



Monoblock Amplifier

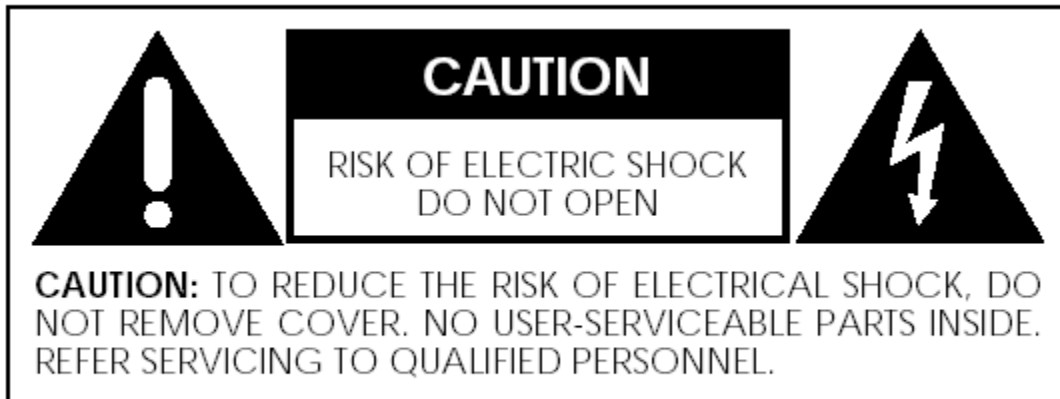
Operating Manual

North Star Design®

MONOBLOCK

Power Amplifier

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® power amplifier.

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** block air flow through 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 this product. If a problem occurs, contact your North Star Design® retailer.
12. **NEVER** expose this product to extremely high or low temperatures.
13. **NEVER** operate this product in an explosive atmosphere.
14. **ALWAYS** keep electrical equipment out of the reach of children.
15. **ALWAYS** unplug sensitive electronic equipment during lightning storms.

Introduction

Welcome to the North Star Design “family” and congratulations on your purchase of what is unquestionably one of the world’s finest audio power amplifiers. With its combination of features, precision electronic circuitry and accurately machined chassis components throughout, your Monoblock Amplifier 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 Amplifier was designed.

Enjoy the music!

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Initial Inspection

Inspect the shipping container for damage. If the shipping container, packing material, amplifier 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.

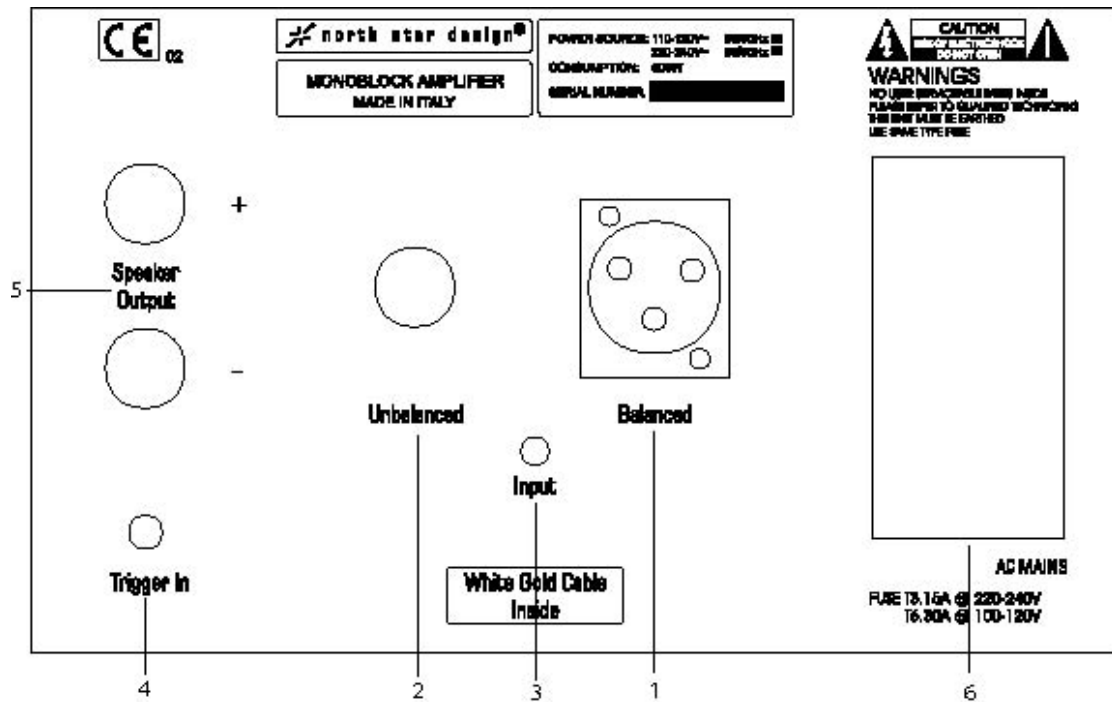
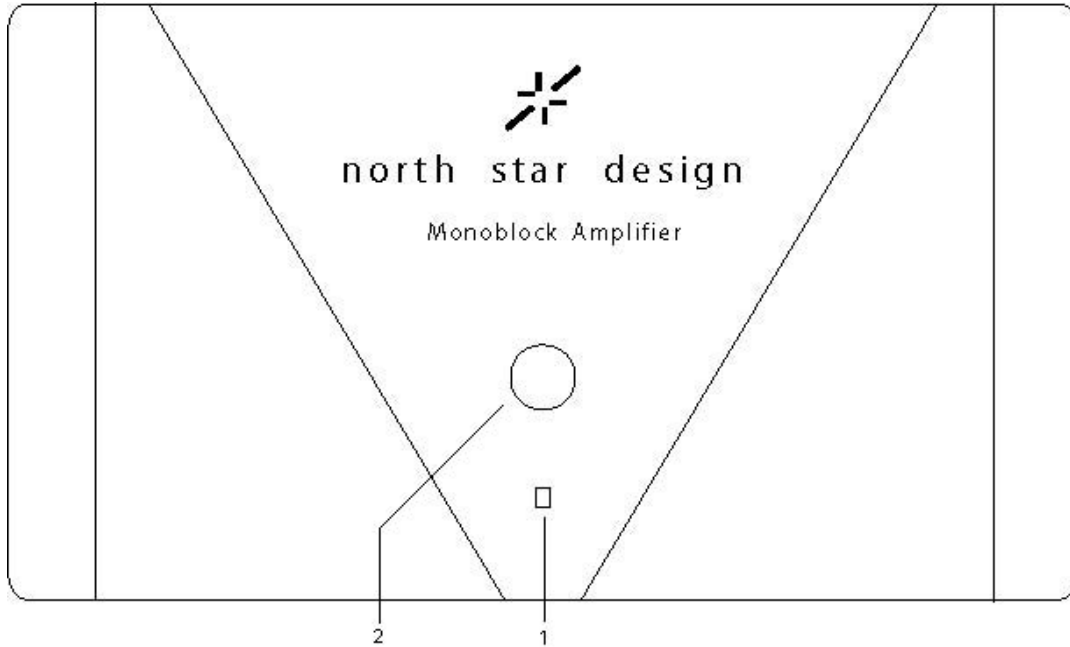
Your Monoblock Amplifier has undergone extensive performance evaluations, listening tests, quality control inspections and a minimum forty-eight (48) hour burn-in period prior to shipment and should be in a perfect operational condition upon receipt. If the Amplifier does not operate correctly, please notify your dealer immediately.

We strongly suggest that you save all packing materials. If the Amplifier 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) warranty card (in some countries warranties are provided by the respective importer)



Installation

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

The Monoblock Amplifier is convection cooled, eliminating the need for fan or forced air cooling. When operating, the chassis should have at least five (5) cm (2 inches) of air space around the heatsink areas.

Front & Rear Panel Function Controls

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

Front Panel

1 INDICATOR LED

The **indicator led** shows the operational status of your Monoblock Amplifier:

Blue brightness indicates that the Monoblock is **on** and ready to be used.

Red brightness indicates that the Monoblock is in **standby**.

Completely off indicates that the **rear panel AC mains switch** has been turned off.

If the amplifier 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 (which are *not* user-serviceable).

2 STANDBY BUTTON

When power is applied to the Monoblock power amplifier, and assuming the **rear panel AC mains switch** is set to its **on** position, the amplifier remains in standby for few seconds and then switch on. Subsequent pressing of the Standby button will toggle the Monoblock between **standby** mode and fully **on**.

Rear Panel

Caution! Turn the volume on your preamplifier all the way down before attempting to connect anything to your Monoblock Amplifier.

Switch the Monoblock in standby when you need to connect or disconnect the speaker cables; make sure to avoid any shorts between the speaker cables before switch the Monoblock ON.

1 BALANCED AUDIO INPUT

Accepts a signal from a preamplifier with balanced outputs via a high quality XLR connector. Select the balanced input with the switch 3.

The pin assignments of this XLR-type female input connector is:

Pin 1: Signal ground

Pin 2: Signal + (non-inverting)

Pin 3: Signal – (inverting)

These pin assignments are consistent with the standards adopted by the Audio Engineering Society. Refer to the operating manual of your balanced output preamplifier to verify that the pin assignments

of its output connectors correspond to your Monoblock Amplifier. If not, wire the cables so that the appropriate output pin connects to the equivalent input pin.

2 SINGLE-ENDED INPUT

This RCA connector accepts a single-ended input from a preamplifier with single-ended (RCA) outputs.

Select the Unbalanced input with the switch 3.

3 BALANCED, SINGLE-ENDED INPUT SWITCH

This switch allow to select the Balanced Input or Unbalanced Input.

4 REMOTE TURN-ON, TURN-OFF INPUT

The Monoblock Amplifier may be controlled by a “linked” North Star Design “Linestage” preamplifier when the **trigger** communication port is connected to the **trigger** port of the preamplifier.

Refer to Linestage Preamplifier Operating Manual for the proper operation.

5 SPEAKER BINDING POSTS

The Monoblock Amplifier is equipped with original WBT high-current binding posts for output termination to a loudspeaker system. To take full advantage of the Monoblock sonic quality, we recommend using high-quality speaker cable; ask your North Star Design dealer.

Caution!

NEVER connect the North Star Design Monoblock output terminals to any device other than a loudspeaker.

NEVER short-circuit the amplifier's output terminals.

NEVER connect the output terminals of one amplifier to the output terminals of another amplifier.

We recommend speaker wires be connected to the Monoblock via high quality spade lugs, either soldered directly to the cable or crimped with extremely high pressure—or *both* crimped and soldered.

Connect a + (positive or red) output post of the Monoblock to the + (positive or red) input terminal of the appropriate loudspeaker.

Connect a – (negative or black) output post of the Monoblock to the – (negative or black) input terminal of the appropriate loudspeaker.

6 AC MAINS INLET AND AC MAINS SWITCH

Standard IEC power cords is provided with the Monoblock Power Amplifier. High current is supplied to Monoblock when operating into low impedance loads. High quality power cords will improve the sonic performances; ask your North Star Design dealer.

The North Star Design Monoblock Amplifier 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.

An **AC mains switch** is located adjacent to the power cord on the rear panel of the amplifier. This switch may be used to disconnect the power supply from the AC mains without having to actually unplug the amplifier from the wall outlet. If you plan to be away for an extended period, or have any other reason to turn the amplifier completely off, you may use the **AC mains switch**.

Two slo-blow 3,15A (220-240V), 6,3A (100-120V) fuses are located inside a small drawer in the AC main inlet. If you suspect that your AC fuses have blown, disconnect the Monoblock from the AC mains and contact your North Star Design dealer for assistance.

Danger! Potentially dangerous voltages and current capabilities exist within the Monoblock power amplifier, even when disconnected from AC mains. Do not attempt to open any portion of the Monoblock cabinet.

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

TECHNICAL SPECIFICATIONS

OUTPUT POWER	CONTINUOUS RMS WATTS
@ 8 OHMS	100 WATTS
@ 4 OHMS	200 WATTS
BANDWIDTH	0.1 Hz to 120 kHz, -3 dB
THD AND NOISE	less than 0.1% at rated power
DAMPING FACTOR	greater than 100, 20 Hz to 20 kHz, 8 ohms
OVERALL GAIN & SENSITIVITY	26dB
INPUT IMPEDANCE	
BALANCED	36k
UNBALANCED	47k
ABSOLUTE PHASE	normal
POWER CONSUMPTION	20 watts standby 500 watts maximum
INPUTS	user selectable on back panel
BALANCED	1 per channel (XLR)
UNBALANCED	1 per channel (RCA)
OUTPUTS	1 pair binding posts
DIMENSIONS	8.5 in (W) x 21.2 in (D) x 4.7 in (H) 21.5 cm (W) x 54.0 cm (D) x 12 cm (H)
WEIGHT	40 lbs. (18 Kg)

NOTES



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