



Sapphire SACD/CD Player

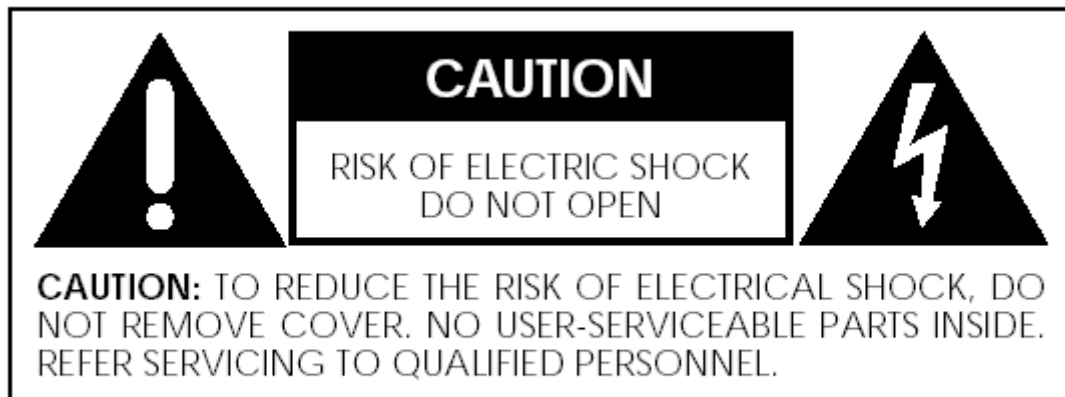
Operating Manual

North Star Design®

SAPPHIRE

SACD/CD PLAYER

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



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.



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.

Important Safety Instructions

Please read all instructions and precautions carefully and completely before operating your North Star Design® SAPPHIRE SACD PLAYER.

1. **ALWAYS** disconnect your entire system from the AC mains before connecting or disconnecting any cables, or when cleaning any component.
2. This product 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.
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 this product with any covers removed.
6. **NEVER** wet the inside of this product with any liquid.
7. **NEVER** pour or spill liquids directly onto this unit.
8. **NEVER** bypass any fuse.
9. **NEVER** replace any fuse with a value or type other than those specified.
10. **NEVER** attempt to repair this product. If a problem occurs, contact your North Star Design® retailer.
11. **NEVER** expose this product to extremely high or low temperatures.
12. **NEVER** operate this product in an explosive atmosphere.
13. **ALWAYS** keep electrical equipment out of the reach of children.
14. **ALWAYS** unplug sensitive electronic equipment during lightning storms.

Introduction

Welcome to the North Star Design “family” and congratulations on your purchase of our new SACD/CD PLAYER SAPPHIRE. With its combination of features, precision electronic circuitry and accurately machined chassis components throughout, your SAPPHIRE SACD PLAYER will offer you many years of musically satisfying enjoyment. Please take a few moments to read the remainder of this Operating Manual. A thorough understanding of the operational features will allow you to gain the maximum performance and ease of use for which this SACD PLAYER was designed.

Enjoy the music!

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Initial Inspection

Inspect the shipping container for damage. If the shipping container, packing material, SACD PLAYER or accessories are damaged or missing, notify your dealer and the shipper (if a claim is to be made). Note: Many shippers require notification and an inspection within twenty-four (24) hours of delivery to ascertain the nature of damages incurred.

Your SACD PLAYER SAPPHIRE has undergone extensive performance evaluations, listening tests, quality control inspections and a minimum twenty-four (24) hour burn-in period prior to shipment and should be in a perfect operational condition upon receipt. If the SACD PLAYER does not operate correctly, please notify your dealer immediately.

We strongly suggest that you save all packing materials. If the SACD PLAYER is returned to your dealer the original packing materials must be used for shipment. Neither North Star Design nor the shipper can be held responsible for damages incurred during transit if the original factory packing is not used. All factory returns require that a Return Authorization number be issued by North Star Design prior to shipment.

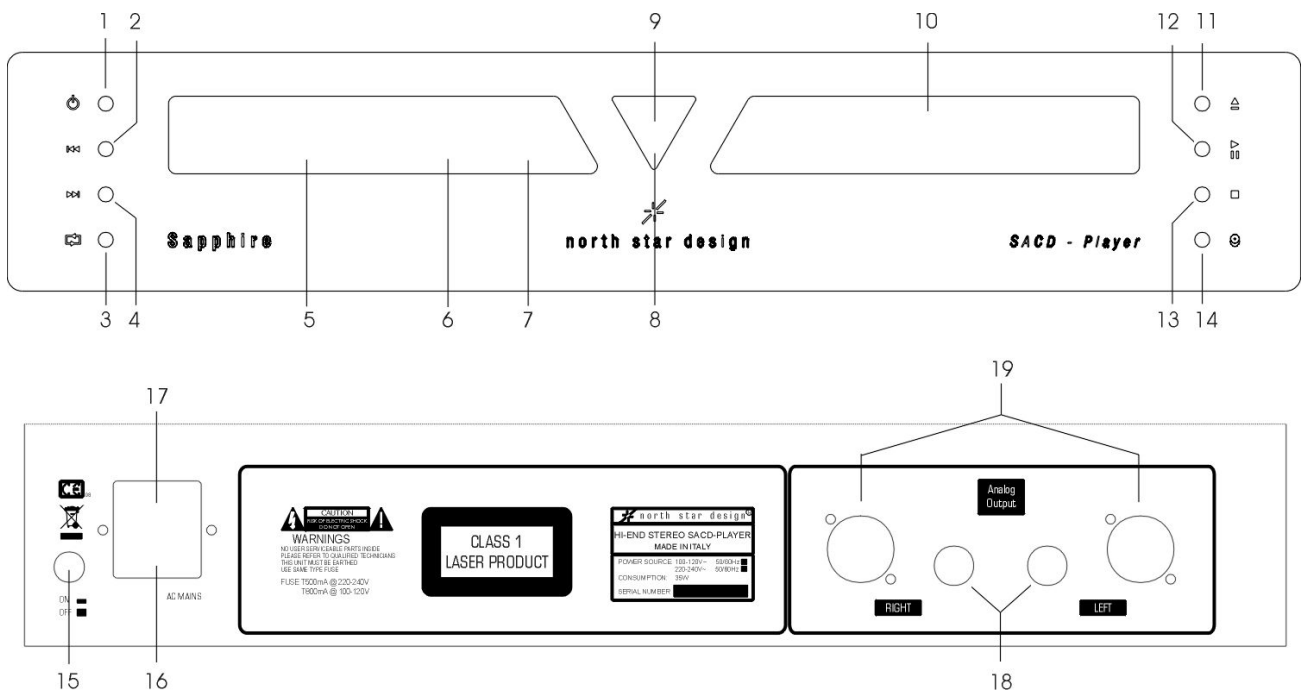
Contents

Ensure that all of the auxiliary components listed below are enclosed into the box.

- 1 One (1) Operating Manual
- 2 One (1) AC power cable
- 3 One (1) Remote Control
- 4 One (1) warranty card (in some countries warranties are provided by the respective importer)

Installation

Locate the SAPPHIRE SACD PLAYER as close as possible to its final installation point. Allow access to the rear panel for making connections.



Front & Rear Panel Function Controls

Before attempting any system interconnection, please familiarize yourself with the front and rear panel controls of the SAPPHIRE SACD PLAYER. The descriptions below refer to the numbers and letters associated with the features in the diagram above.

Front Panel

1 STAND-BY PUSHBUTTON

When in stand-by mode, push to switch in Operate mode. When in Operate mode, push to switch in Stand-by mode.

WARNING: Always put in stand-by the SACD Player before switch-off the unit by rear panel switch.

2 PREV PUSHBUTTON

When pressed select the previous track

3 NEXT PUSHBUTTON

When pressed select the next track

4 REPEAT PUSHBUTTON

Press this button once and all the tracks will be repeated. The display will show «RPT TRACK». Press the button again, and it will repeat the disc. The display will show «RPT DISK». Press the button again, and the display will show «RPT OFF».

5 DISPLAY

6 SACD DISC LED INDICATOR

Glow blue when the Player read the SACD layer.

7 REMOTE SENSOR RECEIVER

8 OPERATE LED INDICATOR

The **Operate LED** show the operating mode of your SACD Player:

Glow blue when the SACD Player is in Operation mode.

Off the SACD Player is in Stand-by.

9 STAND-BY LED INDICATOR

The **Stand-by LED** show the operating mode of your SACD Player:

Glow red when the SACD Player is in Stand-by.

Off the SACD Player is ready to use.

If the SACD Player will not turn on, you may want to check the **rear panel AC mains switch**, your AC connections, or have your dealer inspect the rear panel fuses.

10 DISC TRAY

11 OPEN/CLOSE PUSHBUTTON

12 PLAY/PAUSE PUSHBUTTON

13 STOP PUSHBUTTON

14 DISC SELECTION PUSHBUTTON

When the Player is in STOP, with a SACD inside, press to change layer, from SACD to CD and from CD to SACD.

Rear Panel

Caution!

Switch Off the SAPPHIRE SACD PLAYER when you need to connect or disconnect any cables.

15 AC MAINS SWITCH

This switch may be used to disconnect the power supply from the AC mains without having to actually unplug the SACD Player from the wall outlet. If you plan to be away for an extended period, or have any other reason to turn the SACD Player completely off, you may use the **AC mains switch**.

16 AC MAINS FUSES

Two slow-blow 500mA (220-240V), 800mA (100-120V) fuses are located inside a small drawer in the AC main inlet. If you suspect that your AC fuse have blown, disconnect the SACD Player from the AC mains and contact your North Star Design dealer for assistance.

17 AC MAINS INLET

Standard IEC power cords is provided with the SAPPHIRE SACD Player. High quality power cords will improve the sonic performances; ask your North Star Design dealer.

The North Star Design SAPPHIRE SACD Player has been safety-tested and is designed for operation with a three-conductor power cord. Do not defeat the “third pin” or earth ground of the AC power cord.

18 UNBALANCED ANALOGUE OUTPUT

Use this output to connect the SACD Player to the input of a preamplifier or integrated amplifier using interconnect provided with RCA connectors (not shipped with the equipment).

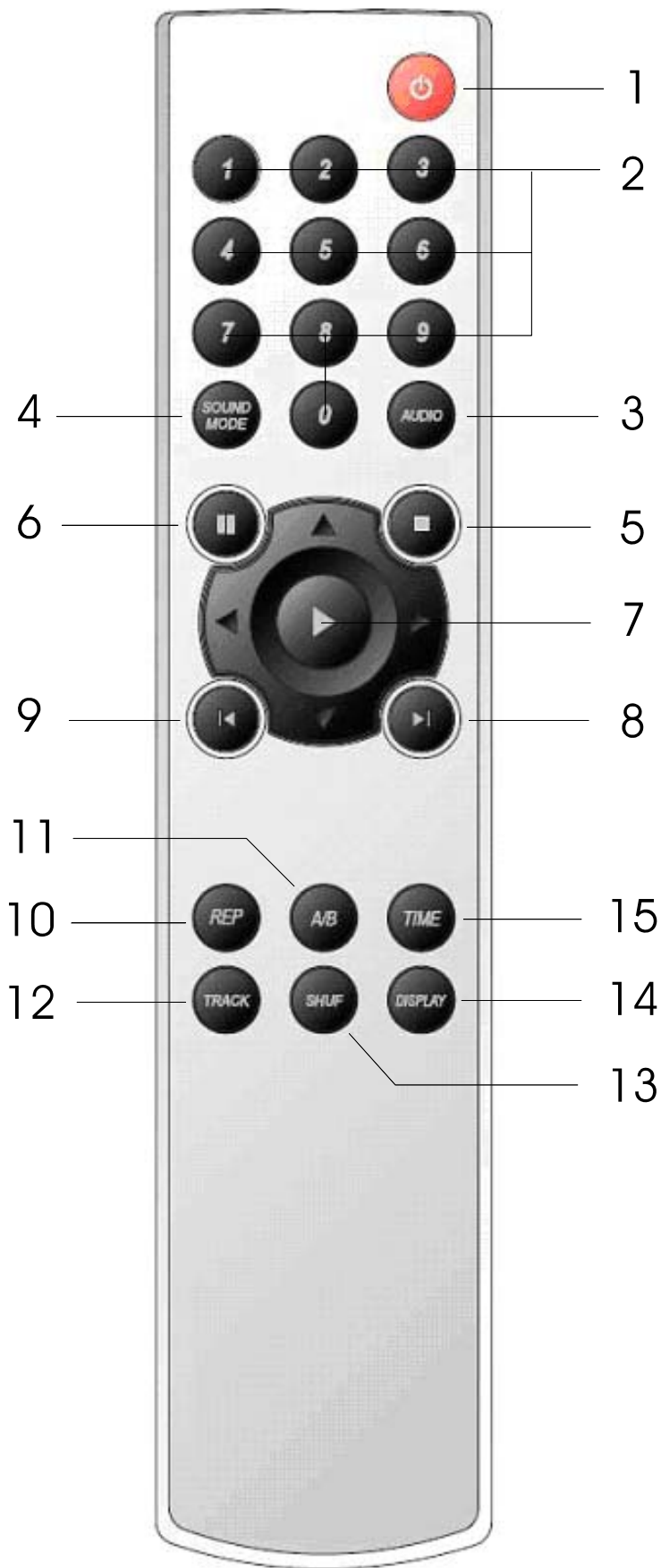
19 BALANCED ANALOGUE OUTPUT

Use this output to connect the SACD Player to the input of a preamplifier or integrated amplifier using interconnect provided with XLR connectors (not shipped with the equipment).

Danger! Potentially dangerous voltages and current capabilities exist within the SAPPHIRE SACD Player, when connected to the AC mains. Do not attempt to open any portion of the SACD Player cabinet.

There are no user-serviceable parts inside the SAPPHIRE SACD Player. All service of this product must be referred to a qualified North Star Design dealer or distributor.

REMOTE CONTROL



1. STBY Standby on/off
2. 0-9 Press these buttons to select a specific track on the disc. For track 10 and above, the second digit of the number must be pressed within one second. Then press PLAY button to change rapidly.
3. AUDIO When the Player is in STOP, with a SACD inside, press to change layer, from SACD to CD and from CD to SACD.
4. SOUND MODE When the Player read a SACD disc, pressing this button, you can select 6ch or 2ch tracks.
5. STOP – OPEN/CLOSE Pressing this button you stop the reproduction; pressing for more than one second, the button made the OPEN/CLOSE function.
6. PAUSE On/off.
7. PLAY
8. NEXT TRACK Pressing once you select the next track; keeping pressed the button you select forward searching function; 5 searching speed are available pressing the next track button.
9. PREVIOUS TRACK Pressing once you select the previous track; keeping pressed the button you select backward searching function; 5 searching speed are available pressing the previous track button.
10. REP Press this button once and the current track will be repeated. The display will show «RPT TRACK». Press the button again, and it will repeat all the tracks. The display will show «RPT DISC». Press again and the display will show «RPT OFF».
11. A/B Repeat a segment of the disc/track. Press the button once to mark the start Press it again at the end of the desired sequence. The selected area will play continuously until the STOP button is activated.
12. TRACK The Player will reproduce the first 6 seconds of each track.
13. SHUF Tracks will be played in a random order.
14. DISPLAY Pressing this button you can select the display brightness; Mode 1, Mode 2, Normal
15. TIME Normally the display show the time from incoming of the track. Pressing once the display will show the time remaining at the end of the track. Pressing again the display will show the time from the incoming of the disc. Pressing again the display will show the time remaining at the end of the disc.

Replacing remote control batteries

Replace used batteries opening the battery compartment cover. Lift the cover off, and insert a fresh set of batteries. Be careful to follow the + and – polarity indications at the bottom of the battery compartment. Battery: 2 x CR2025: 3Volts.

SPECIFICATIONS

| | |
|-------------------------------|---|
| Channel Separation | Better than 110dB |
| CD formats supported | SACD Stereo, CD, CD-R |
| Digital to analogue converter | Dual differential 24 bit DACs |
| Frequency response | 0 Hz – 20 kHz (PCM) 0 Hz – 39 kHz (DSD) |
| Dynamic range | > 100 dB (PCM) > 130 dB (DSD) |
| Maximum Output (0dbFS) | 3.66 V balanced 1.83 V single ended |
| Output | 1 pair XLR balanced audio output 1 pair RCA single ended audio output |
| Output impedance | 110 Ohm |
| Power supply | 100 V, 120 V, 230 V, 240 V (50-60 Hz) factory set for destination country |
| Power consumption | 35 W max. |
| Dimensions | 17 in (W) x 15.5 in (D) x 3.35 in (H) 43.5 cm (W) x 35 cm (D) x 8.5 cm (H) |
| Shipping Weight | 26lbs. (12.0 kg) |

NOTES



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