

ESOTERIC

X-01 D2

Super Audio CD/CD Player

Owner's Manual 2

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CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



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




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



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

IMPORTANT SAFETY INSTRUCTIONS

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

- Do not expose this apparatus to drips or splashes.
- Do not place any objects filled with liquids, such as vases, on the apparatus.
- Do not install this apparatus in a confined space such as a book case or similar unit.
- The apparatus draws nominal non-operating power from the AC outlet with its POWER switch in the off position.
- The apparatus should be located close enough to the AC outlet so that you can easily grasp the power cord plug at any time.
- An apparatus with Class I construction shall be connected to an AC outlet with a protective grounding connection.
- Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.
- Excessive sound pressure from earphones and headphones can cause hearing loss.

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

CAUTION

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

For U.S.A.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

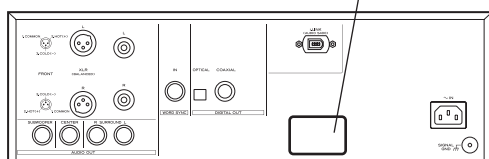
- Reorient or relocate the equipment and/or the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Changes or modifications to this equipments not expressly approved by TEAC CORPORATION for compliance will void the user's warranty.

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

① For U.S.A.



Optical pickup :

Type : SLD6163RL-G
 Manufacturer : SONY CORPORATION
 Laser output : Less than 1mW on the objective lens
 Wavelength : 785±15 nm (CD)
 655±10 nm (Super Audio CD)

For European customers

Disposal of your old appliance



1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products should be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

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ENGLISH

The latest VRDS mechanism for Super Audio CD (Specially developed ball bearings for the optimum VRDS mechanism.)

The VRDS mechanism securely clamps the disc to the turntable whose diameter is exactly the same as that of the disc. This system completely eliminates vibration inherent to removable media and unwanted vibrations generated by the mechanical systems. Also, this mechanism clamps the disc at a slight inclination so as to compensate for warping or deformation improving the accuracy of the optical axes of both the laser pickup and the pit surface of the disc. This is effective in reducing errors in reading the disc data as well as in preventing timing errors from erratic data acquisition timing.

To achieve the high-speed rotation with superior stability that is required of a Super Audio CD player, the X-01 D2 is equipped with a duralumin turntable. A specially developed processing technology was used to enable high-precision forming of this lightweight material normally used in building aircraft.

In a joint development project with NSK Ltd., we developed proprietary, highly precise ball bearings for the VRDS mechanism. Rolling elements made from precisely machined ceramic balls provide ultra smooth rotation. The application of a pre-load to the ball bearing pair ensures a high rigidity and precise rotation not present in conventional bearings but necessary for handling the wide rotational range from normal CD to Super Audio CD playback.

A massive 20mm-thick, SS400 steel bridge supports the mechanism to control vibrations produced by turntable rotation.

Coreless motor with neodymium magnets

A newly-developed three-phase brushless spindle motor provides the fast and accurate turntable rotation required for Super Audio CD playback. This, and the fixing of the turntable together with the use of precision ball bearings, eliminate irregular rotation and vibration.

Research has shown that neodymium is the optimum magnetic material for this application. Neodymium absorbs changes to the motor's electric power supply, and exerts minimal influence on the audio sections of the unit.

Constant-angle optical pickup mounted on a sled with feedback-monitored speed control

By mounting the pickup on a sled whose axis is rigid, the pickup lens is maintained at a constant angle and the laser beam, and hence the optical axis, is maintained in an accurate vertical orientation. An Esoteric original three-phase brushless motor with Hall element detection drives the sled, and the speed of the sled is monitored and used to control the sled itself in a servo feedback operation, meaning the sled is highly responsive and smooth in its operation.

Sturdy, rigid chassis with triple-point pinpoint foot support

The unit is constructed with a 5mm thick robust steel base plate, and is divided into three logical sections, thereby reducing interference between components of the unit. Highly rigid mounts are used for the VRDS disc mechanism. To eliminate vibration, three solid (tool steel) feet support the unit and isolate it mechanically.

Unsurpassed features

Full functionality and performance suitable for the latest Super Audio CD player have been realized.

- A power transformer that incorporates a high-efficiency R-Core digital transformer and another transformer for analog. Also, the power circuits are separated for digital and analog circuits for each.
- The front 2-channel audio board is mounted with the right channel in one board and the left channel in another board.
- Super Audio CD 5.1 channel sound output is possible.
- i.LINK connection is possible. (Flow rate control compatible.)

Audio DACs

The DSD DAC for Super Audio CD playback and the multi-bit DAC for CD playback are each mounted in the front 2-channel.

A bi-directional converter circuit, capable of handling both DSD and PCM data, is also mounted so the user can fully enjoy the characteristics of both, regardless of the type of disc.

The conversion of CD PCM data to DSD, or Super Audio CD DSD data to PCM, allows the best possible playback of the DAC characteristics of both types of data.

DSD DAC and multi-bit DAC each employ one pair of + (positive) Output and - (negative) Output for 1-channel (Total output: 4), and use addition and subtraction of them to achieve high capacity D/A conversion.

Word synchronization

A master word clock from a high-quality DA converter or master clock generator can be used for clock synchronization, resulting in the almost complete elimination of jitter.

Using a high-quality clock signal provided by an external DA converter such as the Esoteric G-0/G-0s provides optimum audio quality.

Shutter isolates the mechanism from external influences

The tray opening and closing mechanism is equipped with a shutter for greater precision and to eliminate adverse effects from external sound pressure and vibrations on mechanical units. When closed, the shutter mechanism is mechanically secured to the front panel to prevent it from moving.

Brushed aluminum finish exemplifies the quality of construction

The front, side and top panels are constructed of thick brushed aluminum. The high-quality luxurious finish matches the overall attention to the finest possible quality, shown in such details as the illuminated surrounds to the control buttons and the milled aluminum disc tray.

What's in the box

Please confirm that the following accessories are in the box when you open it.

- Remote control unit x 1
- Batteries (AA, R6, SUM-3) x 2
- Felt sheet x 3
- Power cord x 1
- Owner's manual x 1
- Warranty card x 1

Conventions about This Manual

- Instructions in this manual describe the controls on the remote control. You can also use the buttons on the front panel if they have the same or similar names as those on the remote.
- The types of functions and operations that can be used for a particular disc vary depending on the features of that disc. In some cases, these functions and operations may differ from the descriptions given in this Owner's Manual.
- The drawings used in this Owner's Manual are purely for the purposes of explanation.

Read this before operation

- As the unit may become warm during operation, always leave sufficient space around the unit for ventilation.
- The voltage supplied to the unit should match the voltage as printed on the rear panel. If you are in any doubt regarding this matter, consult an electrician.
- Choose the installation location of your unit carefully. Avoid placing it in direct sunlight or close to a source of heat. Also avoid locations subject to vibrations and excessive dust, heat, cold or moisture.
- Do not place the unit on the amplifier/receiver.
- Do not open the cabinet as this might result in damage to the circuitry or electrical shock. If a foreign object should get into the unit, contact your dealer or service company.
- When removing the power plug from the wall outlet, always pull directly on the plug, never yank the cord.
- To keep the laser pickup clean, do not touch it, and always close the disc tray.
- Do not attempt to clean the unit with chemical solvents as this might damage the finish. Use a clean, dry cloth.
- Keep this manual in a safe place for future reference.

DO NOT MOVE THE UNIT DURING PLAYBACK

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

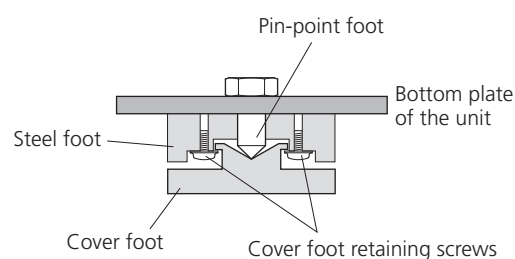
WHEN MOVING THIS UNIT

When changing places of installation or packing the unit for moving, be sure to remove the disc and return the disc tray to its closed position in the player. Then, press the power switch to turn the power off, and disconnect the power cord. Moving this unit with the disc loaded may result in damage to this unit.

Placement of the unit

High-quality hardened tool steel is used for the pin-point feet, securely attached to the bottom of the player. Although the cover feet may appear loose, the weight of the unit causes them to be firm and secure, and the design effectively damps and reduces vibration.

- Be careful to avoid injury when moving the unit, on account of its weight. Get someone to help you if necessary.
- To protect floors, etc. you may stick the felt supplied with the unit to the bottom of the cover feet.



Beware of condensation

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

Maintenance



If the surface of the unit gets dirty, wipe with a soft cloth or use diluted neutral cleaning liquid. Be sure to remove any fluid completely. Do not use thinner, benzene or alcohol as they may damage the surface of the unit.

"Super Audio CD" is a registered trademark.
"DSD" is a registered trademark.

The i.LINK logo is a trademark of Sony Corporation, registered in the U.S. and other countries.

Type of Discs That Can be Played on This System

This player can playback discs bearing any of the following logos:

	<p>Audio CD:</p> <ul style="list-style-type: none"> • 12cm or 8cm discs • Linear PCM digital audio <p>Audio CDs are divided into tracks.</p>
	<p>Super Audio CD:</p> <ul style="list-style-type: none"> • Single layer, dual layer or Hybrid layer • 12cm or 8cm discs • Digital audio (DSD) <p>Super Audio CDs are divided into tracks.</p>

About CD-R/CD-RW

CD-R/RW discs recorded in Audio CD format and finalized correctly are playable. But depending on the quality of the disc and/or the condition of the recording, some CD-R & CD-RW discs may not be playable.

Caution:

- If you record a disc using a personal computer, even if it is recorded in a compatible format, there are cases in which it may not play because of the settings of the application software used to create the disc. (Check with the software publisher for more detailed information.)
- Unfinalized CD-R/CD-RW discs cannot be played.

Following discs cannot be played with this unit:

- DVD, CD-G, Data part of CD-EXTRA, PHOTO CD, CD-ROM and DVD-ROM discs
- discs recorded in a color system other than PAL or NTSC
- illegally produced discs
- scratched discs
- discs that are dusty, soiled or marked with fingerprints

Warning:

If you attempt to play back such discs, there is a risk that a sudden and loud noise may be heard over the speakers at full volume and cause damage to the speakers and to your hearing.

Copy-protected discs, DualDiscs and other discs that do not conform to the CD standard may not play back correctly in this player. If you use such discs in this unit, TEAC ESOTERIC COMPANY cannot be responsible for any consequences or guarantee the quality of reproduction. If you experience problems with such non-standard discs, you should contact the producer of the disc.

- Always place the disc on the disc tray with the label side up. (Compact discs can be played or recorded only on one side.)
- To remove a disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.



How to remove the disc

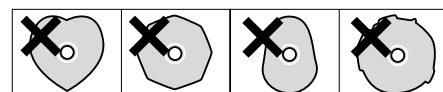


How to hold the disc

- Should the disc become dirty, wipe the surface from the center hole outward towards the outer edge with a soft, dry, lint-free cloth:



- Never use chemicals such as record (LP) sprays, antistatic sprays or fluids, benzine or thinner to clean the discs. Such chemicals will do irreparable damage to the disc's plastic surface.
- Discs should be returned to their cases after each use to avoid dust and scratches that may eventually cause your disc to skip.
- Do not expose discs to direct sunlight, high humidity, or high temperatures for extended periods. Long exposure to high temperatures will warp the disc.
- Do not play any disc that is warped, scratched, deformed or damaged. Playing such discs may cause irreparable harm to the playback mechanism.
- CD-R and CD-RW discs are more sensitive to the effects of heat and ultraviolet rays than ordinary CDs. It is important that they are not stored in a location with direct sunlight and keep your discs away from sources of heat such as radiators or heat-generating electrical devices.
- Printable discs aren't recommended because the label side might be sticky (or contain glue), which will damage the unit.
- Do not stick papers or protective sheets on the discs and do not use any protective coating spray.
- Use a soft oil-based felt-tipped pen to write information on the label side of a disc. Never use a ball-point or hard-tipped pen, as this may cause damage to the recorded side of the disc.
- Never use a stabilizer. Using commercially available CD stabilizers with this unit will damage the mechanisms and cause them to malfunction.
- Do not use irregular shape discs (octagonal, heart shaped, business card size, etc.). Discs of this sort can damage the unit:

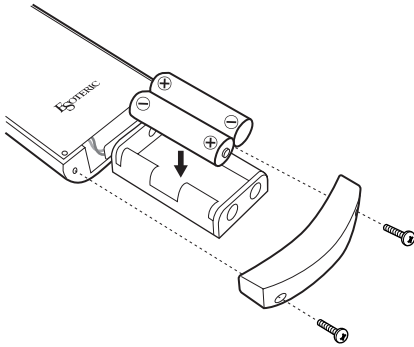


- If you are in any doubt as to the care and handling of any disc, read the precautions supplied with the disc, or contact the disc manufacturer directly.

Remote Control Unit

How to insert the batteries

Remove the end cover of the remote control unit with a screwdriver. After checking the polarity (\oplus/\ominus) of two AA batteries, insert the batteries observing polarity, replace the end cover and replace the screws.



Battery Replacement

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

Precautions concerning batteries

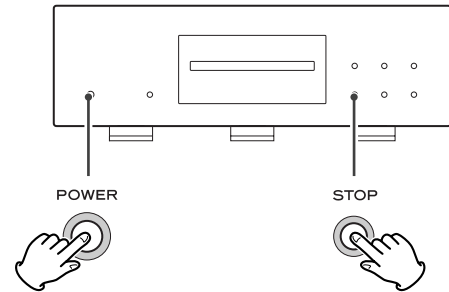
- Be sure to insert the batteries with correct positive " \oplus " and negative " \ominus " polarities.
- Use batteries of the same type. Never use different types of batteries together.
- Rechargeable or non-rechargeable batteries can be used but not mixed together. Refer to the precautions on their labels.
- When the remote control unit is not to be used for a long time (more than a month), remove the batteries from the remote control unit to prevent them from leaking. If they leak, wipe away the liquid inside the battery compartment and replace the batteries with new ones.
- Do not heat or disassemble batteries and never dispose of old batteries by throwing them in a fire.

Notes on use

- Point the remote control unit at the player's remote sensor within seven meters (23 feet) of the player. There should not be any obstacles between the player and the remote control unit.
- Do not allow direct sun or other light to shine on the remote sensor on the player. This may cause the remote control unit to malfunction.
- Note that other units with remote controls may operate incorrectly because of infrared light "overspill" when you operate this remote control unit.

Restoring factory settings

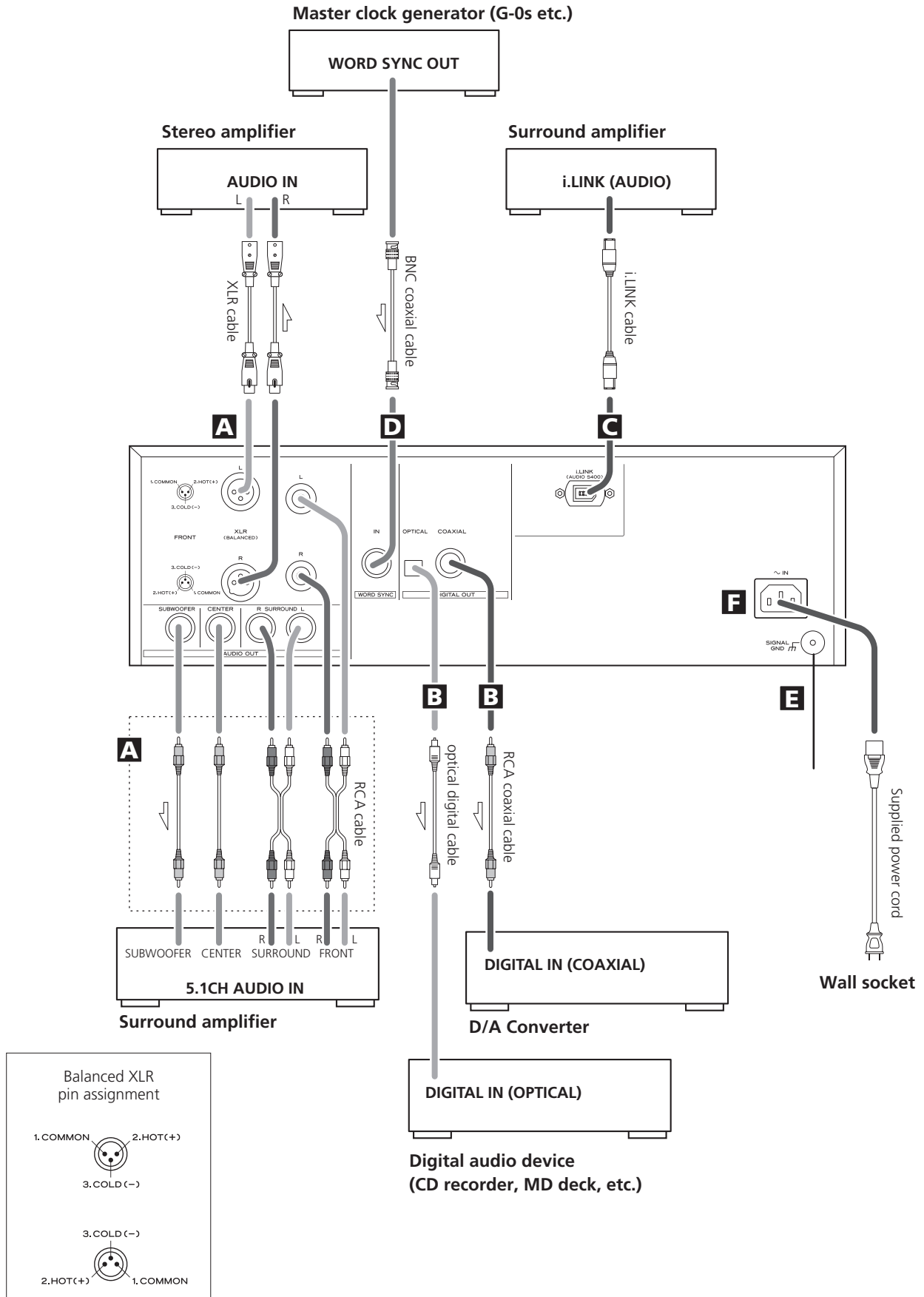
If you have made a lot of changes to the setup, and want to restart from a known set of options, restore the unit to the factory settings as follows:



1. Turn the unit off and wait 30 seconds or longer.
2. Press the **POWER** button while holding down the **STOP** button.

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

Connection



CAUTION:

- Switch off the power to all equipment before making connection.
- Read the instructions of each component you intend to use with this unit.
- Be sure to insert each plug securely. To prevent hum and noise, avoid bundling the signal interconnection cables together with the AC power cord or speaker cables.

A Analog audio output terminals**2 channel (FRONT)**

Use either the XLR or RCA (pin) FRONT terminals for analog stereo output.

If your amplifier has balanced XLR analog audio inputs, connect the XLR jacks on the unit to the amplifier's XLR jacks, otherwise use the RCA (pin) connections.

5.1 channel

For surround (5.1) amplifiers with analog inputs, also use the RCA (pin) SURROUND pair, CENTER and SUBWOOFER connections (in addition to the FRONT pair).

- If you are connecting only 2 channels, use the 2CH/MULTI button on the remote control to select "2 ch". For surround sound with six speakers connected, you can select either "2ch" or "5.1 ch" mode. Note that if multi-channel program material is played and 2-channel mode is selected, the multi-channel material will be down mixed to two channels, and output through the L and R front outputs.

B Digital audio output terminals

Digital audio from CD is output from these terminals.

The unit may be connected using either coaxial or optical (TOS) commercially available cables to amplifiers, or to digital audio devices such as CD recorders, etc.

COAXIAL: Use RCA (pin) digital audio cable

OPTICAL: Use optical digital audio cable (TOS)

- The optical terminal is covered by a shutter. Make sure that the cable is firmly inserted, but do not force the cable when connecting it or removing it, in order not to cause damage to the unit.
- The DIGITAL OUT terminals cannot output the digital audio from Super Audio CDs.

C i.LINK (AUDIO) terminal

In addition to the digital audio from CD, the digital surround audio from Super Audio CDs can be output from this terminal. To enjoy surround sound from a Super Audio CD, connect the i.LINK (AUDIO) terminal to a suitably equipped surround sound amplifier.

Use a commercially available S400 compatible i.LINK (IEEE1394) 6pin cable to connect the unit to an amplifier.

- When using this terminal, set the Digital Out to "ON", and the i.LINK output setting to "60958" or "PCM" (see pages 21, 16-18).
- See page 24 for further details on i.LINK.

D Word sync connector

This allows the use of an externally-generated word clock connection, using a commercially available BNC coaxial cable.

Devices producing such a suitable clock signal include external D-A converters, or dedicated word clock generators. Connect the SYNC OUT (or WORD OUT) of such a device to the unit.

E SIGNAL GND connection

Use a commercially available PVC-covered cord to connect the signal ground terminal on the unit to the amplifier signal ground.

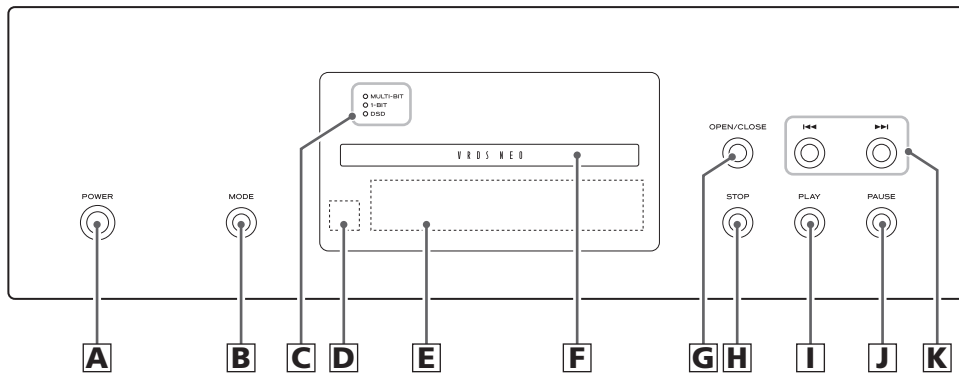
- Note that this is NOT an electrical safety ground (earth).

F Power cord receptacle

Connect the power cord to the power cord receptacle and connect the power plug to an AC wall outlet after all other connections have been made.

- Use only the supplied Esoteric power cord. Use of other power cords may result in fire or electric shock. Unplug the power cord when you are not going to use the unit for an extended period of time.

Front panel features



Front Panel

A POWER

Use this button to turn the unit on and off. When the unit is on, the ring surrounding the button lights up.

The equipment draws nominal non-operating power from the AC outlet with its POWER switch in the off position.

B MODE

Use this button to change settings of Word sync, DAC, priority playback area, and i.LINK output.

C DAC indicator

Shows the type of DAC currently selected.

D Remote control sensor

Receives signals from the remote control unit. Point the remote control unit at this sensor when operating the remote control unit.

E Display

F Disc tray and shutter

G OPEN/CLOSE

Use this button to open and close the disc tray.

H STOP

Use this button to stop playback. When playback is stopped, the ring surrounding the button lights up.

I PLAY

Use this button to start playback. When a disc is being played back, the ring surrounding the button lights up.

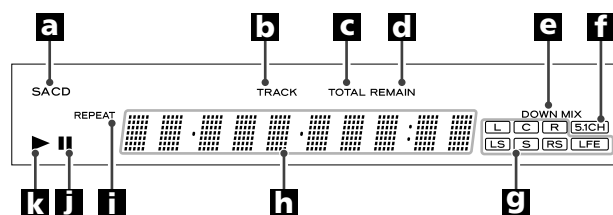
J PAUSE

Use this button to pause playback. When playback is temporarily paused, the ring surrounding this button lights up.

K SKIP (◀◀ / ▶▶)

Use these buttons to for skip operations. Pressing and holding these buttons for more than a second changes the scanning speed.

Display



a Disc type indicator

Shows the type of disc currently loaded.

b TRACK indicator

Indicates that the track number is being shown.

c TOTAL indicator

Indicates that the total time is being shown.

d REMAIN indicator

Indicates that the remaining time is being shown.

e DOWN MIX indicator

Lights to show that a multi-channel source has been down mixed to the analog outputs.

f 5.1CH indicator

Lights to show that 5.1 analog output has been selected

g Channel indicators

Light to show which surround channels are currently in use.

h Message area

Alphanumeric display to show playback times, status messages, etc.

i REPEAT indicator

Lights when repeat play is selected

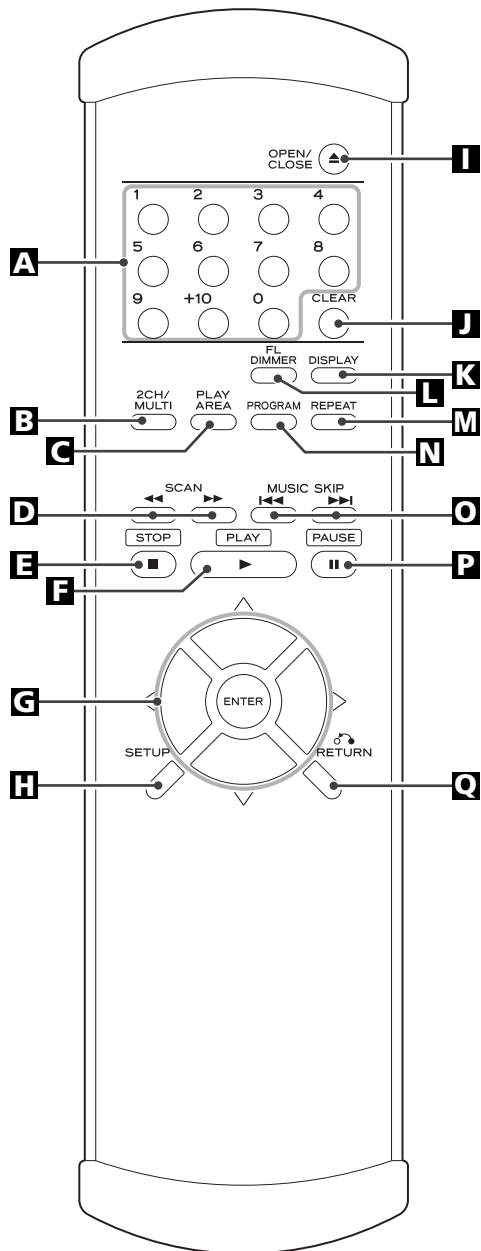
j Pause indicator

Lights when playback is paused.

k Playback indicator

Lights when playing back.

Understanding the remote control unit



A Number buttons

Use these buttons for selecting tracks by number, etc.

B 2CH/MULTI

Use this button to switch between two-channel (stereo) and multi-channel surround audio output.

C PLAY AREA

Use this button to select the playback area of Super Audio CDs.

D SCAN (◀◀/▶▶)

Use these buttons for fast scanning during playback.

E STOP

Use this button to stop playback.

F PLAY

Use this button to start playback.

G Cursor buttons and ENTER

Use these buttons in the setup menu.

Use the cursor button (left or right) to change the DAC setting.

H SETUP

Use this button to enter or exit the setup menu.

I OPEN/CLOSE

Use this button to open and close the disc tray.

J CLEAR

Use this button to clear entry errors, etc.

K DISPLAY

Use this button to change the display mode.

L FL DIMMER

Use this button to change the brightness of the front panel display.

M REPEAT

Use this button to set the repeat playback mode.

N PROGRAM

Use this button to program tracks.

O MUSIC SKIP (◀◀/▶▶)

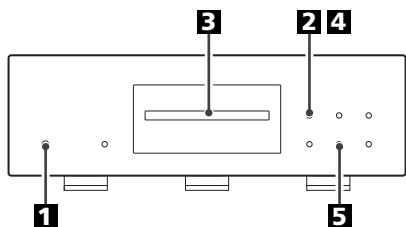
Use these buttons to for skip operations.

P PAUSE

Use this button to pause playback.

Q RETURN

Use this button to go back a level in the setup menu.



1 Turn the unit on.



Each press of the POWER button turns the unit on and off. The ring surrounding the POWER button and the display light up when the unit is turned on.

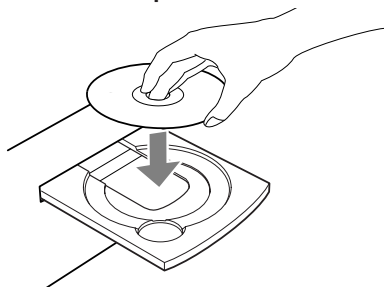
2 Press the OPEN/CLOSE button.



The shutter opens and the disc tray slides out.

- The tray opens after a few seconds (this delay is normal and is due to movement of the VRDS and other mechanisms within the unit).

3 Insert the disc, label side up.



- Make sure the disc is centered in the tray in order to avoid any malfunction or jamming of the tray or damage to the disc itself.

4 Press the OPEN/CLOSE button again.



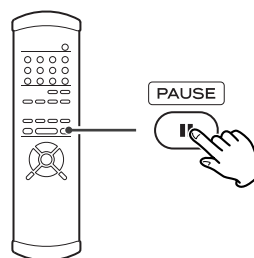
The disc tray and shutter close. Take care to avoid pinching your fingers in the moving tray.

- The unit reads the disc, which takes some time due to the reading and storing of the disc's table of contents.

5 Press the PLAY button to start playback.

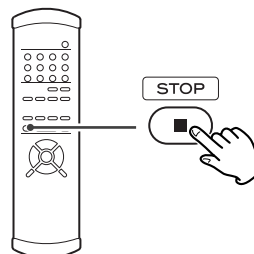


Pausing playback



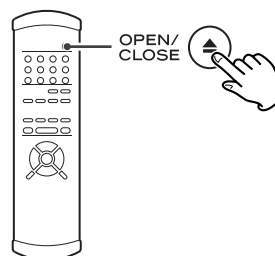
Press the PAUSE button to pause playback (the ring surrounding the PAUSE button on the main unit lights). Press PLAY or PAUSE to restart playback.

Stopping playback



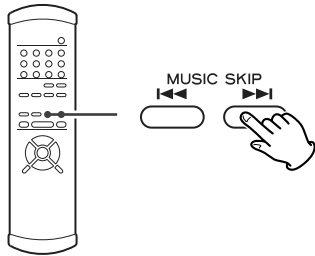
Press the STOP button (the ring surrounding the STOP button on the main unit lights).

Opening and closing the tray



Pressing OPEN/CLOSE opens the tray if it is closed, and closes it if it is open. When the tray is opened during playback, it may take a few seconds before the disc is "unloaded" and the tray opens.

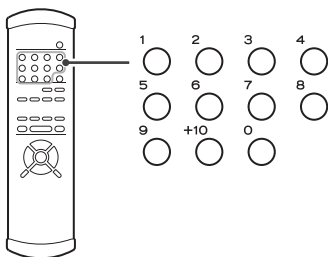
Skipping playback



Press the MUSIC SKIP button (◀◀ or ▶▶) repeatedly until the desired track is found. The selected track will be played from the beginning.

- If the ◀◀ button is pressed once during playback, playback returns to the start of the current track. If it is pressed within one second from the start of the track, playback returns to the start of the previous track (so pressing the button twice in quick succession will skip back two tracks, etc.).
- If tracks are skipped while playback is paused or stopped, playback is paused or stopped at the start of the selected track.

Selecting a track

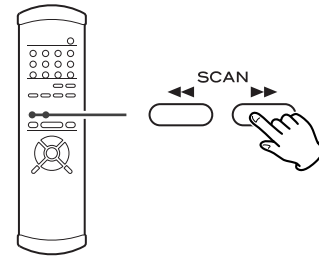


Use the number button to select tracks for playback. Use the +10 button to enter the first digit of numbers greater than 9 (repeated presses show 1-, 2-, 3- etc.) and the single digit buttons (0 through 9) for the second digit, or single-digit track numbers.

Playback starts from the selected track, regardless of whether the number is selected during playback or playback is stopped or paused.

Use the CLEAR button to clear mistaken entries.

Fast scanning



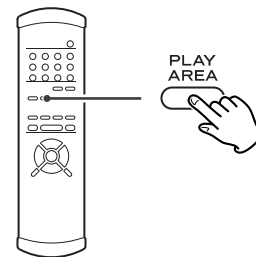
When playing back, use the SCAN button (◀◀ or ▶▶) to move backwards and forwards. Press PLAY to restart playback at normal speed at the desired location.

Repeated presses of the SCAN buttons changes the scanning speeds. There are three speeds:

Fast (1) → Fast (2) → Fast (3) → Play (normal speed)

- You can also use the SKIP buttons of the main unit. To start scanning (or to change the scanning speed), press and hold the SKIP button for more than one second.

Selecting the playback area



There are two types of Super Audio CDs, regular ones that contain 2-channel stereo and multi-channel stereo and hybrid discs (two-layer discs) that contain Super Audio CD and regular CD data.

When a hybrid Super Audio CD is loaded and when the playback is stopped, press the PLAY AREA button to select a playback area.

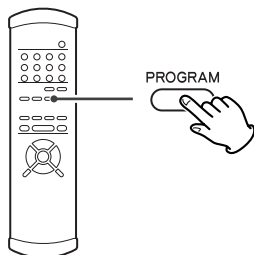
- The setting described on pages 16-18 allows you to determine which layer will be first selected for playback (the priority playback layer).

Programmed playback

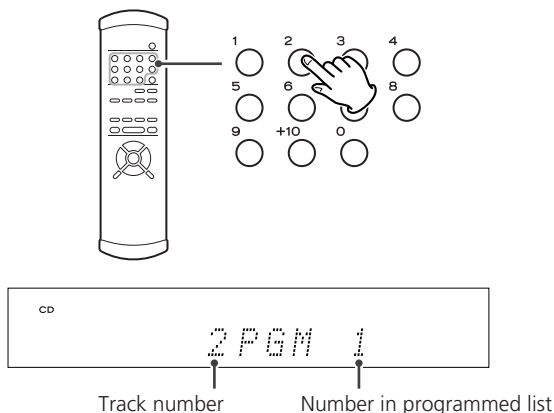
Programmed playback allows up to 30 tracks to be played back in the order you decide.

1 Press the PROGRAM button (either when playing back or stopped).

If a track is currently playing back, this track is added as the first item in the programmed playback list.



2 Use the number buttons to add tracks to the programmed playback list.



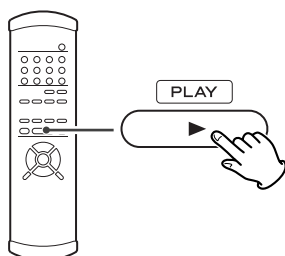
Use the +10 button and 0 through 9 buttons in exactly the same way as when selecting tracks.

Continue pressing the number buttons to add tracks.

- Clear mistakes with the CLEAR button (the last entry is cleared)
- You can only select tracks on the disc (in other words, if the disc has six tracks, you cannot program track 7!).

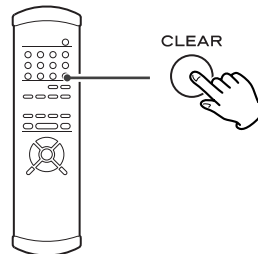
3 Finish the programming by pressing the PLAY button.

Programmed playback begins (if the disc is actually being played back while you are setting the program order, there's no need to press PLAY).



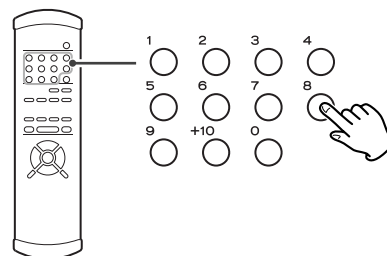
Clearing the last track from the list

Press the CLEAR button to clear the last track from the list.



Adding tracks to the list

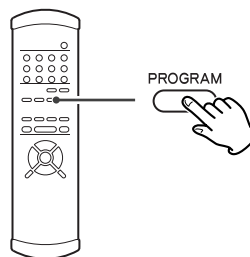
Use the number buttons to add tracks to the list.



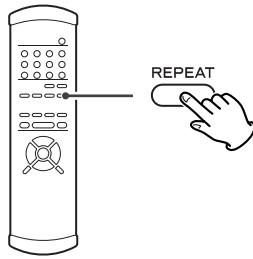
Clearing the whole program

Press the PROGRAM button to clear the program (playback continues from the current point).

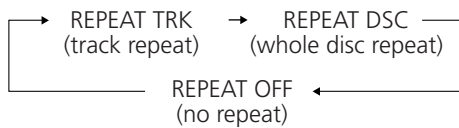
The OPEN/CLOSE or the POWER button also clears the program.



Repeat mode



Use the REPEAT button to select the repeat mode for playback. Repeated presses of the REPEAT button cycle between the following options:



- Halting playback stops the repeat mode.
- The following buttons cancel repeat mode:
STOP, OPEN/CLOSE, POWER.

Track repeat

When this is selected, the currently-selected track repeats. If another track is selected during repeat playback, the newly-selected track repeats.

Disc repeat

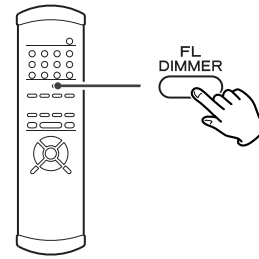
The whole contents of the disc are repeated.

Programmed repeat

If programmed playback has been set up, the whole program is repeated.

Pushing the REPEAT button cycles between REPEAT PGM (program repeat) and REPEAT OFF (programmed playback takes place).

Display dimming

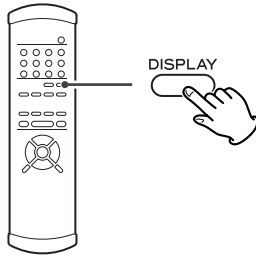


The display on the main unit can be dimmed to suit the environment in which you listen to music. There are three levels and an "off" setting.

Use the FL DIMMER button to cycle between these settings.

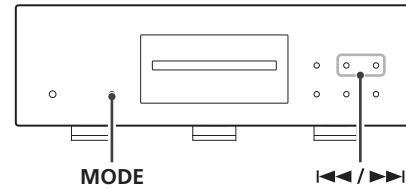
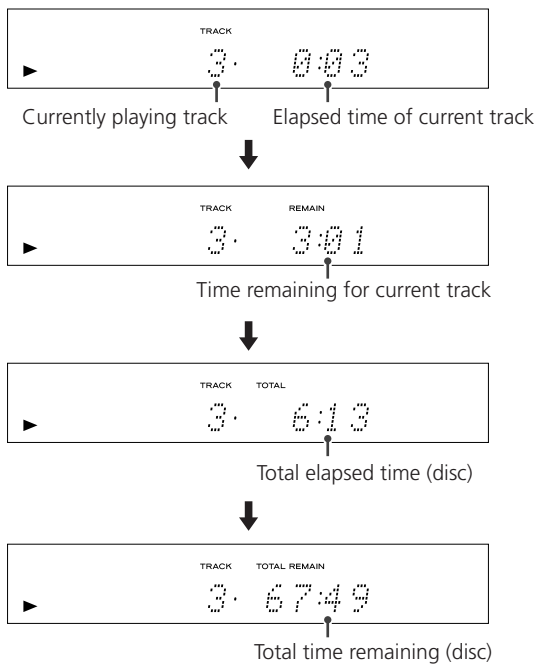
Note that the OFF setting is not memorized when the power is turned off. When the unit is switched off with the display off, and then turned on again, the display is reset to the minimum brightness.

Changing the display mode



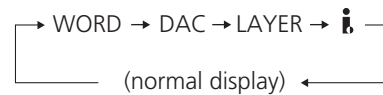
During playback, it is possible to change the display as shown here.

- The DISPLAY button doesn't work during programmed playback.



- 1 Repeatedly press the MODE button to select the menu item to be changed.

MODE



- If you leave the unit idle for 10 seconds, the setting mode will be cancelled.

- 2 Use the SKIP buttons (I<</>>I) to select the options within the menu item.



Individual menu functions are described on pages 17-18.

- 3 Repeatedly press the MODE button until the display returns normal (or leave the unit idle for 10 seconds) to exit the setup mode.

MODE



Pressing the STOP button also finishes the setup mode.

- Switching off the power without exiting the setup mode may cause problems. Do not turn the unit off.
- Settings are stored even when power is turned off and the unit is unplugged. If left unplugged for an extended period, the settings may be lost.

Available menu item and options

WORD (Word sync)

Use this feature to lock your entire system to a single sync signal (clock) by connecting this unit to the Esoteric G-0s or similar device that outputs a sync signal.

"ON" or "OFF" are available.

- This unit is ready for the clocks up to 176.4 kHz and switches itself depending on an incoming signal.
- Make connections to the WORD SYNC terminal before turning on the unit.
- When the unit is synchronizing to the sync signal, the ring surrounding the MODE button flashes. When it is locked, the button lights.
- If no valid sync signal is received, the display shows "No Word!" or "Wrd Unlck!".

DAC (D/A converter)

This unit is equipped with the following DA converters:

- DSD DAC for DSD signals (AD1955 from Analog Devices, Inc.)
- 1-bit DAC for PCM signals (AD1955 from Analog Devices, Inc.)
- Multi-bit DAC for PCM signals (PCM1704 from Burr-Brown)

This setting allows you to determine which DAC will be selected for playback.

REF. (Reference)

The unit automatically selects the proper DAC for the disc currently loaded.

The selection depends on the Analog Out (see page 21).

M.bit (Multi-bit)

Use the Multi-bit DAC.

DSD signals from Super Audio CDs are converted to PCM signals.

The MULTI-BIT indicator lights during playback.

1 bit

Use the 1-bit DAC.

DSD signals from Super Audio CDs are converted to PCM signals.

The 1-BIT indicator lights during playback.

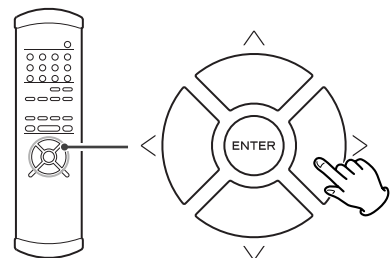
DSD

Use the DSD DAC.

PCM signals from CDs are converted to DSD signals (1 bit, 64 fs).

The DSD indicator lights during playback.

- You can also use the left or right cursor button to change the DAC setting (either when playing back or stopped).



(Continued on the next page.)

LAYER (priority playback area)

There are two types of Super Audio CDs, regular ones that contain 2-channel stereo and multi-channel stereo, and hybrid discs (two-layer discs) that contain Super Audio CD and regular CD data.

This setting allows you to determine which layer will be first selected for playback (the priority playback layer) with a hybrid Super Audio CD.

SACD

This mode gives priority to the Super Audio CD layer. The 2-channel layer is played when the Analog Out is set to "2ch". The multi-channel layer is played when the Analog Out is set to "Multi ch".

CD

This mode gives priority to the CD layer.

- Selecting a layer that is not on the disc results in playback of the alternative layer that is found on the disc.
- A change of playback layer using the PLAY AREA button is overridden by the LAYER setting when a different disc is loaded.

i.LINK

Used to select an i.LINK output setting.

When using the i.LINK terminal, select "60958" or "PCM", and set the Digital Out to "ON".

60958

DSD signal is output during playback of a Super Audio CD. The digital signal in IEC60958 format is output during playback of a CD.

PCM

DSD signal is output during playback of a Super Audio CD. Linear PCM digital signal is output during playback of a CD.

- Some amplifiers may regard this signal as DVD-Audio.

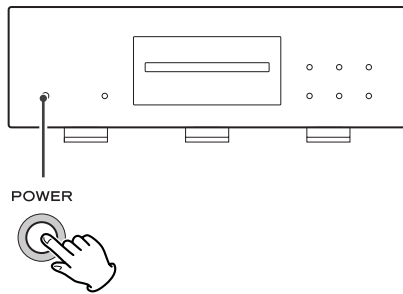
OFF

Select this when you don't use the i.LINK (AUDIO) terminal. No signal is output from the i.LINK (AUDIO) terminal.

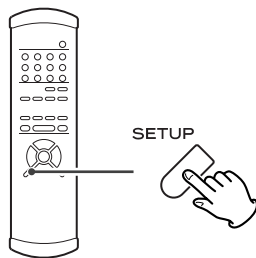
- There is no difference between 60958 and PCM as far as Super Audio CD playback is concerned.
- Set the Analog Out setting to "Multi ch" to output the surround sound from a Super Audio CD. When the Analog Out is set to "2ch", the multi-channel sound is down mixed to 2 channels.
- In case you experience any problem with the audio output, read the instructions of the connected component to check the adaptable format.
- If the component connected via the i.LINK terminal is compatible with the flow rate control, the connected component will work in the flow rate control mode.

Settings (introduction)

1 Turn on the main unit.



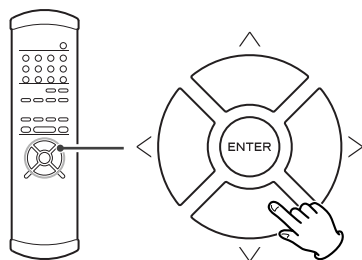
2 Press the SETUP button to enter the setup menu.



"AudioSetup" appears on the front panel display.

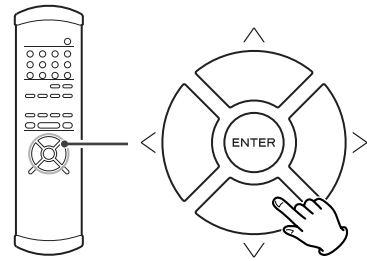
- Although it is possible to enter the setup menu while playback is continuing, not all menu functions will be available. Expand the number of available functions by pressing the STOP button.
- Exit the setup menu by pressing SETUP once again.

3 Use the cursor buttons to navigate the menus.



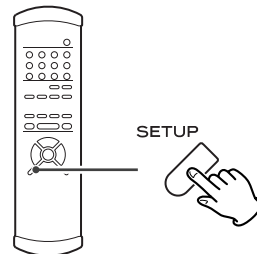
- Refer to the Setup Menu Chart on the next page.
- The options you can change are marked with ">".
- Use the left and up cursor buttons (or the RETURN button) to go back a level in the setup menu.

4 When a option marked with ">" is displayed, use the up or down cursor buttons to change the setting, and press the ENTER button to confirm the entry.

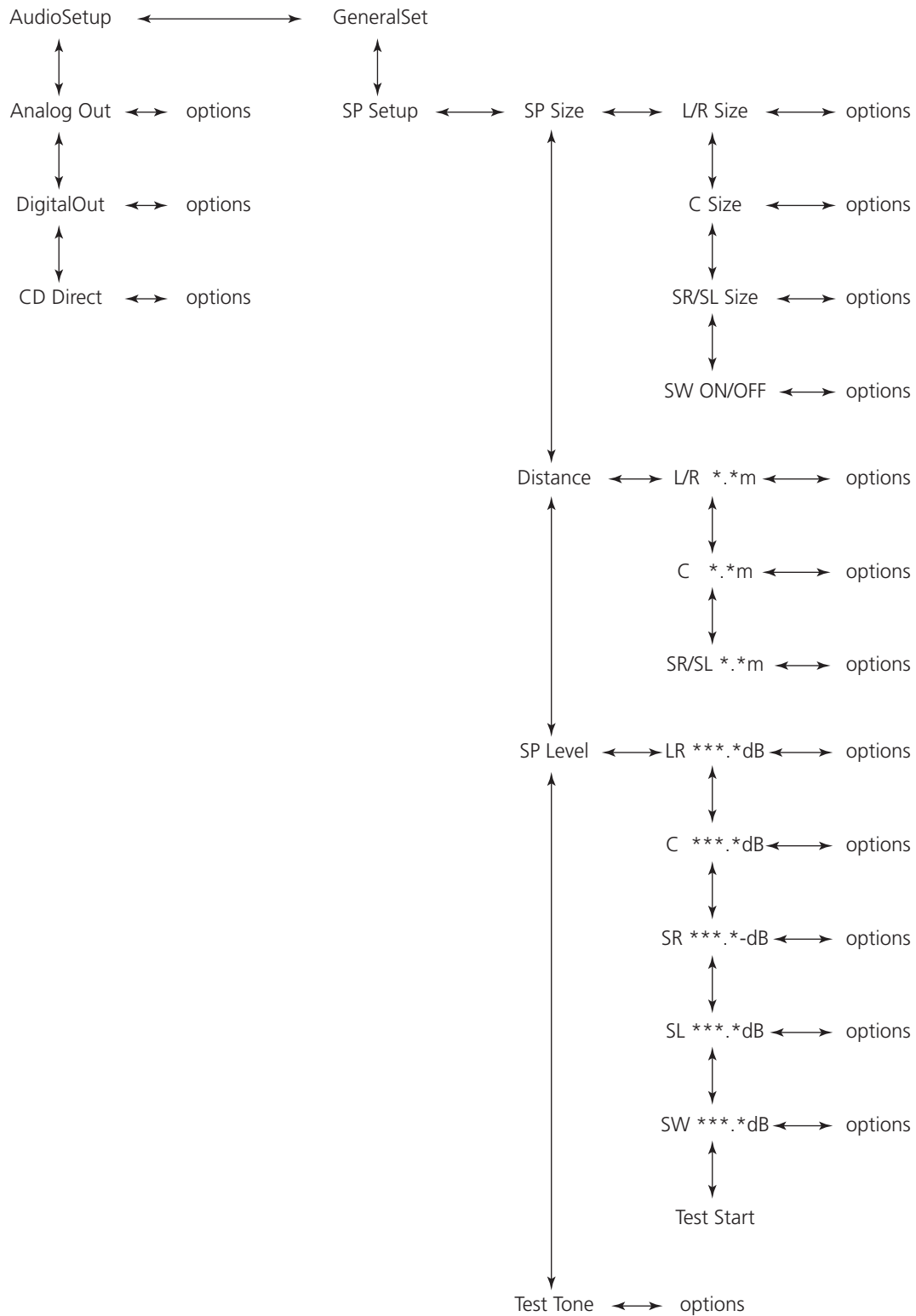


- When a numerical value (such as speaker distance) is changed, the value is confirmed without pressing the ENTER button.
- Individual menu functions are described on pages 21-23.
- Repeat steps 3 and 4 as required.

5 Exit the setup menu by pressing SETUP once more.



Settings (Setup Menu Chart)



Analog output (Analog Out)

When a option marked with ">" is displayed, use the up or down cursor buttons to change the setting, and press the ENTER button to confirm the entry.

2ch

Outputs 2-channel audio from the the i.LINK (AUDIO) and the 2ch analog audio output terminals (FRONT L and R).

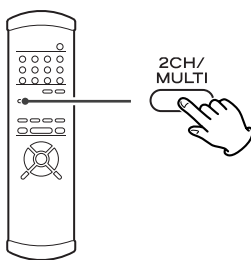
If multi-channel program material is played, the multi-channel material will be down mixed to two channels, and the DOWN MIX indicator lights on the display.

Multi ch

The unit outputs the multi-channel surround sound.

Select this when the i.LINK (AUDIO) terminal or the 5.1ch analog audio output terminals are connected to a surround sound amplifier.

- 5.1CH indicator lights when "Multi ch" is selected.
- Note that if "Multi ch" is selected, only the front L/R sound of the multi-channel material will be output from the FRONT L and R terminals.
- Note that the audio volume changes when the mode is changed between 2-channel to multi-channel.
- Speakers should be set up properly for multi-channel use. See page 22 for details.
- You can also use the 2CH/MULTI button of the remote control unit to select either "2ch" or "Multi ch".
When playback is stopped, press the 2CH/MULTI button.



Digital output (DigitalOut)

When a option marked with ">" is displayed, use the up or down cursor buttons to change the setting, and press the ENTER button to confirm the entry.

ON

Audio is output from the i.LINK (AUDIO) terminal and the DIGITAL OUT terminals.

OFF

Audio is not output from the i.LINK (AUDIO) terminal and the DIGITAL OUT terminals. If you are not using these terminals, we suggest that you use this OFF setting for better analog sound.

- Digital sound from Super Audio CDs cannot be output from the DIGITAL OUT terminals.

CD Direct

When a option marked with ">" is displayed, use the up or down cursor buttons to change the setting, and press the ENTER button to confirm the entry.

Direct

Speaker setting is bypassed.

Normal

The speaker setting you have made is used.

Select this setting when the i.LINK (AUDIO) terminal or the 5.1ch analog audio output terminals are connected to a surround sound amplifier.

Settings (Speaker Setup for the i.LINK and the 5.1ch analog audio output terminal)

Use these speaker setup menus when the i.LINK (AUDIO) terminal or the 5.1ch analog audio output terminals are connected to a surround sound amplifier, and when you don't use the speaker menus of the amplifier.

There is no need for this setup when not using the i.LINK (AUDIO) terminal or the 5.1ch analog audio output terminals, or when you use the speaker menus of the amplifier. In this case, leave this setup as it is (factory settings).

- This setup has an effect on the sound output from the i.LINK (AUDIO) terminal and the analog audio output terminals when the Analog Out is set to "Multi ch" and the CD Direct is set to "Normal".

Speaker Size (SP Size)

Select the size (Large or Small) independently for the L/R (front pair of speakers), the C (center speaker) and the SR/SL (surround pair of speakers). Turn the subwoofer (SW) ON or OFF (if you have no subwoofer).

Large

Select this when the connected speakers can fully reproduce bass frequencies.

Small

Select this when the connected speakers are rather small and cannot reproduce bass frequencies.

When this setting is selected, bass frequencies are output from the subwoofer (if no subwoofer is connected, from the front speakers).

OFF

Select this when no speaker is connected.

ON (subwoofer only)

Select this when a powered subwoofer is connected.

- When the front speaker is set to "Small", the subwoofer is set to "ON" automatically. You cannot set the subwoofer "OFF".
- For the center and surround pair options, if these speakers are not physically present, you can select OFF to prevent any output from those channels (you cannot turn off the front L/R pair). Any speakers turned off will down mix to the other enabled channels.
- The down mix may affect the overall volume.
- Adjust the relative levels of the speakers using the SP Level setting (and the volume knob of the subwoofer).

Speaker distance (Distance)

This setup is effective in the following case only:

Set the DAC mode to "M.bit" or "1bit", play Super Audio CDs, and output sound from the 5.1ch analog output terminals.

This setting has no effect on the i.LINK (AUDIO) terminal.

Ideally, the speakers should be placed so that they are all the same distance from the listening position. If this is not possible, you should use this method described here to adjust them individually. It is also possible to adjust all distances together. The point of these settings is to provide the best synchronization between sound and image by delaying the sound by an appropriate amount. The subwoofer is not included in this setting (the placement of the subwoofer is less critical than that of other speakers).

The L/R setting changes the distance of all speakers together. Pressing the up button adds 0.1m to each value, and pressing the down button subtracts 0.1m from each value. Distances are measured in meters (1 meter = just over 3 feet, and 0.1 meter = about 4 inches).

Carry out this operation first before setting the other speaker distances.

After setting the L/R, C and SR/SL speaker distances together, you can now set the center and surround pair distances. The minimum distance for these is 0m and the maximum is 9m, with the additional restrictions described here.

- The distance that you set for the center speaker cannot be greater than the distance set for the L/R pair and must be within 1.7m of that L/R distance.
So for example, if the distance to the L/R pair is set to 5.0m, the center distance must be between 3.3m (5 – 1.7) and 5m.
- The distance that you set for the SR/SL surround pair cannot be greater than the distance set for the L/R pair (and must be within 9m of that distance).
So with the L/R pair set at 5m, the SR/SL pair distance can be set from 0m to 5m.

Speaker levels (SP Level)

Use this to set the relative levels of the speakers. You can set the L/R pair together, and the center, and surround rear pair independently, as well as the subwoofer. The maximum value you can set here is 0dB and the minimum is -12dB, with settings made in 0.5dB increments.

1. Select "Test Start" and press the ENTER button.

The unit outputs test tone from each channel in turn at the specified level for each channel.

- Adjust the master volume of your amplifier to the normal listening level.
- Test tone from subwoofer may be nearly inaudible. Check the level of subwoofer using source material which contains low frequency sound.
- The unit won't output test tone when "60958" is selected. Select "PCM" to use test tone (see page 18).
- The unit won't output test tone when a Super Audio CD is (or had been) loaded. In this case, remove the disc, turn the unit off and on, and try again.

2. Select a speaker using the up or down cursor buttons.

3. Press the right cursor button.

4. Adjust the levels using the up or down cursor buttons.

5. When the setting has been finished, press the SETUP button to exit the setup menu.

Test tone length (Test tone)

Select the Test Tone menu item, and choose between 2, 5 and 10 seconds. This represents the length of time that the test tone is output from each speaker when Test Start is selected.

The i.LINK is also known as IEEE 1394, an international specification.

This unit is i.LINK (AUDIO) ready.

By connecting an i.LINK (AUDIO)-capable device to the i.LINK (AUDIO) terminal on this unit using an i.LINK cable, you can transmit Super Audio CD multi-channel signals that could not be transmitted but in analog format in the past can be transmitted in its original digital format, in addition to the capability of transmitting 2-ch linear PCM data and multi-channel compressed audio signals.

If you have multiple i.LINK-capable devices, you can connect them through other devices to transmit data between them, so you don't need to be concerned with the order of connection.

Copyright protection system DTCP

To play back audio sounds recorded on Super Audio CD using i.LINK, both the player and the D/A converter need to be compliant to the copyright protection system DTCP (Digital Transmission Content Protection).

This unit is DTCP compliant.

Data transfer rate

There are three transfer rates: 100 Mbps (S100), 200 Mbps (S200), and 400 Mbps (S400). This unit is capable of transferring data at a maximum 400Mbps.

For connection to an i.LINK-capable device, use a commercially available S400-compliant 6-pin i.LINK cable.

When connecting multiple i.LINK-capable devices, avoid connecting a device having a slow transfer rate between devices having high transfer rates since this reduces the transfer rate of the whole system. Connect devices having high transfer rates towards the source as far "up-stream" as possible.

NOTES

- Among the i.LINK formats there are "MPEG-2 TS" for BS digital sources and "DV" for digital video for DVD recorders, as well as the "i.LINK (AUDIO)" (A&M Protocol). Never connect devices that are not compatible with i.LINK (AUDIO) to this unit. If you do, this unit and other components may not operate normally and may also become damaged.
- In the process of data transfer, avoid plugging/unplugging the i.LINK cables in use or switch on/off the power.
- Among i.LINK-capable devices, there are some that, if not turned on, are not capable of relaying data.
- Some i.LINK-capable devices will not respond to this unit's command. This is normal and is due to incompatibility among i.LINK devices.
- The receiving device may not support the output modes of this unit. Read through the instruction manual of devices you want to connect before making any connections.

How to connect multiple i.LINK-capable devices

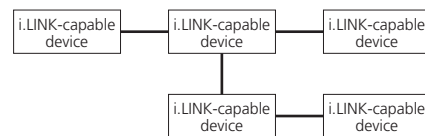
Daisy chain connection

You can daisy chain up to 17 devices including this unit.

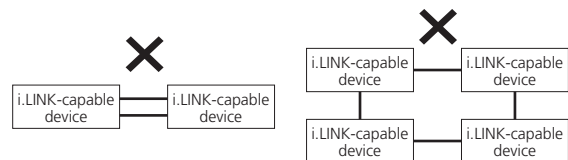


Connection in tree structure

If you are using a device having three or more i.LINK connectors, you may want to branch out the connections. This way of connection allows you to connect up to 17 devices including this unit.



Your system does not work if data is fed back to the output device. Be careful not to create a loop.



The i.LINK interface of this unit is designed in accordance with the following specifications:

- 1) IEEE Std 1394a-2000, Standard for a High Performance Serial Bus
- 2) Audio and Music Data Transmission Protocol 2.0

This unit is compliant with IEC 60958 bitstream, DVD-Audio, Super Audio CD in the AM824 sequence adaptation layers of this protocol.

In case you experience any problem with this unit, please take the time to look through this chart and see if you can solve the problem yourself before you call your dealer.

No power

- ➔ Check the connection to the AC power supply. Check and make sure the AC source is not a switched outlet and that, if it is, the switch is turned on. Make sure there is power to the AC outlet by plugging another item such as a lamp or fan.
- ➔ Press the POWER button of the main unit to turn it on.

Remote control doesn't work.

- ➔ Press the POWER button of the main unit to turn it on.
- ➔ If the batteries are dead, change the batteries.
- ➔ Use remote control unit within the range (7m/23ft.) and point at the front panel.
- ➔ Clear obstacles between the remote control unit and the main unit.
- ➔ If a strong light is near the unit, turn it off.

Severe hum or noise is heard.

- ➔ Place the unit as far away from a TV as possible.
- ➔ Make sure the line cords and speaker cables are as far away from the AC supply as possible.

Will not play.

- ➔ Reload the disc with the label side UP.
- ➔ This unit cannot play such discs as CD-ROMs. Use a playable disc.
- ➔ If the disc is dirty, clean the surface of the disc.
- ➔ A blank disc has been loaded. Load a prerecorded disc.
- ➔ If the unit is condensed, leave the unit for one or two hours with the power turned on.
- ➔ If another operation is still in process, wait a moment and try again.

Sound skips.

- ➔ Place the unit on a stable place to avoid vibration and shock.
- ➔ If the disc is dirty, clean the surface of the disc.
- ➔ Don't use scratched, damaged or warped discs.

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

- ➔ Check that the amplifier and speakers are connected securely.
- ➔ Check the operation of the amplifier.
- ➔ Check the audio output setting.
- ➔ When the amplifier is connected via the i.LINK (AUDIO) or the DIGITAL OUT terminal, set the Digital Out setting to "ON".
- ➔ The sound is muted during pause. Press the PLAY button to resume normal playback.

No multi-channel audio output.

- ➔ Set the Analog Out to "Multi ch".
- ➔ Change the speaker configuration if necessary.
- ➔ Super Audio CDs may have more than one playback area, not all of which contain multi-channel audio data. Choose a multi-channel area.

Overall volume is low, or balance between speakers is strange.

- ➔ A speaker's level (or that of a pair of speakers) has been set up too low or too high in the speaker setup. Correct the levels.

The speaker settings are ignored.

- ➔ Set the Analog Out to "Multi ch".
- ➔ Set the CD Direct to "Normal".

No digital audio output.

- ➔ Check that the Digital Out setting is set to "ON". When using the i.LINK (AUDIO) terminal, set the i.LINK output setting to "60958" or "PCM".
- ➔ Digital audio from a Super Audio CD cannot be output from the DIGITAL OUT terminals. Use the i.LINK (AUDIO) terminal.

The MODE button flashes, and the display shows "No Word!"

- ➔ The word sync mode is selected, but there is no clock source. Turn the word sync mode off.
- ➔ No word clock is being received. Check cables, connections, and settings of the clock generator.

The MODE button flashes, and the display shows "WRD UNLCK!"

- ➔ Invalid word sync signal is received. Check the setting of the clock generator.

If normal operation cannot be obtained, unplug the power cord from the outlet and plug it again. This resets the internal micro-computer which can be disturbed during electrical storms, power interruptions, et cetera.

Specifications

General

System	Super Audio CD and CD
Power supply	
Europe model	AC 230 V, 50 Hz
U.S.A./Canada model	AC 120 V, 60 Hz
Korea model	AC 220 V, 60 Hz
Power consumption	39 W
Weight	25 kg (55-1/16 lb)
External dimensions (W x H x D)	442 x 153 x 353 mm (17-3/8" x 6" x 13-7/8")
Operating temperature	+5°C - +35°C
Operating humidity	5% to 85% (no condensation)
Storage temperature	-20°C - +55°C

Audio output (Analog Audio)

Jacks	XLR jacks (2 channel) x 1 RCA jacks (5.1 channel) x 1
Maximum output level (1 kHz, full scale)	2.2 Vrms (RCA) 2.2 Vrms (XLR)
Frequency response	5 Hz to 50 kHz (-3 dB)
Dynamic range	107 dB
Signal-to-Noise Ratio (S/N)	116 dB
Total harmonic distortion	0.0015% (1 kHz)

Audio output (Digital Audio)

OPTICAL	Optical digital jack x 1, -15 to -21 dBm
COAXIAL	RCA jack x 1, 0.5 Vp-p/75 Ω
i.LINK	i.LINK (AUDIO) terminal x 1

Word Synchronization input format

Jack	BNC
Input level	4.5 Vp-p/75Ω

The main unit can accept and synchronize to the following frequencies received from external devices 44.1kHz, 88.2kHz, 176.4kHz

Accessories

Power cord	x 1
Remote Control Unit (RC-941)	x 1
Batteries (AA, R6, SUM-3)	x 2
Felt	x 3
Warranty card	x 1
Owner's manual	x 1

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

ESOTERIC

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

Model number _____ Serial number _____

0107·MA-1102B

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