# LUXMAN

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**SUPER AUDIO CD PLAYER**

## D-06u

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# Owner's Manual

# Contents

# 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. Otherwise, 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.

## Installation place

- 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 any 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.

## How to handle discs

- Do not use any deficient disc (with cracks, warp, etc.).
- Do not damage the signal surface of the disc or grime it.
- Do not place paper or a sticker on the disc. This 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. (Refrain from wiping 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.
- 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.

## 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.

## Lens cleaning

If the lens is dusty, sound skips may take place. Please read "After-sales Services and Quality Assurance" (Page XX) and ask us for cleaning. Do not use any cleaning substance for discs available on the market because they may hurt the lens.

## 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

### 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.

### Analog circuit

Amplifier circuit with improved sound quality drives the outputs from the D/A converters.

### USB input that is applicable to 384kHz / 32 bit

Introduction of a B-type USB input terminal that allows the input of USB digital audio signal from a PC/Mac.

The sampling frequency of up to 384 kHz and 32-bit quantization are applicable.

### USB input DSD supported

DSD format data can be entered from PC/Mac, or the like. Sampling frequencies of 2.8224 MHz/5.6448 MHz is applicable.

### Asynchronous communication supported

The USB input with low jitter has been achieved with USB dedicated DSP by asynchronous communication and PLL.

### Jitter-reduction function

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

## Low phase noise crystal oscillator

This unit uses an oscillator with low noise near the oscillating frequency.

This oscillator provides clocks with less jitter.

## 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, the track number and time information can be displayed in an enlarged manner.

## 4 playback modes

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

## 32 bit digital filter

Thanks to the dedicated digital filter with 32 bit arithmetic processing, inputs of 44.1 kHz/88.2 kHz/176.4 kHz are upsampled to 352.8 kHz and inputs of 48 kHz/96 kHz/192 kHz are upsampled to 384 kHz.

For PCM data, 3 types of digital filters are switchable, and for DSD data, 2 types of analog FIR filters are switchable.

*1  Mac and Mac OS are trademarks of Apple Inc., registered in the U.S. and other countries.

*2  Windows is a registered trademark of Microsoft Corporation in the United States and/or other countries.

*3  DSD is a trademark.

*4  The described company names and product names are trademarks or registered trademarks of each company.

# Features of This Unit

### Digital input terminals

This unit is equipped with a coaxial input terminal and an optical input terminal.

This unit is compatible with S/PDIF format signals between 32 kHz and 192kHz.

Digital inputs (S/PDIF) with low jitter has been achieved with PCM9211 PLL manufactured by Burr-Brown.

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.

### DD converter function

Input of 192 kHz24 bit or less including USB input can be digitally provided in the S/PDIF format.

### Last memory function

Built-in flash memory can memorize settings such as digital input, Super Audio CD/CD, digital filter.

### Dimmer function

The brightness of display 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 an 18 mm pitch RCA terminal with gold plating and a high-grade XLR terminal manufactured by Neutrik allows even a high-performance line cable with large plug to be connected.

### Analog output phase switching

Both balanced output and unbalanced output are phase switchable.

### PCM1792A manufactured by Burr-Brown

For the DAC chip, this unit uses PCM1792A manufactured by Burr-Brown with the right and left independent monaural configuration.

### Introduction of original technologies

Our traditional round pattern board, OFC internal wiring, and original custom-made parts are fully and luxuriously introduced.

### Cast-iron insulator

This unit is equipped with gradation cast-iron insulators that cuts out unnecessary external vibration and strongly supports the weight of this unit.

### Remote control (RD-21)

The remote control is encased in aluminum. Tactile switches will satisfy users with light key touch.

### AC inlet

This high-grade gold plated (nonmagnetic processing) AC inlet allows an external power cable to be connected.

### High-inertia power supply

High-inertia power supply circuit that combines a large-capacity CI-core-type power transformer with customizable 3,300 μF × 7 capacitor blocks.

### Schottky barrier diode

Application of schottky barrier diode manufactured by Nihon Inter Electronics Corporation that has less switching noises and higher conversion efficiency to the DC voltage for the power supply rectifier circuit.

### LUXMAN's original OFC wires

Our original OFC wires are used in the internal wiring to achieve smooth signal transmission thanks to the non-plating process on the core wire.

# 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.

| Marks for types of discs this unit can play back |
|---|
| SACD |
| ![SACD SUPER AUDIO CD] |

| CD | CD-R | CD-RW |
|---|---|---|
| COMPACT disc DIGITAL AUDIO | COMPACT disc DIGITAL AUDIO Recordable | COMPACT disc DIGITAL AUDIO ReWritable |

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This unit can play back 8 cm CDs without using an adapter. Do not use an adapter for 8 cm CDs.

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- 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.
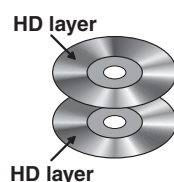
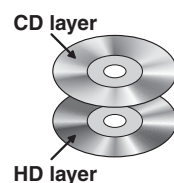## Super Audio CD — 3 types of discs —

### • Single-layer CD

Dummy layer
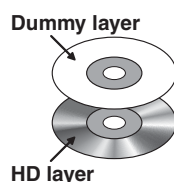
HD layer

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

### • Dual-layer CD

HD layer

HD layer

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

### • Hybrid-layer CD

CD layer

HD layer

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.

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

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**HD layer has the following areas.**
- **2-channel stereo area**
- **Multi-channel area**
- **Extra data area**
  **(For future expansion)**

HD layer
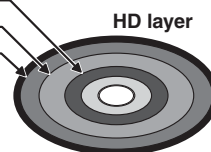
## Comparison of Super Audio CDs with CDs

| 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 stereo area + multi-channel area [1] | 74 minutes |
| 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 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)[3], the maximum recordable time may vary.
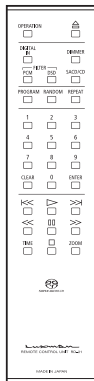
*2 Theoretical value

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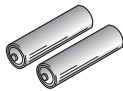
# Before Use

## Check the accessories.

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

- Power cable
- Remote controller (RD-21)



- "AAA" batteries (2 pieces)



- Safety cautions
- Owner's Manual (This document)
- Install software (CD-R)
- Windows-ready USB driver installation manual

## 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 ($\oplus$ and $\ominus$).
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.



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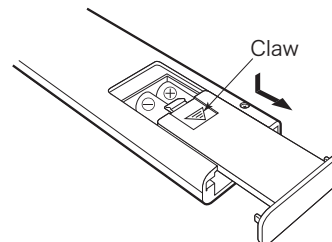
- Do not use a new battery and an old one together.
- There may be a case in which the voltages are different between two batteries even though their shapes are the same. Do not use the batteries of different types together.
- If the remote control is not used for a long time (more than 1 month), the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

## 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° on both sides from the control infrared receiver.
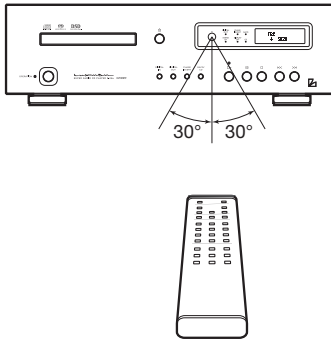


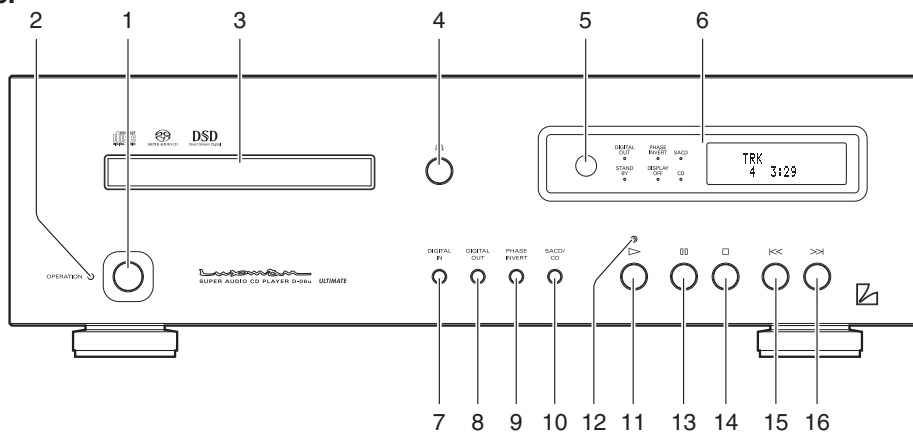Effective distance: approx. 5 meters

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

# Names and Functions

**Front panel**



### 1. Operation switch (OPERATION)

Turns this unit from the standby state to operation state. When the main power switch on the rear panel is turned on to set this unit to the standby state and this switch is turned on, this unit is set to the operation state.

### 2. Operation indicator (OPERATION)

Blinks during warm-up when the operation switch is turned on and lights up when the operation state is activated afterward.

### 3. Disc tray

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

### 4. Open/close switch (⏏)

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

### 5. Remote control infrared receiver (R)

Receives signals from the accessory remote control.

### 6. Display window

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

### 7. Digital input selection switch (DIGITAL IN)

This switch is pressed when using this unit as a D/A converter. Switchover is performed among coaxial, optical, USB, and internal player.

### 8. Digital output selection switch (DIGITAL OUT)

This switch is pressed when turn 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.

## 9. Phase invert changeover switch (PHASE INVERT)

The phase of the analog output on the rear panel is inverted. Both the balanced output and unbalanced output are inverted.

This setting is stored on the flash memory even when the power is turned off.

Every time this switch is pressed, the balanced phase changes as follows: NORMAL→INVERT→NORMAL→INVERT …

[Normal Position]
1. GROUND
2. COLD (–)
3. HOT (+)

[Invert Position]
1. GROUND
2. HOT (+)
3. COLD (–)

## 10. 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.

## 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 (❙❙)

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.
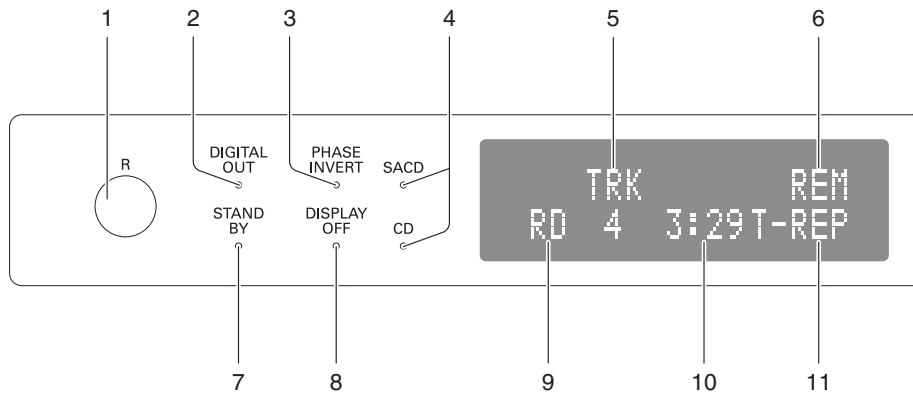
## 15. Previous switch (◀◀)

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

**Display window**



## 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. Phase invert indicator (PHASE INVERT)

Lights up when the analog output phase is inverted, which is caused by pressing the phase invert changeover switch.

[Off]
1. GROUND
2. COLD (–)
3. HOT (+)

[On]
1. GROUND
2. HOT (+)
3. COLD (–)

## 4. 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 the main power switch on the rear panel is turned on and the operation switch is turned off.

When the operation switch is turned on or when the main power switch is turned off, this indicator turns off.

**8. Display off indicator (DISPLAY OFF)**

Lights up when the VFD (vacuum fluorescent display) in the main unit display window is turned off.

**9. Playback mode**

"RD" is displayed during random playback. "PG" is displayed during program playback. This display area does not light up during regular playback.
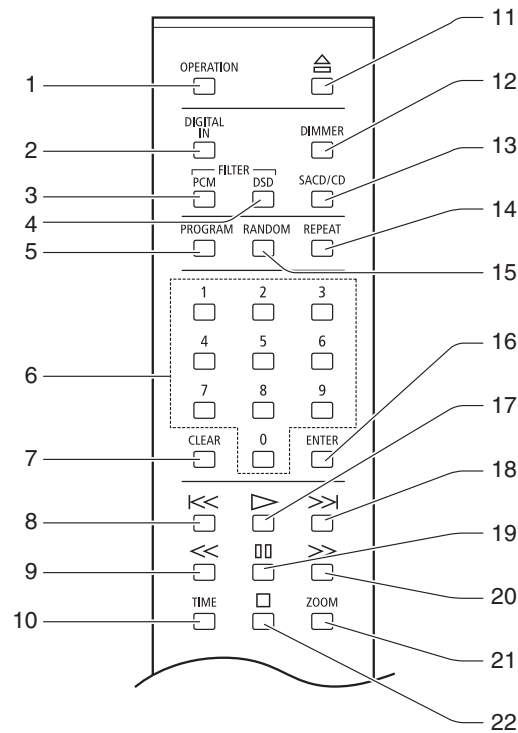
**10. Time**

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.

**11. 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

**Remote control**

```
                    11
    OPERATION    ⏏
1      □         □        12
    DIGITAL      DIMMER
2      IN        □        13
       □  ─FILTER─ SACD/CD
3    PCM   DSD    □       14
       □    □
4   PROGRAM RANDOM REPEAT
5      □     □     □      15

    1     2     3
    □     □     □         16
    4     5     6
6   □     □     □         17
    7     8     9
    □     □     □         18
   CLEAR  0    ENTER
7    □    □     □

    ⏮     ▷    ⏭
8    □    □     □         19
    ◁◁   ⏸    ▷▷
9    □    □     □         20
   TIME   □   ZOOM
10   □    □     □         21

                         22
```

### 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/A converter. Switchover is performed among coaxial, optical, USB, and internal player.

### 3. Digital filter selection switch (FILTER PCM)

This switch changes the interpolation function of the 32 bit digital filter while a CD or PCM data is reproduced.

You can hear a change in sound quality, and therefore, select a filter depending on your taste.

There are 3 types of filters, P-1, P-2, and P-3.

Pressing this switch displays the current setting data (P-1, P-2, P-3) on the display window. Pressing this switch again while the setting data is displayed displays the next setting data. Pressing the enter switch (ENTER) while the setting data is displayed determines the setting data. If the enter switch is not pressed, the digital filter is not changed.

The impulse response of the interpolation function shows the waveform shown in the right page.

This setting is stored on the flash memory even when the power is turned off.

P-1 (normal FIR filter)

P-2 (low latency IIR filter)

P-3 (high attenuation FIR filter)
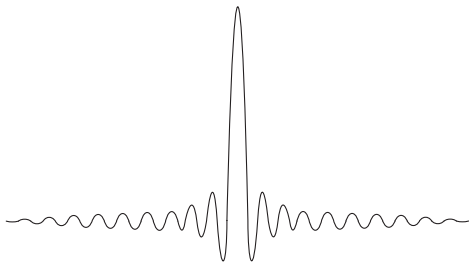
## 4. Analog FIR filter selection switch (FILTER DSD)

This switch changes the analog FIR filter while a Super Audio CD (HD layer) or a DSD file is reproduced.

You can hear a change in sound quality, and therefore, select a filter depending on your taste. There are 2 types of filters, D-1 and D-2.
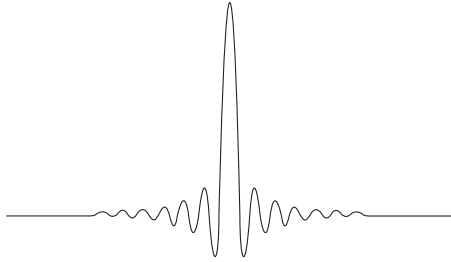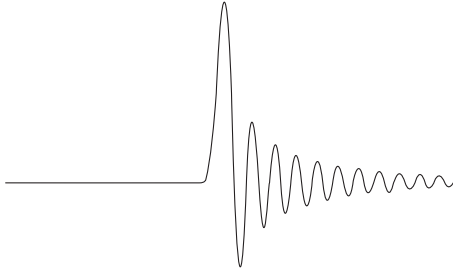
Pressing this switch displays the current setting data (D-1, D-2) on the display window.

Pressing this switch again while the setting data is displayed displays the next setting data.

Pressing the enter switch (ENTER) while the setting data is displayed determines the setting data.

If the enter switch is not pressed, the filter is not changed.

The analog FIR filter features the following:

D-1 (normal analog FIR filter)

D-2 (high attenuation analog FIR filter)

# Names and Functions

**Remote control**
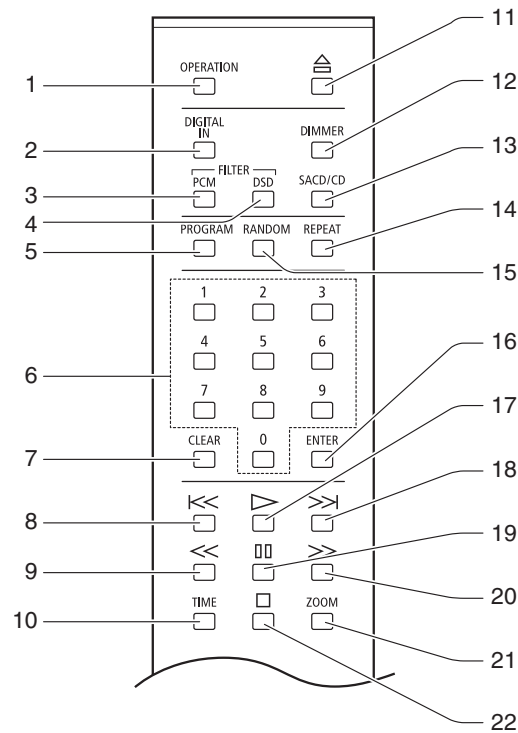


## 5. Program switch (PROGRAM)
Programs the track numbers to play back in a desired order.
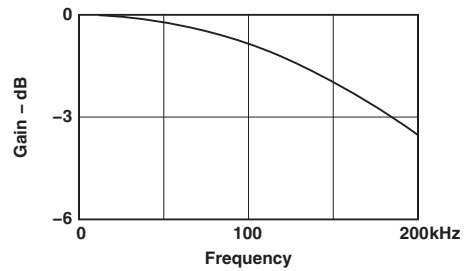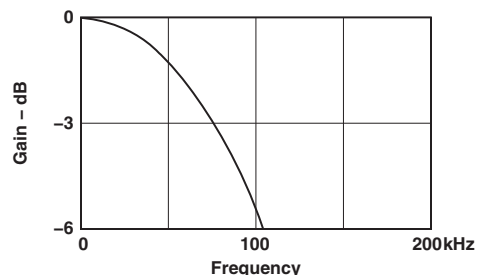
## 6. Numeric keys (1, 2, 3, 4, 5, 6, 7, 8, 9, 0)
These keys are pressed to specify the track numbers for direct search or program.

## 7. Clear switch (CLEAR)
This switch is pressed to cancel the program settings.

## 8. 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.

## 9. Rewind switch (◀◀)
When this switch is played during playback, audio is re-wound.

## 10. 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.

## 11. Open/close switch (⏏)
This switch is pressed when opening or closing the disc tray.

## 12. Dimmer switch (DIMMER)
Adjusts the brightness of the main unit display. The brightness can be adjusted in 4 steps from light off to light.

## 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 playback 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 (॥)**

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.
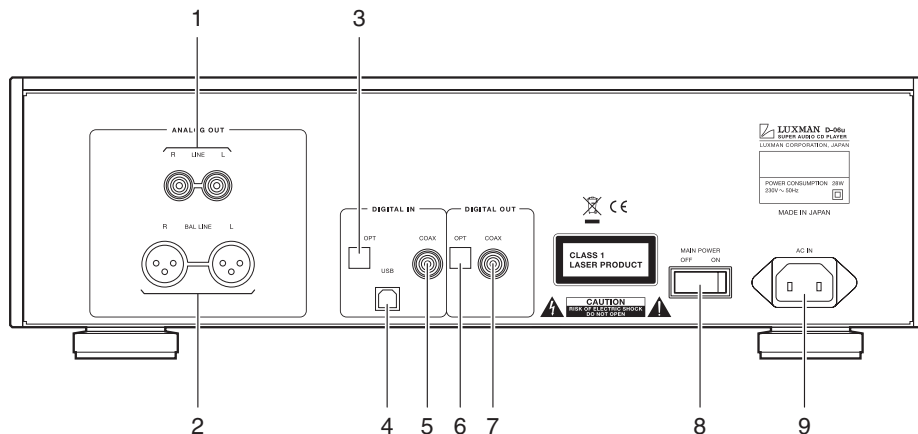
**21. Zoom switch (ZOOM)**

When this switch is pressed during playback, the track number and time are displayed in an enlarged manner.

**22. Stop switch (□)**

This switch is pressed to stop playback.

# Names and Functions

**Rear panel**



## 1. Analog unbalance output terminals (LINE)

Coaxial output terminals to provide unbalanced playback signals of this unit

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

The phase can be switched with the analog output phase selection switch (PHASE INVERT) on the front panel.

## 2. Analog balance output terminals (BAL LINE)

Cannon connector output terminal to provide balanced playback signals from this unit

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

The following are the phases of the output terminals of this unit:

[Normal Position]

    1. GROUND

    2. COLD (–)

    3. HOT (+)

[Invert Position]

    1. GROUND

    2. HOT (+)

    3. COLD (–)

## 3. Optical digital input terminal (OPT)

When using this unit as a D/A converter, transmit digital signals from a CD player or the like that has a digital output terminal to this unit using an optical digital cable.

The terminal is applicable to the following signals.

Sampling frequency : 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz

Number of quantization bits: 16bit, 20bit, 24bit

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. USB digital input terminal (USB)

This is a USB (B-type) input terminal used for the digital input signal from such device as a PC/Mac using a USB cable.

The terminal is applicable to the following signals.

• PCM signal

Sampling frequency : 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz, 352.8kHz, 384kHz

Number of quantization bits: 16bit, 24bit, 32bit

• DSD signal

Sampling frequency : 2.8224MHz, 5.6448MHz

Number of quantization bits: 1bit

When the OS is Windows, the dedicated driver software needs to be installed.

Read the separate software installation manual.

## 5. Coaxial digital input terminal (COAX)

When using this unit as a D/A converter, transmit digital signals from a CD player or the like that has a digital output terminal to this unit using a coaxial digital cable.

The terminal is applicable to the following signals.

Sampling frequency : 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz

Number of quantization bits: 16bit, 20bit, 24bit

## 6. 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. When a Super Audio CD (HD layer selected) or a DSD file is reproduced, a digital audio output cannot be not provided. When the PCM data of 32 kHz, 352.8 kHz, or 384 kHz sampling frequency is reproduced, a digital audio output cannot be provided.

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.

## 7. Coaxial digital output terminal (COAX)

Connect this terminal to such device as an amplifier that has a digital input terminal using an coaxial digital cable. When a Super Audio CD (HD layer selected) or a DSD file is reproduced, a digital audio output cannot be not provided. When the PCM data of 32 kHz, 352.8 kHz, or 384 kHz sampling frequency is reproduced, a digital audio output cannot be provided.

## 8. Main power switch (MAIN POWER)

Turns this unit to the standby state.

When this switch is set to ON, the standby indicator on the front panel lights up to show that this unit turns to the standby state.

When this switch is set to OFF, the standby indicator on the front panel turns off to show that the main power is turned off.

## 9. Power cable terminal (AC IN)

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

# Connections



DVD PLAYER

PC／Mac

CD/SACD PLAYER

* When the OS is
  Windows, the dedicated
  driver software needs to
  be installed.

(C)

(A)

(B)

ANALOG OUT

DIGITAL IN

DIGITAL OUT

D/A CONVERTER

L R

L R

L R

(D)

(E)

(F)

PRE MAIN AMP

PRE AMP

CD PLAYER

**(Equipped with digital input terminals)**
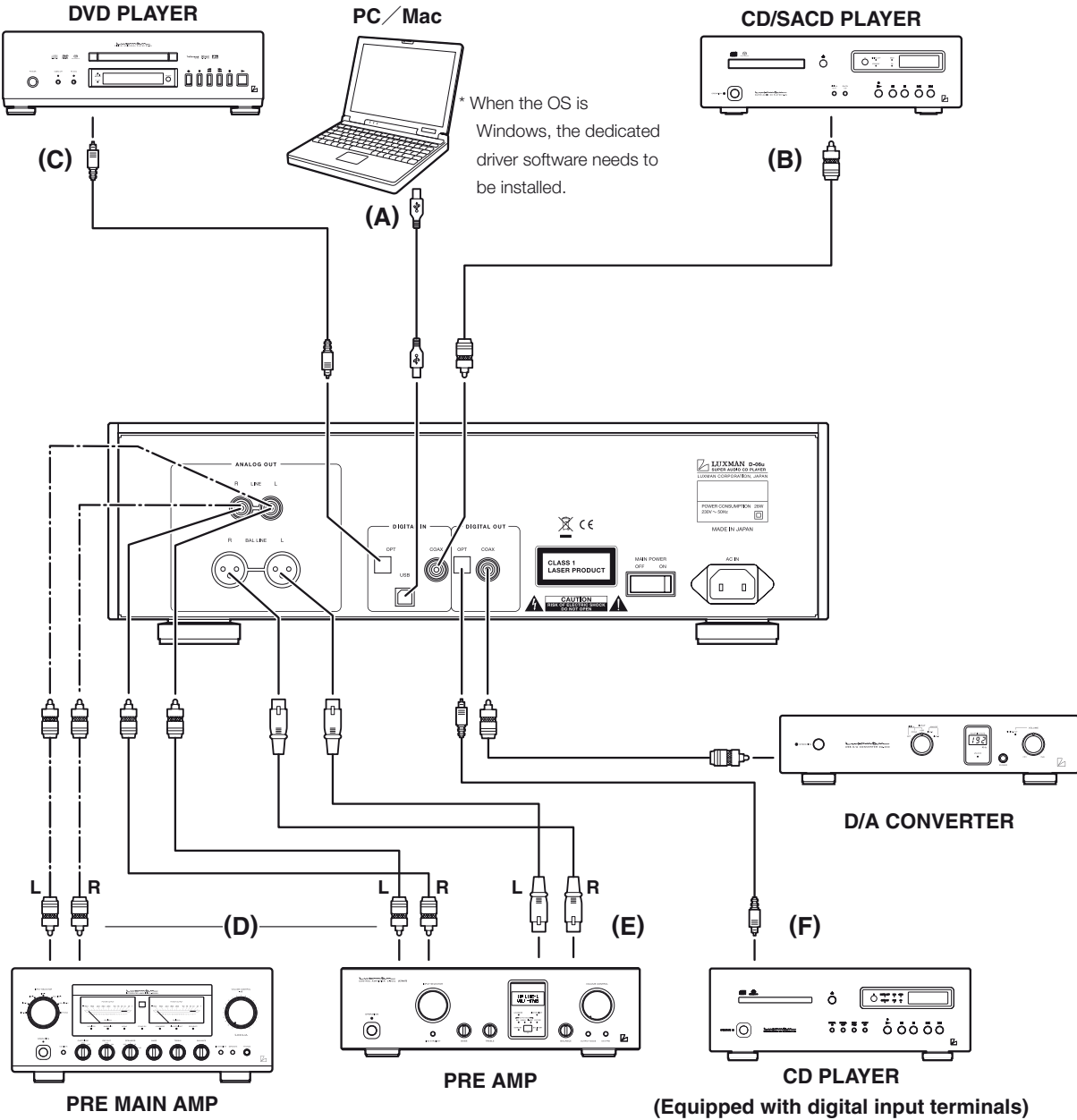
## Before Connecting

Before connecting other devices, connect the jack side of the accessory power cable to the AC inlet of this unit.

**When connecting, turn off the power supply of this unit and the power supplies of auxiliary devices to prevent unexpected accidents that may be caused by noise.**

## How to connect power supply

Use the accessory power cable and insert the AC plug in an outlet on the wall in the room where the unit will be installed.

## How to connect input devices

### 1. Digital connection from a PC/Mac (Refer to "A" in the connection diagram.)

Connect between the USB terminal (A-type) of the PC/Mac and the USB terminal (B-type) of this unit with a USB cable. When the OS is Windows, this unit is not automatically recognized. The dedicated driver software needs to be installed. Read the separate software installation manual. With Mac, this unit is automatically recognized.

### 2. Digital connection from such device as a CD player (Refer to "B" and "C" in the connection diagram.)

Connect between the (coaxial or optical) digital output terminal of a CD player, an SACD player, a DVD player, and other such devices and the digital input terminal (COAX/OPT) of this unit with a coaxial digital cable and an optical 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

## How to connect output devices

### 1. Unbalanced connection with such device as a pre-main amplifier (Refer to "D" in the connection diagram.)

Connect between the analog unbalance output terminals (LINE) of this unit and the unbalance input terminals of such device as a pre-main amplifier with 2 (R and L) pin-plug cables.

### 2. Balanced connection with such device as a pre-amplifier (Refer to "E" in the connection diagram.)

Connect between the analog balance output terminals (BAL LINE) of this unit and the balance input terminals of such device as a pre-main amplifier with 2 (R and L) XLR balanced cables.

### 3. Digital output to such device as another D/A converter (Refer to "F" in the connection diagram.)

Connect between digital output terminal (COAX/OPT) of this unit and such devices as a D/A converter and a CD player equipped with digital input terminals with a coaxial digital cable or an optical digital cable.

# How to Play Back Discs

**Playback a disc.**

Remote control • Main unit
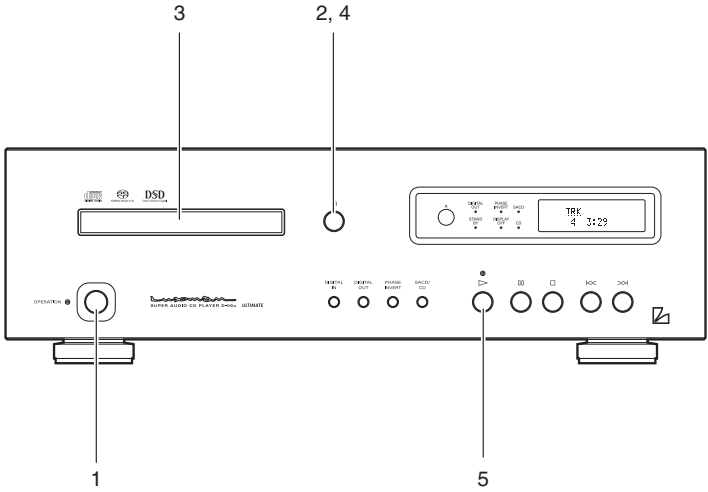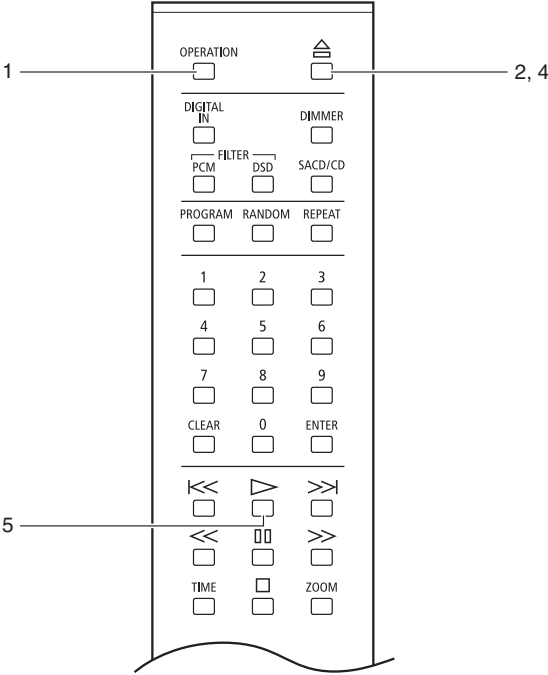
1. **Press the OPERATION switch.**
   "-OPERATION-" appears on the display. When the indication disappears, the unit becomes operable.

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 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 (⏏) switch, and press the ENTER switch or play (▷) switch.
   Operation switches and numeric keys are not functional during the period from disc loading to displaying of disc type. Specifying the next operation, for example specifying the number of tracks beforehand, can shorten the time before playback start.

5. **Press the play (▷) switch.**

# Stop/pause the Playback

Operation switch

Open/close switch (⏏)

DIGITAL IN    DIMMER

FILTER
PCM    DSD    SACD/CD

PROGRAM    RANDOM    REPEAT

1    2    3

4    5    6

7    8    9

CLEAR    0    ENTER

Play switch (▷)

Pause switch (❚❚)

Stop switch (☐)

TIME    ZOOM

Operation switch

Open/close switch (⏏)

Play switch (▷)

Stop switch (☐)
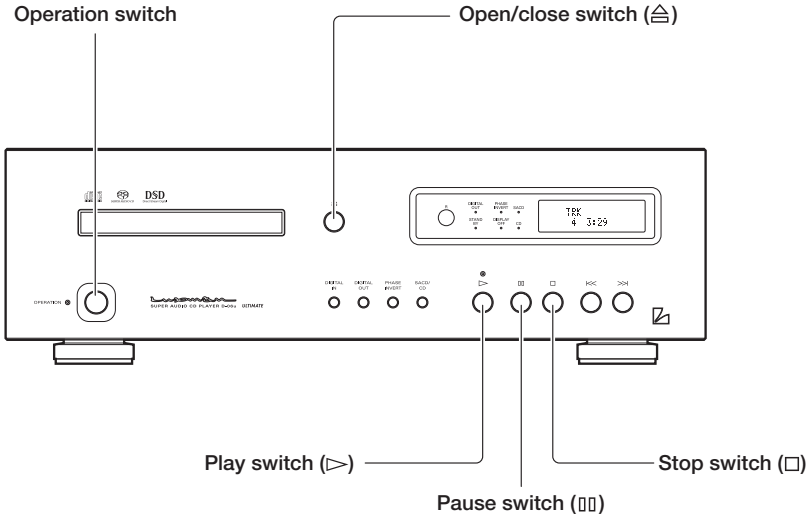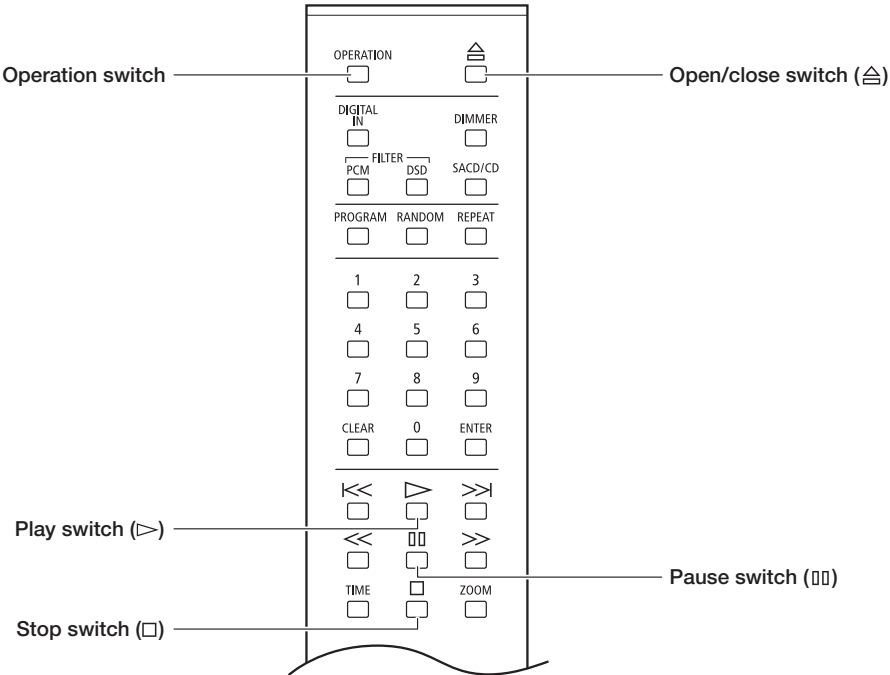
Pause switch (❚❚)

## Pause/stop the playback of the disc.

Remote control ● Main unit

### How to pause playback
**1. Press the pause (❙❙) switch.**

During pause, the play indicator blinks.

### Resumes the regular playback.
**2. During pause, press the play (▷) or pause (❙❙) switch.**

### Stop the playback.

During playback, press the stop (□) switch.

---

This unit retrieves the disc information and then displays the track number and time information at the first stop of disc playback to shorten the time between disc loading and playback start. The CD indicator or SACD indicator is blinking while this unit retrieves the disc information.

Thus, key operation cannot be accepted for several seconds only at the 1st stop of disc playback. In such a case, wait for a while before key operation.

---

### 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.**

"-STANDBY-" appears on the display, and the STANDBY indicator lights up.
To turn off the power completely, the main power switch on the rear panel needs to be turned off.

# Skip/Fast-forward/Rewind



Previous switch ($\lvert\ll$)

Play switch ($\rhd$)

Rewind switch ($\ll$)

Next switch ($\gg\rvert$)

Fast-forward switch ($\gg$)



Play switch ($\rhd$)

Previous switch ($\lvert\ll$)
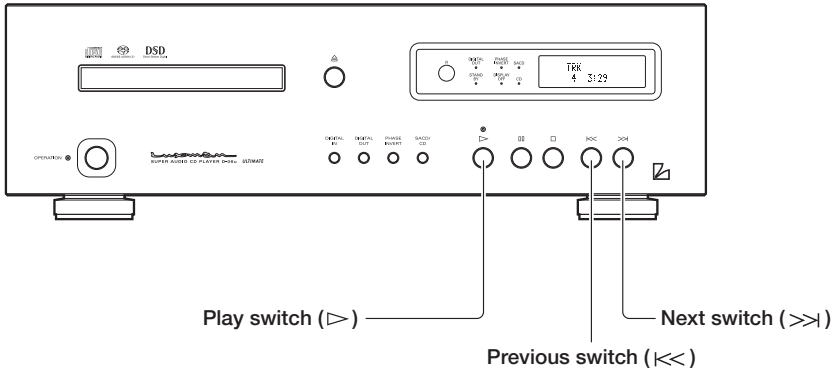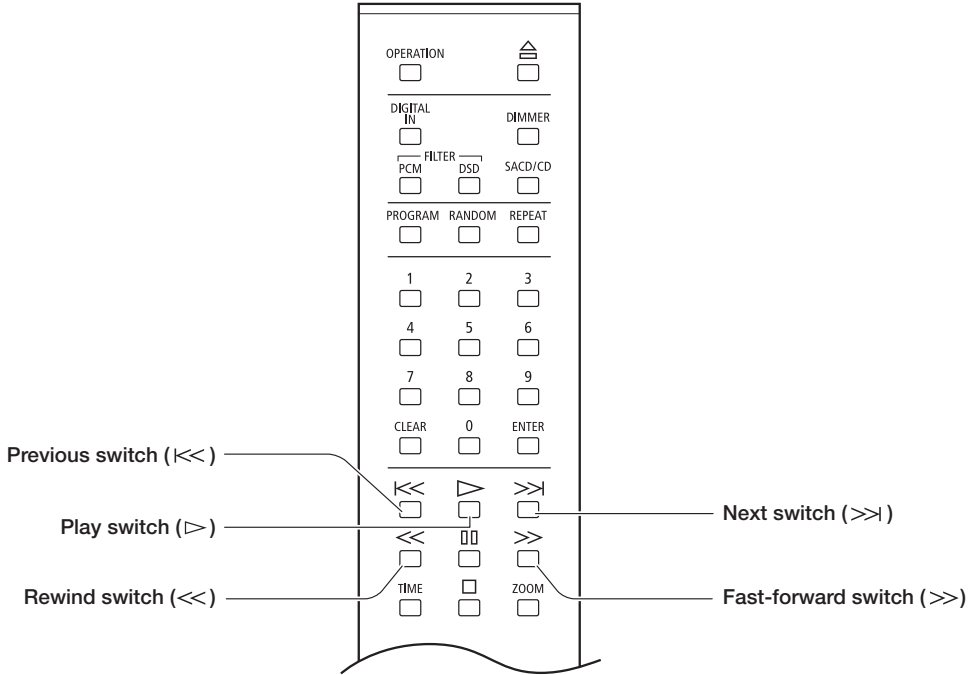
Next switch ($\gg\rvert$)

## Skips to the desired track. (Skip playback)

`Remote control` • `Main unit`

### 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 playback 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)

`Remote control`

### Fast-forward the playback.
1. **During playback, press the fast-forward (≫) 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 fast-forward state and speed.

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

### Rewind the playback.
1. **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 SACDs, the first track may not be Track 1.

# Direct search/repeat playback

Numeric keys ―――

Repeat switch
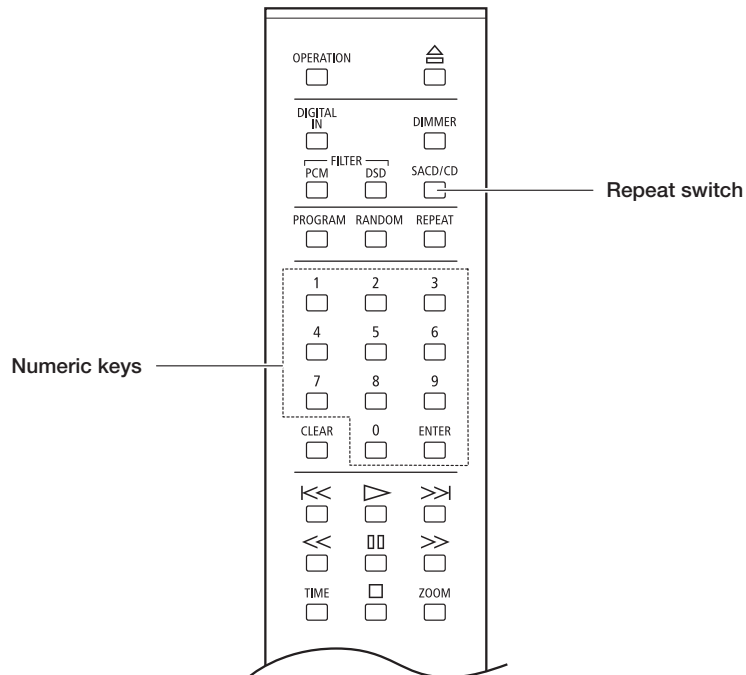
## Specify the desired track for playback

Remote control

**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 the playback.
(Repeat playback)**

Remote control

**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 the track repeat.**

3. **When this switch is pressed twice again, the track repeat is canceled.**
   All 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 the all repeat.**

3. **When this switch is pressed once again, the track repeat is canceled.**
   All repeat is also canceled when the disc is stopped.

```
    ┌──────────────────────────┐
    │  Track repeat "T-REP"    │◄──┐
    └──────────────────────────┘   │
              │                     │
              ▼                     │
    ┌──────────────────────────┐   │
    │   All repeat "A-REP"     │   │
    └──────────────────────────┘   │
              │                     │
              ▼                     │
    ┌──────────────────────────┐   │
    │      Repeat OFF          │───┘
    └──────────────────────────┘
```

# Program Playback



OPERATION ⏏

DIGITAL
IN     DIMMER

FILTER
PCM  DSD  SACD/CD

1 — PROGRAM RANDOM REPEAT

1  2  3
2, 4 — 4  5  6
7  8  9

CLEAR switch — CLEAR  0  ENTER — 3, 5
— 6

|◁◁  ▷  ▷▷|

◁◁  ||  ▷▷

TIME  □  ZOOM
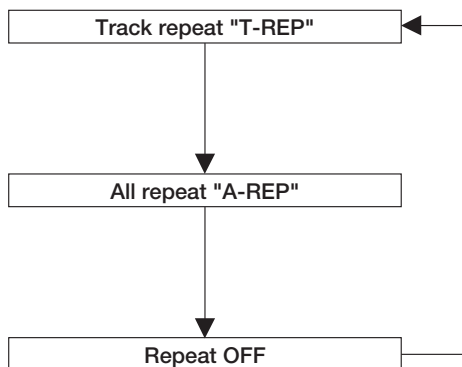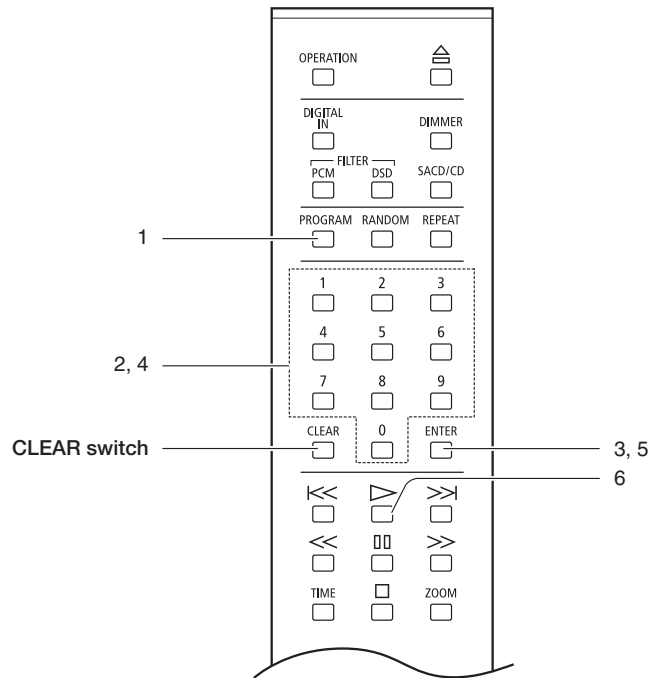
**Play back the tracks in a programmed order. (Program playback)**

Remote control

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

1. **During stop, press the PROGRAM switch.**
   The following indication appears on the display.

   ```
              T-TIME
     PG 00  00:00
   ```
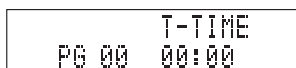
2. **Enter a desired track number by pressing numeric keys of the remote control.**
   For example, when selecting the 5th track, press the "5" key.

   ```
     PG 01        5
   ```
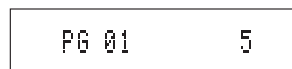
3. **Press the ENTER switch.**
   The order of the track is determined, and then track number and total time appear on the display.

   ```
              T-TIME
     PG 01  01:28
   ```

**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
```

**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 the desired tracks by repeating Step 2 and 3.

**6. Press the play (▷) switch.**

```
     TRK
 PG  5   1:25
```

---
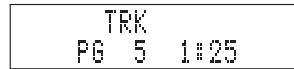
- When pressing the CLEAR switch during stop, all the program is deleted.
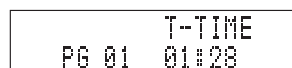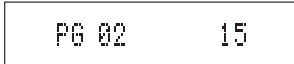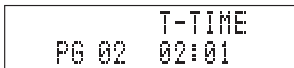- When pressing the PROGRAM switch, and then the CLEAR switch during stop, the tracks will be deleted in the reverse order.
- It is impossible to program pause.
- When pressing the REPEAT switch during program playback, programmed all repeat is performed.
- Track repeat is not available during program playback.
- When pressing the next (▷▷|) switch during program playback, the playback jumps to the track programmed next.
- To perform the program playback again, press the PROGRAM switch during stop, and then the play (▷) switch.

---

Procedure

```
┌─────────────────────┐
│      PROGRAM        │
└─────────────────────┘
          │
          ▼
┌─────────────────────┐
│   Track number      │◄───┐
└─────────────────────┘    │
          │                │
          ▼                │
┌─────────────────────┐    │
│      ENTER          │────┘
└─────────────────────┘
          │
          ▼
┌─────────────────────┐
│      PLAY           │
└─────────────────────┘
```
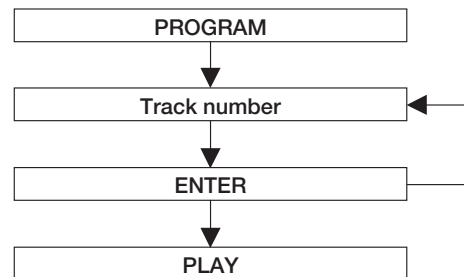
# Random playback/disc information/zoom



RANDOM switch

TIME switch
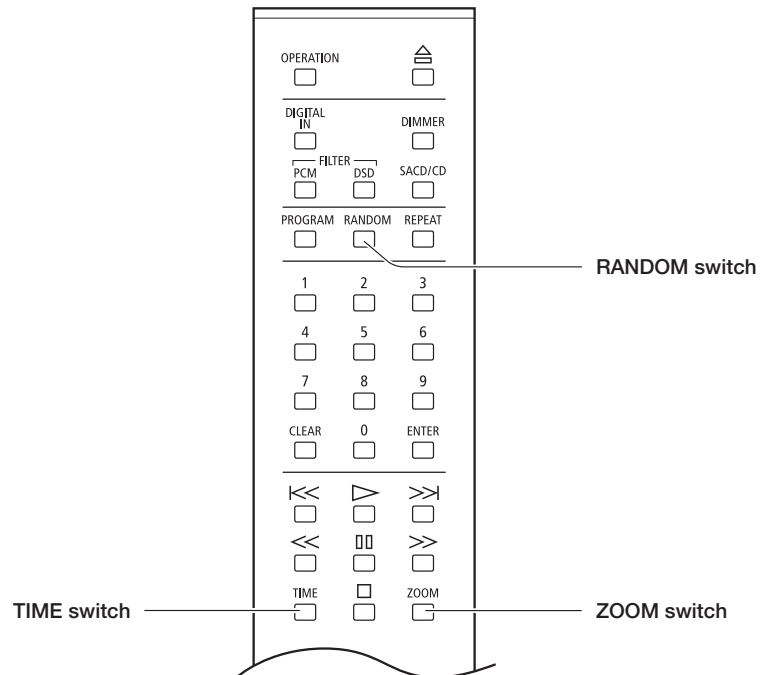
ZOOM switch

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

Remote control

**Each track is selected from all the tracks and is played back once.**

**1. Press the RANDOM switch.**

**2. "RD" appears on the display to indicate the 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 (⊳⊳I) switch during random playback, the next track is randomly selected and played back. When pressing the previous (I⊲⊲) switch, the playback returns to the beginning of current track.

## Disc information

Remote control

**Switch the time display during playback.**

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

1.  **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.**

| Elapsed time "TRK" |
| --- |

| Remain "TRK", "REM" |
| --- |

| Total remain "T-REM" |
| --- |
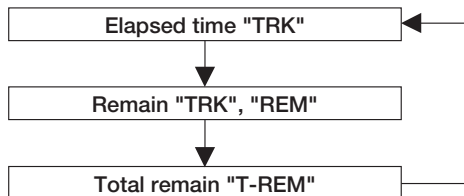
## Zoomed display

Remote control

**Enlargement of displayed characters**
1.  **When the ZOOM switch is pressed, the track number and time are displayed in an enlarged manner.**

2.  **When the ZOOM switch is pressed once again, the display returns to the normal state.**

Normal display
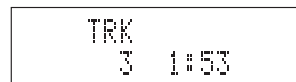
```
 TRK
   3  1:53
```

Zoomed
display

```
  3    1:53
```

# Detailed Settings

Operation switch

Digital input selection switch

Digital filter selection switch

Analog FIR filter selection switch

Dimmer switch

Super Audio CD/CD selection switch

Operation switch

Digital input selection switch

Digital output selection switch

Phase invert changeover switch

Super Audio CD/CD selection switch

Stop switch

### Dimmer switch (DIMMER)

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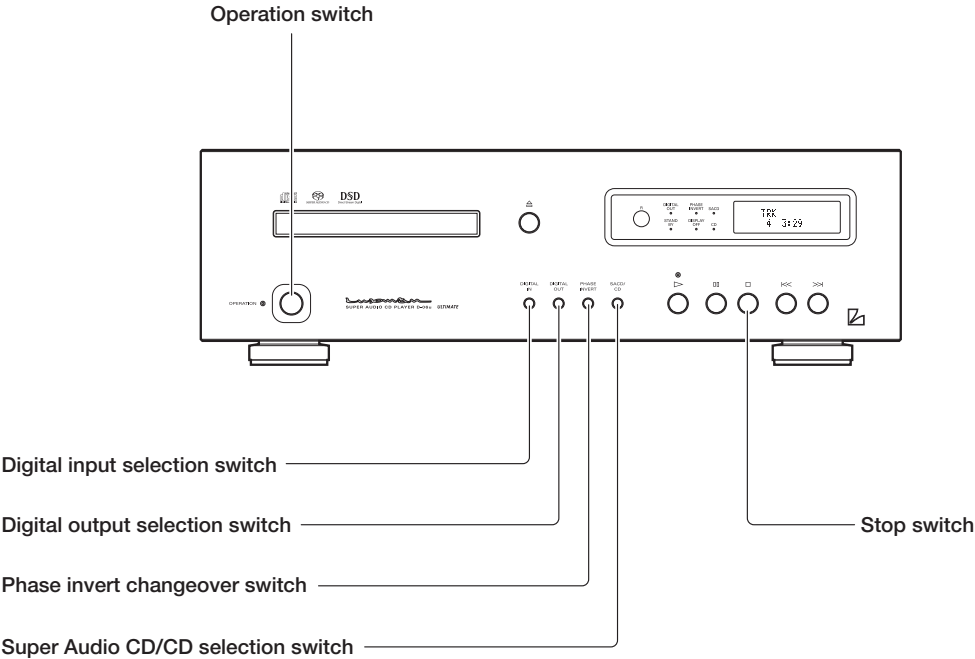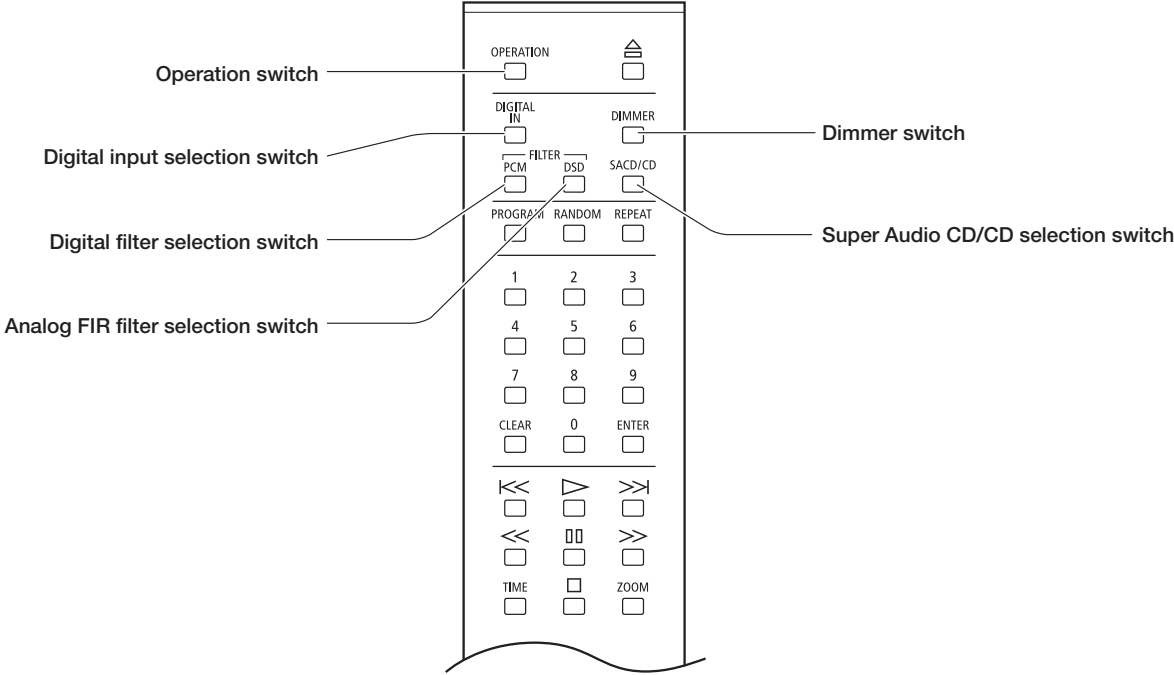
**The brightness of the main unit display can be adjusted. The brightness can be adjusted in 4 steps from no light to normal lighting .**

Each time the DIMMER switch is pressed, the display changes as follows. Normal light → dim → very dim → light off → Normal light …

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

The brightness of LED indicators such as "SACD" and "DIGITAL OUT" cannot be changed.

### Super Audio CD/CD selection switch/ SACD/CD

Remote control ● Main unit

**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.**

**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.

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
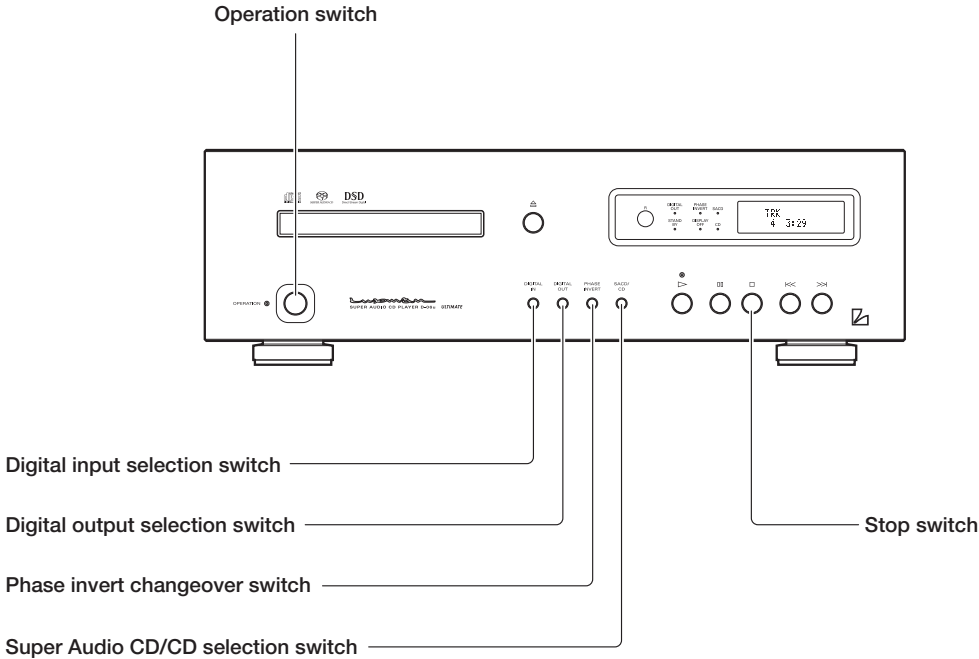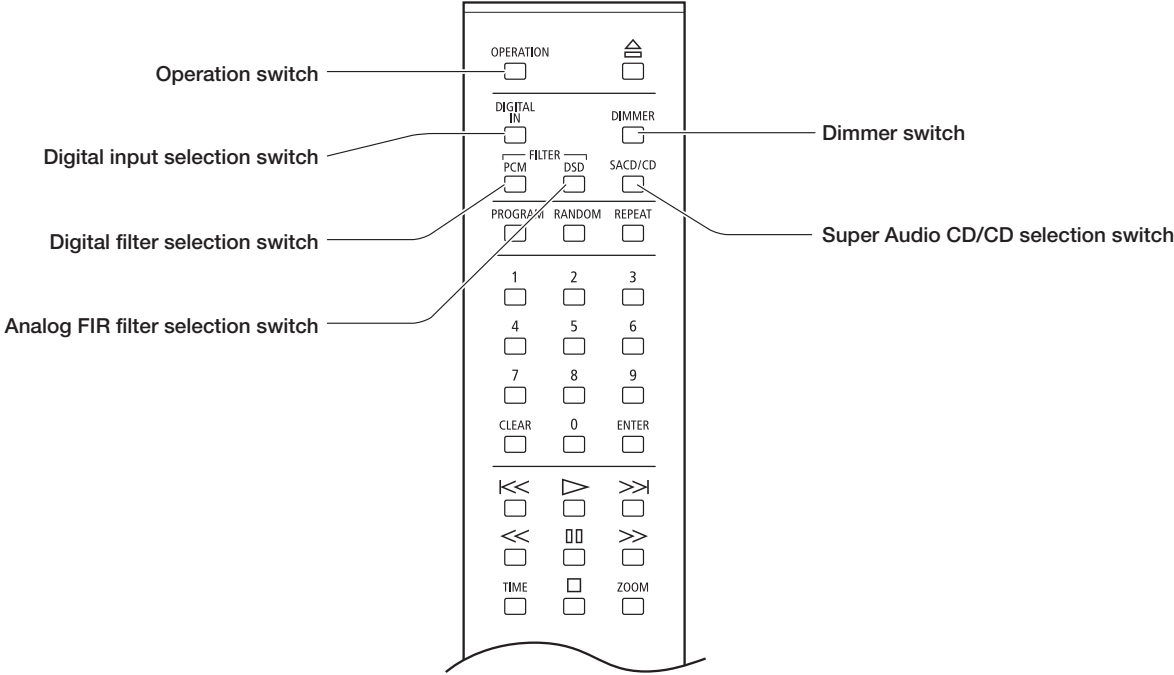
Operation switch

Digital input selection switch

Digital filter selection switch

Analog FIR filter selection switch

Dimmer switch

Super Audio CD/CD selection switch

Operation switch

Digital input selection switch

Digital output selection switch

Phase invert changeover switch

Super Audio CD/CD selection switch

Stop switch

**Digital input selection switch (DIGITAL IN)**

Remote control • Main unit

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

**1. Each time the DIGITAL IN switch is pressed, the display changes as follows. COAXIAL→ OPTICAL → USB → INTERNAL (Internal player)**

The coaxial and optical inputs are applicable to the following signals.

Sampling frequency : 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz

Number of quantization bits: 16bit, 20bit, 24bit

The USB input is applicable to the following signals.
• PCM signal

Sampling frequency : 32kHz, 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz, 352.8kHz, 384kHz

Number of quantization bits: 16bit, 24bit, 32bit
• DSD signal

Sampling frequency : 2.8224MHz, 5.6448MHz

Number of quantization bits: 1bit

When the OS is Windows, the dedicated driver software needs to be installed.

Read the separate software installation manual.

**2. The selected input type and sampling status are displayed on the main unit display window.**

This sampling frequency and bit count of the digital signal are displayed, which is connected to the input terminal (COAX/OPT/USB) selected with the digital input selection switch. When one of COAX/OPTICAL/USB is selected using the digital input selection switch and the digital signal from each digital device and this unit are synchronized, the sampling frequency and bit count of the digital signal are displayed.

When a digital signal input is not provided or the signal is not synchronized even if the signal input is provided, "UNLOCK" is displayed.

When USB is selected, only the sampling frequency is displayed. The bit count is not displayed.

• The bit count (word length) indicates the contents of the word length data included in the channel status which is specified in IEC60958-3 (digital audio interface - Part 3: consumer applications).

Some output devices may provide channel status data (word length data) whose content is different from the actual word length. In such a case, the contents of the channel status data are indicated on the display instead of the actual bit count.

Alternatively, some devices or sources may provide the data that states "the word length is not specified". In such a case, the bit count is not displayed.

• 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, which please note.

# Detailed Settings
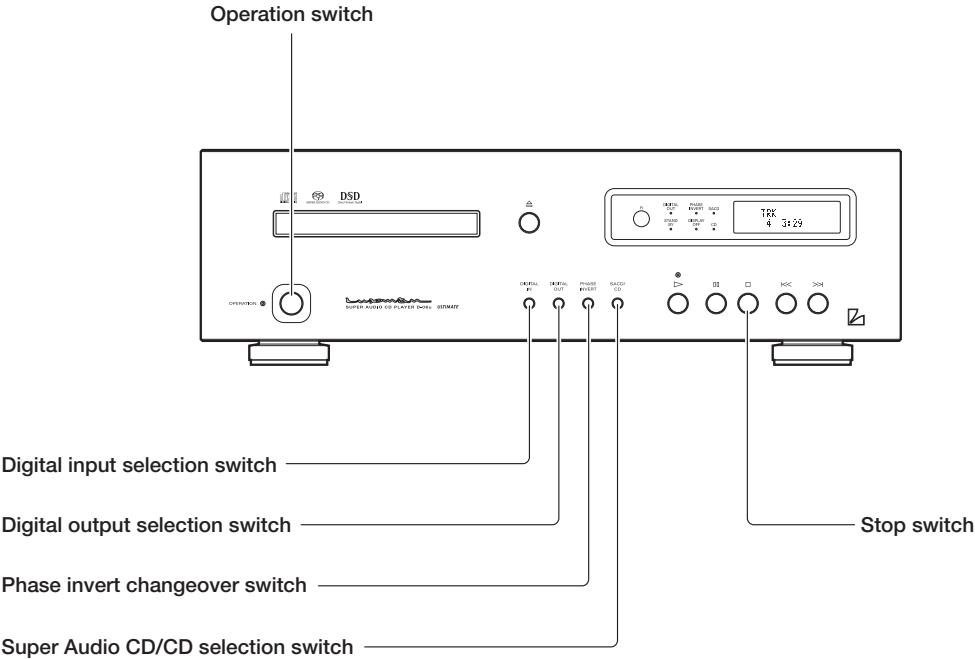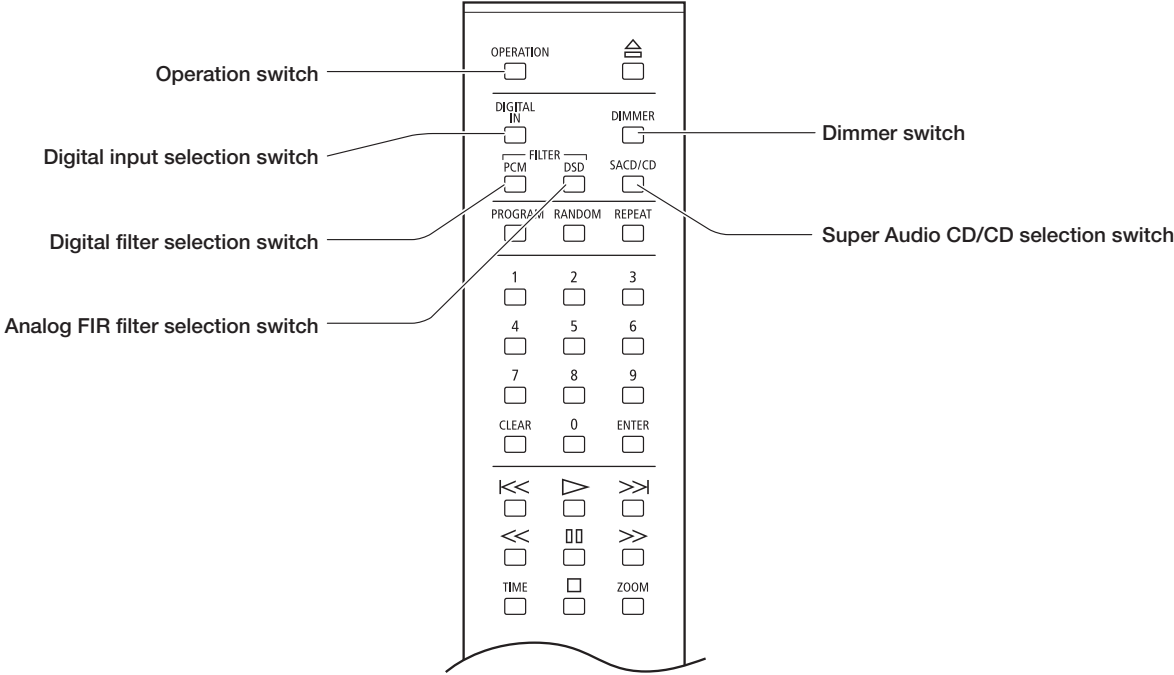
Operation switch

Digital input selection switch

Digital filter selection switch

Analog FIR filter selection switch

Dimmer switch

Super Audio CD/CD selection switch

Operation switch

Digital input selection switch

Digital output selection switch

Phase invert changeover switch

Super Audio CD/CD selection switch

Stop switch

## Digital output selection switch (DIGITAL OUT)



## This switch is pressed when turn on or off the digital audio output. Each time the switch is pressed, the output can be turned on or off.

When the HD layer of a Super Audio CD or a DSD file is reproduced, a digital audio output cannot be provided. 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.

When the PCM data of 32 kHz, 352.8 kHz, or 384 kHz sampling frequency is reproduced, a digital audio output cannot be provided.

## Phase invert changeover switch (PHASE INVERT)



The phase of the analog output on the rear panel is inverted. Both the balanced output and unbalanced output are inverted.

This setting is stored on the flash memory even when the power is turned off.

Every time this switch is pressed, the balanced phase changes as follows: NORMAL→INVERT→NORMAL→INVERT …

[Normal Position]
    1. GROUND
    2. COLD (–)
    3. HOT (+)

[Invert Position]
    1. GROUND
    2. HOT (+)
    3. COLD (–)

## 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.
2. 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 | Default |
|---|---|
| Digital input selection | INTERNAL (Internal player) |
| Digital output selection | On |
| Super Audio CD/CD selection | Super Audio CD (SACD) |
| Phase invert changeover | Normal |
| Dimmer adjustment | Normal |
| Digital filter PCM | P-1 |
| Analog FIR filter DSD | D-1 |
| Zoomed display | Off |

## Last memory function (Memorization of each setting)

The following are the setting items to be memorized on the flash memory.

When the power is turned off immediately after setting change, the setting data may not be successfully memorized.

| Item | Default |
|---|---|
| Digital input selection | INTERNAL (Internal player), COAXIAL, OPTICAL, USB |
| Digital output selection | ON, OFF |
| Super Audio CD/CD selection | Super Audio CD (SACD), CD |
| Phase invert changeover | Normal/Invert |
| Dimmer adjustment | Normal, dim, very dim, light off |
| Digital filter PCM | P-1, P-2, P-3 |
| Analog FIR filter DSD | D-1, D-2 |
| Zoomed display | ON, OFF |

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# Block Diagram

# Specifications

| | | |
|---|---|---|
| **Format** | 2-channel Super Audio CD, CD | |
| **Power supply** | 230 V ~ (50 Hz) | |
| **Power consumption** | 29 W<br>1 W (at standby) | |
| **Weight** | 15.7 kg (main unit only) | |
| **Max. external dimensions** | 440 (W) x 133 (H) x 410 (D) mm<br>(front side knob of 2 mm and rear side terminal of 8 mm included in depth) | |
| **Ambient operating temperature /<br>Ambient operating humidity** | +5 °C to +35 °C / 5 % to 85 % (non condensing) | |
| **Audio output characteristics** | Output voltage / output impedance: | UNBALANCE terminal (RCA terminal)  2.5 Vrms/300Ω<br>BALANCE terminal (XLR terminal)    2.5 Vrms/600Ω<br>For SACD/DSD (–0.5 dB)                    2.35 Vrms |
| | Frequency response: | CD, SACD      5 Hz to 20 kHz (+0, –0.5 dB)<br>SACD/USB     5 Hz to 50 kHz (+0, –3 dB) |
| | Total harmonic distortion: | CD               0.0015 %<br>SACD          0.0011 %<br>COAX/OPT   0.0009 %<br>USB             0.0009 % |
| | S/N ratio: | CD               122 dB<br>SACD          104 dB<br>COAX/OPT   123 dB<br>USB             123 dB |
| | Dynamic range: | CD               100 dB<br>SACD          104 dB<br>COAX/OPT   123 dB<br>USB             123 dB |
| | Channel separation: | CD               110 dB<br>SACD          103 dB<br>COAX/OPT   124 dB<br>USB             124 dB |
| **Digital input** | Coaxial digital input: | 0.2 to 2.5 Vp-p |
| | Optical digital input: | –14.5 to –21 dBm |
| | USB input: (Applicable OS) | Microsoft Windows Vista or later, Mac OS X10.7 or later |
| | Sampling frequency: | OPT/COAX   : 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz<br>96 kHz, 176.4 kHz, 192 kHz<br>(16 bit, 20 bit, 24 bit)<br>USB input    : 32 kHz, 44.1 kHz, 48 kHz, 88.2 kHz<br>96 kHz, 176.4 kHz, 192 kHz, 352.8 kHz<br>384 kHz (16 bit, 24 bit, 32 bit)<br>2.8224 MHz, 5.6448 MHz (1 bit) |
| **Digital output** | Coaxial digital output: | RCA terminal 0.5 Vp-p/75Ω |
| | Optical digital output: | Optical digital terminal –15 to –21 dBm |

\* Specifications and appearance are subject to change without notice.

# Before Asking for Repair

While the unit is used, an unusual phenomenon may be confused as a malfunction for a certain reason. Prior to asking us for our official sole distributor of your country, please check the table below and read the instruction manual. If the cause of the malfunction cannot be identified, please contact your dealer. When we have once accepted your request for repair services, inspection fees and traveling expenses may be claimed even though the unit is found to be normal.

| Problem | Cause/Solution | Ref. page |
|---|---|---|
| No power is supplied even though the main power switch is pressed.<br>The standby indicator does not light. | · Connect the power cable to the AC inlet and the AC outlet firmly. | 21 |
| The disc tray comes out even after the tray is closed. | · Set the disc on the disc tray correctly. | 23 |
| | · 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. | 23 |
| | · Remove dew condensation from the interior of this unit. | 1 |
| | · Put the disc on the tray with the label facing upwards. (label face upward) | |
| No sound is generated. / Sound volume is too low. (Digital input) | · Connect digital cables correctly. | 20 - 21 |
| | · If the USB is selected as an input source, select this unit (D-06u) as the output destination by configuring the sound setting of a PC/Mac. | Refer to the instruction manual of the PC/Mac or the software in use. |
| | · If the unit (D-06u) cannot be selected even when trying the solution above, reconnect the USB cable. | |
| | · If the USB is selected as an input source, adjust the sound volume by configuring the sound setting of a PC/Mac. | |
| | · If the USB is selected as an input source, adjust the sound volume on a player software of a PC/Mac. | |
| | · Ensure that the sampling frequency and the number of quantization bits of the reproduced digital signal are applicable to this unit. | 18 - 19 |
| | · Check to see whether "UNLOCK" of the digital input is displayed or not. (When the digital signal from the digital device is not synchronized with this unit, the source may not be reproduced.) | |
| The remote control cannot be operated. | · Operate the remote control within the specified operating range. | 9 |
| | · Replace the remote control battery with a new one. | 8 |
| | · The remote control infrared receiver is exposed to direct sunlight or strong light sources (such as inverter fluorescent lights). Change the installation place or angle to avoid the exposure to light sources. | 9 |
| 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. | 9 |

| Problem | Cause/Solution | Ref. page |
|---|---|---|
| No sound is generated from the speakers, or sound is distorted. | · Confirm that the connections of audio cables are correct. | 20 - 21 |
| | · If a digital output device is connected to this unit, set [Digital output] to [On]. | 10 |
| | · 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 firmly inserted into the terminals of the unit. | |
| | · Clean the cable connectors and terminals by using a plain dry cloth or a cloth dipped in a small amount of dehydrated alcohol. | |
| Digital audio signals cannot be output digitally. | · Set [Digital output] to [On]. | 10 |
| | · When the HD layer of a Super Audio CD, a DSD file, or a PCM file with sampling frequency of 32 Hz, 352.8 kHz, or 384 kHz is reproduced, a digital audio output cannot be provided. | 19 |
| 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, normal operation may resume by turning off the power once and turning on the power again after several tens of seconds or returning the unit to the factory setting. If the problem is not solved, please contact your dealer or our service center.

**LUXMAN CORPORATION, JAPAN**