

ESOTERIC

RZ-1

Integrated Music System

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CAUTION

RISK OF ELECTRIC SHOCK

DO NOT OPEN



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



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



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

IMPORTANT SAFETY INSTRUCTIONS

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

China RoHS (电子信息产品污染控制管理办法)

- The information in the following table is only applicable to products for sale in the People's Republic of China.
- The products sold in the European area are manufactured in accordance with the European RoHS Directive.
- Les informations contenues dans le tableau suivant sont applicables uniquement aux produits en vente en République populaire de Chine.
- Les produits vendus en Europe sont fabriqués conformément avec la directive européenne RoHS.
- La información de la siguiente tabla se aplica únicamente a los productos de venta en la República Popular China.
- Los productos vendidos en el espacio europeo se fabrican en conformidad con la directiva europea RoHS.

产品有毒有害物质或元素的名称及含量

机种: RZ-1		有毒有害物质或元素					
品名	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr (VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)	
1 CHASSIS部份	×	○	○	○	○	○	
2 PANEL部份	○	○	○	○	○	○	
3 FOOT部份	○	○	○	○	○	○	
4 螺丝部份	○	○	○	○	○	○	
5 PCB Assy部份	×	○	○	○	○	○	
6 线材部份	○	○	○	○	○	○	
7 SEAL部份	○	○	○	○	○	○	
8 AC CORD部份	×	○	○	○	○	○	
9 附属品部份	○	○	○	○	○	○	
10 包装部份	○	○	○	○	○	○	

○: 表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。
 ×: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。
 (针对现在代替技术困难的电子部品及合金中的铅)

- Do not expose this apparatus to drips or splashes.
- Do not place any objects filled with liquids, such as vases, on the apparatus.
- Do not install this apparatus in a confined space such as a book case or similar unit.
- The apparatus draws nominal non-operating power from the AC outlet with its POWER or STANDBY/ON switch not in the ON position.
- The apparatus should be located close enough to the AC outlet so that you can easily grasp the power cord plug at any time.
- The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.
- Products with Class I construction are equipped with a power supply cord that has a 3-prong grounding plug. The cord of such a product must be plugged into an AC outlet that has a protective grounding connection.
- If the product uses batteries (including a battery pack or installed batteries), they should not be exposed to sunshine, fire or excessive heat.
- CAUTION for products that use replaceable lithium batteries: there is danger of explosion if a battery is replaced with an incorrect type of battery. Replace only with the same or equivalent type.
- Caution should be taken when using earphones or headphones with the product because excessive sound pressure (volume) from earphones or headphones can cause hearing loss.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

- DO NOT REMOVE THE EXTERNAL CASES OR CABINETS TO EXPOSE THE ELECTRONICS. NO USER SERVICEABLE PARTS ARE WITHIN.
- IF YOU ARE EXPERIENCING PROBLEMS WITH THIS PRODUCT, CONTACT ESOTERIC FOR A SERVICE REFERRAL. DO NOT USE THE PRODUCT UNTIL IT HAS BEEN REPAIRED.
- USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

Declaration of Conformity

Model Number: RZ-1
 Trade Name: ESOTERIC
 Responsible party: TEAC AMERICA, INC.
 Address: 7733 Telegraph Road, Montebello, California, U.S. A.
 Telephone number: 1-323-726-0303

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

“Super Audio CD” is a registered trademark.
 “DSD” is a registered trademark.

Windows XP and Windows Vista are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

For U.S.A.

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:

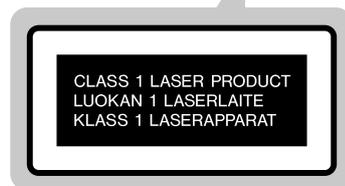
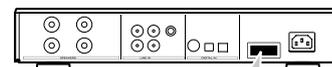
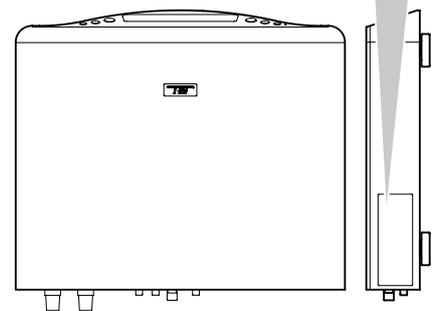
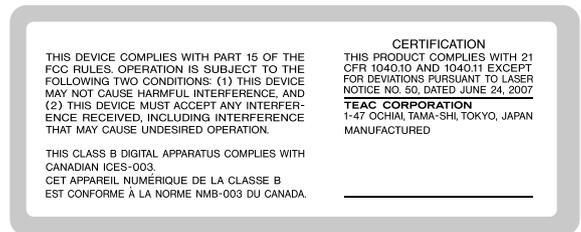
- Reorient or relocate the equipment and/or the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Changes or modifications to this equipment not expressly approved by ESOTERIC COMPANY for compliance will void the user’s warranty.

This product has been designed and manufactured according to FDA regulations “title 21, CFR, chapter 1, subchapter J, based on the Radiation Control for Health and Safety Act of 1968”, and is classified as class 1 laser product. There is not hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings. The label required in this regulation is as follows:

For U.S.A. and Canada



For Europe/Asia/others

Laser:

Type : OWY8075
 Manufacturer : PIONEER CORPORATION
 Laser output : Less than 1 mW on the objective lens
 Wavelength : 770 to 810 nm (CD)
 640 to 665 nm (Super Audio CD)

Contents

Thank you for choosing ESOTERIC. Read this manual carefully to get the best performance from this unit.

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Read this before attempting any operations.

Placement of the unit

- Choose the installation location of your unit carefully. Avoid placing it in direct sunlight or close to a source of heat. Also avoid locations subject to vibrations and excessive dust, heat, cold or moisture.
- As the unit may become warm during operation, always leave sufficient space around the unit for ventilation. Make sure there is at least 20 cm (8") of space above and at least 5 cm (2") of space on each side of the unit. Do not place anything on top of the unit.
- Do not place the unit on an amplifier or receiver or any other device that generates heat.
- When the unit is turned on, switching on the TV may cause lines to appear on the TV screen, depending on the condition of the electric waves of the TV broadcast. This is not malfunction in the unit or the TV. If you see such lines, keep this unit well away from the TV set.

⚠ CAUTION

● Do not move the unit during playback.

During playback, the disc rotates at high speed. Do not lift or move the unit during playback. Doing so may damage the disc or the unit.

- The voltage supplied to the unit should match the voltage as printed on the rear panel. If you are in any doubt regarding this matter, consult an electrician.
- Do not open the cabinet as this might result in damage to the circuitry or electrical shock. If a foreign object should get into the unit, contact your dealer or service company.
- When removing the power plug from the wall outlet, always pull directly on the plug, never yank on the cord.



- Always remove the disc before relocating or moving this unit. Moving the unit with a disc inside it could cause malfunction.

What's in the box

Confirm the supplied standard accessories.

Remote control unit (RC-1251) x 1



Batteries (AA) x 2



Power cord x 1

Felt pads x 4



- To protect the supporting furniture surface, you may stick the felt pads to the bottom of the metal feet.

Owner's manual (this document) x 1

- Keep this manual in a safe place for future reference.

Warranty card x 1

Maintenance

If the surface of the unit gets dirty, wipe it with a soft cloth or use diluted mild liquid soap. Allow the surface of the unit to dry completely before using.

⚠ For safety, disconnect the power cord from the socket before cleaning.

- Never spray liquid directly on this unit.
- Do not use thinner, benzene or alcohol as they could damage the surface of the unit.
- Avoid allowing rubber or plastic materials to touch this product for long periods of time, because they could damage the cabinet.

Beware of condensation

When the unit is moved from a cold to a warm place, or used after a sudden temperature change, there is a danger of condensation; vapor in the air could condense on the internal mechanism, making correct operation impossible. To prevent this, or if this occurs, leave the unit turned on for one or two hours. Then the unit will stabilize at the temperature of its surroundings.

Discs that can be played on this unit

**CDs that bear the "COMPACT disc DIGITAL AUDIO" logo.
(12 cm/8 cm)**



Super Audio CDs that bear the "Super Audio CD" logo.



- The multi-channel area of a Super Audio CD cannot be played with this unit.

CD-R and CD-RW discs that have been correctly recorded in the audio CD format (CD-DA) and finalized.

This unit can play these types of discs without an adapter. It cannot play any other type of disc.

⚠ Playback of any other type of disc could cause loud noise and damage to speakers as well as harm hearing. Never play back any other type of disc.

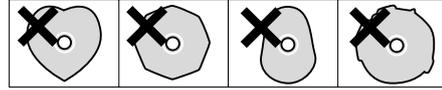
- The logo should be on the disc label or the CD jacket.
- DVDs, Video CDs, DVD-ROMs, CD-ROMs and similar types of discs cannot be played on this unit.
- Copy-protected discs and other discs that do not conform to the CD standard might not play correctly in this player. If you use such discs in this unit, ESOTERIC company and its subsidiaries will not be responsible for any consequences or guarantee the quality of reproduction. If you experience problems with such non-standard discs, you should contact their issuers.
- Discs created by a CD recorder must be finalized before use with this unit. If you are uncertain about the handling of a CD-R or CD-RW disc, please contact the seller of the disc directly.

Depending on disc quality and recording conditions, playback of some discs might not be possible. Please see the manual for the device that you used to create the disc.

CAUTION

- Do not play any disc that is warped, deformed or damaged. Playing such discs could cause irreparable harm to the playing mechanisms.
- Printable CD-R and CD-RW discs are not recommended because their label sides could be sticky and damage the unit.
- Do not stick papers or protective sheets on the discs and do not use any protective coating sprays.

- Never use a stabilizer. Using commercially available CD stabilizers with this unit will damage the mechanisms and cause them to malfunction.
- Do not use irregularly-shaped discs (octagonal, heart-shaped, business card size, etc.). CDs with these shapes could damage the unit.



Handling precautions

- **Always insert the disc into the disc slot with the label side up.** Only one side of a Compact Disc can be played or used for recording.
- To remove a disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.



How to remove the disc



How to hold the disc

Storage precautions

- Discs should be returned to their cases after use to avoid dust and scratches that could cause the laser pickup to "skip."
- Do not expose discs to direct sunlight or high-temperature and humidity for extended periods. Long exposure to high temperatures will warp discs.
- CD-R and CD-RW discs are more sensitive to the effects of heat and ultraviolet rays than ordinary CDs. It is important that they are not stored in locations where they will be exposed to direct sunlight. They should also be kept away from sources of heat, such as radiators and heat-generating electrical devices.

Maintenance

- If a disc becomes dirty, wipe its surface radially from the center hole outward towards the outer edge with a soft, dry cloth.



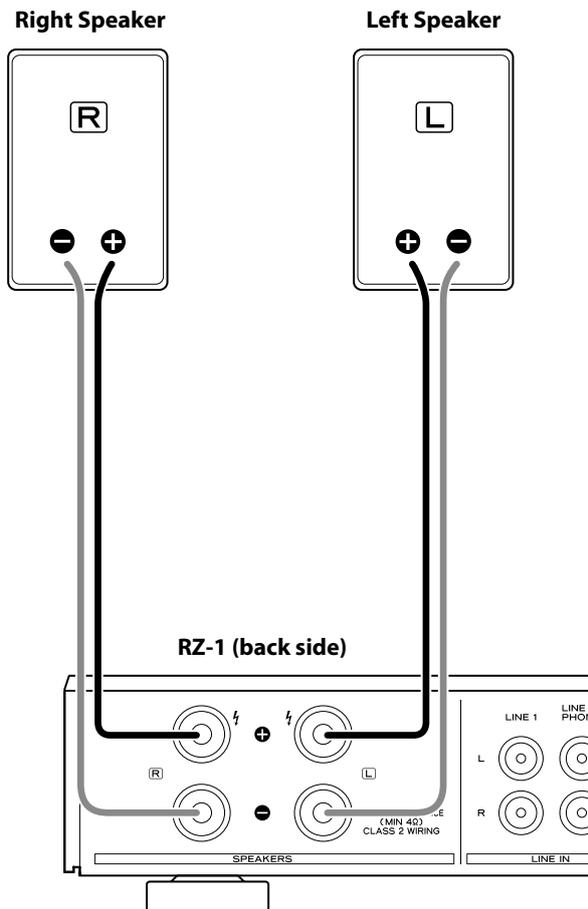
- Never clean discs using chemicals such as record sprays, antistatic sprays and fluids, benzene and thinner. Such chemicals will do irreparable damage to the disc's plastic surface.

If you are in any doubt as to the care and handling of a disc, read the precautions supplied with the disc or contact the disc manufacturer.

Speaker Connections

⚠ CAUTION

- After all connections are complete, connect the power cord's plug to the AC wall socket.
- The metal portions of the two separate wires should not touch or an electrical short can occur. Shorted wires can create a fire hazard or induce a failure in your equipment.



ESOTERIC uses **ESOTERIC MEXCEL stress-free 7N** cable as a reference. The following items are available in the ESOTERIC **MEXCEL** cable series.

- | | |
|-------------------|-------------------|
| RCA audio cable | BNC digital cable |
| XLR audio cable | Speaker cable |
| RCA digital cable | Power cable |
| XLR digital cable | |

Speaker cables

Connect the speakers with commercially-available speaker cables.

- Use the shortest speaker cables possible. As cables become longer, electrical resistance increases and damping characteristics are reduced. Moreover, inductance and capacitance also increase, degrading the quality of high frequency sounds.
- Ideally, left and right speaker cables should be the same length.

How to connect

The red speaker terminals are ⊕ (positive) and the black speaker terminals are ⊖ (negative).

Generally, the ⊕ side of the speaker cable is marked to make it distinguishable from the ⊖ side of the cable.

Make sure to connect:

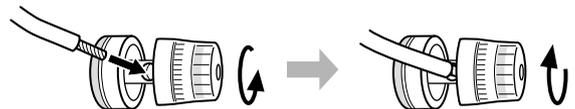
- Marked ⊕ side → Red ⊕ terminal
- Unmarked ⊖ side → Black ⊖ terminal

Turn the terminal cap counter-clockwise to loosen, clockwise to tighten.

- Be sure to connect each plug securely. To prevent hum and noise, do not bundle the connection cords.

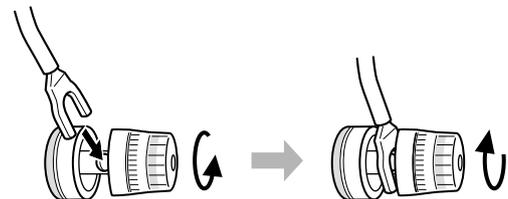
Using speaker cables with bare wire

Turn the terminal cap counter-clockwise to loosen it. Insert the wire core through the hole in the terminal and tighten the terminal cap.



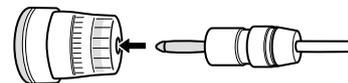
Using speaker cables with spades

Turn the terminal cap counter-clockwise to loosen it. Insert the spade around the terminal and tighten the terminal cap.



Using speaker cables with banana plugs

With the terminal cap tightened, insert the plug into the jack on the end of the cap.



- Read the instructions supplied with the banana plug.

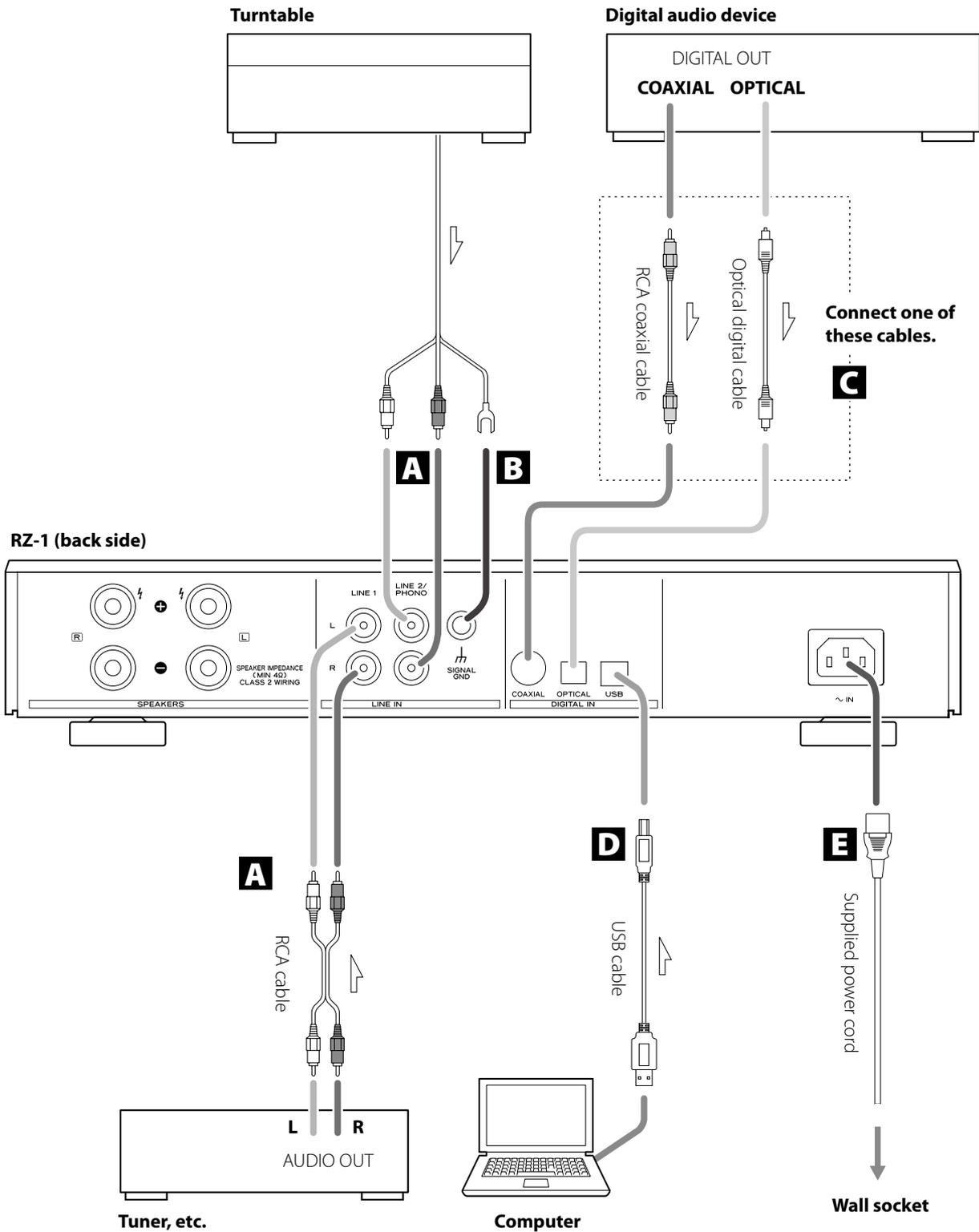
⚠ For European customers

In accordance with European safety regulations, it is not possible to connect banana plugs into the speaker terminals on European models. The holes into which banana plugs are inserted have been covered with black caps. Connect the speakers using spades or bare wires. If the black caps become separated from the terminals, return them to their original position.

Connections

⚠ After all connections are complete, connect the power cord's plug to the AC wall socket.

- Read the instructions of each component you intend to use with this unit.
- Be sure to connect each plug securely. To prevent hum and noise, do not bundle the connection cords.



A Analog audio input terminals [LINE IN]

Used for the input of analog 2-channel audio signals from a cassette tape deck, tuner, etc.

Connect the component with commercially-available RCA cables.

Make sure to connect:

White plug → White jack (L: left channel)

Red plug → Red jack (R: right channel)

LINE2/PHONO terminal

In addition to a cassette tape deck or tuner, you can also connect a turntable with MM (Moving Magnet) type cartridge to this terminal.

In setup mode, select whether you are connecting a record player or another device such as a cassette deck (page 22 "LINE2/PHONO terminal").

When connecting a phono amplifier such as an ESOTERIC E-03, set the unit to "LINE."

- Connect the ground lead of the turntable to the SIGNAL GND terminal of the RZ-1.
- When using a MC (Moving Coil) type cartridge, an external step-up transformer or similar equipment is necessary.

B SIGNAL GND

Connection of this terminal with the ground terminal of another device may improve sound quality.

- This is not an electrical safety ground (earth).
- When a turntable is connected to the LINE2/PHONO terminal, make sure to connect the ground lead of the turntable to this terminal.

C Digital audio input terminals [DIGITAL IN]

Inputs PCM format digital audio.

Connect any one of these terminals to the digital output terminal of a digital device using a commercially-available cable.

COAXIAL: Use RCA (pin) digital audio cable

OPTICAL: Use optical digital audio cable (TOS)

- This unit's optical terminal has a shutter. When connecting a cable, insert it firmly in the same orientation as the terminal. If you force the cable into the terminal in the wrong orientation, the terminal could be deformed and the shutter might not be able to be closed again.
- If the equipment that you are connecting has an on/off setting for its digital output, set it to on.
- When connecting a DVD player, a digital broadcast tuner or similar device, set the digital output of the connected device to convert the output to PCM.
- Compatible sampling frequency is 32 kHz to 192 kHz.

D USB input terminal

Inputs digital audio from a personal computer.

Connect to the USB port (USB 1.1 or higher) of a personal computer using a commercially available USB cable (page 19).

- The USB port of this unit is type B.
- Compatible sampling frequency is 32 kHz to 96 kHz.

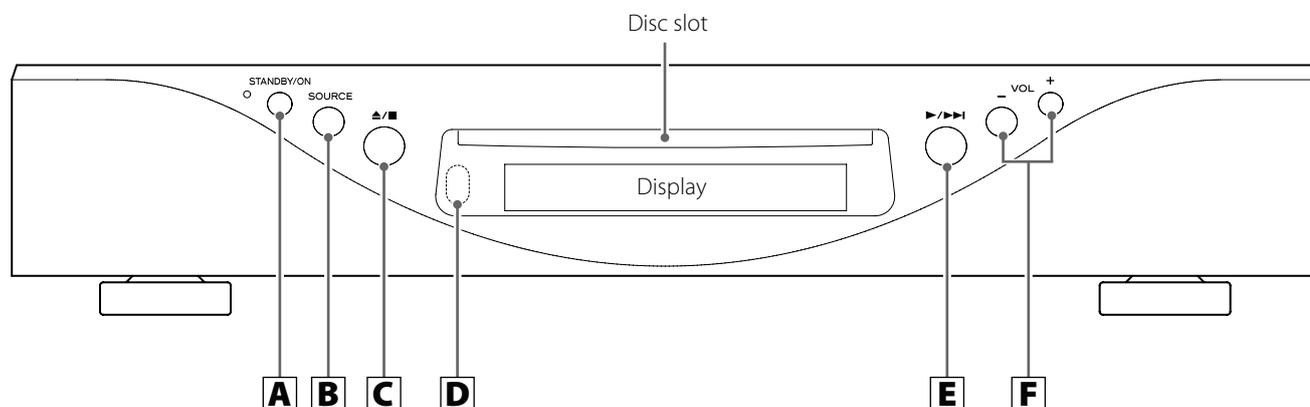
E Power cord

Connect the power cord to the power cord receptacle.

After all other connections are complete, connect the power cord's plug to the AC wall socket.

- ⚠ **Do not use any power cords other than the one included with this unit or a power cord specified by ESOTERIC.** Use of other power cords may result in fire or electric shock.

Identifying the Parts (Main Unit)



A STANDBY/ON

Use this button to turn the unit on and to standby mode (off). The blue indicator lights when the unit is turned on.

Press and hold this button for more than 2 seconds to enter the sleep timer setting mode (page 16).

B SOURCE

Use this button to select a source. Select the terminal that is connected to the device that you want to play (page 14).

Press and hold this button for more than 2 seconds to enter the setup mode. In setup mode, use this button to select an item (page 22).

C Eject/Stop (▲/■)

In CD/SACD mode, press this button to stop playback. When playback is stopped, press this button again to eject the disc.

When in other than CD/SACD mode, press this button to eject the disc.

D Remote sensor

When operating the remote control unit, point it towards here.

E Play/Skip (▶/▶▶)

When a disc is loaded, press this button to start playback. The unit turns to CD/SACD mode automatically.

In CD/SACD mode, press this button to skip forward during playback.

In all modes, Press and hold this button for more than 2 seconds to mute the sound (page 15).

F VOL (+/-)

Use these buttons to adjust the volume.

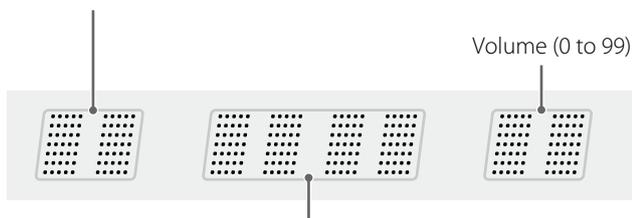
In setup mode, use these buttons to change the setting of each item (page 22).

Identifying the Parts (Display)

CD/SACD mode

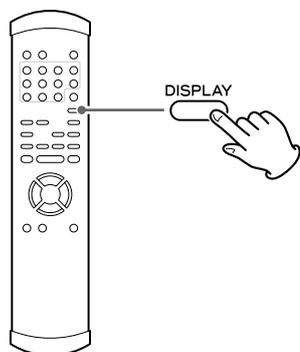
During playback

Currently playing track number
(This is not displayed when remaining time of disc is displayed.)

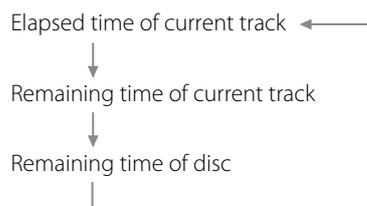


Elapsed time of current track (min./sec.)
or remaining time of current track (min./sec.)

Changing the display



During playback, each time the DISPLAY button is pressed, the display changes as follows:



When playback is stopped

The display shows the type of disc currently loaded (CD or SACD).
"NO DISC" is displayed when no disc is loaded.

COAX/OPT/USB mode

Current input
(COAX, OPT or USB)



Volume (0 to 99)

Sampling frequency
(32k, 44k, 48k, 88k, 96k, 176k or 192k)

- If no input device is connected, or this unit is unable to lock with that device, instead of the sampling frequency being shown, the name of the input source will blink. Check the connections.

LINE1/LINE2 (PHONO) mode



Current input
(LINE1, LINE2 or PHONO)

Volume (0 to 99)

- When you use LINE2 as PHONO input, select "PHONO" in "L-2" setting (page 22 "LINE2/PHONO terminal").

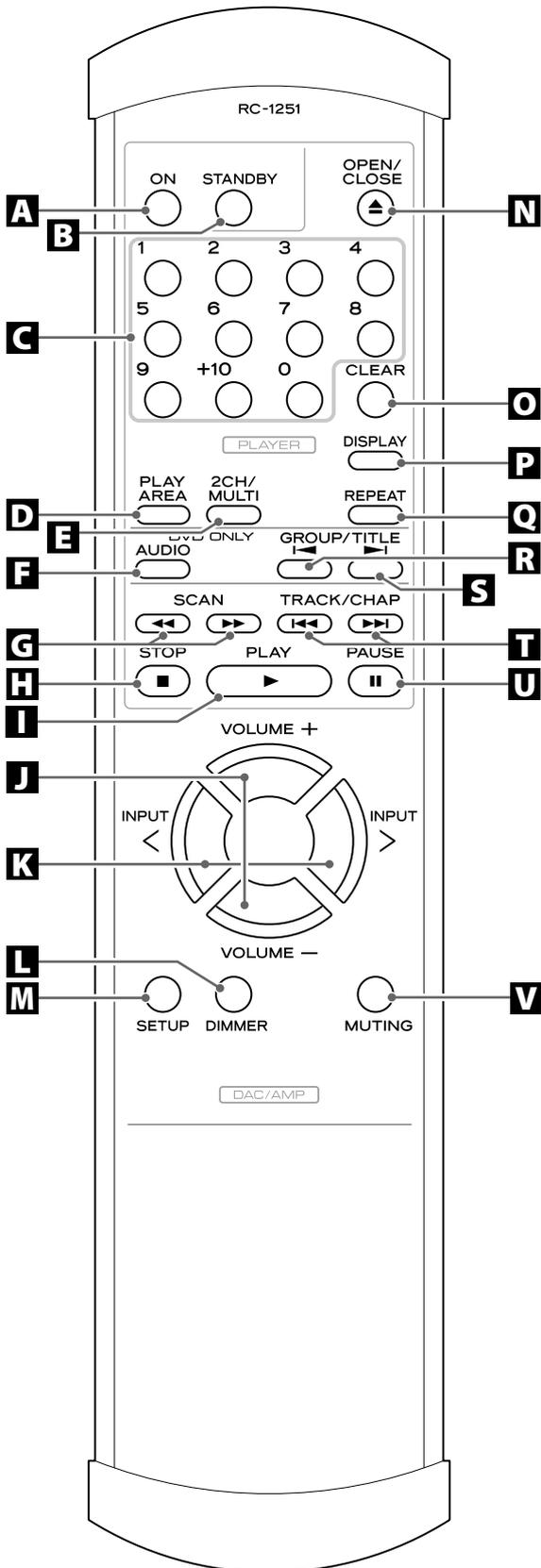
Setup mode

Setup indicator



Setup item or setting

Identifying the Parts (Remote Control Unit)



A ON

Press this button to turn the unit on. The blue indicator lights when the unit is turned on.

B STANDBY

Press this button to turn the unit to standby mode (off).

C Number buttons

In CD/SACD mode, use these buttons to enter the track number for playback.

D PLAY AREA

In CD/SACD mode, when playback is stopped, press this button to change the play area of the SACD disc (page 18).

E 2CH/MULTI

This button will not work on the RZ-1. Please ignore this button.

F AUDIO

In CD/SACD mode, press this button to change the shuffle mode (page 18).

G SCAN (◀▶)

In CD/SACD mode, use these buttons to scan forward and backward during playback.

H STOP (■)

In CD/SACD mode, press this button to stop playback.

I PLAY (▶)

When a disc is loaded, press this button to start playback. The unit turns to CD/SACD mode automatically.

J VOLUME +/-

Use these buttons to adjust the volume.

K INPUT (</>)

Use these buttons to select a source. Select the input terminal that is connected to the device that you want to play (page 14).

In setup mode, use these buttons to change the setting of each item (page 22).

L DIMMER

Use this button to select one of four brightness levels for the display and indicator lamps (page 15).

Remote Control Unit (1)

M SETUP

Press this button to enter the setup mode. In setup mode, use this button to select an item (page 22).

N Eject (OPEN/CLOSE ▲)

Press this button to eject the disc.

O CLEAR

If you accidentally press the "+10" key, press this to cancel the input value (page 18).

In setup mode, use this button to exit the setup mode (page 22).

P DISPLAY

In CD/SACD mode, during playback, press this button to change the display (page 11).

Q REPEAT

In CD/SACD mode, press this button to change the repeat mode (page 18).

R GROUP/TITLE (I◀)

This button does not work on the RZ-1. Please ignore this button.

S GROUP/TITLE (▶I)

Press this button to enter the sleep timer setting mode (page 16).

T Skip (TRACK/CHAP I◀◀/▶▶I)

In CD/SACD mode, use these buttons to skip forward and backward during playback or pausing.

U PAUSE (II)

In CD/SACD mode, press this button to pause playback.

V MUTING

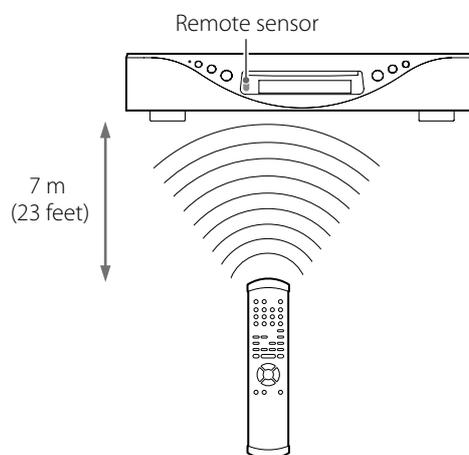
Press this button to mute the sound (page 15).

Note:

To simplify explanations, instructions in this manual might refer to the main unit or remote control only. In such cases, the same controls on the remote control and main unit will operate similarly.

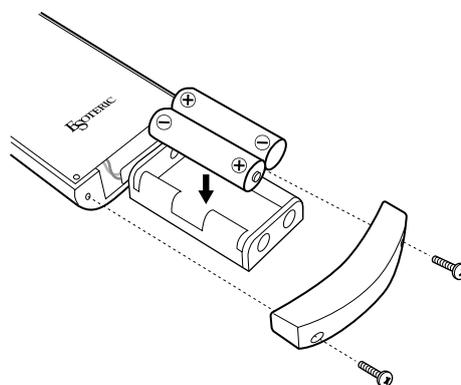
The included remote control allows this unit to be operated from a distance.

Point the remote control unit at the main unit's remote sensor within 7 m (23 feet) of the main unit.



- Depending on the angle, reception might be difficult. Use the remote control from directly in front of the unit as much as possible.
- Even if the remote control unit is used within its effective range, operation by remote control might be impossible if there are any obstacles between the unit and the remote control.
- If direct sunlight or strong artificial illumination shines on the remote sensor for the remote control, it might not function.
- If the remote control unit is operated near other devices that generate infrared rays, or if other remote controls that use infrared rays are operated near the unit, this unit might operate incorrectly. The other devices might also operate incorrectly.

Battery Installation



Use a Philips driver to remove the cover from the bottom of the remote control, and pull out the battery case. Insert two AA batteries in the correct ⊕/⊖ orientations, reinsert the case and close the cover.

Remote Control Unit (2)

Battery Replacement

If the distance required between the remote control unit and main unit decreases, the batteries are exhausted. In this case replace the batteries with new ones.

For more information about collection of batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

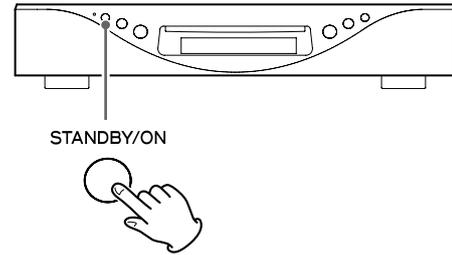
⚠ Precautions concerning batteries

Misuse of batteries could cause them to rupture or leak leading to fire, injury or the staining of nearby things. Please read and observe the following precautions carefully.

- Be sure to insert the batteries with correct positive (⊕) and negative (⊖) orientations.
- Use batteries of the same type. Never use different types of batteries together.
- Both rechargeable and non-rechargeable batteries can be used. Refer to the precautions on their labels.
- If the remote control will not be used for a long time (more than a month), remove the batteries to prevent them from leaking.
- If the batteries leak, wipe away the leakage inside the battery compartment and replace the batteries with new ones.
- Do not use batteries of types other than those specified. Do not mix new batteries with old ones or use different types of batteries together.
- Do not heat or disassemble batteries. Never throw batteries into fire or water.
- Do not carry or store batteries with other metallic objects. The batteries could short circuit, leak or explode.
- Never recharge a battery unless it is confirmed to be a rechargeable type.

Basic Operation

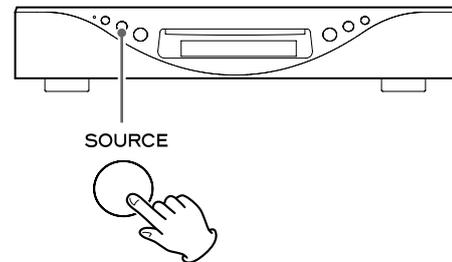
1 Press the **STANDBY/ON** button to turn the unit on.



The blue indicator lights.

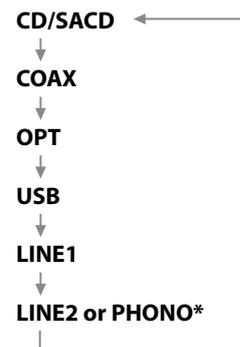
- Turn on the power of the connected devices before you turn on the RZ-1.

2 Press the **SOURCE** button repeatedly to select an input source.



The selected source is shown on the display.

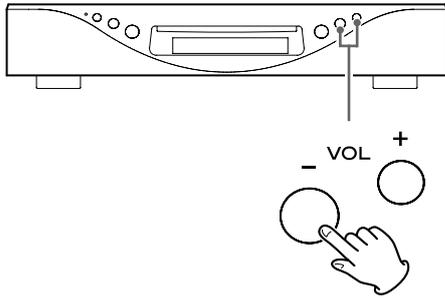
Each time the SOURCE button is pressed, the source changes as follows:



*When you use LINE2 as PHONO input, select "PHONO" in "L-2" setting (page 22 "LINE2/PHONO terminal").

- You can also use the INPUT (< / >) buttons on the remote control unit to select a source. If you press the < button, the source changes in the opposite order of that shown above.
- When set to COAX, OPT or USB, if no input device is connected to the selected terminal, or this unit is unable to lock with that device, instead of the sampling frequency being shown, the name of the input source will blink. Check the connections.

- 3 Play the source, and adjust the volume using the VOL (+/-) buttons.



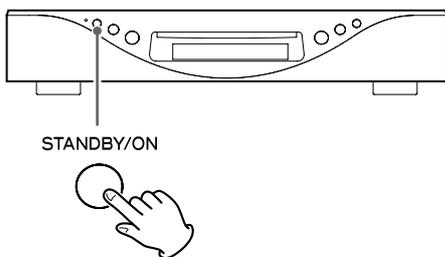
⚠ Sudden loud noises can cause hearing damage and other issues. Before starting playback, minimize the volume, and adjust it to a suitable level after playback begins.

Turning the unit standby (off)

To prevent sudden noise from the speakers, make sure to turn the unit off in the following way.

- 1 Stop the playback of the connected component.

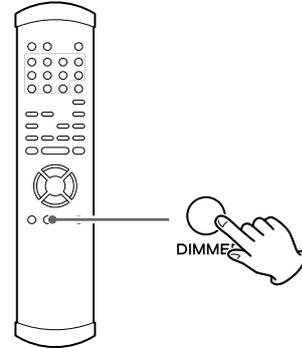
- 2 Press the STANDBY/ON button to turn the RZ-1 standby (off).



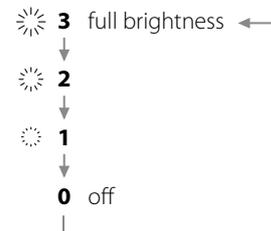
These operations are available in every mode.

Dimmer

You can change the brightness of the display and indicator lamps.



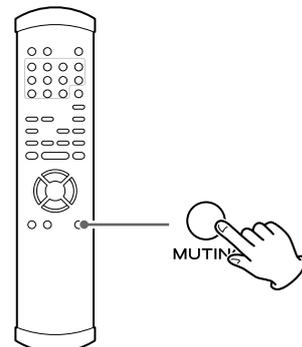
Each time the DIMMER button is pressed, the brightness changes as follows:



- In off mode, when you press a button, the illuminations turn temporarily on for 3 seconds.
- In setup mode, the illuminations turn on with full brightness.

Muting

You can mute the sound temporarily.



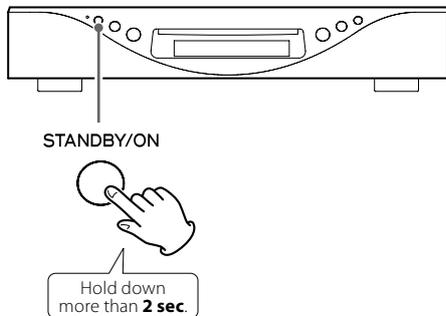
To mute the sound, press the MUTING button. Press the MUTING button again to restore the sound.

- You can also mute the sound by pressing and holding the Play/Skip button (▶/▶▶) for more than 2 seconds.
- While muting is engaged, "MUTING" and the name of the selected terminal alternately blink on the display.
- You can also restore the sound by pressing the VOL buttons (+/-).

Sleep Timer

You can set the sleep timer so that the unit turns itself off after a specified amount of time. This operation is available in every mode.

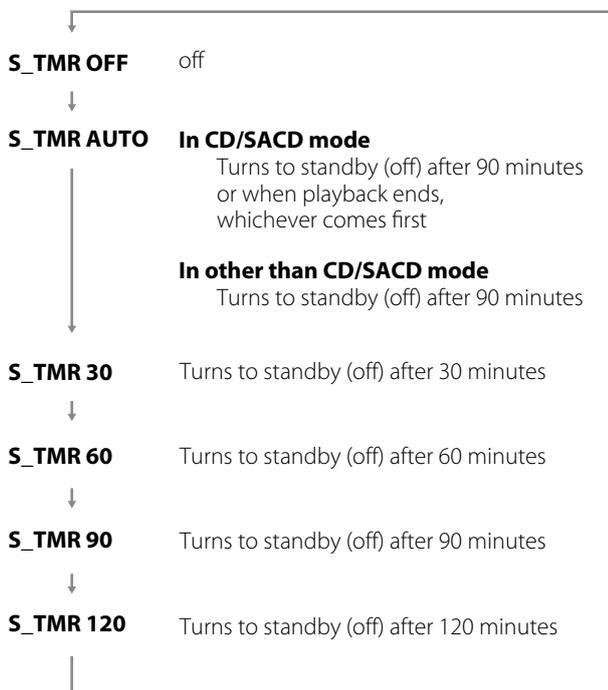
- 1 Press and hold the **STANDBY/ON** button for more than 2 seconds to enter the sleep timer setting mode.



- You can also use the **GROUP/TITLE** button (▶|) on the remote control unit. (This button does not need to be pushed for more than 2 seconds. It will start sleep timer mode immediately.)

- 2 Press the **STANDBY/ON** button repeatedly to select a timer's off setting.

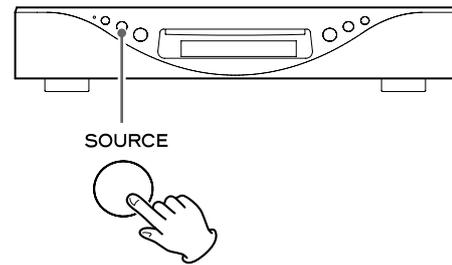
Each press of the **STANDBY/ON** button cycles through timer options as follows:



- You can also use the **GROUP/TITLE** button (▶|) on the remote control unit.
- When the sleep timer is active, "XXm" ("XX" is the amount of time and "m" represents minutes) and the ordinary indicators appear alternately on the display. The display and indicators become darker while in this mode.

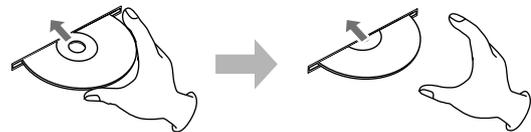
CD/SACD Playback (1)

- 1 Press the **SOURCE** button repeatedly to select "CD/SACD".



- When a disc is loaded while a source other than CD/SACD mode is selected, the unit turns automatically to CD/SACD mode.

- 2 Insert a disc with the printed label face up.



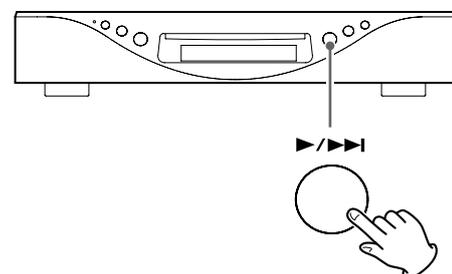
The disc is automatically loaded into the player. Let go of the disc when it starts loading.

- Do not push the disc forcibly.
- Do not insert more than one disc.
- Do not attach adhesive label, etc. to either side of discs.
- Do not use irregular-shaped discs.

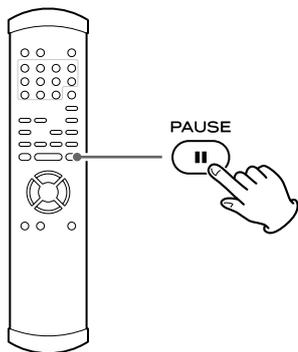
Doing so may cause malfunction or damage the unit.

- It takes a few seconds for the unit to load the disc.
- If a disc cannot be played by this unit, it is ejected. (See page 6 for information about compatible discs.)

- 3 Press the **Play/Skip** button (▶/▶▶|) to start playback.

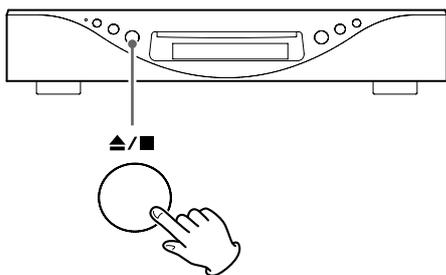


Suspending playback temporarily (Pause mode)



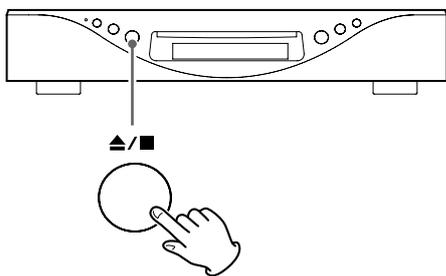
Press the PAUSE button (||) during playback to stop playback at the current position. To resume playback, press the PAUSE button (||) again.

Stopping playback



Press the Stop button (▲/■) to stop playback.

Ejecting a disc



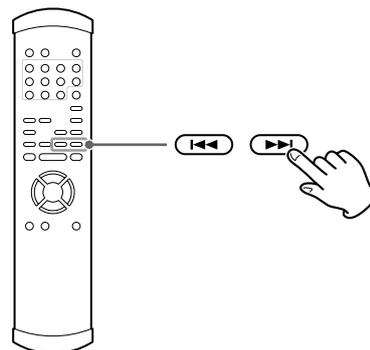
In CD/SACD mode, when playback is stopped, press the Eject button (▲/■) to eject a disc. You can also eject the disc when in modes other than CD/SACD mode.

Precaution when reinserting an 8-cm CD after ejecting it.

Remove the disc completely before reinserting it into this unit. If you push it back in without removing it first, the disc could become stuck in the unit.

If a disc cannot be ejected, put the unit in standby (turn the power off) and then turn it on again, or press the Eject button (▲/■) for 2 seconds or more.

Skipping to an earlier or later track



During playback

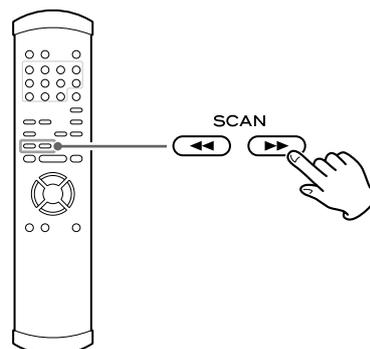
Press a Skip button (I◀◀ or ▶▶I) repeatedly until the desired track is selected. The selected track will be played from the beginning.

- If the I◀◀ button is pressed once during playback, the track being played will be played again from the beginning. To return to the beginning of the previous track, press the I◀◀ button repeatedly. However, if it is pressed within one second from the start of the track, playback returns to the start of the previous track.

When playback is paused

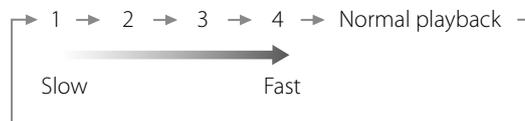
Press a Skip button (I◀◀ or ▶▶I) repeatedly to select the track you want to hear. Then, press the PLAY button (▶) to start playback of the selected track.

Searching for a part of a track



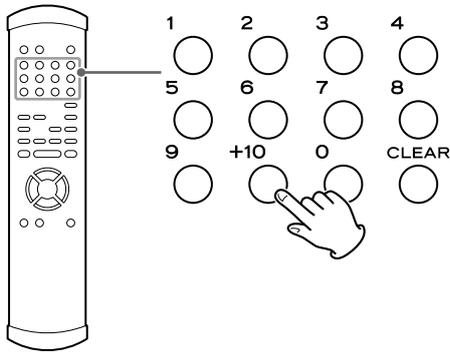
During playback, hold down a SCAN button (◀◀◀ or ▶▶▶) to scan backwards and forwards. Press the PLAY button (▶) to restart playback at the desired location.

Repeated presses of the SCAN buttons (◀◀◀ or ▶▶▶) changes the scanning speeds.



Direct playback

When stopped or playing back, you can use the Number buttons to directly select a track.



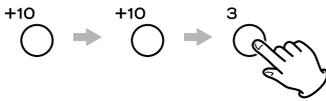
Playback starts from the selected track.

Examples:

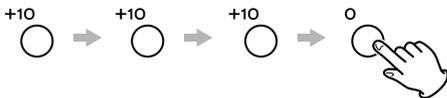
To playback track 5



To playback track 23



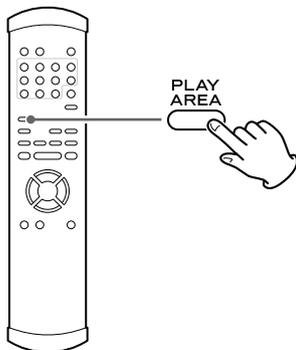
To playback track 30



- If you accidentally press the "+10" key, press the CLEAR button to cancel the input value.

Selecting the playback area (SACD)

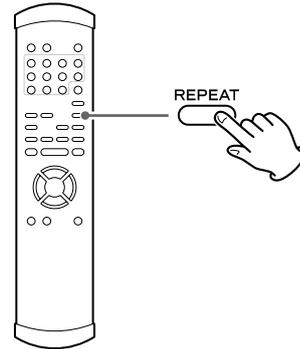
You can change the playback area of Super Audio CD that contains Super Audio CD and regular CD data.



When playback is stopped, press the PLAY AREA button to change the playback area.

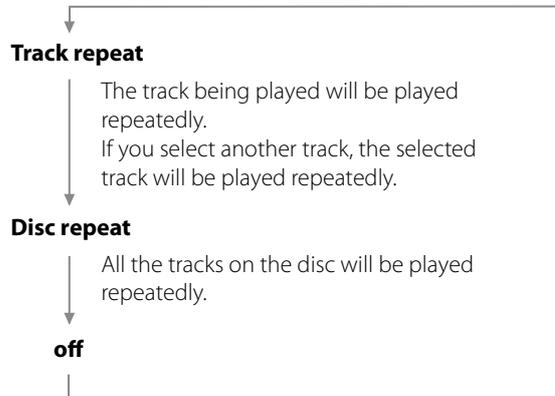
- This unit can only play the 2 channel stereo layer of an SACD. The multi-channel area of a Super Audio CD, if the SACD contains that feature, cannot be played with this unit.

Repeat playback



During playback, press the REPEAT button to change the repeat mode.

Each time the REPEAT button is pressed, the repeat setting changes as follows:



Track repeat

The track being played will be played repeatedly.
If you select another track, the selected track will be played repeatedly.

Disc repeat

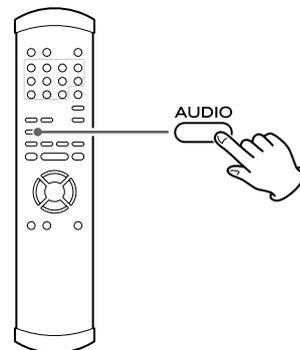
All the tracks on the disc will be played repeatedly.

off

- When the playback stops the repeat mode is canceled.

Shuffle playback

The tracks on a disc can be played in random order.



Pressing the AUDIO button turns the shuffle mode on and off.

During shuffle playback, "⌘" appears on the right of time display.

Connecting to a Personal Computer and Playing Back a Music File (1)

By connecting the USB input terminal of this unit to a personal computer using a USB cable, music files on the computer can be played with this unit.

The USB-connected personal computer must be running with Microsoft Windows XP or Windows Vista. This unit might not function properly when used with a computer running a different OS.

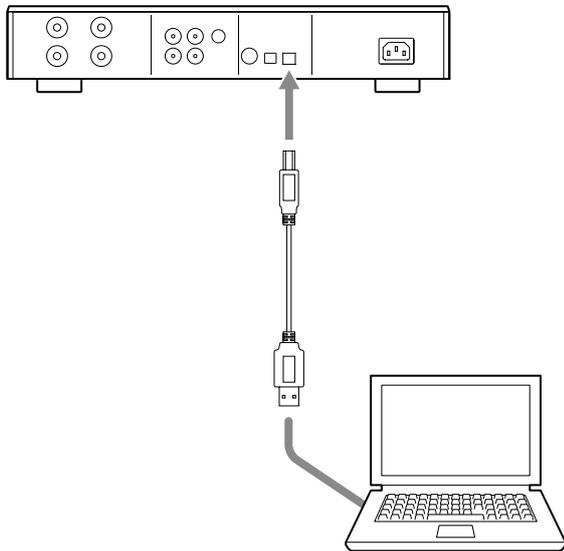
In addition, you must use a computer that is compatible with USB 1.1 or higher.

- Depending on the hardware and software configuration of the personal computer, operation may not be possible, even with the above-mentioned operating systems.
- It is not possible to control this unit from the personal computer or control the personal computer from this unit.
- It is not possible to send music files from this unit to a personal computer via USB.

1 Turn on the personal computer.

Confirm that the operating system starts normally.

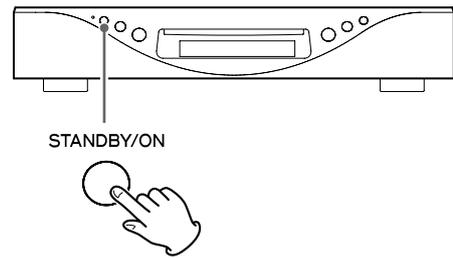
2 Connect the RZ-1 to a personal computer using a USB cable.



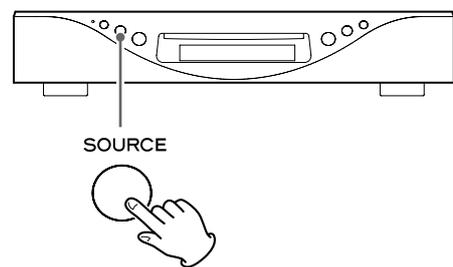
The cable must match the connection terminal of this unit (USB-B type).

- The first time the personal computer and this unit are connected, the personal computer automatically detects the USB connection with this unit and installs the drivers. Follow the instructions of the operating system to complete installation of the drivers.
- The computer will recognize a USB connection with this unit even if it is in standby mode (power off).

3 Press the STANDBY/ON button to turn the RZ-1 on.



4 Press the SOURCE button repeatedly to select "USB".



5 Start playback of a music file on a personal computer.

For the best sound quality, set the volume to maximum on the personal computer and then adjust the volume on this unit. Set the volume of this unit to the minimum, start playback and then gradually increase the volume.

- When music files are being played through a USB connection, do not perform the following operations. They will cause problems with the operations of the personal computer. Exit the music playback software on your PC before performing these operations.
 - Removing the USB cable
 - Turning the RZ-1 standby mode (off)
 - Changing the input source of RZ-1
- If a computer is not connected properly, instead of the sampling frequency being shown, "USB" will blink. Check the connections.
- When playing a music file via a USB connection, the sounds of personal computer operations are also played. To prevent these sounds from being played, change the sound settings on the personal computer.

Continue to the next page →

Connecting to a Personal Computer and Playing Back a Music File (2)

- Depending on the operation environment of the personal computer, it may not be possible to maintain the USB data transfer speed. This may interrupt playback or cause noise. Furthermore, starting other applications during music file playback may interrupt playback or cause noise.
- If the music playback software is started before this unit and the personal computer are connected, or the input of this unit is set to "USB" before connection, music files may not be played back correctly. If this occurs, restart the music playback software or the personal computer.
- Even if this unit is in standby mode (power off), a computer will recognize the USB connection (if the USB cable is connected), and try to output sound through this unit.
If you want to output sound through loud speakers or headphones that are directly connected to the computer, disconnect the USB cable or change the "Sound playback" device setting (see right).

If the sound does not playback normally when you are using a supported operating system, and the connections are correct as described above, check the following points.

For Windows XP

"Control Panel"

- ➔ "Sound and Audio Devices Properties"
- ➔ "Audio"
- ➔ "Sound playback"
- ➔ Check that "ESOTERIC RZ-1" is selected as "Default device".



- If you want to output sound through speakers or headphones that are directly connected to the computer, change the "Sound playback" "Default device" to the computer's built-in sound output.

For Windows Vista

“Control Panel”

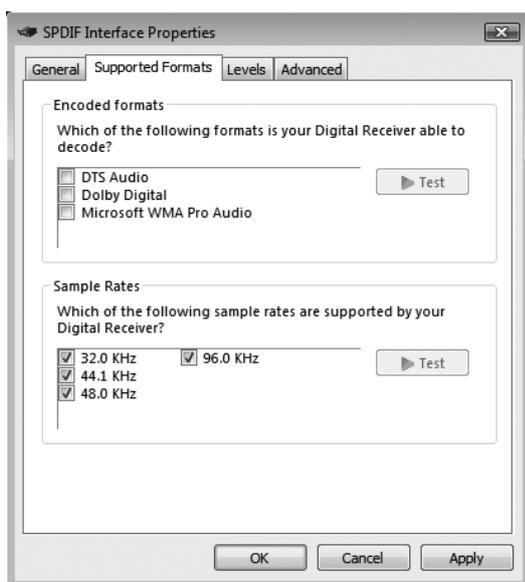
- ➔ “Sound”
- ➔ Check that “SPDIF Interface ESOTERIC RZ-1” is selected in “Playback” tab.



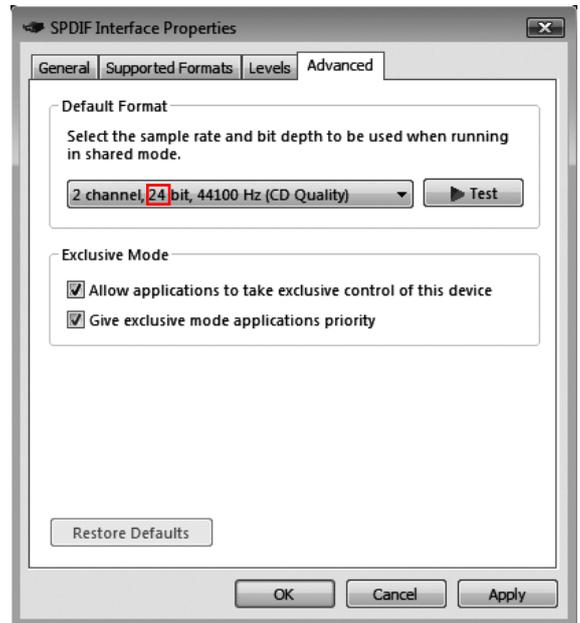
Furthermore, it is recommended to change the following settings:

Clicking “Properties” at this window displays the following window.

- ➔ “Supported Formats”
- ➔ Uncheck all checkboxes of “Encoded formats”.
- ➔ Check the sample rates you want to set.



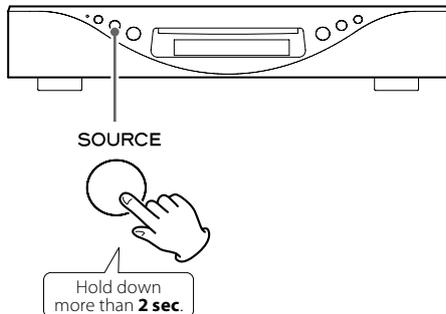
- ➔ Click “Advanced” tab.
- ➔ Select “2 channel, 24 bit, *****Hz”.



- Regardless of the format of the music file being played, the USB connection sends a PCM signal at the sampling frequency selected.

Changing settings

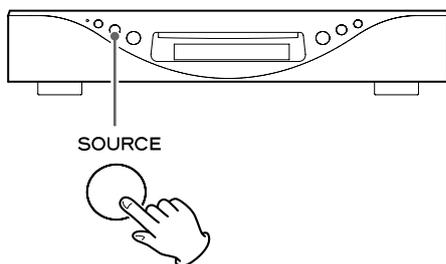
- 1** Press and hold the **SOURCE** button for more than 2 seconds to enter the setup mode.



The setup indicator (**SETUP**) and setup item appear on the display.

- You can also use the **SETUP** button on the remote control unit. (This button does not need to be pushed for more than 2 seconds. It will start setup mode immediately.)

- 2** Press the **SOURCE** button repeatedly to select an item.

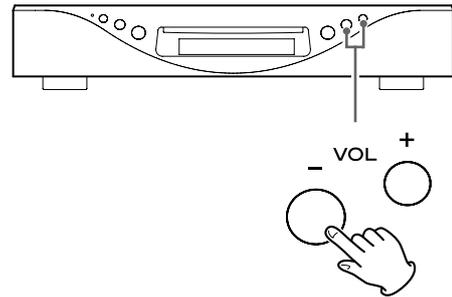


Each time the **SOURCE** button is pressed, the item changes as follows:

BAL> Speaker balance
 ↓
TREBLE> Level of high frequency sound range
 ↓
BASS> Level of low frequency sound range
 ↓
DF> Digital filter
 ↓
L-2> LINE2/PHONO terminal
 ↓
DIMMER>
 ↓
Return to the previous display
 (Exit setup mode)

- You can also use the **SETUP** button on the remote control unit.
- If no button is pressed for more than 10 seconds, the setup mode will be canceled and return to the previous display.

- 3** Press the **VOL (+/-)** buttons to change the setting.

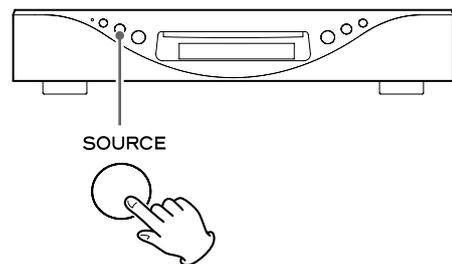


- You can also use the **INPUT (</>)** buttons on the remote control unit.

See "Available setup items and settings" on the next page for Individual setting.

Repeat steps **2** and **3** as required.

- 4** Press the **SOURCE** button repeatedly to exit the setup mode.



- If one of the following buttons is pressed, the setup mode will be canceled:

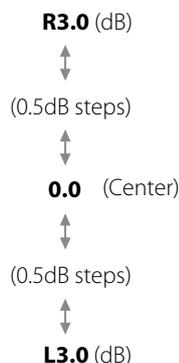
Eject button (**▲/■**)
 STOP button (**■**) on the remote control unit
 CLEAR button on the remote control unit

- Memorized settings are stored even after the power cord has been disconnected.

Available setup items and settings

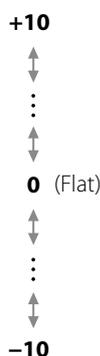
■ BAL > (Speaker balance)

Use this to adjust the left/right speaker output balance. The higher the R value, the more the sound will be balanced to the right speaker. The higher the L value, the more the sound will be balanced to the left speaker.



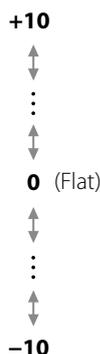
■ TREBLE >

Adjusts the level of high frequency sound range. The higher the number, the more the high frequencies are emphasized.



■ BASS >

Adjusts the level of low frequency sound range. The higher the number, the more the low frequencies are emphasized.



■ DF > (Digital filter)

Changes the digital filter of D/A converter.

FIR

A 32-bit FIR digital filter (Finite impulse response) oversamples the input signal to 8 times the frequency of the original signal. This provides a fuller, richer and deeper sound.

S_DLY (Apodizing filter type)

A 32-bit short delay filter oversamples the input signal to 8 times the frequency of the original signal. This provides an impulse response without pre-echo, natural attack and reverberation. This setting provides tonal quality that is closer to the original and without enhancement.

■ L-2 > (LINE2/PHONO terminal)

Changes the phono equalizer setting of LINE2.

LINE

The phono equalizer is not used. Use this setting for ordinary line level equipment.

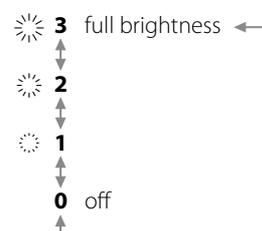
PHONO

The phono equalizer is used. Use this setting when connecting a record player with MM (Moving Magnet) type cartridge.

- When using an MC (Moving Coil) type cartridge, an external step-up transformer or similar equipment is necessary.
- When connecting an external phono amplifier such as an ESOTERIC E-03, set the unit to "LINE."

■ DIMMER >

Changes the brightness of the display and indicator lamps. The DIMMER button on the remote control has the same function (page 15).



- In off mode, when you press a button, the illuminations turn temporarily on for 3 seconds.
- In setup mode, the illuminations turn on with full brightness.

Restoring Factory Settings

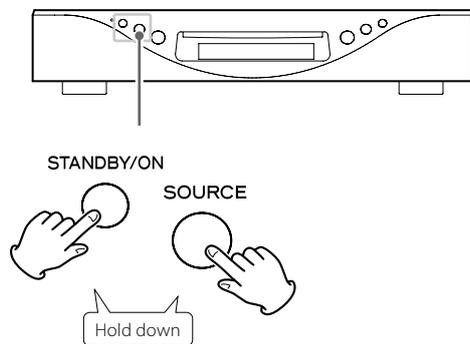
Memorized settings are stored even after the power cord has been disconnected.

If you have made changes through the setup process, and want to restart from a known set of options, restore the unit to the default factory settings as follows:

1 Turn the unit to standby mode (off).

Wait for more than 30 seconds.

2 Press and hold down the STANDBY/ON button while holding down the SOURCE button.



Release the buttons when "Setup CLR" appears on the display.

All memories are now erased and the unit returns to the factory settings.

Protection Circuit

This unit has a built-in protection circuit.

"AMP ERROR!" blinks on the display when the protection circuit is activated. In this case, follow the steps below.

1. Turn the unit to standby mode (off) and unplug the power cord from the outlet.
2. Check the speaker cables.
 - ➔ The protection circuit might be activated because there is a ⊕/⊖ short in a speaker cable.
3. Turn the unit on.

If the error message continues even after the above procedures, put the unit in standby (power off) again and disconnect the power cord from the socket. Wait about 10 minutes before turning the power back on.

- ➔ The protection circuit might be activated because the temperature inside the unit has become too hot (always make sure that you have ample ventilation around the unit).

If the protection circuit continues to be activated, please contact your dealer or an ESOTERIC service center.

If you experience any problems with the unit, please take a moment to look through this chart and see if you can solve the problem yourself before you call your dealer or ESOTERIC customer service/technical support.

Moreover, the problem might be caused by something other than this unit. Confirm that connected devices are also being used properly.

General

No power.

- ➔ Check the connection to the AC power source. Check and make sure the AC source is not a switched outlet and if it is, the switch is turned on. Make sure there is power to the AC outlet by plugging another item such as a lamp or a fan.

Remote control does not work.

- ➔ If the batteries are exhausted, change the batteries.
- ➔ Use the remote control unit within the effective range (7 m/23 feet) and point it toward the remote sensor on the front panel.
- ➔ Make sure that there are no obstacles between the remote control unit and the main unit.
- ➔ If a fluorescent light is near the unit, turn it off.

Buttons do not work properly.

- ➔ If another operation is still in process, wait a moment and try again.

Other units with remote controls operate incorrectly.

- ➔ Note that other units with remote controls may operate incorrectly because of infrared light "overspill" when you operate the remote control of this unit.

Severe hum or noise is heard.

- ➔ Place the unit as far away from a TV as possible.

There is no sound or only a very low-level sound is heard.

- ➔ Adjust the volume by pressing the VOL (+/-) buttons.
- ➔ Check that the speakers and components are connected securely.
- ➔ Check the operation of the connected component.
- ➔ There might be a ⊕/⊖ short in a speaker cable. Check the speaker cables.
- ➔ Select the proper input source using the SOURCE button.

There is no sound from a connected digital device.

- ➔ When connecting the digital output terminal of a DVD player or other digital device, set the digital audio output of the connected device to PCM. You can also connect the analog outputs of a digital device to this unit's analog inputs (LINE IN).

The display shows "AMP ERROR!".

- ➔ See "Protection Circuit" on previous page.

CD/Super Audio CD Player

Will not play.

- ➔ Press the SOURCE button repeatedly to select "CD/SACD".
- ➔ Reload the disc with the label side up. If not, insert the disc correctly.
- ➔ If the disc is dirty, clean the surface of the disc. If the disc is scratched or has any sticky substance on its surface, do not play the disc until you have corrected the condition of the disc. Under all circumstances, do not use after market stick on labels or "disc enhancement" devices that sit on top of a disc or wrap around a disc.
- ➔ If the unit has become condensed with moisture, leave the unit for one or two hours with the power turned on.
- ➔ The multi-channel area of a Super Audio CD cannot be played with this unit. This unit is a 2 channel player only.

Noticeable difference in CD and Super Audio CD's volume.

- ➔ That is because CDs and Super Audio CDs use different recording methods. This is normal.

USB connections with personal computers

This unit is not recognized by personal computers.

- ➔ USB connections are possible with personal computers running with Microsoft Windows XP or Windows Vista. Other operating systems are not guaranteed but may operate. This unit might not function properly when used with a computer running a different OS. In addition, the connected computer should be compatible with USB 1.1 or higher.

Noise occurs.

- ➔ Starting other applications during playback of a music file may interrupt playback or cause noise. Do not start other applications during playback.

Music files cannot be played.

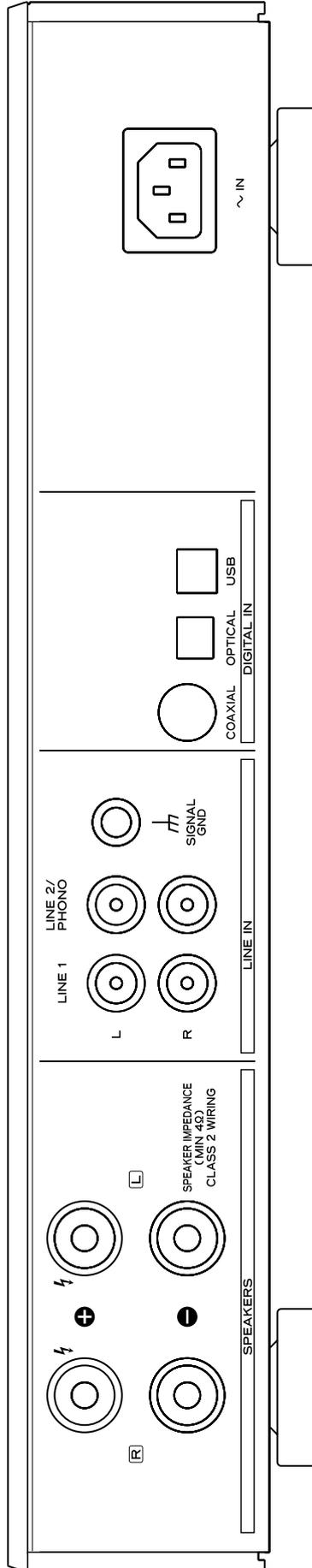
- ➔ Connect this unit to the personal computer before launching music playback software and starting playback. If the music playback software is launched or the input of this unit is switched to "USB" before this unit is connected to the personal computer, music data may not be played back correctly.
- ➔ Check the points on page 20 - 21.

Sound is too low.

- ➔ Confirm that the volume settings of the music playback software and the operating system are not low. Turn up the output volume on the PC as needed.

Since this device uses a microcontroller, external noise and other interference can cause the unit to malfunction. If this occurs, turn the power off and restart operations after waiting for about one minute.

Rear Panel Layout



Specifications

Amplifier Section

Output power	100 W + 100 W (1 kHz, 6 Ω, JEITA)
Minimum rated power output	80 W + 80 W (1 kHz, 0.1 %, 6 Ω, LPF 20 kHz) (JEITA)
Minimum impedance	4 Ω
Frequency response	15 Hz - 65 kHz (+1 dB, -3 dB, 6 Ω) (JEITA)
Total harmonic distortion	0.003 % (1 kHz, output 45 W, 6 Ω, LPF 20 kHz) (JEITA)
Signal-to-Noise Ratio (S/N)	102 dB
Input Sensitivity (input level for rated output at maximum volume)	
	LINE: 46 mVrms (JEITA)
	PHONO (MM): 1.0 mVrms (JEITA)

Audio input

Analog input

Jacks	RCA jacks (2 channels) x 2
Input impedance	LINE: 100 kΩ (JEITA) PHONO: 48 kΩ (JEITA)
RIAA deviation PHONO (MM)	.20 Hz to 15 kHz, ±0.5 dB

Digital input

COAXIAL jack	RCA jack x 1 (0.5 Vp-p/75 Ω)
OPTICAL jack	Optical digital jack x 1 (-24.0 to -14.5 dBm peak)
USB port	USB type B x 1 (USB 1.1 or higher)
Input sampling frequency	
COAXIAL/OPTICAL	32 kHz to 192 kHz
USB	32 kHz to 96 kHz

CD/Super Audio CD Player

Compatible format	Super Audio CD, CD-DA
Compatible disc type	Super Audio CD, CD, CD-R, CD-RW
Playback mode	DSD native

D/A Converter

Digital filter	32 bit 8-times oversampling
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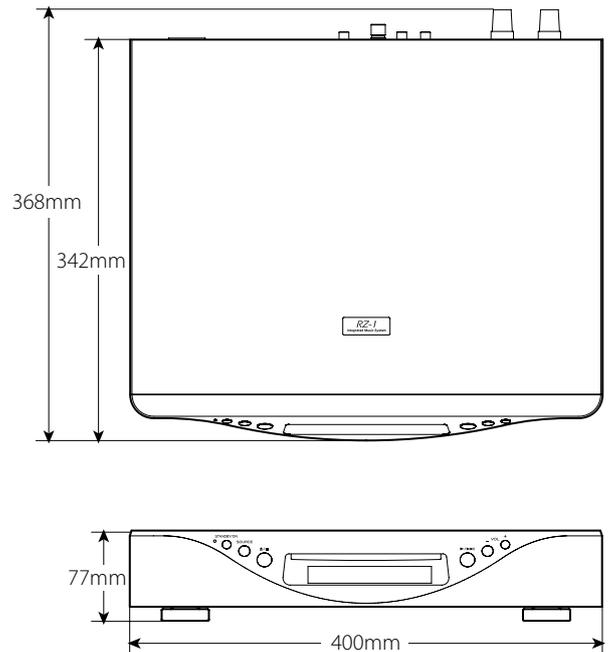
General

Power supply	
Europe model	AC 230 V, 50 Hz
U.S.A./Canada model	AC 120 V, 60 Hz
Korea model	AC 220 V, 60 Hz
Power consumption	105 W (standby mode: 0.5 W)
External dimensions (W x H x D)	400 x 77 x 368 mm (15-3/4" x 3" x 14-1/2") (including protrusions)
Weight	.9 kg (19-7/8 lb)
Operating temperature	+5 °C to +35 °C
Operating humidity	.5 % to 85 % (no condensation)
Storage temperature	-20 °C to +55 °C

Accessories

Power cord	x 1
Remote control unit (RC-1251)	x 1
Batteries (AA, R6 or SUM-3)	x 2
Felt pads	x 4
Owner's manual (this document)	x 1
Warranty card	x 1

External dimensions



- Design and specifications are subject to change without notice.
- Weight and dimensions are approximate.
- Illustrations may differ slightly from production models.

ESOTERIC

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This appliance has a serial number located on the rear panel. Please record the model number and serial number and retain them for your records.

Model number

Serial number

0110-MA-1537A