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Precautions

DO NOT move this unit during playback.

During playback, the disc is rotating at high speed. Do not try to lift or move this unit as the disc may be damaged.

When moving this unit

You must remove the disc and close the disc tray when moving this unit.

Then, press the OPERATION switch, and after "-STANDBY-" disappears from the display, unplug the power cord from the AC outlet.

If the unit is moved with a disc remaining inside, this can cause a malfunction.

Location for installation

- Choose a stable place near the stereo system that is to be used in combination with this unit.
- Do not install this unit near a television or color monitor. Keep this unit away from such devices as cassette decks that are subject to magnetism.
- Install this unit onto a level place when possible.

Avoid the following locations for installation.

- · Locations exposed to direct sunlight
- Places subject to humidity and with less ventilation
- Places where are extremely hot or cold
- Places subject to strong vibration
- · Places subject to dust
- Places subject to oil, steam, and heat (such as kitchens)

Do not put articles.

Do not put articles on this unit.

To avoid heat emission

Do not place this unit on such device as an amplifier that may emit heat. If the unit is installed on a rack, install the unit below the rack where the amplifier is installed so as to avoid heat emission from the amplifier and other audio devices.

Notice when this unit is installed in a rack with glass doors

While the glass doors are closed, do not open the disc tray by pressing the open/close (**△**) button of the remote control. Disc tray performance will be blocked, and that may result in a malfunction.

Power off this unit when it is not used.

Depending on the condition of radio waves emitted during television broadcasting, interference fringes may appear on the television monitor, but that is not a malfunction. In such a case, power off the unit. There may also be a case where noises are heard on the radio due to radio wave interference.

Dew condensation

In winter, be careful when carrying this unit from a cold place to a warm place or if the room temperature is suddenly raised by a heater or the like where this unit is installed. The unit interior (operating blocks and lens) will have dew condensation on it. In such a condition, this unit cannot work normally and playback is impossible. This depends on the state of dew condensation, but you will be able to enjoy the music if the unit is left untouched for one to two hours after it has been turned on and the temperature of this unit is maintained at room temperature until the condensation dries.

Even in summer, dew condensation can occur if



this unit is directly exposed to cool air from an air conditioner. In such a case, the installation place should be changed.

 Where the disc seems to be very dirty, dip soft cloth in water, wring it well, and remove contaminants. Lastly, remove the moisture with dry cloth.

Batteries

Caution:

Batteries used for remote controller shall not be exposed to excessive heat such as sunshine, fire or the like.

How to handle discs

- Do not use any deficient disc (with cracks, warp, etc).
- Do not damage the signal surface of the disc or make it dirty.
- Do not place paper or a sticker on the disc. Such awkward handling can warp the disc and playback may become impossible. In many cases, rental discs carry labels and paste may protrude from under the label. Before use, check that the disc is free from protruding paste or the like.
- Do not play with two discs in a stack.

How to store discs

- Always put your discs in a case. Store them vertically where high temperature, high humidity, and direct exposure to sunlight are not prevalent.
 Places with extremely low temperature should also be avoided.
- Read the caution notes carefully that are attached to discs.

Disc cleaning

- If a disc is dirty from fingerprints or dusty, the sound quality may be lowered. Lightly wipe the disc with soft cloth, from the inside to outer periphery. (Don't wipe it along the circumference.)
- Do not use a volatile chemical such as benzine or thinner. Record spray, anti-static agents, and other such materials cannot be used either.

Disc in a specific shape

This unit cannot accept discs in specific shapes (heart-shaped, hexagonal, etc.) for playback. Never use such discs as they can cause malfunctions.

Notice when handling optical digital cables

- Do not fold the cables. For storage, wind each cable to make a coil whose diameter is approx.15 cm or larger.
- For connection, insert the cable connectors firmly into the terminals of this unit and the other device.
- Use the cables whose each length is 3 m or less.
- When the cable connectors get dusty, wipe the dust away with a dry soft cloth before inserting into the terminals.

Cleaning

- Usually, wipe the unit with a dry soft cloth. When
 the dirt is hard to remove, dip soft cloth in detergent diluted 5 or 6 times with water, wring it
 well, and remove contaminants. Then, remove
 the moisture with dry cloth.
- Do not use a solvent like alcohol, benzine, thinner, or pesticide because such a substance can damage the exterior. In addition, do not let this unit contact a rubber or plastic form for a long time. That may damage the cabinet surface of the unit.
- When using a chemical cloth for cleaning, read the caution provided with the chemical cloth product.
- Before cleaning, unplug the power cord from the AC outlet.



Features Of This Unit_2-channel-specific Super Audio CD/CD Compatible Player

LxDTM — LuXman original Disc Transport Mechanism —

This unit is equipped with a robust transport block. The transport block features high rigidity structure SSB (Stabilized Support Block) that doubles as a chassis.

The suede-finish aluminum die-cast disc tray can control vibration and resonance.

QLL (Quiet Linear Loader) is applied to open or close the disc tray quietly and smoothly.

Dust Proof Shutter (DPS)

Dust Proof Shutter (DPS) mechanism is integrated into the disk tray section of the front panel to enhance dust prevention and reduce noise pollution.

Analog circuit

Four identically configured fully discrete balanced amplifiers equipped with the ODNF Ver. 3.0 (Only Distortion Negative Feedback) circuit, has been incorporated into our digital music player for the first time.

DSD → **PCM** conversion

DSD signal, which is output from the transport during a Super Audio CD playback, is converted to a PCM signal before it is input to a D/A converter.

When this function is not used, the DSD signal will be directly input to the D/A converter.

Jitter-reduction function

This unit is equipped with a circuit to reduce the clock jitter in the system clock.

Disc layer switchover function

By pressing a switch on the main unit or remote control, the CD layer and the HD layer of Hybrid Super Audio CD can be switched over.

Zoom function

When the ZOOM switch is pressed on the remote control during a disc playback, the track number and time information can be zoomed on the display.

4 playback modes

Playback mode can be selected from regular playback, program playback, random playback, and repeat playback.



Digital input terminals

This unit is equipped with a coaxial input terminal and an optical (1, 2) input terminal.

The unit is compatible with SPDIF format signals between 32 kHz and 96 kHz.

It is possible to play back the digital audio signal that is output from another audio device via the circuit of the unit that improves the sound quality.

Last memory function

Built-in flash memory can memorize settings such as digital input, Super Audio CD/CD switchover, and DSD/PCM switchover.

Dimmer function

The brightness of display (time information, etc.) can be switched over in 4 steps.

Digital output OFF

The digital audio output can be deactivated to improve the quality of analog audio output.

Analog output terminals

Introduction of a high-grade RCA terminal with gold plating and high-grade XLR terminal manufactured by Neutrik allows even a high-performance line cable with large plug to be connected.

Peel coat PCB / Round pattern board

After careful consideration of delicate audio signal flow, a round pattern, gold plated signal traces has been applied to achieve smooth signal transmission.

Legs

This unit has the gradation cast-iron legs.

Remote control (RD-14)

The remote control is encased in aluminum. Tactile switches will satisfy users with solid click feeling.

Bit length extension

This unit features the function to extend the bit length of audio data.

By converting the 16-bit data to 24-bit one, fluid and delicate sound can be reproduced with minimal signal output.

Energy-saving design

This unit has been designed to save energy by reducing standby power consumption to 1 W.

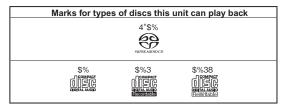




About Discs This Unit Can Play Back

Types of discs that can be played

The following marks are printed on disc labels, packages, or CD jackets.



This unit can play back 8 cm CDs without using an adapter.

Do not use an adapter for 8 cm CDs.

- CD R/CD RW discs that have been written by a recorder or PC (personal computer) may not be played back.
 (Due to characteristics of discs, scratches, dirt on the lens of the unit, or dew condensation)
- Discs written by a PC may not be played back depending on the application settings or environment.
 Write the discs in a proper format. (Refer to the distributor of application for details).
- Time information may not be displayed when an unfinalized CD R/CD RW disc is played back.
- Refer to the precautions for discs for details on how to handle CD R/CD R discs.

Super Audio CD

- 3 types of discs —
- Single-layer CD



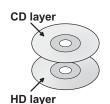
This is a disc which has a single Super Audio CD layer

Dual-layer CD



This is a CD which has a dual Super Audio CD layer that supports long-time recording

• Hybrid-layer CD



This is a CD which has both a standard CD layer and Super Audio CD layer.

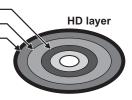
When the disc is played back on a Super Audio CD player, it is possible to enjoy sounds of improved quality on the HD layer. When the disc is played back on an existing CD player, it is possible to play back sounds on the CD layer.

HD layer: Super Audio CD layer CD layer: Existing CD layer

HD layer has the following areas.

• 2-channel stereo area • Multi-channel area —

Extra data area
 (For future expansion)





Comparison of Super Audio CDs with CDs

Item	Super Audio CD	CD
Disc diameter (cm)	12	12
Disc thickness (mm)	1.2	1.2
Coding method	1-bit direct stream digital (DSD)	16-bit linear PCM
Sampling frequency	2.8224 MHz (64 times to CDs)	44.1 kHz
Maximum recordable time	109 minutes for 2ch only. 60 to 70 minutes for 2-channel	74 minutes
	stereo area + multi-channel area*1	
Number of channels	2, 3, 3.1, 4, 4.1, 5, 5.1	2
Maximum number of tracks	255	99
Maximum number of indexes	255	99
Playback frequency range	DC to 100 kHz	5 to 20 kHz
Dynamic range*2	120 dB or more (Audible frequency range)	96 dB

^{*1} This is the maximum recordable time for a single-layer CD. Depending on the compression rate of DST (Direct Stream Transfer), the maximum recordable time may vary.*3

^{*2} Theoretical value.

^{*3} Lossless compression method that applies a variable bit rate for DSD signals. The method has been developed, focused on the DSD signal characteristics.



Before Use

Check the accessories.

After unpacking, check if the following accessories are not missing.

- Power cable
- Remote control (RD-14)



• "AAA" batteries (2 pieces)

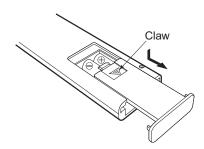


- · Safety cautions
- · Owner's Manual (This document)

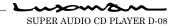
How to Use Remote Control

Insert batteries into the remote control.

- 1 Remove the battery cover on the rear of the remote control.
 - Put your finger on the battery cover claw and slide the cover downward to remove the cover.
- 2 Put 2 AAA batteries in the battery case as shown in the illustration on the battery case in consideration of the polarity (+ and -)
- 3 In the reverse order of battery cover removal, put the battery cover back to the opening of the remote control and slide the cover upward until it clicks.

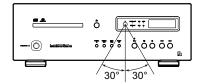


- Do not use a new battery and an old one together.
- There may be a case in which the voltages are different between two batteries even though their shapes are the same. Do not use the batteries of different types together.
- If the remote control is not used for a long time (more than 1 month), the batteries shall be removed from the case. If the battery liquid is leaking, wipe away the liquid from the case before inserting new batteries.



Remote control's range

The remote control can be used by pointing at the remote control infrared receiver on the front panel of main unit. The effective distance is approx. 5 m from the main unit and 30 $^{\circ}$ on both sides from the control infrared receiver.

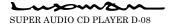




Effective distance: approx. 5 m

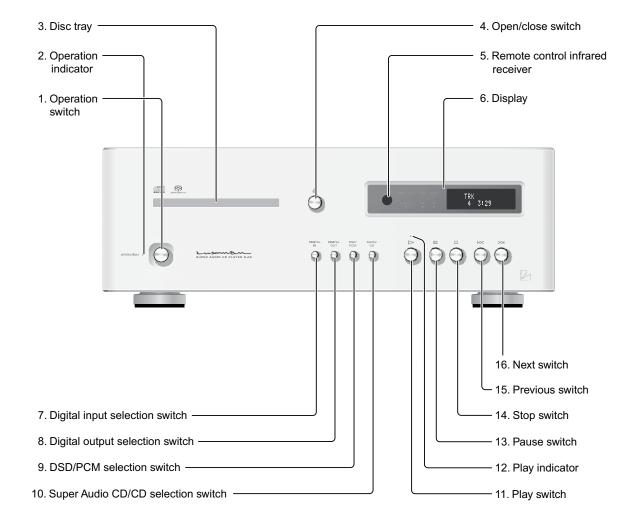
Do not expose the remote control infrared receiver to direct sunlight or strong light sources.

That may cause malfunction.



Names and Functions of Part

Front side of main unit





1. Operation switch / OPERATION

Turns this unit to the operating state after turning off the standby indicator at the standby state. Pressing this switch again at the operating state turns the unit to the standby state.

2. Operation indicator / OPERATION

Lights up and shows that the unit is in the operating state when the operation switch is pressed at the standby state.

Pressing the operation switch again in the operating state turns off this indicator and lights up the standby indicator.

3. Disc tray

When inserting or removing a disc, this tray is opened or closed by pressing the open/close switch (\triangle) .

4. Open/close switch / (▲)

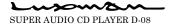
This switch is pressed when opening or closing the disc tray.

5. Remote control infrared receiver / R

Receives the infrared signals from the remote control.

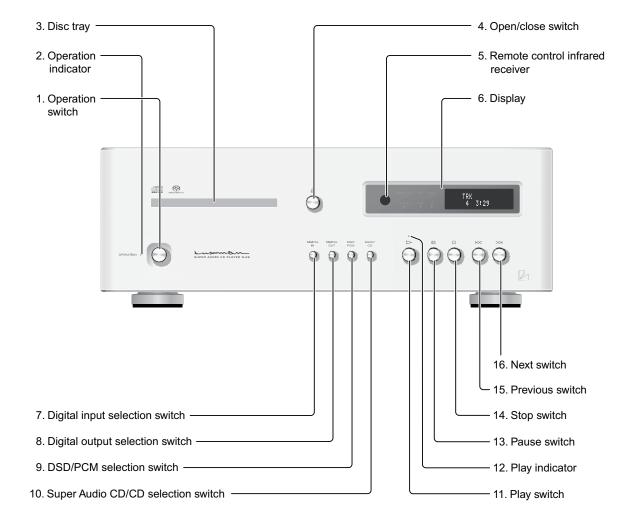
6. Display

Displays the operation status of this unit. This display is composed of 6 indicators and display tube.



Names and Functions of Part

Front side of main unit





7. Digital input selection switch / DIGITAL IN

This switch is pressed when using this unit as a D/A converter.

The input source is switched over among coaxial or optical (1, 2) input, or internal player of this unit.

8. Digital output selection switch / DIGITAL OUT

This switch is pressed when turning on or off the digital audio output.

Each time the switch is pressed, the output can be turned on or off.

It is impossible to output the digital audio signal when playing back the HD layer of Super Audio CD.

DSD/PCM selection switch / DSD/PCM

When playing back the HD (or SACD) layer of Super Audio CD, this switch is pressed to determine whether to input DSD signals from the disc directly to the D/A converter IC or to convert DSD signals into PCM signals before inputting to the D/A converter IC.

10. Super Audio CD/CD selection switch / SACD/CD

When playing back a Hybrid Super Audio CD, this switch is pressed to select the playback layer between the HD (or SACD) layer and CD layer.

11. Play switch / (▶)

This switch is pressed to play back a disc.

12. Play indicator

Lights up while a disc is being played back Blinks while playback is being paused.

13. Pause switch / (III)

When this switch is pressed during playback, the playback stops.

When this switch is pressed again, the playback starts again.

During pause, the play indicator blinks.

14. Stop switch / (■)

This switch is pressed to stop playback.

15.Previous switch / (◄◄)

When this switch is pressed, the playback returns to the beginning of track.

When this switch is pressed twice, the playback returns to the beginning of previous track.

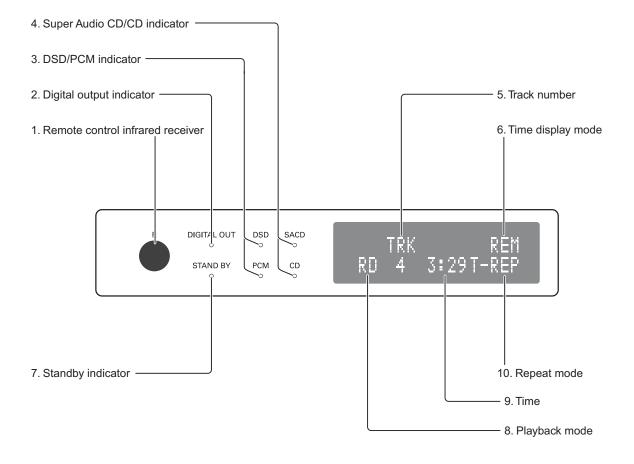
16. Next switch / (▶▶)

When this switch is pressed, the playback jumps to the beginning of next track.



Names and Functions of Part

Display





1. Remote control infrared receiver / R

Receives the infrared signals from the remote control.

2. Digital output indicator / DIGITAL OUT

Lights up when digital audio output is ON.

This indicator does not light up when playing back the HD layer of Super Audio CD because the digital audio signal cannot be output.

3. DSD/PCM indicator / DSD/PCM

DSD indicator lights up when playing back the HD (or SACD) layer of Super Audio CD and when inputting DSD signals from the disc directly to the D/A converter IC.

PCM indicator lights up when converting DSD signals into PCM signals before inputting to the D/A converter IC.

Super Audio CD/CD indicator / SACD/CD

SACD indicator lights up when playing back the HD (or SACD) layer of Hybrid Super Audio CD. CD indicator lights up when playing back the CD layer of Hybrid Super Audio CD.

5. Track number / TRK

"TRK" is indicated on the upper side, and the track number is indicated on the lower side when these display area shows the track number.

6. Time display mode

The display mode of time is displayed "REM" is displayed when showing the remaining time of current track "T-REM" is displayed when showing the total remaining time of disc. This display area does not light up when showing the elapsed time of track.

7. Standby indicator / STAND BY

Lights up when this unit is in the standby state.

8. Playback mode

"RD" is displayed during random playback. "PG" is displayed during program playback.

This display area does not light up during regular playback.

9. Time

Displays the elapsed time of current track, remaining time of current track, or remaining time of disc.

Time display is switched over according to time display mode.

10.Repeat mode

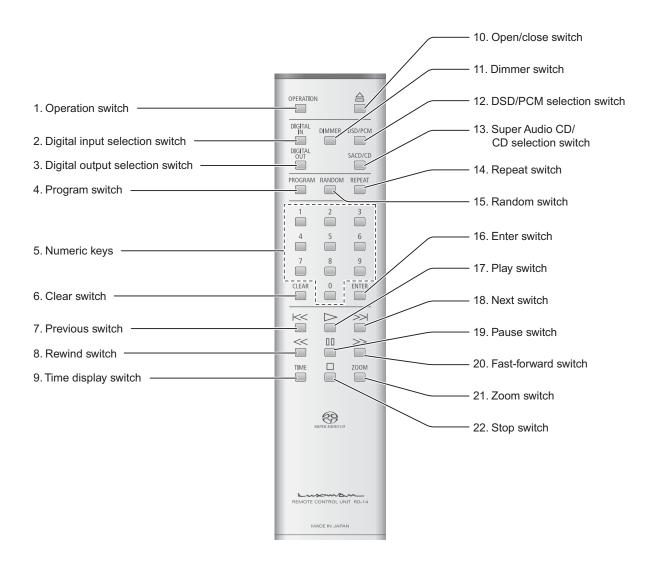
Displays the mode for repeat playback.

There are two types of repeat playback: track repeat (T-REP) and all repeat (A-REP).



Names and Functions of Part

Remote control





1. Operation switch / OPERATION

Turns this unit to the operating state after turning off the standby indicator at the standby state. Pressing this switch again at the operating state turns the unit to the standby state.

2. Digital input selection switch / DIGITAL IN

This switch is pressed when using this unit as a D/Aconverter.

The input source is switched over among coaxial or optical (1, 2) input, or internal player of this unit.

3. Digital output selection switch / DIGITAL OUT

This switch is pressed when turning on or off the digital audio output.

Each time the switch is pressed, the output can be turned on or off.

The digital audio signal cannot be output when playing back the HD layer of Super Audio CD.

4. Program switch / PROGRAM

Programs the track numbers to play back in a desired order.

5. Numeric keys /

1, 2, 3, 4, 5, 6, 7, 8, 9, 0

These keys are pressed to specify the track numbers for direct search or program.

6. Clear switch / CLEAR

This switch is pressed to cancel the program settings.

7. Previous switch / (◄◄)

When this switch is pressed, the playback returns to the beginning of track.

When this switch is pressed twice, the playback returns to the beginning of previous track.

8. Rewind switch / (◄◄)

When this switch is played during playback, audio is rewound.

9. Time display switch / TIME

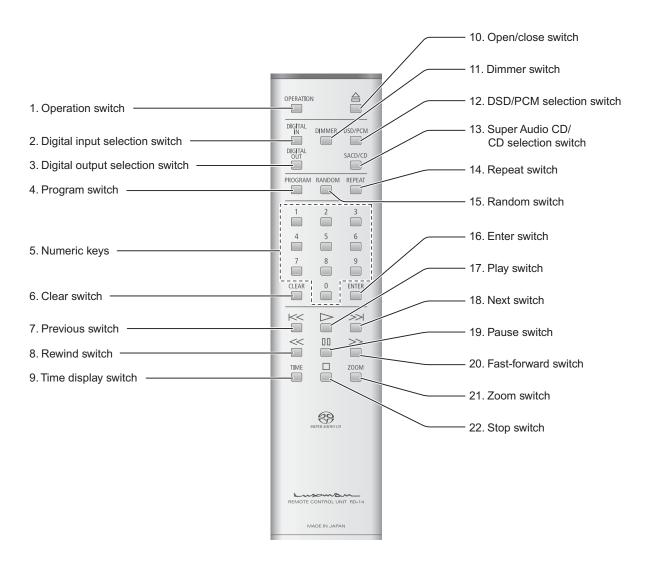
Switches the time display.

Switches the elapsed time of current track, remaining time of current track, or remaining time of disc.



Names and Functions of Part

Remote control





10. Open/close switch / (▲)

This switch is pressed when opening or closing the disc tray.

11. Dimmer switch / DIMMER

Adjusts the brightness of the main unit display. The brightness can be adjusted in 4 steps from no light to normal lighting.

12.DSD/PCM selection switch / DSD/PCM

When playing back the HD (or SACD) layer of Super Audio CD, this switch is pressed to determine whether to input DSD signals from the disc directly to the D/A converter IC or to convert DSD signals into PCM signals before inputting to the D/A converter IC.

DSD: Direct Stream Digital
PCM: Pulse Code Modulation

13. Super Audio CD/CD selection switch / SACD/CD

When playing back a Hybrid Super Audio CD, this switch is pressed to switch over the play-back layer between the HD (or SACD) layer and CD layer.

14. Repeat switch / REPEAT

This switch is pressed to perform repeat playback.

There are two types of repeat playback: track repeat (T-REP) and all repeat (A-REP).

15. Random switch / RANDOM

This switch is pressed to perform random playback.

16. Enter switch / ENTER

This switch is pressed to execute the set or selected items.

17. Play switch / (▶)

This switch is pressed to play back a disc.

18. Next switch / (▶►)

When this switch is pressed, the playback jumps to the beginning of next track.

19. Pause switch / (II)

When this switch is pressed during playback, the playback stops.

When this switch is pressed again, the playback starts again.

During pause, the play indicator blinks.

20. Fast-forward switch / (▶▶)

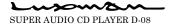
When this switch is played during playback, audio is fast-forwarded.

21. Zoom switch / ZOOM

When this switch is pressed during playback, the track number and time are zoomed on the display.

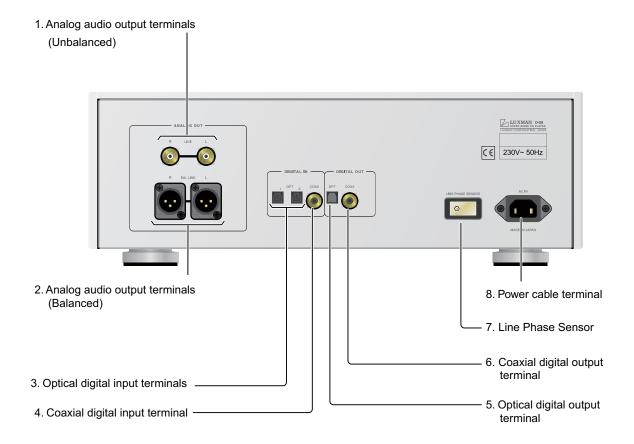
22. Stop switch / (■)

This switch is pressed to stop playback.



Names and Functions of Part

Rear side of main unit





1. Analog audio output terminals (Unbalanced) / LINE

Connect these terminals to an unbalanced input of such device as a preamplifier with a pin-plug cable.

2. Analog audio output terminals (Balanced) / BAL LINE

Connect these terminals to a balanced input of an output device such device as a preamplifier with a balanced cable.

The following are the polarities of analog audio output terminals.

- 1. GROUND
- 2. COLD (-)
- 3. HOT (+)

Optical digital input terminals / OPT 1, OPT 2

When using this unit as a D/A converter, connect this terminal to such device as a recorder that has a digital output terminal using an optical digital cable.

The following sampling frequencies are supported: 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz. This terminal has a shutter. Direct the cable connector correctly when inserting the cable into the terminal. If the cable connector is inserted forcibly with the wrong direction, the terminal may be deformed, and the shutter may not be able to close even after cable disconnection.

4. Coaxial digital input terminal / COAX

When using this unit as a D/A converter, connect this terminal to such device as a recorder that has a digital output terminal using a coaxial digital cable.

The following sampling frequencies are supported: 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz.

5. Optical digital output terminal / OPT

Connect this terminal to such device as an amplifier that has a digital input terminal using an optical digital cable. It is impossible to output the digital audio signal when playing back the HD layer of Super Audio CD.

This terminal has a shutter. Direct the cable connector correctly when inserting the cable into the terminal. If the cable connector is inserted forcibly with the wrong direction, the terminal may be deformed, and the shutter may not be able to close even after cable disconnection.

Coaxial digital output terminal / COAX

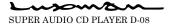
Connect this terminal to such device as an amplifier that has a digital input terminal using a coaxial digital cable. It is impossible to output the digital audio signal when playing back the HD layer of Super Audio CD.

7. Line Phase Sensor

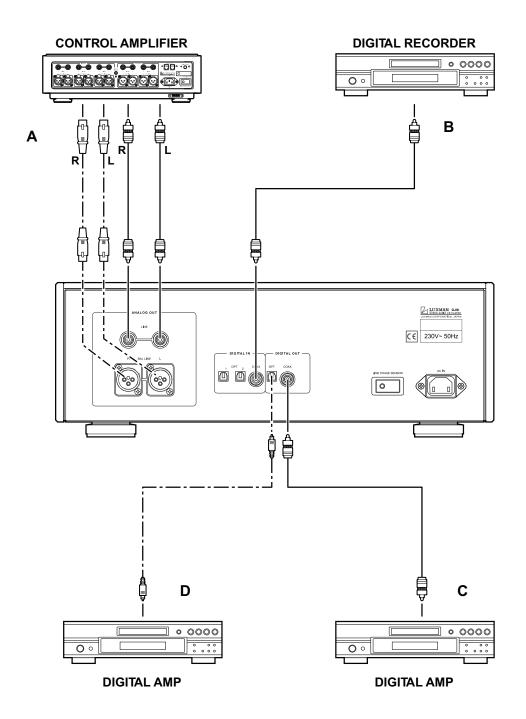
Not functional for models whose power source is AC 230 V.

8. Power cable terminal / AC IN

Connect the accessory power cable to supply the power from the AC outlet on the wall.



Connections





Before Connecting

 Connect the accessory power cable to an AC outlet.

Connections

Connect the audio cables. (Refer to "A" in the illustration on the previous page.)

When applying unbalanced connections, connect the terminals to an unbalanced input of such device as a preamplifier with a pin-plug cable. When applying balanced connections, connect the terminals to a balanced input of such device as a preamplifier with a pin-plug cable.

At this moment, exercise extra care not to conduct wrong connection between the right and left channels. If the right and left channels are connected reversely, the localization of sound images is deteriorated, thus failing in normal stereo playback.

If pin-plug cables are used, inadequate connection of the grounding of the cables may generate noises including hum, resulting in an adverse S/N ratio. Surely insert the connection plug.

Before connecting devices or changing the configuration, be sure to power off the unit, and disconnect the power cable from the AC inlet (power cable terminal/AC IN) of the unit.

3. When using this unit as a D/A converter (Refer to "B" in the illustration on the previous page.)

When connecting this terminal to such device as a recorder that has a digital output terminal, use an optical digital cable or digital cable. This terminal has a shutter.

Direct the cable connector correctly when inserting the cable into the terminal.

If the cable connector is inserted forcibly with the wrong direction, the terminal may be deformed, and the shutter may not be able to close even after cable disconnection.

Upper side



The optical terminals are directed as illustrated

Lower side

4. When connecting to such device as an amplifier that has a digital input terminal

(Refer to "C" and "D" in the illustration on the previous page.)

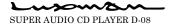
Connect this terminal to such device as an amplifier or recorder that has a digital input terminal using an optical digital cable (C) or a coaxial digital cable (D).

It is impossible to output the digital audio signal when playing back the HD layer of Super Audio CD.

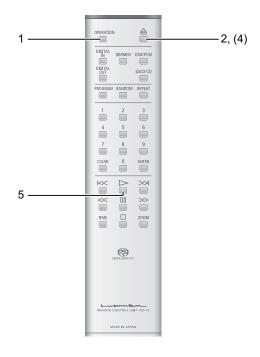
This terminal has a shutter.

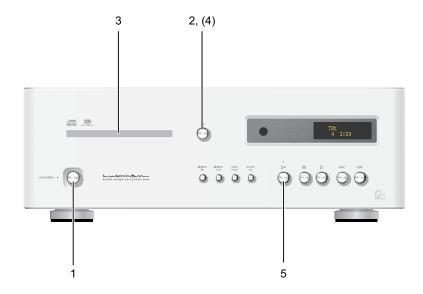
Direct the cable connector correctly when inserting the cable into the terminal.

If the cable connector is inserted forcibly with the wrong direction, the terminal may be deformed, and the shutter may not be able to close even after cable disconnection.



How to Play Back Discs







Play back a disc.





1. Press the OPERATION switch.

"-OPERATION-" appears on the display. When "-OPERATION-" disappears, the unit becomes operable.

2. Press the open/close (▲) switch.

The disc tray opens.

3. Put the disc on the disc tray according to the guide on the tray.

4. Press the open/close (♠) switch.

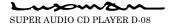
The disc tray closes and the disc is loaded.

To start playback more quickly, press the play (▶) switch without pressing the open/close (♠) switch.

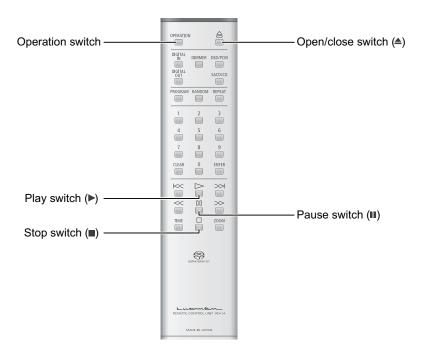
Or select a track by pressing a numeric key without pressing the open/close (\(\beta\)) switch, and press the ENTER or play (▶) switch.

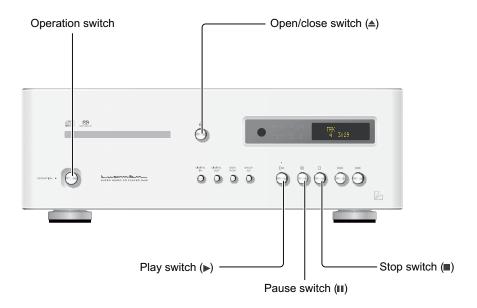
Operation switches and numeric keys are not functional until a disc is loaded, disc type is displayed, and then the number of tracks and total recording time are displayed. It is possible to shorten the time until playback starts by specifying the next operation in advance.

5. Press the play (▶) switch.



Stop/Pause the Playback







Pause the playback of a disc.



Pause playback.

1. Press the pause (■■) switch.

During pause, the play indicator blinks.

Resume the regular playback.

2. During pause, press the play (▶) or pause (▮) switch.

Stop the playback.

During playback, press the stop (■) switch.

Eject a disc.

Press the open/close (♠) switch.

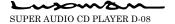
The disc tray opens.

Power off the unit. (Turn the unit to the standby state.)

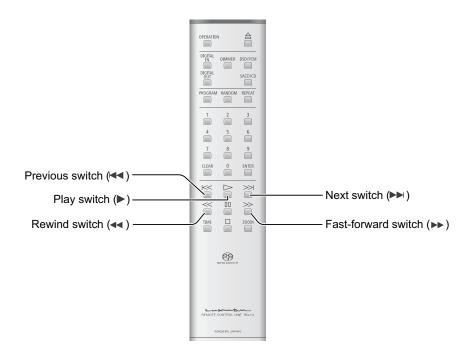
Press the OPERATION switch.

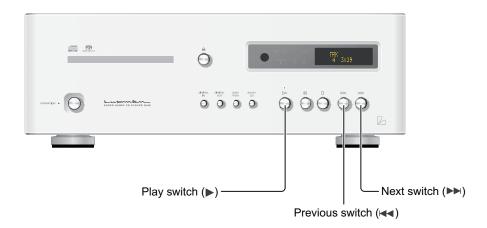
"-OPERATION-" appears on the display, and the STANDBY indicator lights up.

To power off the unit completely, it is required to disconnect the power plug from the AC wall outlet.



Skip/Fast-forward/Rewind







Skips to the desired track. (Skip playback)





Skips (Skip playback) Skip to the track to play back.

To skip to the track to play back, press the next switch (►►) repeatedly until the desired track is displayed.

Go back to the track to play back.

To go back to the track to play back, press the previous switch (◄◄) repeatedly until the desired track is displayed.

When this switch is pressed once, the play back returns to the beginning of current track. When this switch is pressed twice, the playback returns to the beginning of previous track.

Fast-forward/rewind the playback. (Scan)



Fast-forward the playback.

1. During playback, press the fast-forward (▶▶) switch.

Each time the switch is pressed, the fast-forward speed can be changed in 4 steps.

">>1, >>2, >>3, >>4" appears on the display to indicate the fast-forward state and speed.

2. To resume the regular playback, press the play (▶) switch.

Rewind the playback.

During playback, press the rewind (◄◄) switch.

Each time the switch is pressed, the rewind speed can be changed in 4 steps.

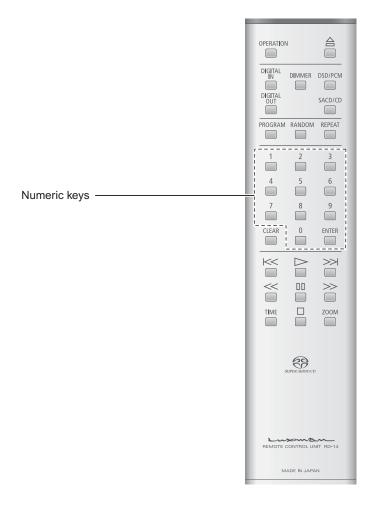
"<<1, <<2, <<3, <<4" appears on the display to indicate the rewind state and speed.

2. To resume the regular playback, press the play (▶) switch.

When a set of tracks are composed of two or more Super Audio CDs, the first track may not be Track 1.



Direct Search





Specify the desired track for playback



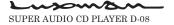
1. Enter a track number by pressing numeric keys.

For example, when selecting the 15th track, press the "1" key, and then "5".

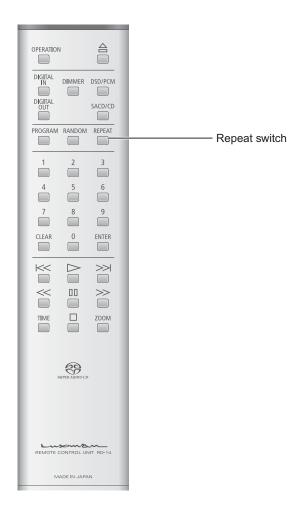
2. Press the ENTER or play switch.

Playback is started automatically even without pressing the ENTER key after the elapse of approx. 4 seconds.

The maximum number of tracks is 255 for a Super Audio CD, and it may take longer time to enter a 3-digit track number. For this reason, approx 4 seconds are given to Super Audio CDs before auto jump.



Repeat Playback





Repeat the playback. (Repeat playback)

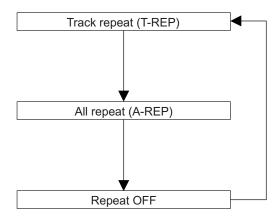


There are two types of repeat playback: track repeat (T-REP) and all repeat (A-REP).

Track repeat (T-REP)

- 1. During playback, press the REPEAT switch once.
- 2. "T-REP" appears on the display to indicate track repeat.
- When the REPEAT switch is pressed twice, track repeat is canceled.

Track repeat is also canceled when the disc is stopped.



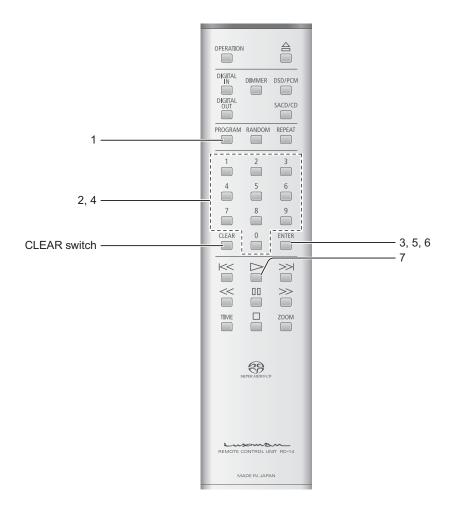
All repeat (A-REP)

- 1. During playback, press the REPEAT switch twice.
- 2. "A-REP" appears on the display to indicate all repeat.
- 3. When this switch is pressed once again, all repeat is canceled.

All repeat is also canceled when the disc is stopped.



Program Playback





Play back the tracks in a programmed order.

(Program playback)



It is possible to program up to 24 tracks in the desired order.

1. During stop, press the PROGRAM switch.

The following appears on the display.

2. Enter a desired track number by pressing numeric keys of the remote control.

For example, when selecting the 5th track, press the "5" key.

3. Press the ENTER switch.

The order of the track is determined, and then track number and total time appear on the display.

4. Enter the track number to program next.

For example, when selecting the 15th track, press the "1" key, and then "5".

PG 02 15	PG	02	15
----------	----	----	----

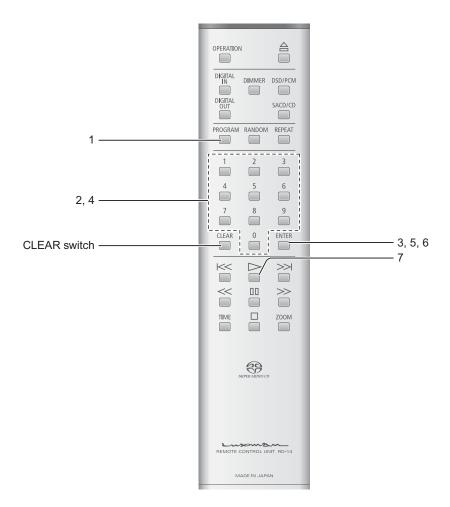
5. Press the ENTER switch.

The order of the track is determined, and then track number and total time appear on the display.

		T-TIME
PG	02	02:01



Program Playback





6. Press the ENTER switch.

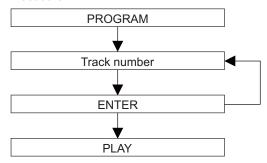
Program the desired tracks by repeating Step 2 and 3.

7. Press the play (▶) switch.

TRK PG 5 1:25

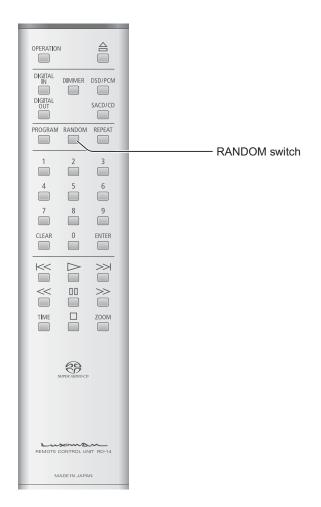
- When pressing the CLEAR switch during stop, all the program is deleted.
- When pressing the PROGRAM switch, and then the CLEAR switch during stop, the tracks will be deleted in the reverse order.
- It is impossible to program pause.
- When pressing the REPEAT switch during program playback, all repeat is performed in the programmed order.
- Track repeat is impossible during program playback.
- When pressing the next (►►) switch during program playback, the playback jumps to the next track in the programmed order.
- To perform the program playback again, press the PROGRAM switch during stop, and then the play (►) switch.

Procedure





Random Playback





Play back the tracks in a random order. (Random playback)



Each track is randomly selected from all the tracks to be played back once.

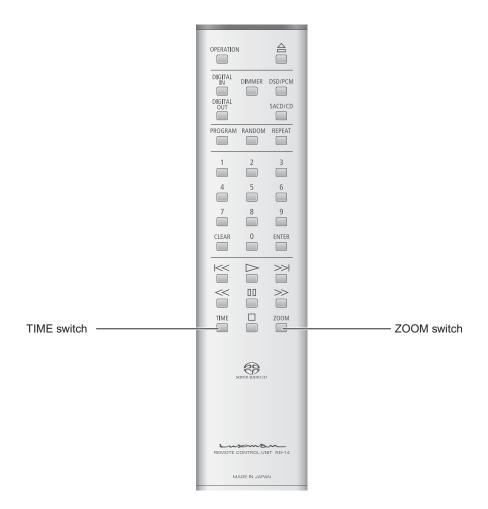
- 1. Press the RANDOM switch.
- 2. "RD" appears on the display to indicate random playback. The playback stops automatically after all the tracks are played back.

Random playback stops when a disc is stopped or the RANDOM switch is pressed once again. When pressing the next (>>>) switch during random playback, the next track is randomly selected to be played back.

When pressing the previous ($\blacktriangleleft \blacktriangleleft$) switch, the playback returns to the beginning of current track.



Disc Information/Zoom





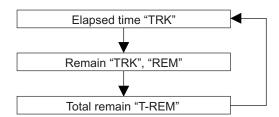
Disc information

Remote control

The time display can be switched over during playback.

Each time the TIME switch is pressed during playback, the display changes as follows.

- The current track number and the elapsed time of the track (In the default setting):
 - "TRK" will appear on the display.
- 2. The current track number and the remaining time of the track (Remain):
 - "TRK" and "REM" will appear on the display.
- 3. The total remaining time of the disc (Total remain):
 - "T-REM" will appear on the display.

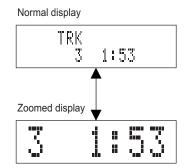


Zoom

Remote control

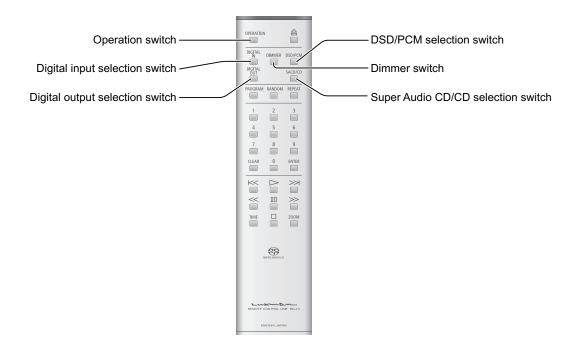
The display can be zoomed.

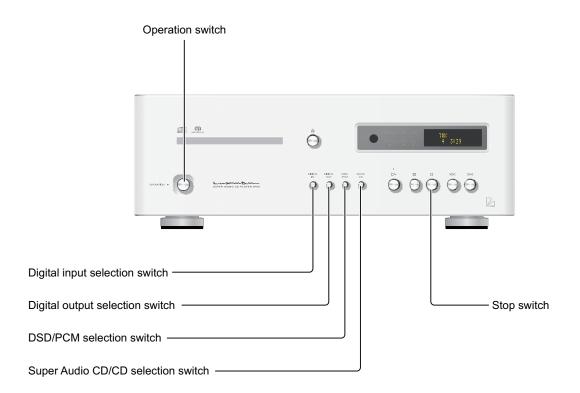
- When pressing the ZOOM switch on the remote control during playback, the track number and time are zoomed.
 - It is impossible to zoom other display areas.
- 2. When pressing the ZOOM switch once again, the display returns to the normal state.





Detailed Settings







Dimmer switch / DIMMER

Remote control

The brightness of the main unit display can be adjusted. The brightness can be adjusted in 4 steps from no light to normal lighting. It is impossible to change the brightness of LED such as "SACD" and "PCM".

Each time the DIMMER switch is pressed, the display changes as follows Normal light \rightarrow Darker \rightarrow Significantly darker \rightarrow No light \rightarrow Normal light \rightarrow ...

Selection of no light displays "DISPLAY OFF" for 1 second and the sign turns off.

Super Audio CD/CD selection switch/ SACD/CD



When playing back a Hybrid Super Audio CD, this switch is pressed to switch over the playback layer between the HD (or SACD) layer and CD layer.

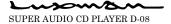
1. During stop, press the SACD/CD switch.

Each time this switch is pressed, the playback layer is switched over between the HD (or SACD) layer and CD layer.

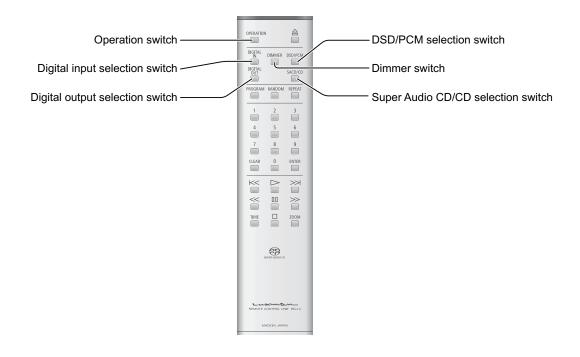
2. When the HD layer is selected, the Super Audio CD (SACD) indicator lights up on the main unit display.

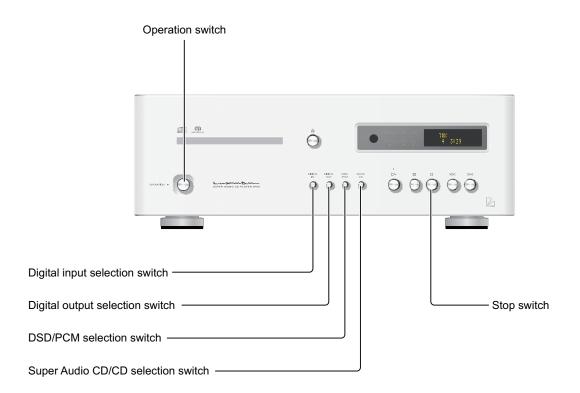
When the CD layer is selected, the CD indicator lights up on the main unit display.

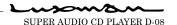
- This setting is activated even when another Hybrid Super Audio CD is loaded.
- When a single layer CD or dual layer CD is loaded, the HD layer is automatically selected.
- This unit does not support SACD multi channel areas.



Detailed Settings







Digital input selection switch / DIGITAL IN





This switch is pressed when using this unit as a D/A converter.

Each time the DIGITAL IN switch is pressed, the display changes as follows. COAXIAL → OPTICAL 1 → OPTICAL 2 → (INTEGRANAL player)

The following sampling frequencies are supported for digital inputs: 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz.

2. The selected input type and sampling frequencies appear on the main unit display.

 The display indicates the content of sampling frequency data included in the channel status which IEC60958 3 (Digital audio interface Part 3: Consumer applications) specifies.

Some output devices may output channel status data whose content is different from the actual sampling frequency. In such a case, the contents of channel status data are indicated on the display instead of the actual sampling frequency.

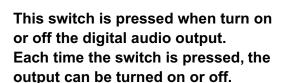
Or some devices or sources may output the sampling frequency data which means "Not to indicate the sampling frequency". In such a case, "UNKOWN" appears on the display.

 There may be a case where the display indicates "LOCK" shortly, and then "UNLOCK". (The reverse case is also possible).

That is because the former state (LOCK/UNLOCK) is indicated for approx. 0.5 seconds since an input signal is changed until the circuit gets stable.

Digital output selection switch / DIGITAL OUT





It is impossible to output the digital audio signal when playing back the HD layer of Super Audio CD.

At this time, the DIGITAL OUT indicator turns off.

It is possible to turn on or off the digital audio output when playing back the CD layer of Hybrid Super Audio CD.

DSD/PCM selection switch / DSD/PCM





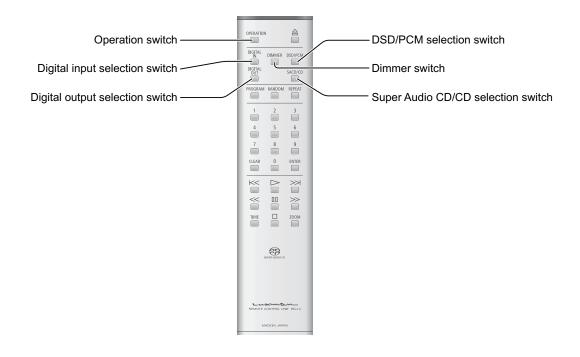
When playing back the HD (or SACD) layer of Super Audio CD, this switch is pressed to select whether to input DSD signals from the disc directly to the D/A converter IC or to convert DSD signals into PCM signals before inputting to the D/A converter IC.

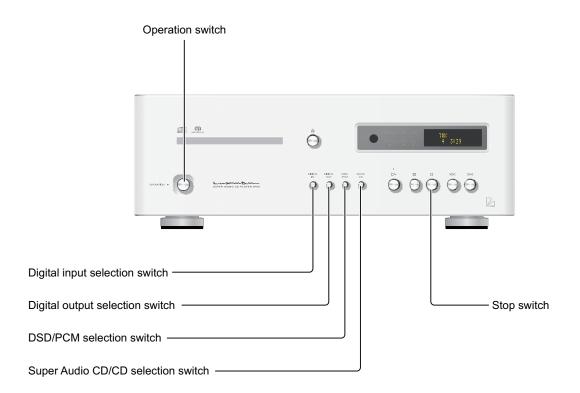
DSD/PCM selection is not functional under the following conditions

- · When playing back a CD
- When playing back the CD layer of Hybrid Super Audio CD
- When a digital input is selected



Detailed Settings







Restore all the settings to the factory defaults.

All the settings are restored to the factory defaults.

- 1. Turn this unit to the standby state.
- Press the OPERATION switch on the main unit while pressing the stop (■) switch on the main unit.

All the settings are restored to the factory defaults.

Item	Setting value
Digital ignort a algoritan	INTERNAL
Digital input selection	(Internal player)
Digital output selection	On
Super Audio CD/CD	Super Audio CD
selection	(SACD)
DSD/PCM selection	DSD
Dimmer adjustment	Normal

Last memory function (Memorization of each setting)

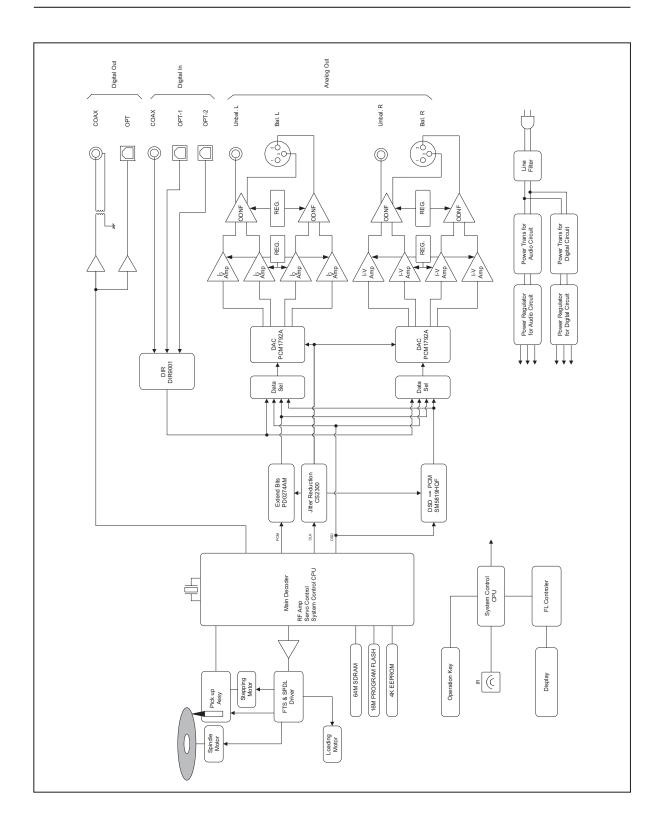
The following are the setting items to be memorized on the flash memory when the unit turns from the operating state to the standby state.

When power is turned off before the unit turns from the operating state to the standby state, it is regarded as the abnormal end. The setting items are restored to the factory defaults when the unit turns to the operating state next time.

Item	Setting value
	INTERNAL
Digital input selection	(Internal player),
	COAXIAL, OPTICAL 1,
	OPTICAL 2
Digital output selection	ON, OFF
Super Audio CD/CD	Super Audio CD
selection	(SACD), CD
DSD/PCM selection	DSD, PCM
	Normal, Darker,
Dimmer adjustment	Significantly darker,
	No light



BLOCK DIAGRAM





Specifications

Format		2-channel Super Audio CD, CD			
Power source		AC 230 V, 50 Hz			
Power consumption		32 W			
		1 W (at standby)			
Weight (Main unit)		22.5 kg			
Dimensions		440 (W) × 154 (H)	440 (W) × 154 (H) × 413 (D) mm		
Ambient operating to	emperature /	+5 °C to +25 °C / I	5 % to 85 % (non co	andonoina)	
Ambient operating h	numidity	+5 0 10 +35 0 7 3	3 % to 63 % (Horr cc	muensing)	
	Output voltage /	UNBALANCE terminal (RCA terminal) 2.5 Vrms/		2.5 Vrms/300 Ω	
	output impedance:	BALANCE termina	al (XLR terminal)	2.5 Vrms/600 Ω	
		For SACD/DSD (-0 5 dB) 2.35 Vi		2.35 Vrms	
	Frequency response:	CD, SACD	5 Hz to 20 kHz	(+0, -0.4 dB)	
		SACD	5 Hz to 50 kHz	(+0, -3 dB)	
	Total harmonic	CD	0.0013 %		
	distortion:	SACD/DSD	0.0017 %		
		SACD/PCM	0.0006 %		
		DIGITAL IN	0.0007 %		
Audio output	S/N ratio:	CD	124 dB		
characteristics		SACD/DSD	104 dB		
		SACD/PCM	120 dB		
		DIGITAL IN	122 dB		
	Dynamic range:	CD	101 dB		
		SACD/DSD	104 dB		
		SACD/PCM	118 dB		
		DIGITAL IN	117 dB		
	Channel separation:	CD	124 dB		
		SACD/DSD	104 dB		
		SACD/PCM	116 dB		
		DIGITAL IN	122 dB		
	Coaxial digital input:		0.2 to 2.5 Vp-p		
Digital input	Optical digital input:		−14.5 to −24 dE	3m	
Digital Input	Sampling frequency:	32 kHz, 44.1 kHz,	48 kHz, 88.2 kHz, 9	96 kHz	
		(16 to 24 bit 2ch P	(16 to 24 bit 2ch PCM at each frequency)		
District and order	Optical digital output:	Optical digital term	inal –15 to –21 dBn	า	
Digital output	Coaxial digital output:	RCA	0.5 Vp-p/75 Ω		

^{*} Design and specifications are subject to change without notice



Before You Ask For Repair Services

While the unit is used, an unusual phenomenon may be confused as a malfunction for a certain reason.

Prior to asking us for repair services, please check the table below and read the instruction manual for the subsidiary devices.

If the cause of malfunction cannot be identified, please make queries to the purchasing store.

Problem	Cause/Solution	Ref. page
Power is not turned on.	Connect the power cable to the AC inlet (AC IN) and the AC outlet frmly.	22
The disc tray comes out even	Set the disc on the disc tray correctly.	24
after the tray is closed.	Clean the disc to remove dirt.	2
Playback cannot be performed.	Clean the disc to remove dirt.	2
	Set the disc on the disc tray correctly.	24
	Remove dew condensation from the interior of this unit.	1
	Put the disc on the tray with the label facing upwards.	
Settings have been erased.	Settings may be erased when electric power failure happens or when power supply is shut down due to power cable disconnection. Be sure to unplug the power cable after pressing the OPERATION switch and the "-STANDBY-" disappears from the display.	46
The remote control cannot be operated.	Operate the remote control within the specifed operating range.	8
	Replace the remote control battery with a new one.	7
	The remote control infrared receiver is exposed to direct sunlight or strong light sources (such as inverter fuorescent lights). Change the installation place or angle to avoid the exposure to light sources.	8
An electronic device such as a television malfunctions.	Some devices equipped with a wireless remote control receiver may malfunction when the remote control of this unit is operated. Keep this unit away from such devices.	8



Problem	Cause/Solution	Ref. page
No sound is generated from the	Confirm that the connections of audio cables are correct.	22
speakers, or sound is distorted.	If a digital output device is connected to this unit, set the setting of digital output to ON.	22
	Clean the disc to remove dirt.	2
	When the output level of an amplifier, etc is minimum, adjust the volume.	
	Confirm that the cable connectors are connected and frmly inserted into the terminals of the unit.	
	Clean the cable connectors and terminals by using alcohol, etc.	22
Digital audio signals cannot be	Set the setting of digital output to ON.	44
output digitally.	It is impossible to output the digital audio signal when playing back the HD layer of Super Audio CD. Select the CD layer.	44
The output levels of SACD and CD are quite different.	This is due to the difference in recording format.	

This unit may not work normally when the unit is subject to external influence such as static electricity. In such a case, the unit can work normally by unplugging the power cable once and plugging it again.

