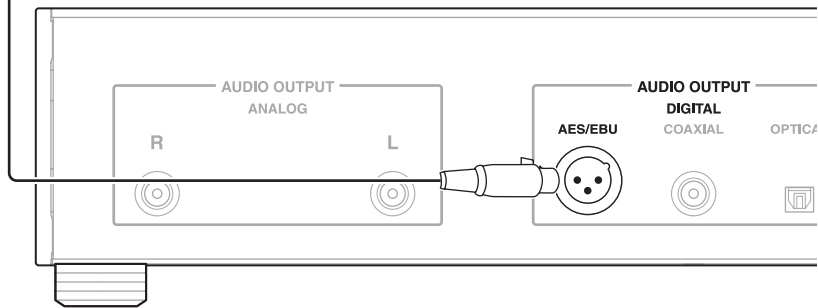
Connect either of them.

Digital AES/EBU Connection

Preamplifier P-3000R



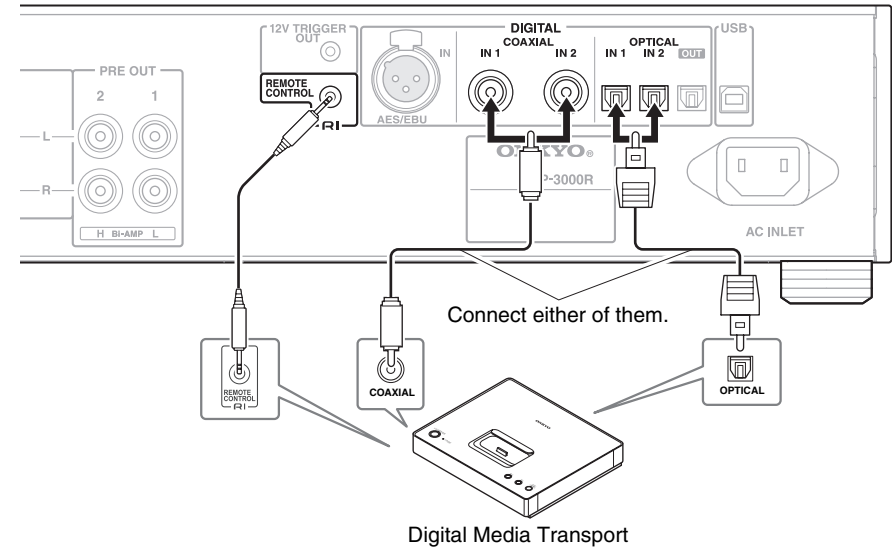
Compact Disc Player C-7000R



This is an example of the connection using the compact disc player C-7000R.

Connecting the Onkyo Dock

Preamp P-3000R

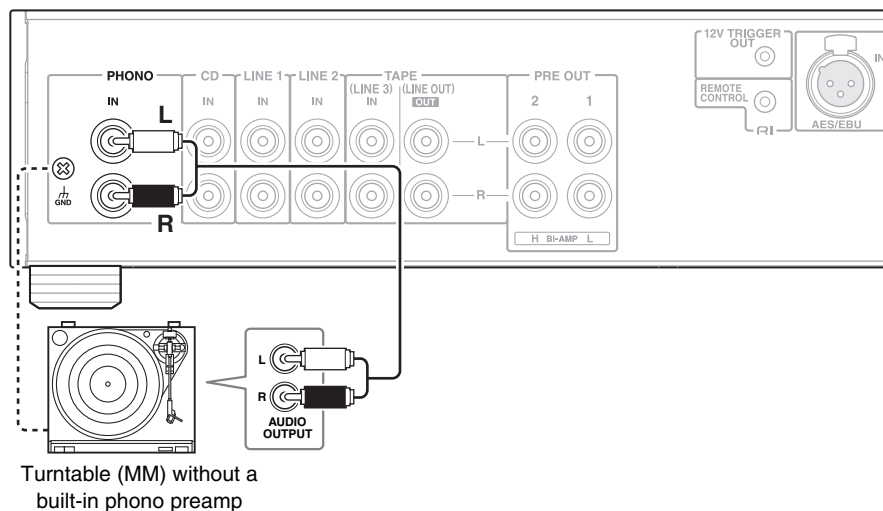


Note

- You need to change the selector name to use **RI** function (→ 33).
- Use only **RI** cables for **RI** connections. **RI** cables are supplied with Onkyo Docks.
- Connect only Onkyo Dock to **RI** jacks. Connecting other manufacturer's components may cause a malfunction.
- Use only the Onkyo Dock with digital connections.

Connecting a Turntable

Preamplifier P-3000R



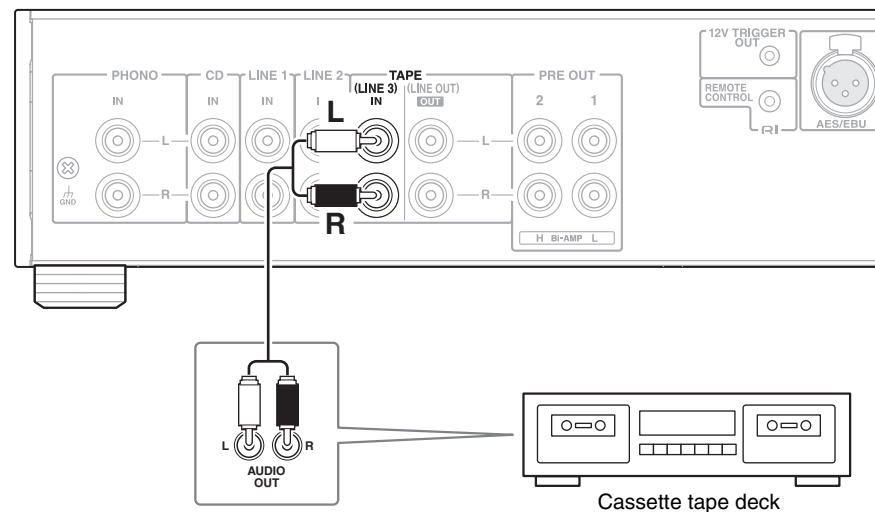
Remove the short pins plugged into the jacks before connecting a turntable to the **PHONO** inputs.

Q Tip

- If your turntable (MM) has a phono built-in preamp, you can connect to other analog inputs such as **CD IN** or **LINE 1 IN**.
- If your turntable has a moving coil (MC) type cartridge, you'll need a commercially available MC head amp or MC transformer to connect to **PHONO IN**. See your turntable's manual for details.
- If your turntable has a ground wire, connect it to **GND** screw. With some turntables, connecting the ground wire may produce an audible hum. If this happens, disconnect it.

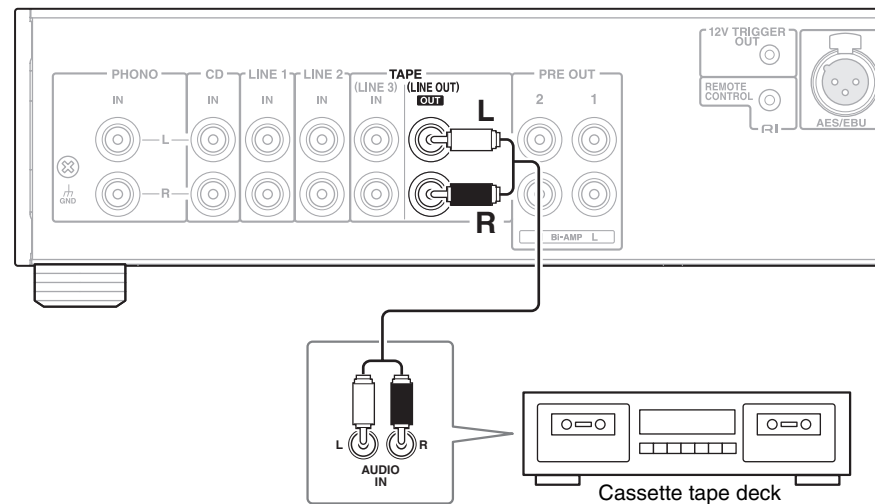
Connecting a Cassette Tape Deck

Preamplifier P-3000R



Connecting a Recording Component

Preamplifier P-3000R



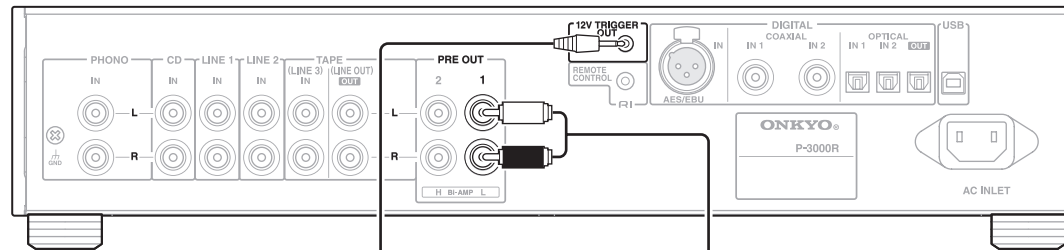
Note

- Set "LINEOUT" setting to "RECOUT" (→ 34).
- When connecting a player recorder to **TAPE IN (LINE 3 IN)** and **TAPE OUT (LINE OUT)**, always change the "LINEOUT" setting to the "RECOUT" (→ 34).

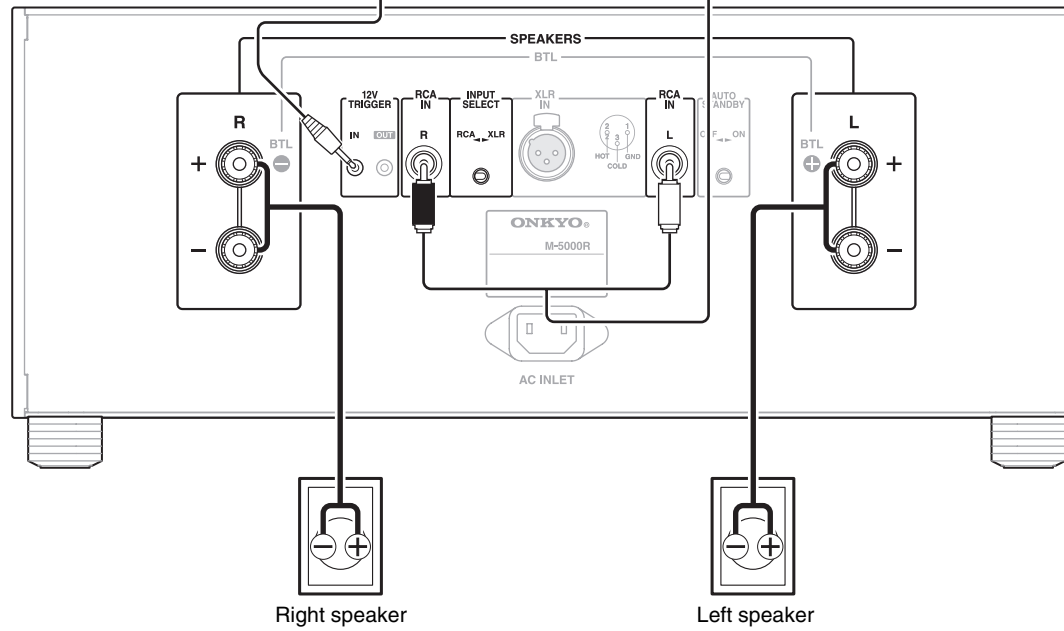
Connecting a Power Amplifier

Stereo Connection

Preamplifier P-3000R

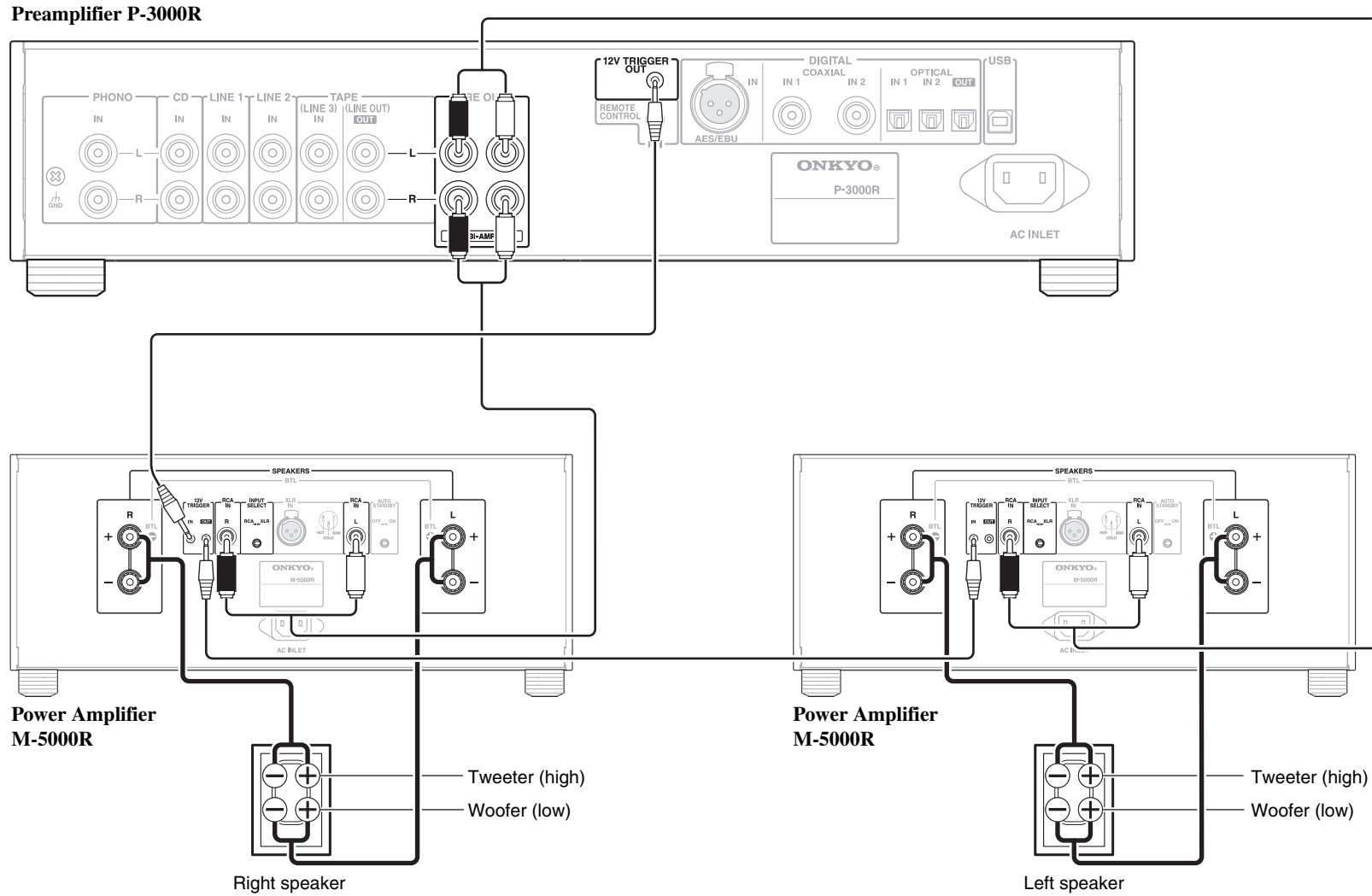


Power Amplifier M-5000R



This is an example of the stereo connection using the power amplifier M-5000R.

Bi-amping Connection



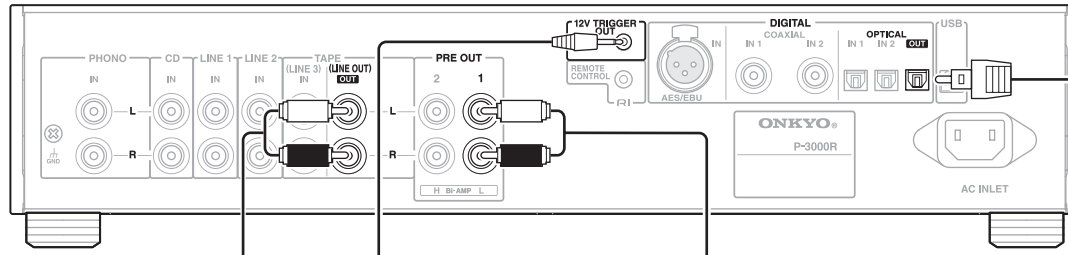
This is an example of the bi-amping connection using the power amplifier M-5000R.

Important:

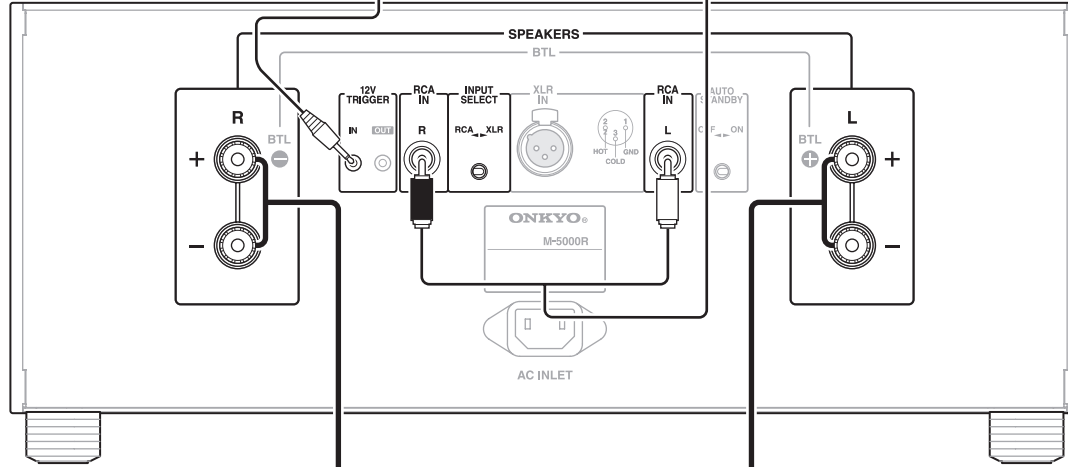
- When making the bi-amping connections, be sure to remove the jumper bars that link the speakers' tweeter (high) and woofer (low) terminals.
- Bi-amping can be used only with speakers that support bi-amping. Refer to your speaker manual.

Stereo Connection (Optional)

Preamplifier P-3000R



Power Amplifier M-5000R



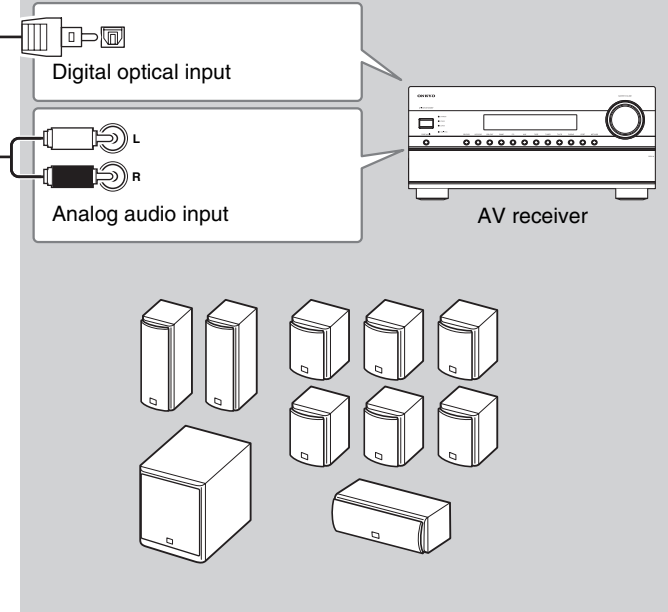
Right speaker

Left speaker

Connect either of them.

■ Connecting an AV Receiver

If you connect analog audio to an AV receiver, the output will be stereo.



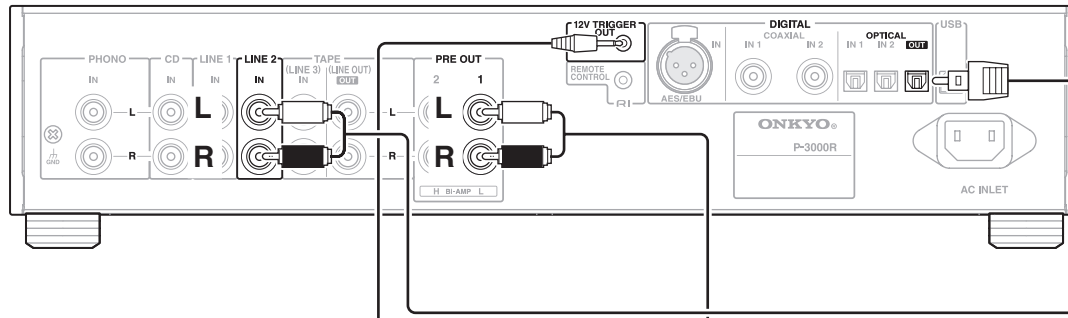
This is an example of the stereo connection using the power amplifier M-5000R.

Note

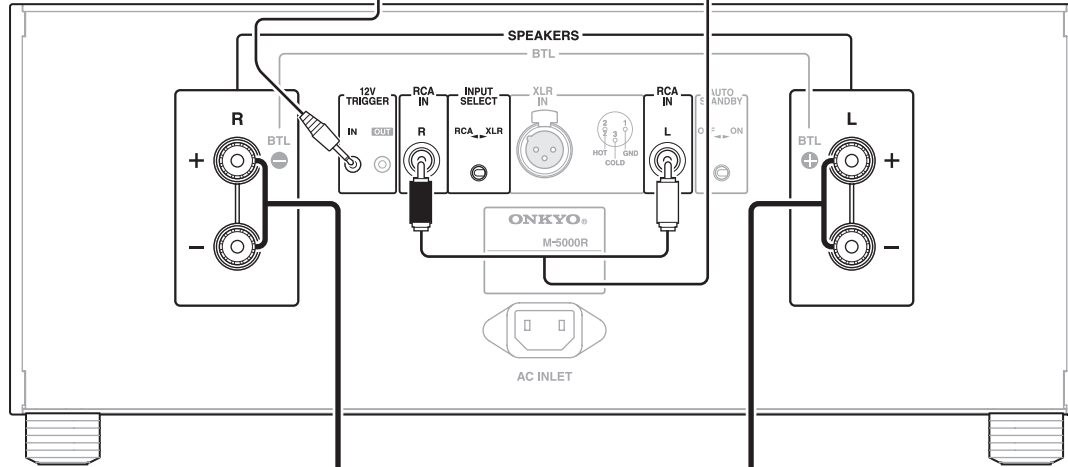
- If you make a digital audio connection between the preamplifier and AV receiver, analog input signal is not output from DIGITAL OUT.

Using Stereo Speakers as the Front Speakers for Your Surround Sound System

Preamplifier P-3000R



Power Amplifier M-5000R



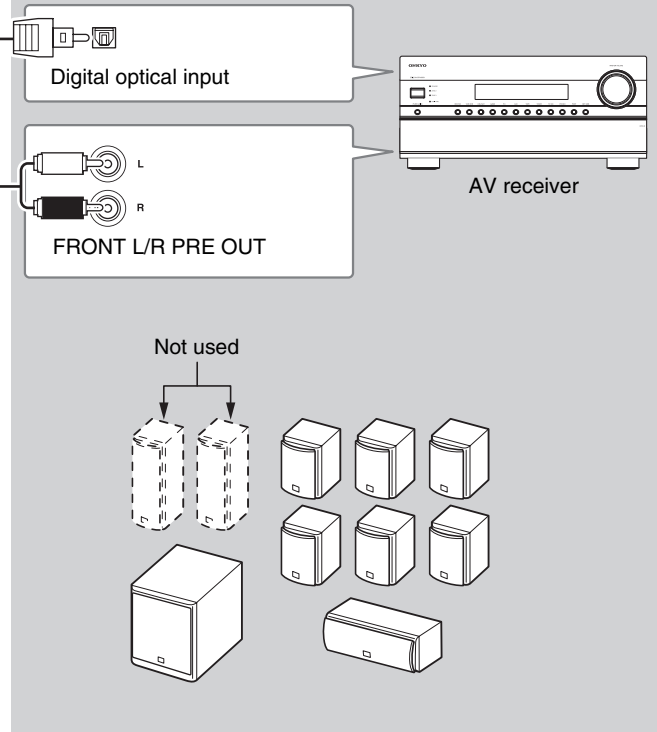
Front right speaker

Front left speaker

Note

- To adjust the volume of the front speakers by the AV receiver, you must set the "L2 OUT" setting to "THROUGH" (→ 35).
- When plugging other components such as compact disc players into the LINE 2 jack, change the "L2 OUT" setting to "NORMAL" (→ 35).

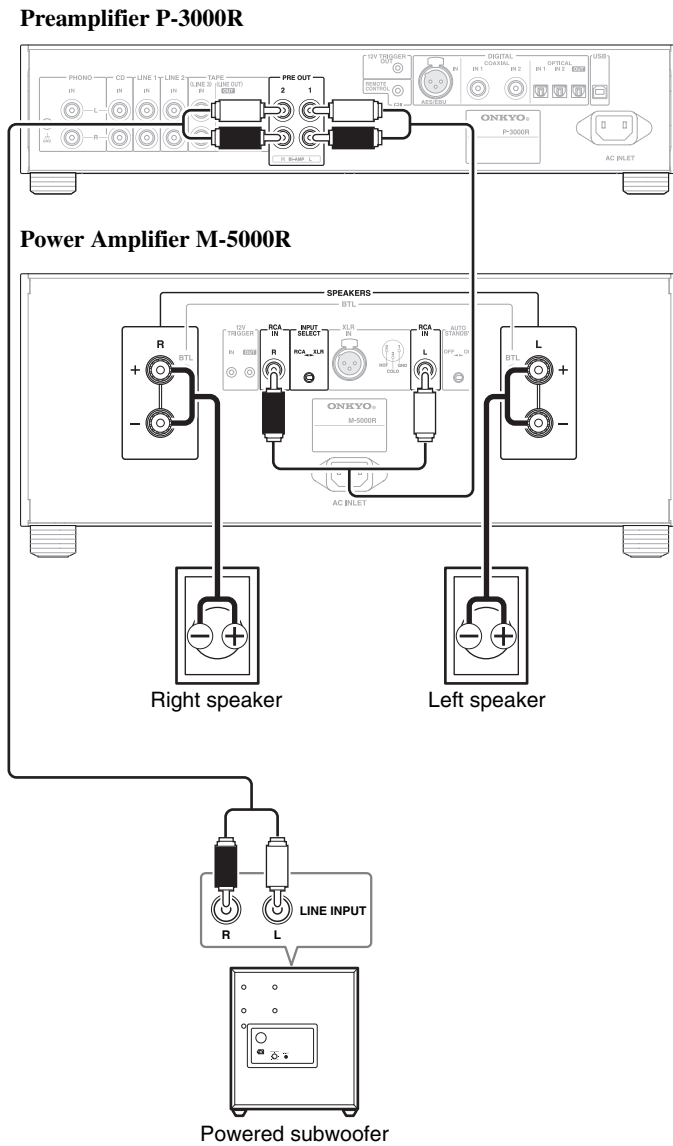
Surround sound system



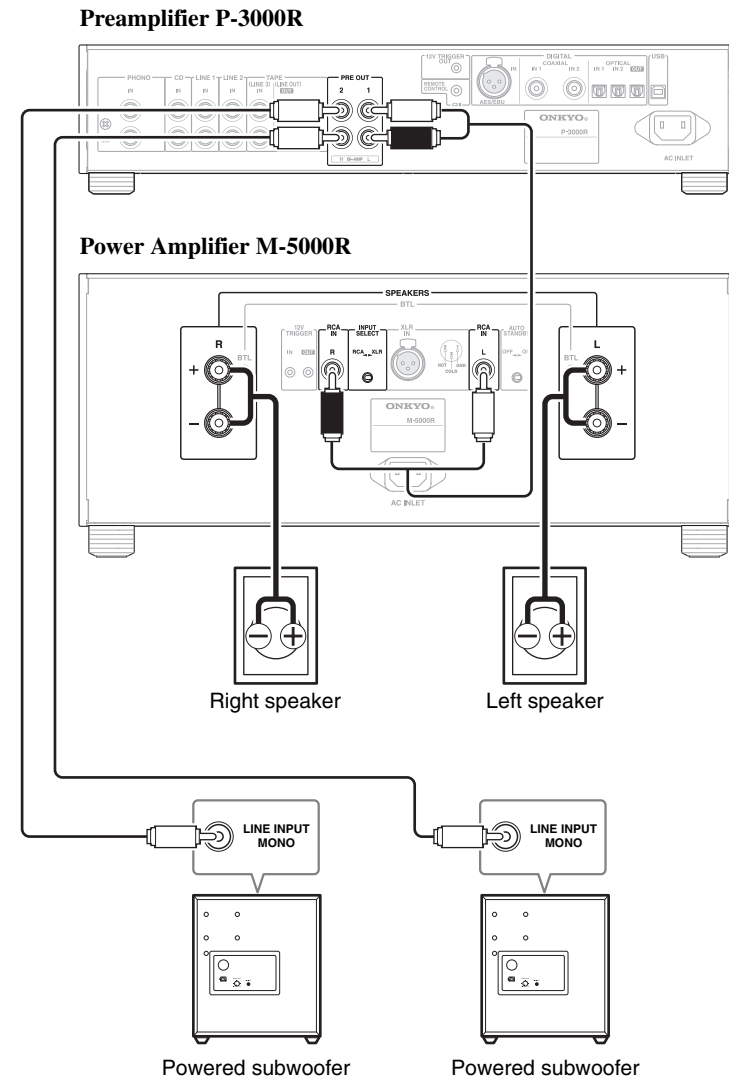
This is an example of the connection using the power amplifier M-5000R.

Connecting the Powered Subwoofers

■ 2.1 channel system (2 speakers and 1 subwoofer)



■ 2.2 channel system (2 speakers and 2 subwoofers)

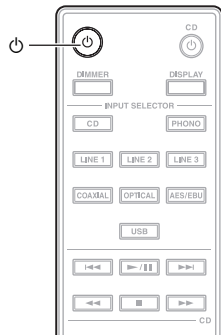
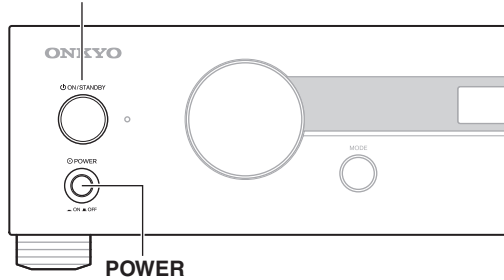


This connection is not available for subwoofers that handle only mono input. A separate conversion cable is required.

Basic Operations

Turning On/Off the Preamp

ON/STANDBY



Turning On the Preamp

- 1 Set **POWER** to the **ON** position (⏻) on the front panel.
- 2 Press ⏻ to turn on the preamp.
The preamp comes on, the display lights, and the Standby LED goes off.

You can also use preamp's **ON/STANDBY**.

Tip

- After a certain period of warming up, the temperature of the preamp's components and internal temperature are stabilized, and the sound will soften.
- The previous input source will appear on the display when the preamp is turned on.

Note

- The preamp remembers the state when power was previously turned off, and returns to the state.

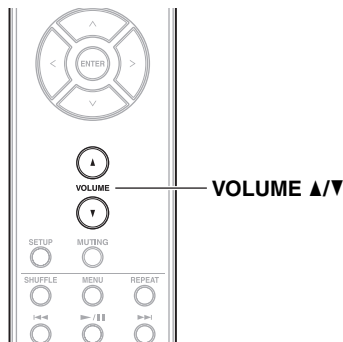
Turning Off the Preamp

- 1 Press ⏻ to set the preamp to Standby.
The preamp will enter Standby mode, and the Standby LED lights.
- 2 To completely shut down the preamp, set **POWER** to the **OFF** position (⏻).

Note

- See "Setting ASb (Auto Standby)" for the auto standby function (→ 35).

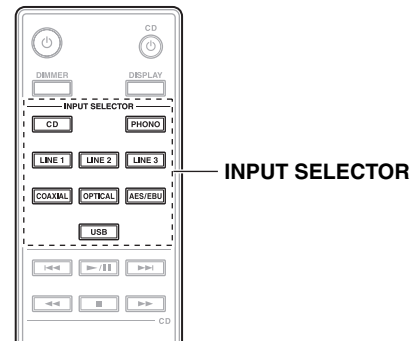
Adjusting the Volume



- 1 Use **VOLUME ▲/▼** to adjust the volume.

You can also use preamplifier's volume controller.

Selecting the Input Source



- 1 Use **INPUT SELECTOR** to select the input source. The **COAXIAL** and **OPTICAL** toggle every time they are pressed in the sequence of **COAXIAL** (COAX1 → COAX2) and **OPTICAL** (OPT1 → OPT2) respectively.

You can also use preamplifier's Multi jog dial to switch input sources in sequence.

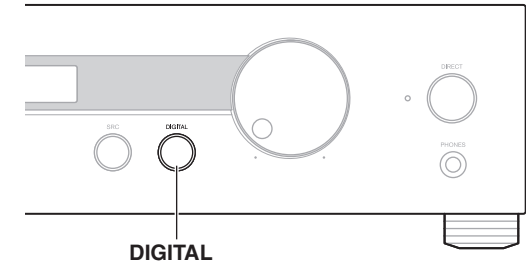
The input sources are “CD”, “LINE 1”, “LINE 2”, “LINE 3”, “COAX1”, “COAX2”, “OPT1”, “OPT2”, “AES/EBU”, “USB”*, “PHONO”.

* You can select USB input only when the USB connector is connected.

Note

- When the USB connector is not connected, you cannot select USB even if you press USB on the remote controller. The message “NO USB” appears.

Hiding the Digital Source Display



This setting makes the preamplifier not to display the digital sources.

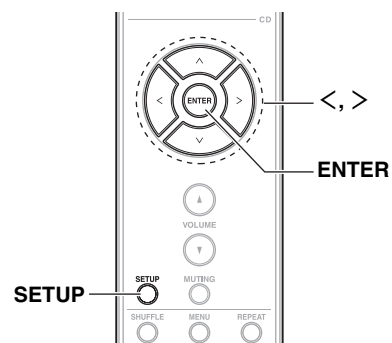
- 1 Press **DIGITAL** repeatedly on the preamplifier.
 - ▶ **ON** (default):
Digital input sources are displayed.
 - ▶ **OFF**:
Digital input sources cannot be selected.

The digital source display setting will be automatically switched from “OFF” to “ON”, if you press the digital input selector on the remote controller.

Note

- When digital input sources are selected, pressing **DIGITAL** has no effect.

Adjusting the Bass, Treble and Balance



You can adjust the bass, treble and balance.

1 Press **SETUP**.

2 Press **</>** to select “**BASS**”, “**TREBLE**” or “**BALANCE**”.

3 Press **ENTER**.

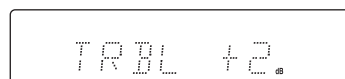
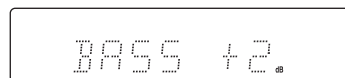
4 Press **</>** to adjust the value.

The setting has been established.

▶ **BASS**

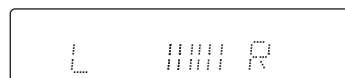
▶ **TREBLE**

The value changes by 2 dB and can be set from –8 dB to +8 dB.



▶ **BALANCE**

The left and right output balance can be adjusted.



To cancel the setup at any point, press **SETUP**.

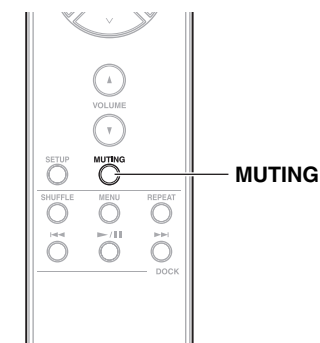
You can also use preamplifier’s **MODE** and Multi jog dial.

See “Using **MODE** button” to perform this procedure on the preamplifier (→ **29**).

Note

- The preamplifier will end the setup if there is no operation for 8 seconds.
- The tone controls are canceled when the Direct function is set to on.

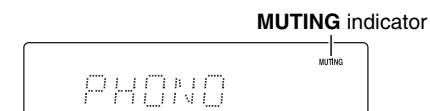
Muting the Sound



1 Press **MUTING** to mute the out of the preamplifier.

The **MUTING** indicator flashes on the display.

To unmute the preamplifier, press **MUTING** again.

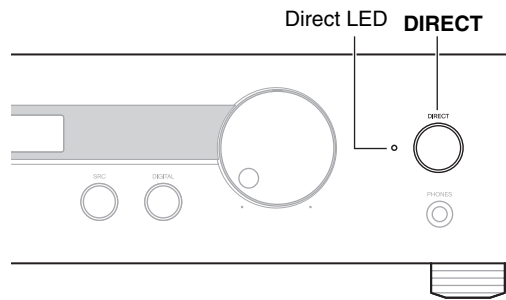


Note

While preamplifier is muted:

- Turning the Volume controller on the preamplifier or pressing **VOLUME ▲/▼** on the remote controller will unmute the preamplifier.
- If you turn the preamplifier off, the next time you turn it on, the preamplifier will be unmuted.

Using the Direct Function



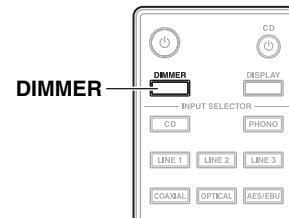
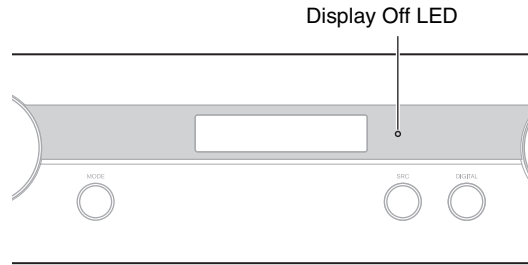
- 1 Press **DIRECT** on the preamplifier to turn the Direct function on or off.

When the Direct function is off, the tone controls can be used to adjust the sound. When the Direct function is on, the tone controls are bypassed, so you can enjoy a pure sound, then front display goes off and the Direct LED lights.

Note

- The display lights for 5 seconds if you control anything else than volume or DIMMER on the front panel or remote controller when the display brightness is set to OFF.

Adjusting the Display Brightness

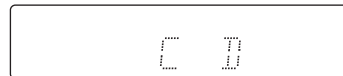


You can adjust the brightness of the preamplifier's display.

- 1 Press **DIMMER** repeatedly to change the brightness of the display in sequence.

Normal → Dim → Off

Normal



Dim



Off

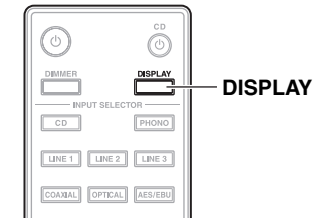
The Display Off LED lights.



Note

- The display lights for 5 seconds if you control anything else than volume on the front panel or remote controller when the display brightness is set to OFF.

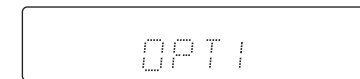
Changing the Display information



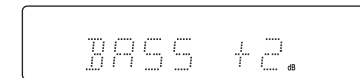
You can display the selected selector or the setting value.

- 1 Press **DISPLAY** to switch the display in sequence.

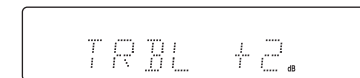
Selector



BASS

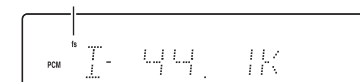


TREBLE

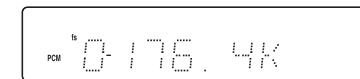


Input fs (sampling rate)

fs indicator



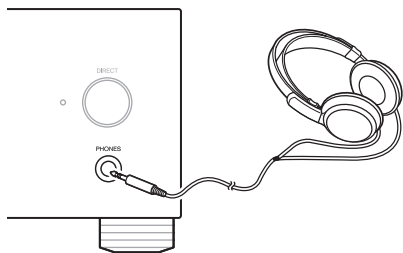
Output fs (sampling rate)



Note

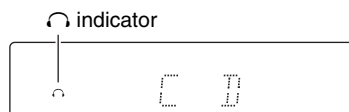
- Input fs (sampling rate) and output fs (sampling rate) are displayed only while the DIGITAL selector is selected.
- Depending on the source, sometimes the value of the sampling rate differs from the actual display.

Using Headphones



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

The Headphone indicator lights on the display.



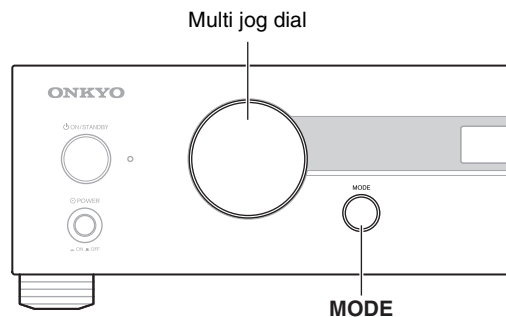
You can adjust the volume and mute the sound, by using **VOLUME ▲/▼**.

While headphones are connected, the **PRE OUT** output no sound.

Note

- Always turn down the volume before connecting your headphones.

Using MODE button



Settings with **SETUP** of the remote controller can be also operated with the preamplifier.

- 1 Press **MODE** repeatedly to select the item.

- 2 Turn **Multi jog dial** to make a selection.

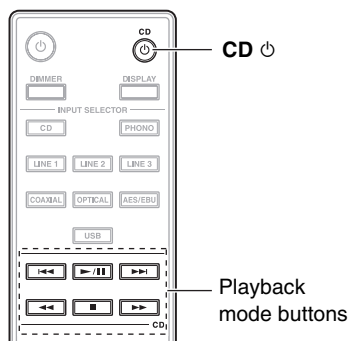
The setting has been established.

Note

- The preamplifier will end the setup if there is no operation for 8 seconds.

Playing the Onkyo Compact Disc Player

Playback



The Onkyo compact disc player connected to the preamplifier is played from its remote controller.

Note

- Make sure the remote controller is pointed at the compact disc player when using it.
- Depending on the component, you may not be able to control with the remote controller.



1 Press CD to turn on the Onkyo compact disc player.

Used to set the compact disc player to On or Standby.



2 Press .

The CD playback starts.

■ To Select Songs

Press  to select the next song or  to select the previous song.


■ To Fast-Forward or Fast-Reverse

During playback or while playback is paused, hold down  to fast-forward or  to fast-reverse.


For MP3/WMA CDs, fast-reverse only works within the MP3/WMA file that's currently playing.

■ To Pause Playback

During playback, press  to pause playback.

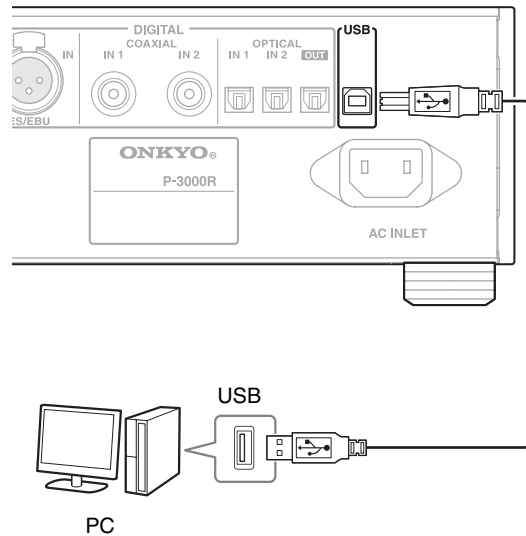
To resume playback, press  again.

■ To Stop Playback

Press  to stop playback.

Playing Music Files on the PC

Connecting the PC



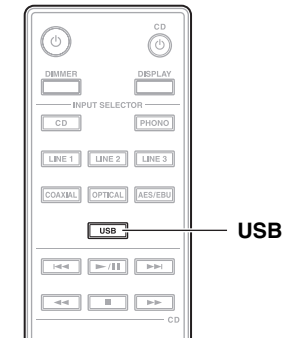
This section explains how to play music files on a PC through the preamplifier.

Installing a USB Driver

To playback the audio data stored on your PC by using the preamplifier via USB port connection, you must install the driver on your PC from the Onkyo website.

For the installation procedure, see the Onkyo Web site.

Playing Music Files on the PC



1 Press **USB** to switch the input to the USB selector.

You can also use preamplifier's Multi jog dial.

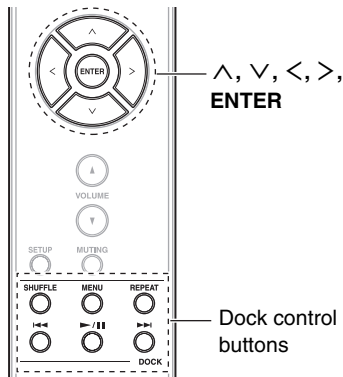
2 Play music files on the PC.

Note

- If you play incompatible file formats, then sound may not be output depending on the player software on the PC.
- If the sampling rate is greater than 96 kHz, no sound will come out of digital outputs.
- The USB selector on the display flashes if you unplug the USB cable.
- If the USB connector of your PC does not support the high-speed 2.0 standard, then audio is not output.

Using an Onkyo Dock

Playing Music Files on iPod



Connect an Onkyo Dock to the preamplifier, and play music files on iPod.

You can use the preamplifier's remote controller to control basic iPod functions and functionality depends on your iPod model and generation.

To control the Onkyo Dock with the preamplifier's remote controller, you need to switch the selector name (→ 33).

■ To Start Playback

Press ►/|| or **ENTER** to start playback.

■ To Select a music file

Use ^/∨ to select a music file.

■ To Select Songs

Press ►► to select the next song or ◀◀ to select the last song.

■ To Pause Playback

During playback, press ►/|| to pause playback.

To resume playback, press ►/|| again.

■ To Use the menu

Press **MENU** to open iPod menu or return to the previous menu.

■ To Switch the Repeat Mode

Press **REPEAT**.

The repeat playback starts.

To cancel repeat playback, press **REPEAT** repeatedly.

■ To Switch the Shuffle Mode

Press **SHUFFLE**.

The shuffle playback starts.

To cancel shuffle playback, press **SHUFFLE**.

Onkyo Dock

Dock is sold separately. Use only the Onkyo Dock with digital connections.

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

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

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

■ System Function

Auto Power On

When you start playback on an Onkyo Dock while the preamplifier is on Standby, the preamplifier will automatically turn on and select an Onkyo Dock as the input source.

Direct Change

When playback is started on an Onkyo Dock, the preamplifier automatically selects an Onkyo Dock as the input source.

Remote Control

You can use the preamplifier's remote controller to control your Onkyo Dock, pointing the remote controller at the preamplifier's remote control sensor.

Q Tip

- If you use your iPod with any other accessories, iPod playback detection may not work.
- Use the preamplifier's volume control to adjust the playback volume.
- While your iPod is inserted in an Onkyo Dock, its volume control has no effect.

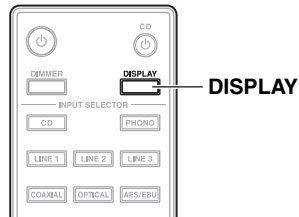
📄 Note

- When the set ASb starts running, the power of the Onkyo Dock connected via RI is automatically turned off (→ 35).

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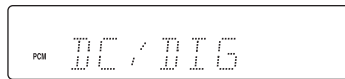
Custom Setup

Changing the Selector Name



You can switch the selector name to **DC/DIG** to run as the DOCK selector.

- 1 Select the Digital input source (COAX1, COAX2, OPT1, OPT2) to change the selector name.
- 2 Press **DISPLAY** for 3 seconds.
“DC/DIG” is displayed on the display.



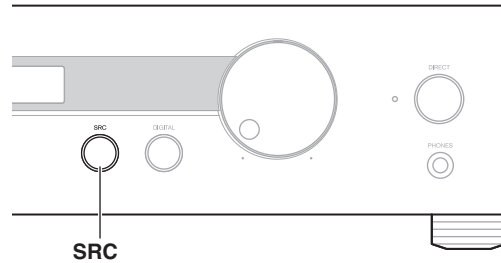
■ To cancel the assignment

Press **DISPLAY** again for 3 seconds.

📄 Note

- DOCK can be selected for the Digital input source (COAX1, COAX2, OPT1, OPT2) input selector, but not at the same time.

Selecting the Sampling Rate Conversion



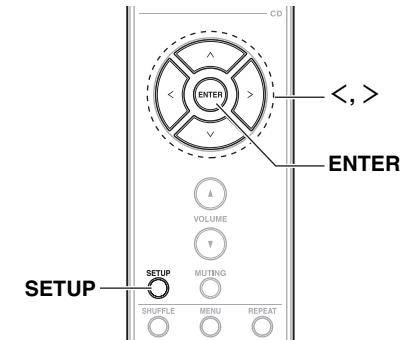
You can convert the sampling rate of the input digital signal.

- 1 Press **SRC** repeatedly on the preamplifier.
 - ▶ **BYPASS** (default):
Outputs the input sampling rate at the original sampling rate.
 - ▶ **FS x2**:
Outputs the input sampling rate by converting it to x2.
 - ▶ **FS x4**:
Outputs the input sampling rate by converting it to x4.

📄 Note

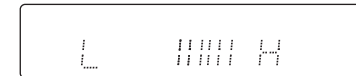
- If the sampling rate is greater than 192/176.4 kHz, the sampling rate conversion will not be applied.
- Only analog audio is output by converting sampling rates. No digital audio is reproduced.
- To confirm the current setting value, see “Changing the Display information” (→ 28).
- Digital input signals are put through and output on this preamplifier as is.
- The **USB** input does not support **FS x4** (→ 31).

Setting the Bi-amp Level



Offset the volume level based on master volume.

- 1 Press **SETUP**.
- 2 Press **</>** to select “BIAMP”.
- 3 Press **ENTER**.
- 4 Press **</>** to adjust the bi-amp level.
The high and low output balance can be adjusted.



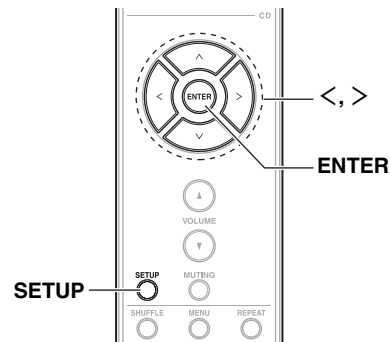
The setting has been established.

You can also use preamplifier’s **MODE** and Multi jog dial. See “Using MODE button” to perform this procedure on the preamplifier (→ 29).

📄 Note

- The preamplifier will end the setup if there is no operation for 8 seconds.

Setting the Headphone Level



You can set the volume when using headphones.

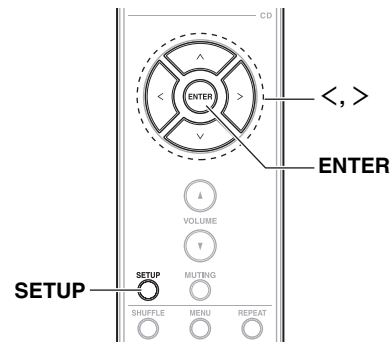
- 1 Press **SETUP**.
- 2 Press **</>** to select “**HPLEVEL**”.
- 3 Press **ENTER**.
- 4 Press **</>** to adjust the volume level.
The setting has been established.

You can also use preamplifier’s **MODE** and Multi jog dial. See “Using **MODE** button” to perform this procedure on the preamplifier (→ 29).

Note

- When using the headphones, the balance setting will not be applied.
- The preamplifier will end the setup if there is no operation for 8 seconds.

Selecting the Analog Audio Out

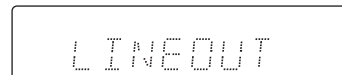


The **TAPE OUT (LINE OUT)** jack can produce audio output by connecting the cassette tape deck with the preamplifier.

- 1 Press **SETUP**.
- 2 Press **</>** to select “**LINEOUT**”.
- 3 Press **ENTER**.
- 4 Press **</>** to switch between “**LINEOUT**” and “**RECOUT**”.

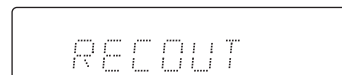
▶ **LINEOUT (LINE 3)**

Outputs any signal from the input selector.



▶ **RECOUT (TAPE)**

The selector name becomes **TAPE**. Signals input from **LINE 3 IN** will not be output from **LINE OUT**.



- 5 Press **ENTER**.
“**FINISH**” appears on the display.

You can also use preamplifier’s **MODE** and Multi jog dial.

See “Using **MODE** button” to perform this procedure on the preamplifier (→ 29).

Tip

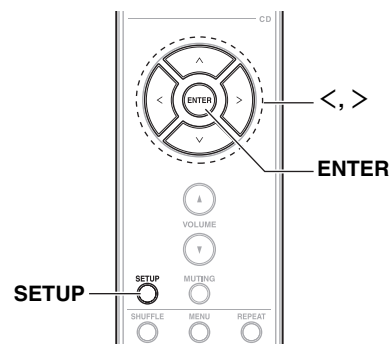
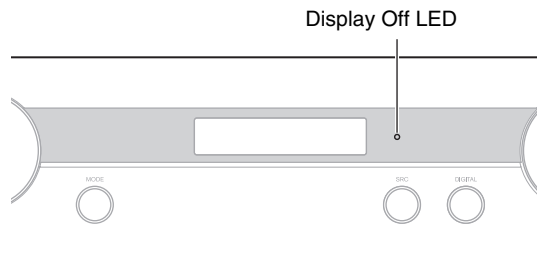
Usage example of **RECOUT**:

- Perform recording by connecting the turntable to P-3000R (**PHONO IN** jack), and the cassette tape deck to **LINE 3 (IN/OUT)** jack of P-3000R.

Note

- The preamplifier will cancel the setup if there is no operation for 8 seconds.
- When connecting a component such as a cassette tape deck, change the “**LINEOUT**” setting to “**RECOUT**” for anti-vibration purpose.

Setting ASb (Auto Standby)



When ASb is turned on, the preamplifier will automatically enter Standby mode if there is no operation for 30 minutes with no audio signal input.

- 1 Press SETUP.**
 - 2 Press </> to select "ASb".**
 - 3 Press ENTER.**
 - 4 Press </> to switch between "ASb ON" and "ASb OFF".**
 - ▶ **ASb ON:**
ASb enabled.
 - ▶ **ASb OFF:**
ASb disabled.
- Default setting: **ASb ON** (European models),
ASb OFF (North American models)

- 5 Press ENTER.**
"FINISH" appears on the display.

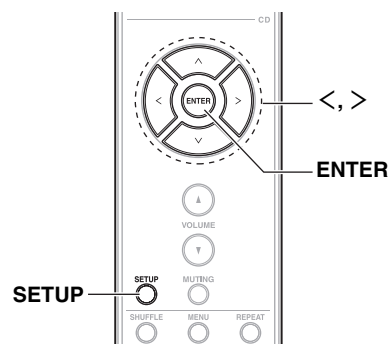
You can also use preamplifier's **MODE** and Multi jog dial. See "Using MODE button" to perform this procedure on the preamplifier (→ 29).

Once the ASb function has been activated, the preamplifier will not automatically turn on even if it receives the signal. To turn on the preamplifier, press **ON/STANDBY** manually.

Note

- When the set ASb starts running, the power of the Onkyo Dock connected via RI is automatically turned off (→ 32).
- The preamplifier will cancel the setup if there is no operation for 8 seconds.
- Before entering standby mode with the ASb function, the Display Off LED flashes 30 seconds before the ASb function starts running.

LINE 2 Output with a Fixed Volume



Switch L2 OUT to enable the volume adjustment from another component connected to the preamplifier.

- 1 Press SETUP.**
- 2 Press </> to select "L2 OUT".**
- 3 Press ENTER.**

- 4 Press </> to switch between "NORMAL" and "THROUGH".**

▶ NORMAL:

You can adjust the PRE OUT volume by the preamplifier's volume controller when the signal coming from the **LINE 2 IN** is output from the **PRE OUT**.

▶ THROUGH:

The **PRE OUT** output of the preamplifier is fixed.

- 5 Press ENTER.**
"FINISH" appears on the display.

You can also use preamplifier's **MODE** and Multi jog dial. See "Using MODE button" to perform this procedure on the preamplifier (→ 29).

Note

- The preamplifier will cancel the setup if there is no operation for 8 seconds.
- To check the connection in which this setting is enabled, see "Using Stereo Speakers as the Front Speakers for Your Surround Sound System" (→ 23).
- When plugging other components such as compact disc players into the **LINE 2** jack, change the "L2 OUT" setting to "NORMAL".

Troubleshooting

If you have any trouble using the preamplifier, look for a solution in this section.

■ How to reset to factory default?

1. After setting the volume higher than the minimum level, press **ON/STANDBY** while holding down **MODE** on the preamplifier.
2. “**CLEAR**” appears on the display, then the preamplifier will automatically go Standby. Do not operate the preamplifier while “**CLEAR**” is displayed.

Note that resetting the preamplifier will delete your custom settings.

Power

Can't turn on the Preamplifier.

- Make sure that the power cord is properly plugged into the wall outlet (→ 16).
- Unplug the power cord from the wall outlet, wait 5 seconds or more, then plug it in again.

The Preamplifier turns off unexpectedly.

- When the set ASb starts running, the preamplifier will automatically go Standby (→ 35).

Audio

There's no sound.

- Make sure the preamplifier's volume control is not set to minimum (→ 26).
- Make sure the correct input source is selected (→ 26).
- Make sure the preamplifier is not muted (→ 27).
- Make sure the speakers are connected correctly (→ 15).
- Check all connections and correct as necessary (→ 15).
- While headphones are connected, the **PRE OUT** output no sound (→ 29).
- The preamplifier does not support digital formats other than PCM. Inputting a digital format other than PCM will cause loud noise.
- If the USB connector of your PC does not support the high-speed 2.0 standard, then audio is not output.
- Make sure the **POWER** switch is set to ON.

The sound quality is not good.

- Make sure all audio connecting plugs are pushed in all the way (→ 15).
- The sound quality can be affected by strong magnetic fields, such as that from a TV. Try moving any such devices away from the preamplifier.
- If you have any devices that emit high-intensity radio waves near the preamplifier, such as a cellular phone that's being used to make a call, the preamplifier may output noise.

Headphone output is intermittent or there's no sound.

- This may be due to dirty contacts. Clean the headphones plug. See your headphones' instruction manual for cleaning information. Also, make sure that the headphones cable is not broken or damaged.

Audio performance

- Audio performance will be at its best about 10 to 30 minutes after the preamplifier has been turned on and had time to warm up.
- Using cable ties to bundle audio cables with speaker or power cables may degrade the sound quality. So don't do it.

The volume adjustment of LINE 2 does not work

- Lower the volume of the connected AV receiver, and release “**THROUGH**” of “**L2 OUT**” of the preamplifier (→ 35).

PC Playback

Can't playing the music files on the PC.

- Make sure that the USB cable is plugged in firmly (→ 15).
- Make sure that the USB driver is installed successfully (→ 31).

Can't display the sampling rate correctly.

- Make sure that there is no unsupported file formats or signals.

The USB selector on the display flashes.

- The USB cable is unplugged. To stop the blinking of the display, turn the power ON/OFF, or plug the USB cable again.

Onkyo Dock

There's no sound.

- Make sure that the Onkyo Dock is connected to the preamplifier properly.
- Make sure that no video content is being played.
- Reset the iPod.

Other

- When the set ASb starts running, the power of the Onkyo Dock connected via RI is automatically turned off (→ 35).

Can't control properly by using the remote controller.

- Make sure that the **RI** cable is connected to the preamplifier correctly.
You need to change the selector name to use **RI** function (→ 33).

External Components

No sound is heard from a connected component.

- Make sure the correct input source is selected (→ 26).
- Make sure the analog audio cable is connected correctly (→ 15).

The sound from record player is distorted.

- If your turntable (MM) has a phono built-in preamp, connect to other analog inputs such as **CD IN** or **LINE 1 IN**.
- If your turntable (MM) does not have a phono built-in preamp, connect a turntable (MM) without a built-in a phono preamp to **PHONO IN** (→ 19).
- Make sure that the ground wire is connected. Otherwise, it may produce an audible hum and noise.

A popping noise is produced when the power is set to ON or OFF.

- Turn each of the components' power on or off in the following order.

When turning the power on:

1. Source component
2. Preamplifier (P-3000R)
3. Power Amplifier (M-5000R*)

When turning the power off:

1. Power Amplifier (M-5000R*)
2. Preamplifier (P-3000R)
3. Source component

* When using 12V TRIGGER OUT as M-5000R is combined with P-3000R, the popping noise is reduced by power management.

Remote Controller

The remote controller doesn't work properly.

- Make sure the batteries have been installed with the correct polarity (+/-) (→ 10).
- Replace both batteries with new ones. (Do not mix different types of batteries or new and old batteries.)
- The remote controller is too far away from the preamplifier, or there's an obstacle between them (→ 10).
- The preamplifier's remote control sensor is being subjected to bright light (inverter-type fluorescent light or sunlight).
- The preamplifier is located behind the glass doors of a audio rack or cabinet.

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.

The preamplifier 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 should happen, unplug the power cord, wait at least 5 seconds, and then plug it again.

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

Specifications

P-3000R

THD+N (Total Harmonic Distortion+Noise)	0.005 % (20 Hz - 20 kHz, Power Rated)
Input Sensitivity and Impedance (Unbalance)	200 mV/47 kΩ (LINE) 2.7 mV/47 kΩ (PHONO MM)
Rated RCA Output Level and Impedance	1 V/330 Ω (PRE OUT)
Maximum RCA Output Level and Impedance	5.0 V/ 330 Ω (PRE OUT)
Phono Overload	80 mV (MM 1 kHz 0.5 %)
Frequency Response	5 Hz-100 kHz/+0, -3 dB (LINE)
Tone Control Characteristics	±8 dB, 50 Hz (BASS) ±8 dB, 20 kHz (TREBLE)
Signal to Noise Ratio	110 dB (Direct, IHF-A) 80 dB (PHONO, IHF-A)
Power Supply	(North American) AC 120 V, 60 Hz (European) AC 230 V, 50 Hz
Power Consumption	(North American) 26 W (European) 29 W
Standby Power Consumption	(North American) 0.2 W (European) 0.3 W
Dimensions (W × H × D)	435 W × 99 H × 333.1 D mm (17-1/8" W × 3-7/8" H × 13-1/8" D inches)
Weight	11.0 kg (24.3 lbs.)

■ Audio Inputs

Digital Inputs	Optical: 2 Coaxial: 2 2ch PCM Digital Input Sampling Rate: 32 kHz/44.1 kHz/48 kHz/88.2 kHz/96 kHz compatible (OPT) 32 kHz/44.1 kHz/48 kHz/88.2 kHz/96 kHz/ 176.4 kHz/192 kHz compatible (COAX, AES/EBU) 44.1 kHz/48 kHz/96 kHz/192 kHz compatible (USB)
Analog Stereo Inputs	PHONO, CD, LINE 1, LINE 2, TAPE (LINE 3)
Balance Inputs	AES/EBU (DIGITAL)

■ Audio Outputs

Digital Outputs	Optical: 1 Digital Output Sampling Rate: 32 kHz/44.1 kHz/48 kHz/88.2 kHz/96 kHz compatible (OPT)
Analog Stereo Outputs	TAPE (LINE)
Pre Outputs	2
Phones	1 (6.3 ø)

■ Others

12V Trigger Out	1
RI	1
PC Interface	USB

■ System Requirements

USB	1
OS	Windows® 7 (32 bits/64 bits)/Windows Vista® (32/64 bits)/Windows® XP (32/64 bits) SP3 or later
CPU	Intel® Pentium® 4 processor 1.6 GHz or higher processor
RAM	512 MB or greater
HDD	60 MB or greater free hard drive space
Supported models	PC/AT compatible machine equipped with a USB port compliant with the USB standard Rev2.0 HS (Intel® USB host controller is recommended)

Specifications and features are subject to change without notice.

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Memo

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