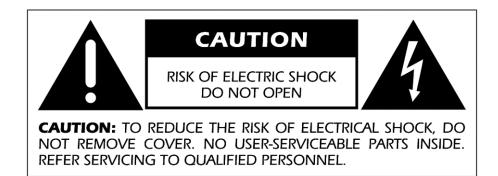
Owner's Manual-**MOON** Series CD 5.3 CD Player

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 a dry cloth.
- 7. Do not block 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 another apparatus that produces 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 is provided for safety. If the provided plug does not fit into the 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 and 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 when the power cord or plug has been damaged; liquid has been spilled or objects have fallen into the apparatus; or the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. No naked flame sources, such as candles, should be placed on the apparatus.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.



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Important Safety Instructions (cont'd)



The lightning flash with the 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.



Marking by the "CE" symbol (shown left) indicates compliance of this device with the EMC (Electromagnetic Compatibility) and LVD (Low Voltage Directive) standards of the European Community

Please read all instructions and precautions carefully and completely before operating your Simaudio MOON CD 5.3 CD Player.

- ALWAYS disconnect your entire system from the AC mains before connecting or disconnecting any cables, or when cleaning any component.
- 2. The MOON CD 5.3 must be terminated with a three-conductor AC mains power cord which includes an earth ground connection. To prevent shock hazard, all three connections must ALWAYS be used. Connect the MOON CD 5.3 only to an AC source of the proper voltage; Both the shipping box and rear panel serial number label will indicate the correct voltage. Use of any other voltage will likely damage the unit and void the warranty
- 3. AC extension cords are **NOT** recommended for use with this product.
- 4. **NEVER** use flammable or combustible chemicals for cleaning audio components.
- 5. **NEVER** operate the MOON CD 5.3 with any covers removed. There are no user-serviceable parts inside. An open unit, especially if it is still connected to an AC source, presents a potentially lethal shock hazard. Refer all questions to authorized service personnel only.
- 6. **NEVER** wet the inside of the MOON CD 5.3 with any liquid. If a liquid substance does enter your MOON CD 5.3, immediately disconnect it from the AC mains and take it to your MOON dealer for a complete check-up.
- 7. **NEVER** spill or pour liquids directly onto the MOON CD 5.3.
- 8. **NEVER** block air flow through ventilation slots or heatsinks.
- 9. **NEVER** bypass any fuse.
- 10. **NEVER** replace any fuse with a value or type other than those specified
- 11. **NEVER** attempt to repair the MOON CD 5.3. If a problem occurs contact your MOON dealer.
- 12. **NEVER** expose the MOON CD 5.3 to extremely high or low temperatures.
- 13. **NEVER** operate the MOON CD 5.3 in an explosive atmosphere.
- 14. **ALWAYS** keep electrical equipment out of reach of children.
- 15. **ALWAYS** unplug sensitive electronic equipment during lightning storms.

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Revision no.: 20091110

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Congratulations!

Thank you for selecting the **MOON CD 5.3 CD Player** as a part of your hi-fi reproduction system. This CD Player has been designed to offer state-of-the-art high-end performance in an elegant package, while retaining all the sonic hallmarks on which Simaudio has made its reputation. We have spared no effort to ensure that it is amongst the finest CD players available in its class. We have been building high-performance audio equipment for over 25 years, and the know-how gained through our cumulative experience is an important reason why **MOON** CD Players are so musically satisfying.

The performance of your **CD 5.3** will continue to improve during the first 400 hours of listening. This is the result of a "break-in" period required for the numerous high quality electronic parts used throughout this CD Player.

Before setting up your new MOON CD 5.3, we encourage you to please read this manual thoroughly to properly acquaint yourself with its features. We hope you enjoy listening to the MOON CD 5.3 CD Player as much as the pride we have taken in creating this fine audio product. We understand the power and emotion of music and build our products with the goal of faithfully capturing these elusive qualities.

The information contained in this manual is subject to change without notice. The most current version of this manual is available on our official website at http://www.simaudio.com/manuals.htm

Unpacking

The **MOON CD 5.3 CD Player** should be removed from its box with care. The following accessories should be included inside the box with your CD Player:

- ✓ AC power cable
- ✓ FRM Full-Function remote control with three 'AAA' batteries (USA and Canada only)
- ✓ Four (4) pointed screw-on tips (for the CD player's legs)
- ✓ Four (4) protective flat dimpled discs to be placed under the screw-on cones
- ✓ This owner's manual
- ✓ Warranty and product registration information (USA and Canada only)

As soon as the CD Player is safely removed from its box and placed down, perform a thorough physical inspection and report any physical damage to your dealer <u>immediately</u>. We suggest that you keep all of the original packaging, storing it in a safe, dry place in the event that you're required to transport the CD Player. The customized packaging is specially designed to protect the **MOON CD 5.3 CD Player** from potential damage that may occur during shipping.

Please write the serial number of your new Simaudio MOON CD 5.3 in the space provided below for future reference.
Serial No.:

Congratulations / Unpacking

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Introduction

Your **MOON CD 5.3 CD Player** incorporates many significant design features to achieve its "world class" level of performance. This is an abbreviated list of the more important features:

Separate digital and analog power supplies using toroidal transformers with eight stages of DC voltage regulation.

BurrBrown BB1730E high-resolution 24-bit/192-kHz Digital-to-Analog Converter and 8X oversampling digital filter.

Internal upsampling which uses 24-bit/352.8kHz processing.

Philips based transport mechanism using in-house developed control software.

Accurate 50 PPM digital clocking system.

Advanced analog signal path using a DC servo circuit and proprietary 6db/octave analog filter.

Pure copper circuit board tracings with extremely low impedance characteristics.

IR input for external control.

Separate digital and analog audio circuitry mounted on a single circuit board, **each with their own respective ground plane**, which minimizes signal path lengths and eliminates any potential for interference and signal degradation.

Extremely rigid chassis construction to minimize the effects of external vibrations.

Accurate matching of the very finest high quality electronic components in a symmetrical circuit design.

Designed to be **powered up at all times** for optimal performance.

Low operating temperature for a longer than normal life expectancy.

Installation & Placement

The **MOON CD 5.3** requires reasonable ventilation to maintain an optimum and consistent operating temperature. As a result, it should be placed in a location with empty space around it for proper heat dissipation. As well, it should be placed on a solid level surface. You should avoid placing it near a heat source or inside a closed cabinet that is not well ventilated as this could compromise the CD Player's performance and reliability. The **CD 5.3** uses two toroidal transformers; even though they are well shielded, you should not place the player too close to source components sensitive to EMI, such as turntables and phono preamplifiers. *You should never place another component directly on top of this CD Player.*

Once you've decided on a location for the **CD 5.3**, you should install the four (4) pointed screw-on tips into the four (4) cylindrical legs of the CD Player chassis. These tips will easily scratch most surfaces, therefore it's advisable to follow these instructions: Place your **CD 5.3** on a soft surface (i.e. carpet) and carefully turn it so that it rests on its side. Screw one tip into each of the four legs. Carefully move the chassis to it's pre-determined location. In the event that the surface you have chosen isn't perfectly level, each of the four (4) tips on your **CD 5.3** are height adjustable; Included with these tips is a small metal rod, intended for final adjustments (if necessary) by simply threading it through the tiny hole of each of these tips and then gently turning the tip. These adjustable screw-on tips also provide mechanical grounding of the chassis.

Finally, if you have not used a CD Player before, you may be unaware that compact discs are very easily damaged, and must be kept very clean. Always store them in their jewel cases. Dirty or finger-marked discs will reproduce music poorly. Moreover, the player may even mute parts of a track, or be unable to find some tracks. If you need to clean a CD remember to use a soft lint-free cloth, using a radial action (i.e. starting from the center and aiming towards the edges). Do not attempt to clean a compact disc using a rotating motion.

Introduction / Installation & Placement

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Front Panel Controls

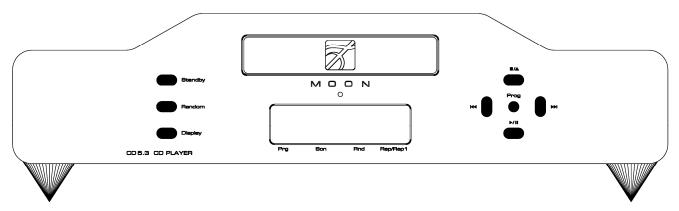


Figure 1: MOON CD 5.3 Front panel

The front panel will look similar to Figure 1 (above). The large digital display window indicates the track number of the compact disc currently playing (or the total number of tracks in stop mode) and time information. There are four (4) different display modes for time information; the one engaged is dependant on the "Display" button which is described in detail on the next page of this section. On the bottom of the display window, from left to right, are five (5) indicator LED's that will illuminate as follows (each of these functions is described in detail in this section):

'Prg' - when Program mode is engaged 'Rnd' - when "Random" play mode is engaged

'Rep' - when repeat mode is engaged for the entire compact disc 'Rep1' - when repeat mode is engaged for one (1) specific track

The "Standby" button disengages the transport mechanism from the rest of the **CD 5.3's** circuitry and turns off the digital display. However, when in "Standby" mode, all digital and analog audio circuitry remains powered up to help maintain optimal performance. The blue LED on the **CD 5.3** will no longer be illuminated when the player is in "Standby" mode.

The "Random" button, when pressed, will play each of the tracks on a compact disc in a completely random order, as opposed to the sequential order as they appear on the disc. If you have already created a program of selected tracks, it will play these programmed tracks in a random order.

The "Display" button allows you to scroll through the four (4) different display modes for time information, as well as turn the digital display on and off. Each time you press the "display" button, the system scrolls to the next time information mode. Bt default, the **CD 5.3** will display the elapsed time of the track currently playing. The scrolling order is as follows:

- 1. Elapsed time of the current track
- 2. Remaining time of the current track
- 3. Elapsed time of the entire compact disc (or programmed tracks)
- 4. Remaining time of the entire compact disc (or programmed tracks)

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Front Panel Controls (continued)

To load a compact disc into the **CD 5.3**, press \blacksquare/\triangle , put the CD in the drawer with the label side facing up and press \blacksquare/\triangle again to close the drawer. When a CD is first loaded into the **CD 5.3**, the total number of tracks, and total playing time will appear in the display. In the event that you load a CD that contains no musical tracks (i.e. data only), the word 'DATA' will appear in the large digital display window and the drawer will automatically open to eject this unplayable CD.

Press \triangleright / II to begin playing a compact disc. Pressing \triangleright / II while a disc is already playing results in the current track being paused; Press \triangleright / II again to resume playing the disc.

Press \bowtie to search backward or \bowtie to search forward through the compact disc's tracks. When you've located the track number, press \triangleright /II to begin playing that track. In the event that you initiate a forward or backward track change while a disc is already playing, it will automatically start playing the track you select; you need not press \triangleright /II.

Press $\blacksquare/\blacktriangle$ to stop the compact disc from playing. The laser will return to the start position of the disc. To open the drawer and remove the compact disc, press $\blacksquare/\blacktriangle$ again.

If you want to turn the display off, press and hold the "Display" button for 2 seconds. When the display is off, it will still come back on for a short period of time whenever you press any of the buttons located on the front panel or the remote control; when you are done, the display will automatically turn off again. To turn the display back on again, press the "Display" button again. The sonic performance of the **MOON CD 5.3 CD Player** may improve slightly when the display is turned off.

The "Prog" button allows you to program a selection of tracks in the order that you wish to listen them. After loading a compact disc into the **CD 5.3**, select the first track you wish to listen to, using the w or buttons and then press "Prog". To program a second track, select it the same way you did for the first one and press "Prog" again. Repeat this operation as many times as you want to program tracks. Once you've completed programming your track selection(s), the digital display window will show the number of tracks that have been programmed and their total time. To begin playing your programmed selections, simply press the ▶ button. Pressing ■ will only suspend the playing of the programmed selection. Pressing ■ a second time will clear your program selection from the **CD 5.3's** memory. As well, opening the drawer at any time will also clear your program.

The "Repeat" button (Remote control operation ONLY) performs three (3) functions: Pressing "Repeat" once will result in the entire disc being played again once it has reached the end of the final track. Pressing "Repeat" a second time will result in the track currently playing being repeated again once it has ended. To cancel this mode, simply press the "Repeat" button a third time.

If you have created a program of selected tracks, pressing "Repeat" once will result in your entire program repeating itself once it has completed its cycle; Pressing "Repeat" a second time will result in the current track from your program being played again once it has ended; Pressing "Repeat" a third time will terminate the "Repeat" mode.

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Rear Panel Connections

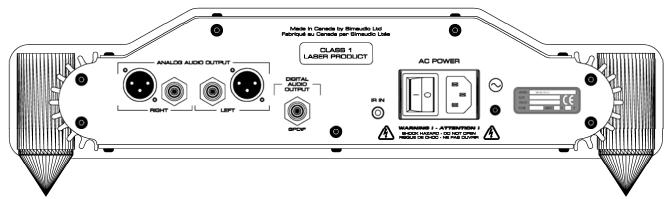


Figure 2: MOON CD 5.3 Rear panel with optional balanced analog outputs

The rear panel will look similar to Figure 2 (above). On the left side is the analog audio output. There is one pair of RCA analog audio output connectors that you should connect to a stereo analog input on your preamplifier or integrated amplifier. Don't hesitate to use good quality interconnect cables.

In the event that you have purchased a **MOON CD 5.3** with optional balanced analog circuitry, there will be a pair of XLR balanced outputs located immediately beside each of the RCA analog outputs. In this case, we strongly recommend that you use the balanced XLR connectors on your **CD 5.3** to maximize its level of performance:

When using an unbalanced interconnect, the audio signal runs through both the center wire and the shield/ground wire. Any noise picked up by this interconnect (ie. nearby magnetic fields such as an AC power cord) will be reproduced by the amplifier and heard through the loudspeakers. Conversely, a balanced interconnect has three separate conductors; one for the ground and two for the actual signal. These two signals are identical except that one is 180 degrees out of phase with the other. For example, when one conductor is carrying a signal of +4 Volts, the other will be carrying a signal of -4 Volts. When these two inverted signals on a balanced line are input into a differential preamplifier, any noise picked up by the interconnect will be eliminated since a differential circuit amplifies only the difference between these two signals: Noise on a balanced interconnect will be equal on both conductors and therefore not be processed.

There is one (1) "Digital Audio Output" located near the center of the rear panel. It uses an RCA connector labeled "S/PDIF" which allows you to use the **CD 5.3** as a CD transport whereby, digital signal processing will be handled externally by another DAC or surround processor. You should use a 75Ω digital audio cable terminated with RCA connectors.

Your **MOON CD 5.3** is equipped with a 1/8" mini jack input for use with aftermarket infrared remote control receivers. The "IR in" connector is located to the right of the digital audio output. Finally on the right side is the "AC Power" section with a main power switch ("0"=off, "1"=on) and IEC receptacle for the included AC power cord.

All rear panel connectors have been chosen because they provide the best possible connections for your unit. A poor contact will degrade the signal substantially, and plugs and sockets should all look clean and free of dirt and corrosion. The easiest way to clean them is to remove the cables from their sockets and push them back in again. This procedure requires that your CD Player and the rest of your components be completely turned off. Not heeding this warning may result in serious damage to your equipment. Special contact cleaning fluids and enhancers should not be used, as they deposit a difficult to remove residue which degrades the performance of your components.

Rear Panel Connections

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Operating the CD 5.3

We recommend that you leave your **MOON CD 5.3** CD Player powered up at all times to maintain optimal performance. In the event that you plan to be away from your home for a few days, powering off the CD Player may not be a bad idea. Once fully "broken-in", please keep in mind that your **CD 5.3** will require several hours of playing time before it reaches its peak performance after you've powered it up again.

Turning on your MOON CD 5.3 for the first time

Prior to turning this CD Player on for the first time, make sure that every cable is properly connected to avoid any problems. Then turn on your CD Player in the following manner:

- 1) Flick the main rocker switch labeled "POWER" to the '1' (on) position on the rear panel.
- 2) Press the push button labeled "Standby" on the **CD 5.3**, the blue LED will confirm operation and the digital display will show 'no disc'. You are now ready to load a compact disc and begin listening to music.

On and Off Sequence

To avoid having any annoying noises (i.e. "thumps" and "pops") emanate from your speakers when powering your CD 5.3 on or off, you should

- 1) Always power up your CD 5.3 CD Player before powering up your preamplifier and/or integrated amplifier.
- 2) Always power down your CD 5.3 CD Player after powering down your preamplifier and/or integrated amplifier.

Operating the CD 5.3

Remote Control Operation

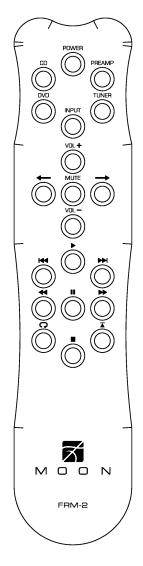


Figure 3: FRM-2 Remote Control

The MOON CD 5.3 CD Player uses the 'FRM-2' full function, all aluminum remote control (figure 3). It operates on the Philips RC-5 communication protocol and is can be used with other Simaudio MOON components.

The 'FRM-2' remote uses three AAA batteries (included). To install them, use the supplied Allen key to remove the three screws located on the back plate; insert the batteries in the correct direction and then screw the back plate back into place.

To operate the **CD** 5.3 with this remote control, you must first press the button labeled 'CD' on the top left corner.

The lower section of the 'FRM-2' has nine (9) buttons which operate the CD 5.3. All of these functions are available on either the top panel or front panel of the CD Player. Please refer to these aforementioned sections for a more detailed description of each of these buttons:

- ▶ Play the compact disc loaded into the player
- K Skip to the previous track on the disc
- M Skip to the next track on the disc
- ≪ Scan backwards through the current track of the disc
- II Pauses the player
- >> Scan forward through the current track of the disc
- > Repeat the entire disc or the current track
- Stop playing the current track
- ▲ Open/Close the CD drawer

Specifications

Single-ended
25VA
10VA
6,600µF
8,800µF
Philips L1210/S
BurrBrown PCM1730E
20Hz - 20kHz +0/-0.2dB
2Hz - 72kHz +0/-3dB
< 0.001%
< 0.003%
> 114dB
> 114dB @ full output
50V/µs
> 112db
±1.0dB to below 110dbFS
< 50 picoseconds RMS
1 pair Single-ended RCA's
100Ω
2.0 Volts RMS
1 pair Balanced XLR's
50Ω
4.0 Volts RMS
S/PDIF RCA
75Ω (0.5 Volts)
All Aluminum Full-Function
15 Watts
120V / 60Hz or 240V / 50Hz
26 lbs / 12 Kgs
17 x 5 x 15



Fuse Replacement: For the 120V version use a 0.5A slow blow (5 x 20mm size).

For the 230V version use a 0.25A slow blow (5 x 20mm size).

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