

SPEC



DESIGNER AUDIO

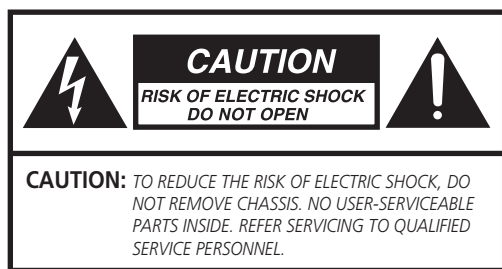
REAL-SOUND AMPLIFIER

RSA-EX1000

Operation Manual

Read through this operation manual before use so you will know how to operate your model properly. After you have finished reading the manual, put it in a safe place for future reference.

Safety Precautions



AVIS: RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR.



THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF NON-INSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCTS ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.



THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE UNIT.

WARNING

Exposure to extremely high noise levels may cause a permanent hearing loss.

Individuals vary considerably to noise induced hearing loss but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time.

European model only



If you want to dispose this product, do not mix it with general household waste. There is a separate collection system for used electric products in accordance with legislation that requires proper treatment, recovery and recycling.

Private households in the member states of the EU, in Switzerland and Norway may return their used electric products free of charge to designated collection facilities or to a retailer (if you purchase a similar new one).

For countries not mentioned above, please contact your local authorities for the correct method of disposal.

By doing so you will ensure that your disposed product undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health.

⚠ Caution (Batteries)

 Prohibited	• Do not use batteries other than those specified. Fire, injury, or staining of surroundings can result from battery rupture or fluid leakage.
 Prohibited	• Do not heat or dismantle the batteries, or place them in fire or water. Fire or injury can result from battery rupture or fluid leakage.
 Warning	• Remove the batteries when not using the device for an extended period. Fire, injury, or staining of surroundings can result from battery fluid leakage. In the event of fluid leakage, install new batteries after carefully wiping away any fluid on the battery case. In the rare case that leaked fluid comes into contact with your skin, rinse it off thoroughly with water.
 Warning	• When inserting batteries into the device, note the polarity markings (positive (+) and negative (-) orientation) and insert according to the markings. Incorrect insertion can result in battery rupture or fluid leakage that can cause fire, injury, or staining of surroundings.

Operating Environment

Operating environment temperature and humidity: +5°C to +35°C (+41°F to +95°F); less than 85%RH (cooling vents not blocked)

Do not install this unit in a poorly ventilated area, or in locations exposed to high humidity or direct sunlight (or strong artificial light)

WARNING

This equipment is not waterproof. To prevent a fire or shock hazard, do not place any container filled with liquid near this equipment (such as a vase or flower pot) or expose it to dripping, splashing, rain or moisture.

POWER-CORD CAUTION

Handle the power cord by the plug. Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause fire or give you an electrical shock.

Check the power cord once in a while.

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Chapter 1 Introduction

Check included items

- Power cord × 2
- Remote control unit × 1
- Remote control receiver × 1
- Cushion (for the remote control receiver) × 4
- AC adapter × 1
- Connection cable × 1
- Operation manual (this book)

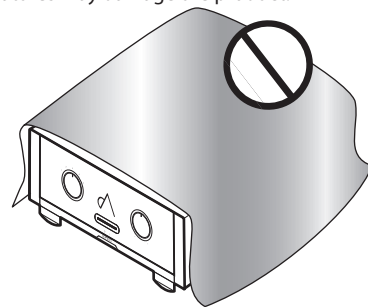
Installing this product

- Be sure to install this product on a flat, stable surface.
- Do not install this product in the following locations:
 - On top of a television (the image may warp)
 - Near a cassette deck or other magnetism emitting device (the audio may be adversely affected)
 - In a location hit by direct sunlight
 - In a moist location
 - In high or low temperature locations
 - In a location with vibration
 - In a location with much dust or tobacco smoke
 - In kitchens or other locations where fumes are emitted and oil is used

Regarding installation

Caution

- Never place items on top of this product, cover it with a sheet, or use it when its heat radiation is obstructed. Abnormally high temperatures may damage the product.



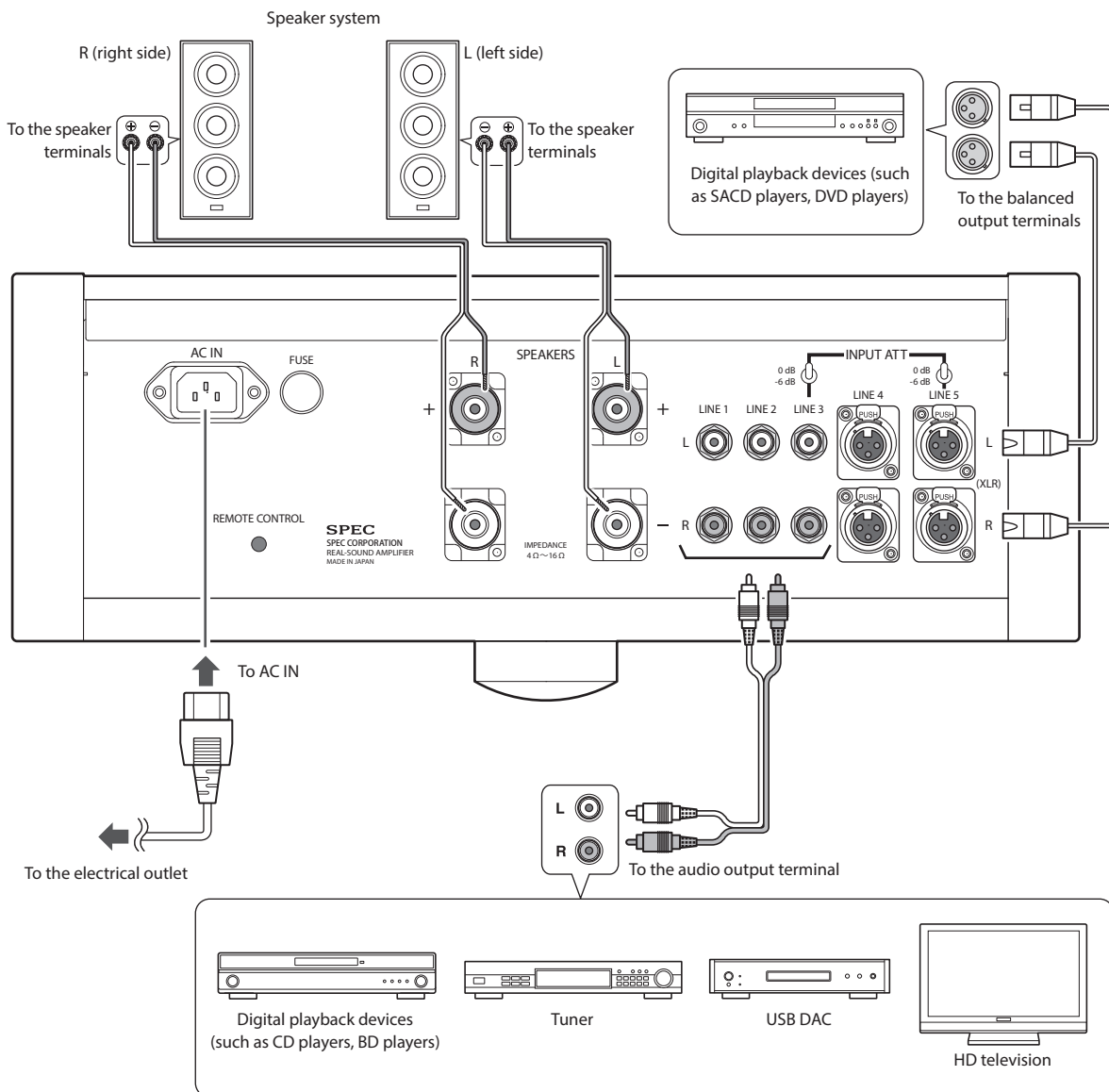
Chapter 2 Connections

Connections diagram

This product can be used as a standalone pre-main amplifier, or used as a power amplifier in conjunction with your current preamplifier (AV amplifier).

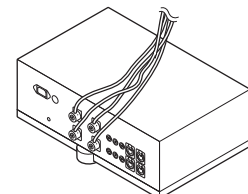
! Important

- When connecting devices or making changes, be sure to turn the POWER switch OFF and disconnect the power cord from the electrical outlet. Plug in the power cord last.
- If an extremely loud signal is input to this product, there is a danger that noise will be generated and cause damage. In such a case, lower the input signal level.

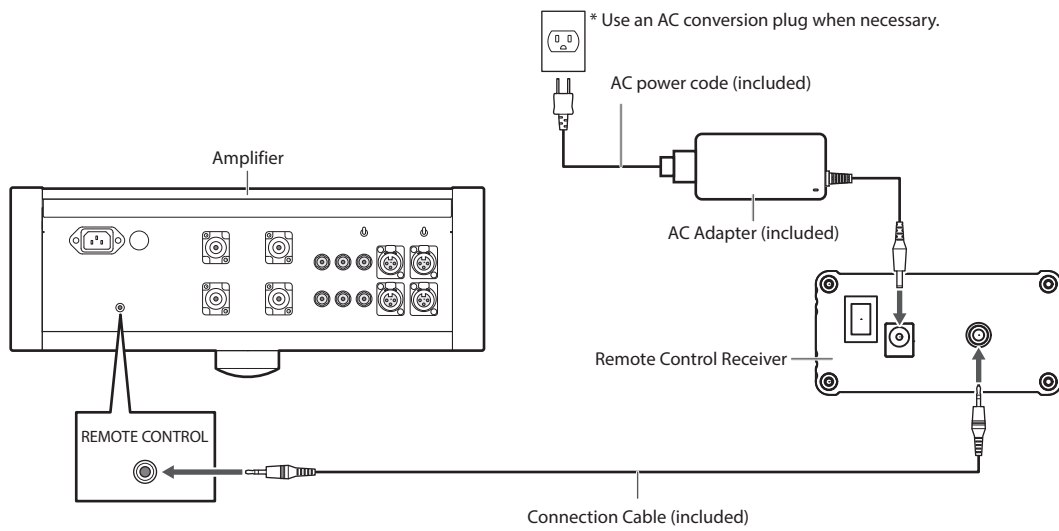


! Caution

- If the connecting speaker cords are bent and placed on top of this product as depicted on the right, the speakers may output hum noise due to the influence of the magnetic field of the electrical transformer. Do not place the connecting speaker cords in this way.



How to connect the remote control receiver

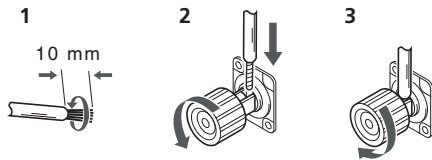


- Turn off the amplifier power before connecting.
- Insert the connection cable and AC adapter plugs all the way.
- If setting the receiver on top of the amplifier or a speaker, attach the included cushions to the side or rear face of the receiver before placing it.
- Plugging the AC adapter into an outlet causes the receiver's POWER ON/NEUTRAL light to turn on green after 3 blinks.

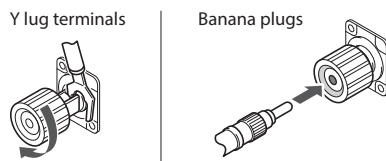
How to connect the speaker cords

The connection terminals are red for positive (+) and black for negative (-).

- 1 Twist the wire.
- 2 Loosen the speaker terminal, and insert the speaker cord.
- 3 Once the speaker cord is inserted, tighten and secure the speaker terminal.



The connection terminals on this product are also compatible with Y lug terminals and banana plugs.



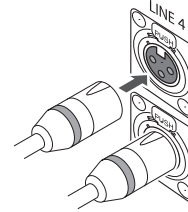
Caution

- Use speakers with nominal impedance of 4Ω to 16Ω.
- Connect accurately the + and - terminals between the speakers and this product.
- Do not allow unshielded center wire from the terminals to stick out and make contact with each other. If the center wires touch the device may break.
- Use sufficient current capacity speaker cord and be sure to make connections that are not loose and do not short. Using low current capacity connecting cords or making imperfect connections may affect playback audio and can cause overheating or short circuits.
- High voltage is output from the speaker terminals. To avoid the danger of electrical shock, be sure to unplug the power cord before making speaker connections.

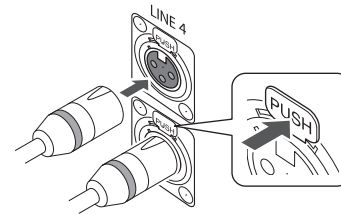
How to connect balanced (XLR) cables

Connect the left and right balanced input terminals of this product to the respective left and right balanced output terminals of the product to be connected.

Match the orientation of the XLR plug to this product's balanced input terminal, and insert until a click is heard.

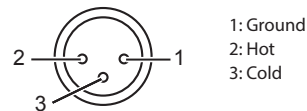


When disconnecting an XLR plug, press the latch lever (the part with "PUSH" inscribed on it) while pulling the cable. Use caution, as forceful disconnection may damage the unit.



Note

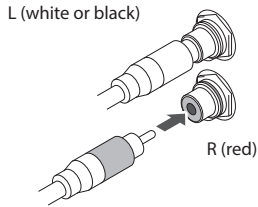
- The pin positioning of the balanced input terminal of this product is depicted below. Confirm that the product to be connected is compatible with the pin positioning of this product. For further details, consult the operation manual included with the product to be connected.



- The balanced output signal level of the source device (CD player, DA converter, etc.) may be significantly larger than the RCA unbalanced output, depending on the device. For this reason, the signal level of balanced input on the product is dropped approximately 3 dB lower than the RCA unbalanced input. Depending on the connected device, playback may occur at a volume lower than a device with an RCA unbalanced connection, but this is normal and not a malfunction.

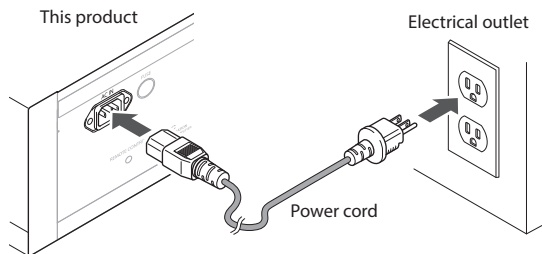
How to connect audio cords

Connect the white RCA plug (left) to the left side input terminal with the white , and the red RCA plug (right) to the right side input terminal with the red line. Press firmly to push the plugs all the way in.



How to connect the power cord

Once all connections have been made, connect the included power cord to the AC IN terminal of this product and to the residential electrical outlet. Press firmly to push the plug all the way in.



* The plug type varies according to the region.

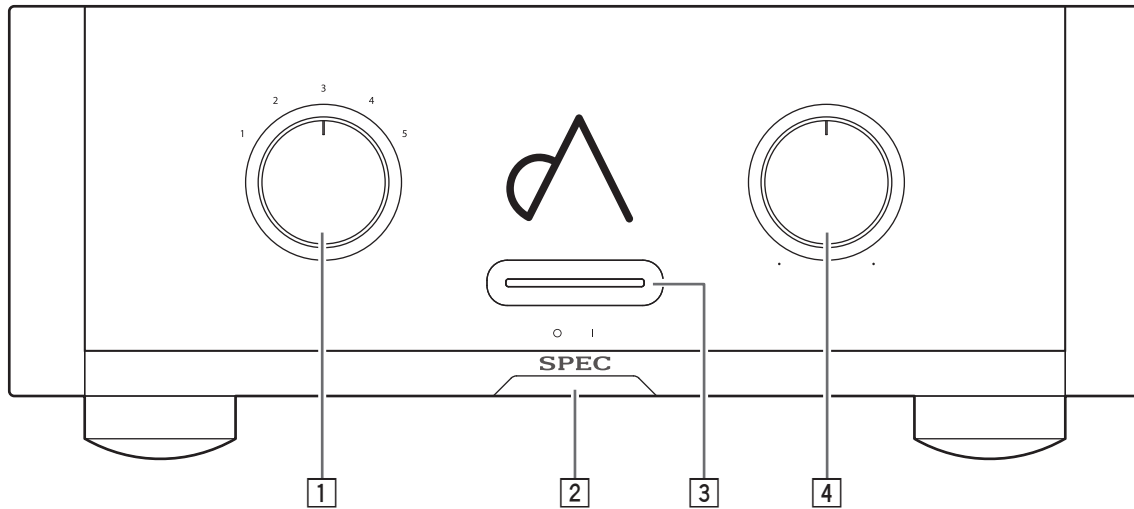
Caution

- The power cord for this product is removable, but please refrain from using power cords other than the cord included (3P plug-in socket type with electrical current capacity: 7A).
- Never insert the ground wire from the AC CONVERSION PLUG into the electrical outlet.

Note

- When not using this product for extended periods, be sure to turn the POWER switch OFF or unplug the power cord from the electrical outlet.
- Turn the POWER switch OFF before unplugging the power cord.
- The power consumption of this product varies greatly depending on the volume level of the playback audio signal. For satisfactory music playback, connect to an electrical outlet with sufficient capacity. (Connecting to a low capacity electrical outlet creates the danger that the connection will overheat.)
- If the residential power supply is cut off due to a power outage, the state of this product will be as follows when power is restored.
 - If the POWER switch is ON when power is restored
 - The product returns to its state prior to power restoration.
 - If the POWER switch is OFF when power is restored
 - The product is in the normal power OFF state.

Front panel



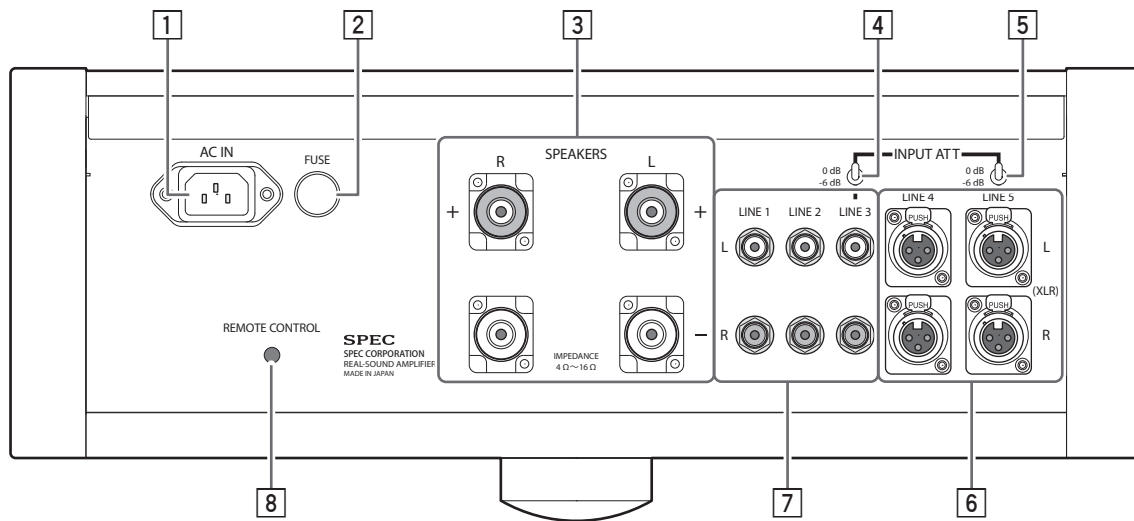
- ❶ LINE SELECTOR (input switching knob)
Selects the playback device (LINE 1-LINE 5).
- ❷ POWER switch
Turns power ON and OFF.
- ❸ ON indicator
Lit warm yellow when the product power is turned on.

- ❹ VOLUME (level adjustment knob)
Adjusts the volume level.

Note

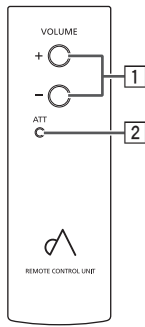
- This product contains a high quality electrical volume IC that is high precision and ultra low noise, with the result that audio quality is not affected depending on the VOLUME (level adjustment knob) position.

Rear panel



- | | |
|---|---|
| <p>① AC IN terminal
Connect the included power cord. (→ pages 4, 7)</p> <p>② Fuse
The fuse may break if something abnormal occurs to the product. Contact us if the fuse breaks. (→ page 15)</p> <p>③ Speaker terminal (L (left) channel)
Speaker terminal (R (right) channel) (→ pages 4, 6)</p> <p>④ INPUT3 ATT switch
Reduces the inputs of LINE3 to 6 dB.</p> | <p>⑤ INPUT5 ATT switch
Reduces the inputs of LINE5 to 6 dB.</p> <p>⑥ Balanced input terminal (LINE4, LINE5)
XLR type input terminal (female). (→ pages 4, 6)</p> <p>⑦ Audio input terminals (LINE 1 - LINE 3)
RCA type input terminal. (→ pages 4, 7)</p> <p>⑧ REMOTE CONTROL terminal
Connect the remote control. (→ page 5)</p> |
|---|---|

Remote control unit



1 VOLUME +/- buttons

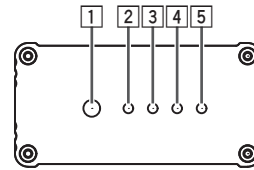
Adjusts the volume level.
 * Pressing these buttons will not turn the amplifier's volume adjustment knob.

2 ATT (attenuate) button

The ATT button enables instant volume reduction.
 * Not muting

Remote Control Receiver

(Front face)



1 REMOTE SENSOR (signal receiving area)

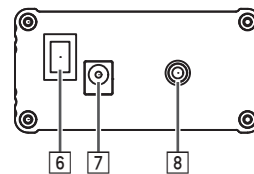
2 ATT light (red)

3 - light (warm yellow)

4 POWER ON/NEUTRAL light (green)

5 + light (warm yellow)

(Rear face)



6 Power switch

7 DC IN terminal

8 REMOTE CONTROL terminal

■ Changing the Remote Control Unit Batteries

Batteries are pre-installed in the remote control unit at the time of shipment, but all batteries should be replaced with new ones when you notice a decrease in the operating range. Remove the four screws on the rear face and replace the batteries with two new AAA batteries as pictured on the right.

Caution

When the battery cover is removed, part of the circuit is exposed. Take care not to touch the circuit area when changing the batteries.

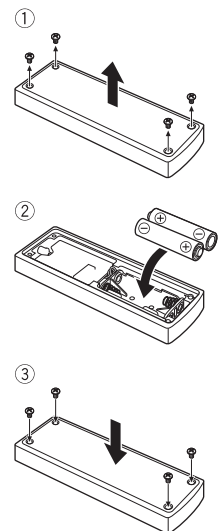
Battery Precautions

Incorrect use of batteries may result in such hazards as leakage and bursting. Observe the following precautions.

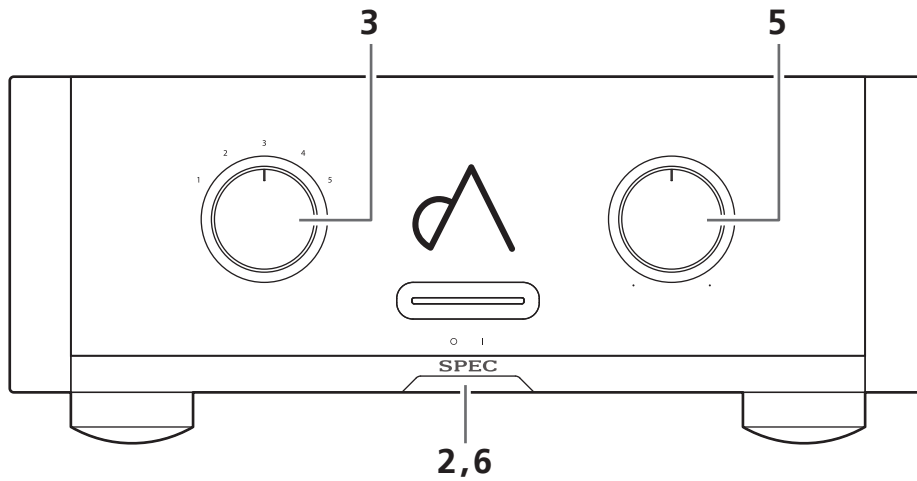
- Insert the plus and minus sides of the batteries properly.
- Do not use new and old batteries together.
- Batteries with the same shape may have different voltages. Do not use different batteries together.
- When disposing of used batteries, comply with governmental regulations or environmental public institution's rules that apply in your country or area.

Warning

Do not use or leave batteries in high temperature locations such as under strong direct sunlight, in a hot car heated by the sun, or near a stove. Battery leakage, overheating, bursting, or igniting may result otherwise. Battery function and life may also be decreased.

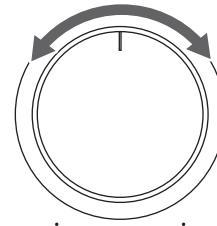
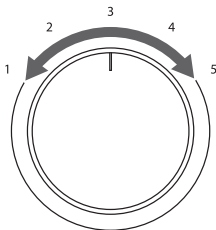


Playback steps



- 1** Turn on the power of the playback device.
- 2** Check that the volume level of this product is turned down, and turn on the POWER switch under the front panel.
- 3** Select the input to this product.
- 4** Operate the playback device and begin playback.
- 5** Rotate the VOLUME (level adjustment knob) left and right to set the audio level.

Rotate the LINE SELECTOR to select the terminal (LINE 1 - LINE 5) to which the playback device is connected.

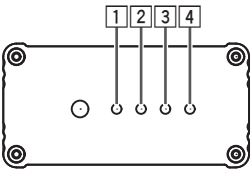


- 6** When playback is finished, lower the audio volume level and turn off the POWER switch.

Be sure to lower the audio volume level.

How to operate with the remote control

The VOLUME + button enables to increase the volume in 9 levels, the – button enables to decrease the volume in 9 levels (± 10 dB per level), and the ATT button instant volume reduction.

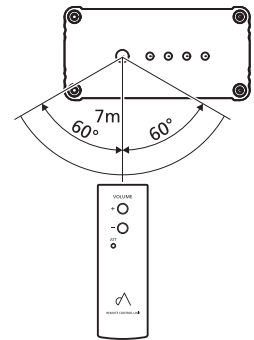
	①	The ATT light is lit red when the attenuate function is activated. Pressing the ATT button or +/- buttons while the ATT light is lit cancels the attenuate function and turns the light off.
	②	Blinks warm yellow each time the – button is pressed. Remains lit warm yellow when the volume level is lower than the setting on the amplifier. Blinks twice if the button is pressed when the operating range lower limit is reached.
	③	When only this light is lit and the +/- lights are not lit, it signifies that the volume is at the level setting on the amplifier unit.
	④	Blinks warm yellow each time the + button is pressed. Remains lit warm yellow when the volume level is higher than the setting on the amplifier. Blinks twice if the button is pressed when the operating range upper limit is reached.

- To return the volume level to the setting on the amplifier's volume adjustment knob, press the +/- buttons until only the NEUTRAL light is lit.

■ Remote Control Unit Operating Range

Point at the REMOTE SENSOR (signal receiving area) when operating the remote control unit.

- Obstacles between the remote control unit and REMOTE SENSOR or a bad angle with the REMOTE SENSOR can cause inability to operate.
- Powerful light such as direct sunlight or fluorescent lighting striking the REMOTE SENSOR can cause malfunction.
- Using the remote control receiver near infrared producing devices or other remote controlled equipment that uses infrared can cause malfunction.



Troubleshooting

If you think this product may be broken, check the following troubleshooting items. Some minor operational errors can make the product appear to be broken.

Potential causes other than this product should also be considered. Check the other devices being used as well as all simultaneously operated electrical devices. If the following instructions do not help even on multiple inspections, contact us. (→ page 15)

Issue	Cause/Treatment	Reference
The power does not turn on.	<ul style="list-style-type: none"> Is the power plug disconnected from the electrical outlet? → Correctly insert the power plug into the outlet. 	p. 7
	<ul style="list-style-type: none"> Is the power plug disconnected from the AC IN terminal? → Correctly insert the power plug. 	p. 7
	<ul style="list-style-type: none"> If the power will not turn on even with correctly connecting the power plug, the fuse may be broken. → Contact us for consultation. 	p. 15
There is no sound.	<ul style="list-style-type: none"> Is the connecting cord disconnected from the terminal, or connected incorrectly? → Correctly connect the cord. 	p. 4, 7
	<ul style="list-style-type: none"> Is the speaker cord disconnected from the terminal, or connected incorrectly? → Correctly connect the speaker cord. 	p. 4, 6
	<ul style="list-style-type: none"> Is the terminal or connecting cord pin plug dirty? → Wipe clean the terminal or plug. 	-
	<ul style="list-style-type: none"> Is the input (LINE 1 - LINE 5) of this product incorrectly set for the playback device? → Correctly select the input. 	p. 4
There is no sound from one speaker.	<ul style="list-style-type: none"> Is the connecting cord or speaker cord for one side disconnected? → Correctly connect the cord. 	p. 4, 6, 7
Sound comes out of the speakers even after turning off this product.	<ul style="list-style-type: none"> Immediately after turning off the power, sound may come out of the speakers, but this is not a sign of breakage. → When playback is finished, first turn the volume of this product all the way down (or when using this product as a power amplifier, turn the volume of the preamplifier all the way down) and then shut off the power of this product. 	-
The POWER ON/NEUTRAL light does not turn on.	<ul style="list-style-type: none"> Are the AC adapter and connection cable plugs inserted all the way? → Make sure to connect. 	p. 5
Pressing the VOLUME +/- buttons does not change the volume level.	<ul style="list-style-type: none"> Is the included connection cable connected to the amplifier? → Make sure to connect. 	p. 5
	<ul style="list-style-type: none"> Are the connection cable plugs inserted all the way? → Make sure that the connection cable between this product and the amplifier is firmly inserted. 	p. 5
	<ul style="list-style-type: none"> If the light blinks warm yellow twice when the button is pressed, the upper (or lower) limit of the operating range has been reached and the volume level cannot be increased (or decreased) further. 	p. 10
	<ul style="list-style-type: none"> Is the battery running low? → Please replace with new batteries. 	p. 10
The sound is not completely muted even with the attenuate function ON.	<ul style="list-style-type: none"> Because the attenuate function lowers the volume between -20 dB and -30 dB, it does not completely mute the audio. Lower the volume using the amplifier's volume adjustment knob. 	p. 8

Care and maintenance

For daily maintenance, use a polishing cloth to lightly wipe the front panel of this product. If it is very dirty, use a soft cloth moistened with neutral detergent watered down to 1/5-1/6 concentration and wipe off the dirt, then wipe dry with a dry cloth. If alcohol, thinner, petroleum ether or insecticide adhere to the front panel it may be damaged, so use caution. Whenever using pre-moistened wipe, be sure to completely read the warning instructions that come with the wipe.

This product uses natural wood for its base chassis and insulator. Do not place it in direct sunlight or near a heater. The front panel may become discolored, and the product may be warped due to the natural wood contracting.

Specifications

■ Amplifier

Maximum output200 W × 2 (4 Ω)
Line input terminalsBalanced (XLR) input: 2 RCA unbalanced inputs: 3
Speaker terminal1

■ Power supply, other

Power voltage.....110 V, 120 V, 220 V, 230 V, 240 V AC, 50 Hz/60 Hz
Electrical consumptionWith no signal: 15 W, during maximum output: 500 W (8 Ω, 100 Hz)
External dimensions.....450 mm (width) × 180 mm (height) × 524 mm (depth)
Weight.....28.0 kg

■ Remote Control

- Remote Control Unit
 - External dimensions42 mm (width) × 130 mm (height) × 16 mm (depth)
 - Power SupplyAAA batteries × 2
 - Weight151 g (including batteries)
- Remote Control Receiver
 - External dimensions81 mm (width) × 41 mm (height) × 133 mm (depth)
 - Weight283 g

■ Included items

Power cord.....2
Remote control unit1
Remote control receiver1
Cushion.....4
AC adapter1
Connection cable1
Operation manual (this book)1

* Due to improvements the above specifications and external appearance may be changed without notice.

Warranty and after sales service

● About Warranty

Make sure that the name of your distributor and the date of purchase are written in the warranty. Read it carefully, and then keep it in a secure location. The warranty is valid for one year from the date of purchase.

● Malfunctions

If the product malfunctions in the course of normal use (use in accordance with the manual and safety precautions) during the warranty period, then we will repair the product free of charge. When you bring your product to the distributor for servicing, be sure to bring the warranty with you. See the guarantees in your warranty for details. We will repair malfunctions occurring after the warranty period has expired for a fee, in accordance with our servicing regulations.

Please note that we cannot provide any warranty or bear any liability for damage to any equipment that is connected to the unit resulting from incorrect use.

Contact Information

SPEC CORPORATION

TEL: +81-3-3660-0303

FAX: +81-3-3660-0333

E-mail: info-ex@spec-corp.co.jp

URL : spec-corp.co.jp

Terms of Warranty

1. If this product malfunctions during use in accordance with the manual, and during the warranty period, then please bring the product and this warranty to the store where you purchased it. It will be repaired free of charge.
2. If you cannot ask the store where you purchased it for repairs (e.g. if you have moved or the product was a gift), please consult with SPEC CORPORATION.
3. A fee will be charged for repairs in the following circumstances, even if it is during the warranty period.
 - (A) The product malfunctioned or was damaged due to user error or unauthorized repair or modification
 - (B) The product malfunctioned or was damaged due to dropping, etc. after purchase
 - (C) The product malfunctioned or was damaged due to fire, flooding, lightning and other weather phenomena, pollution, salt damage, or the like
 - (D) The product malfunctioned or was damaged due to other than normal use, such as long hours of continuous commercial use
 - (E) The main unit has been disassembled
 - (F) The text of the warranty has been changed or overwritten
 - (G) The malfunction was caused by another company's product
4. This warranty cannot be re-issued. Store it in a safe place, and do not lose it.

WARRANTY

RSA-EX1000 Real Stereo Amplifier

Name	Telephone
Address	
Date of Purchase	Distributor Name & Telephone
Warranty Period (Main Unit)	
Spec Corporation Date of Purchase	

SPEC

SPEC CORPORATION

4th FL.NIHOMBASHI NAKAYA BUILDING,12-12 NIHOMBASHIKOBUNA-CHO,
CHUO-KU,TOKYO 103-0024,JAPAN

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