



Linar Audio Model 250i

High Performance Audiophile

Stereo MOSFET Power Amplifier

Owner's Manual

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.
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.**

CAUTION
RISK OF ELECTRICAL
SHOCK DO NOT OPEN
RISQUE DE CHOC ELECTRIQUE
NE PAS OUVRIR LE COUVERCLE

Please read completely and observe all instructions and precautions in this owner manual before operating your Linar Audio Amplifier. Retain this owner's manual for future reference

1. **ALWAYS** disconnect the AC main power cord mains before connecting or disconnecting any cables.
2. **ALWAYS** use three-connector AC main power cord including a protective grounding protection.
3. **NEVER** use “ground lifting” and ground plug must be left intact. Failure to comply will void the warranty and could pose a serious risk to your health and safety.
4. **ALWAYS** provide a minimum a 10cm (4inches) of clearance above the amplifier to allow for heat dissipation.
5. **NEVER** use flammable or combustible chemicals for cleaning audio components.
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 ventilation slots or heatsinks.
9. **NEVER** bypass any fuse.
10. **NEVER** replace any fuse with a value or type other than that specified.
11. **NEVER** attempt to repair this product. If a problem occurs, contact your Linar Audio dealer.
12. **NEVER** remove the top cover. Internal components can store electricity and could result in serious electrical shock or injury. There are no user-serviceable parts.
13. **NEVER** expose this product to extremely high or low temperatures.
14. **NEVER** operate this product in an explosive atmosphere.
15. **ALWAYS** unplug sensitive electronic equipment during lightning storms.

Contents

Important Safety Instructions2

Introduction5

Unpacking5

Connections6

Front Panel.....9

Specifications 10

Service and Warranty..... 11

Introduction

Thank you for choosing the Linar Audio Model 250i Stereo Amplifier.

Linar Audio Preamplifiers and Power Amplifiers are the fruit of extensive research and development in the audio field. Linar Audio Amplifiers are designed to provide the world-class performance at reasonable prices.

The Linar 250i Amplifier is designed with J-FET transistors in the input stage and the latest generation of MOSFET transistors in the output stage, without negative feedback, making the amplifier extremely stable under capacitive load. The circuitry is fully complementary from input to output.

Aesthetically stunning and sonically spectacular, the Linar 250i Amplifier is a perfect match for your high-end 2 channel sources, including SACD.

As with many high-end audio products, your Linar Amplifier will require a significant break-in period. This process can take up to 200 hours of use.

Familiarize yourself with the material contained within this manual prior to using. If you have any uncertainties, contact your Linar Audio dealer.

Given proper use and care, your Linar Audio Amplifier should provide you with many years of exceptional music reproduction and listening pleasure.

Unpacking

Unpack your Linar 250i Amplifier carefully as it is quite heavy. Keep all packaging to ensure safe transport in the future. Accessories included with your amplifier are:

- ✓ AC Power Cord
- ✓ This Owners Manual

After you have completed unpacking, perform a thorough inspection of the amplifier and report any damage to your dealer immediately. It is recommended to allow the unit to acclimatize to the temperature and humidity conditions in your home prior to operation.

Please write the serial number of your Linar Audio Model 250i Stereo Amplifier here for future reference.

Serial number: _____

Connections

All connections are made on the rear panel of your amplifier. Familiarize yourself with the layout of the rear panel prior to placing your amplifier on a shelf or in a cabinet. Ideally, you should have easy and open access to the rear panel to make connections easier, and to reduce any crimping or pressure on your cables.

Connections should only be made with all system components turned off! The performance of your system can be significantly improved by using high quality interconnect and speaker cables.

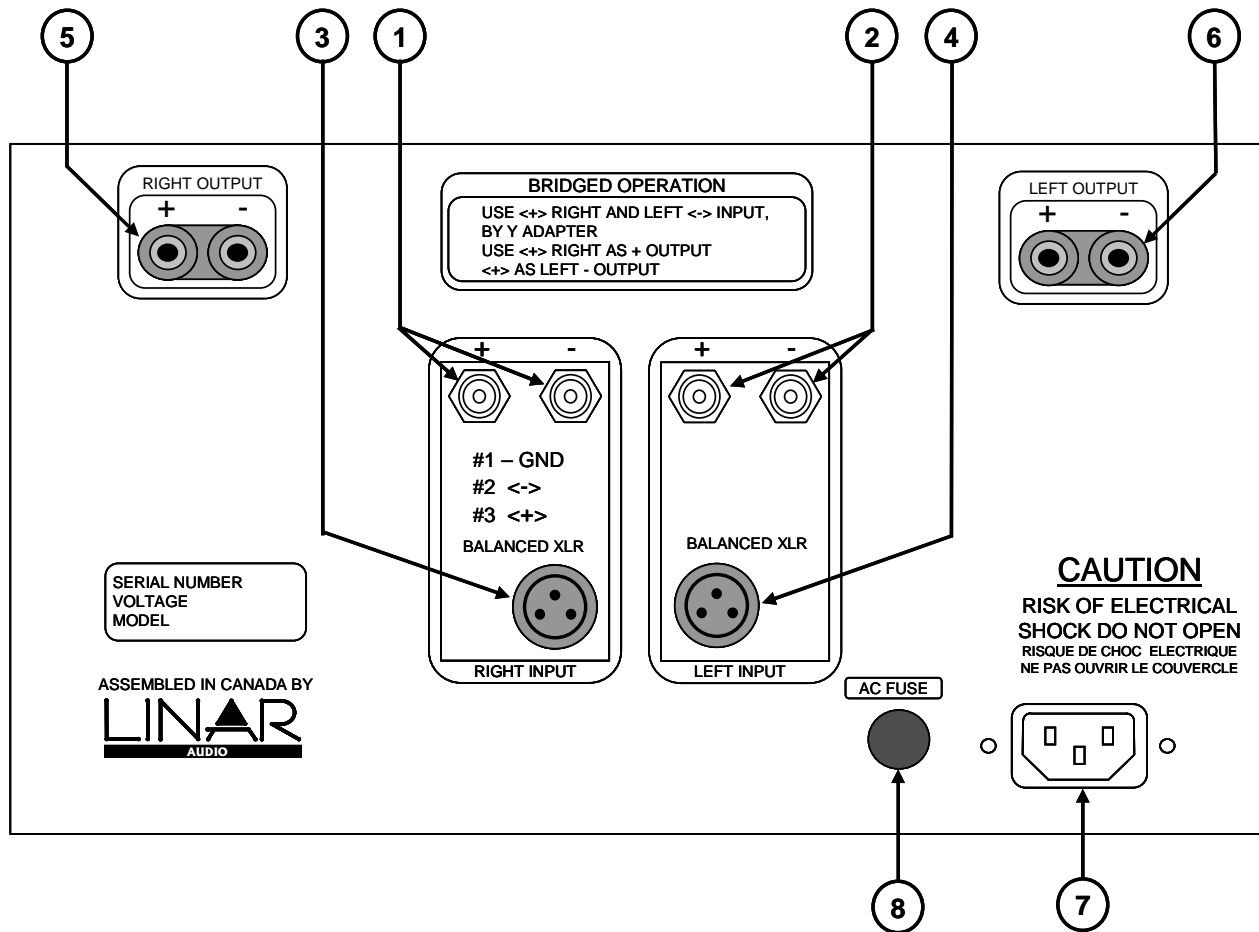


Figure 1. Linar Audio 250i Amplifier Rear Panel

Rear Panel Connections

1 and 2 RCA Jacks

Your Linar 250i Amplifier has 2 sets of single-ended inputs. Each single-ended input is composed of a pair of RCA jacks labelled + and -. This arrangement allows bridging of the amplifier as discussed in a following section.

Single ended operation: One RCA jack is used per side, insert the interconnect cable to the + RCA jacks. Dummy load plugs are supplied and must be placed in the unused RCA jacks.

Ensure you properly connect the left and right channel inputs to your pre-amplifier output.

3 and 4 XLR Balance Input

These are labelled BALANCED XLR, AND +/- INPUT . Ensure you properly connect the left and right channel inputs to your Pre-amplifier output.

Balanced operation: Use the XLR inputs connectors before be sure to remove the dummy load on the –RCA jack.

Pin No 1 Ground

Pin No 2 – input (Inversing input)

Pin No 3 + input (non inversing input)

5 and 6 Speaker Connections

Your Linar 250i Amplifier is supplied with 2 separate speaker connections. There are Left and Right Output Speaker connections, Ensure you connect the correct speaker to the correct output for proper system performance. Follow each speaker wire from the amplifier to the appropriate speaker to make certain you have connected them properly. The + outputs are coloured red and the – outputs are coloured black. Ensure all + outputs from the amplifier match the + inputs of your speakers so you will not encounter phase problems.

The speaker outputs will accept most common wire connectors, including banana plugs, spades, and bare wire. **Under no circumstances should your speaker cables be allowed to short-circuit the amplifier by contacting the + and – outputs simultaneously.**

7 AC Line cord receptacle

The Linar 250i Amplifier has an “IEC” type AC power connector. Insert the supplied AC power cord into connector prior to plugging the cord into the AC wall receptacle.

8 AC Main Fuse

The Linar 250i Amplifier has an AC main fuse accessible on the rear panel. If you suspect that your fuse has blown, disconnect your amplifier from AC mains and the speakers and replace fuse by the following type:

Main Voltage 120VAC
Fuse type: AG3 slow blow
Rating: 7A 250VAC

Main Voltage 230VAC
Fuse type: AG3 slow blow
Rating: 4A 250VAC

Bridged Mono Operation.

In Bridged mode two channels are used to amplify a single channel, therefore you require two amplifiers for stereo. The Linar 250i Amplifiers can be switched for bridged operation without the use of external or internal switches or jumper.

Linar Audio Model 250i - Stereo MOSFET Power Amplifier

Refer to figure 2 for set-up. To use this mode you will need a Y adapter so that you can feed the same signal (one of the preamplifier's two channel) into two jacks : the right + jack and the left - jack. The supplied dummy load plug should be inserted into the unused jacks. The speaker is then connected between the two red output terminals. **Nothing must be connected to the black terminals.** If you wish to maintain correct absolute polarity, the red speaker cable should be connected to the right red terminal.

Note that, using two amplifiers in this way, you can obtain about four times the normal power. See the technical specification for details.

Note that if you use a Linar Model 2 Preamplifier, you do not need a Y adapter because you have two outputs per side.

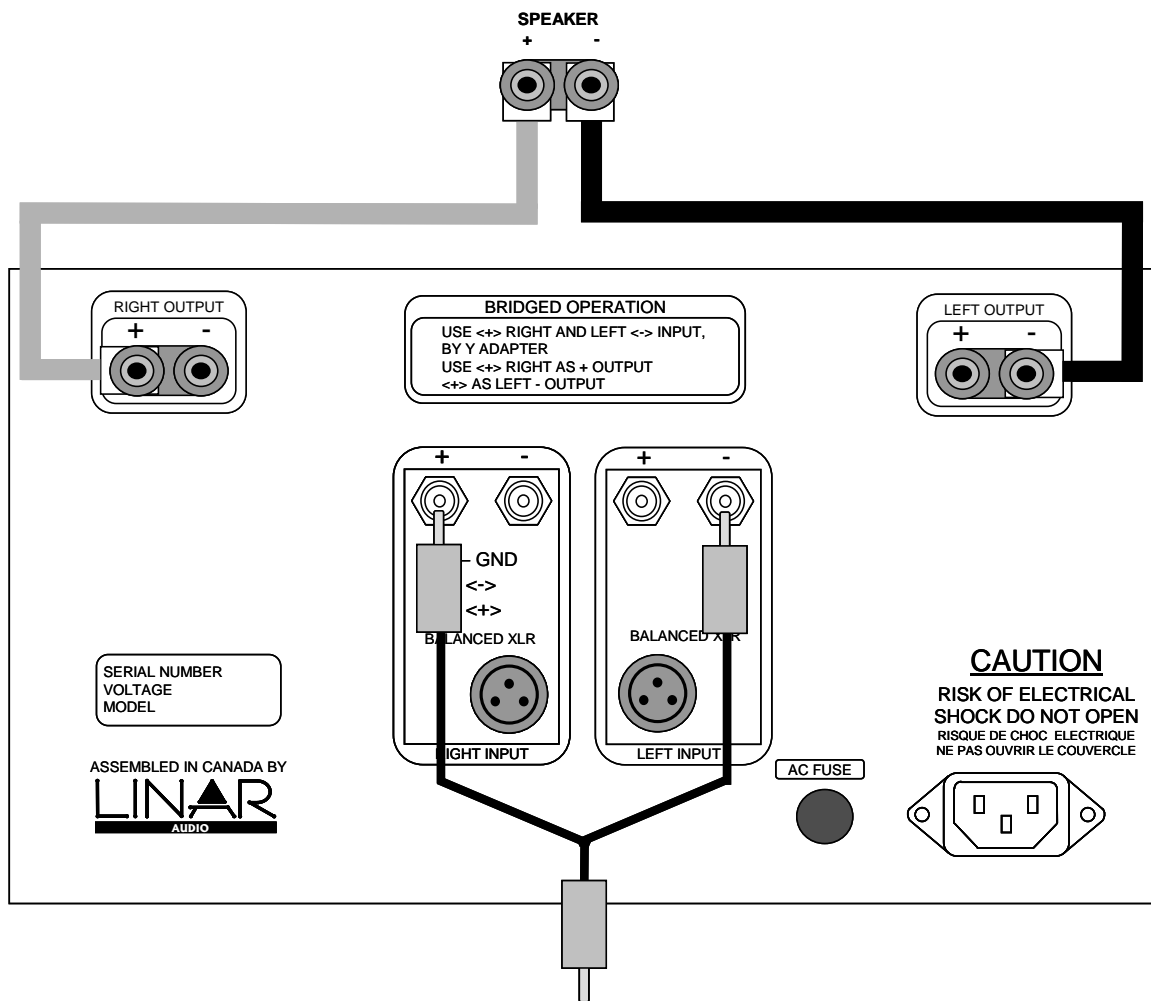


Figure 2. Connection for bridge mono operation

Front Panel

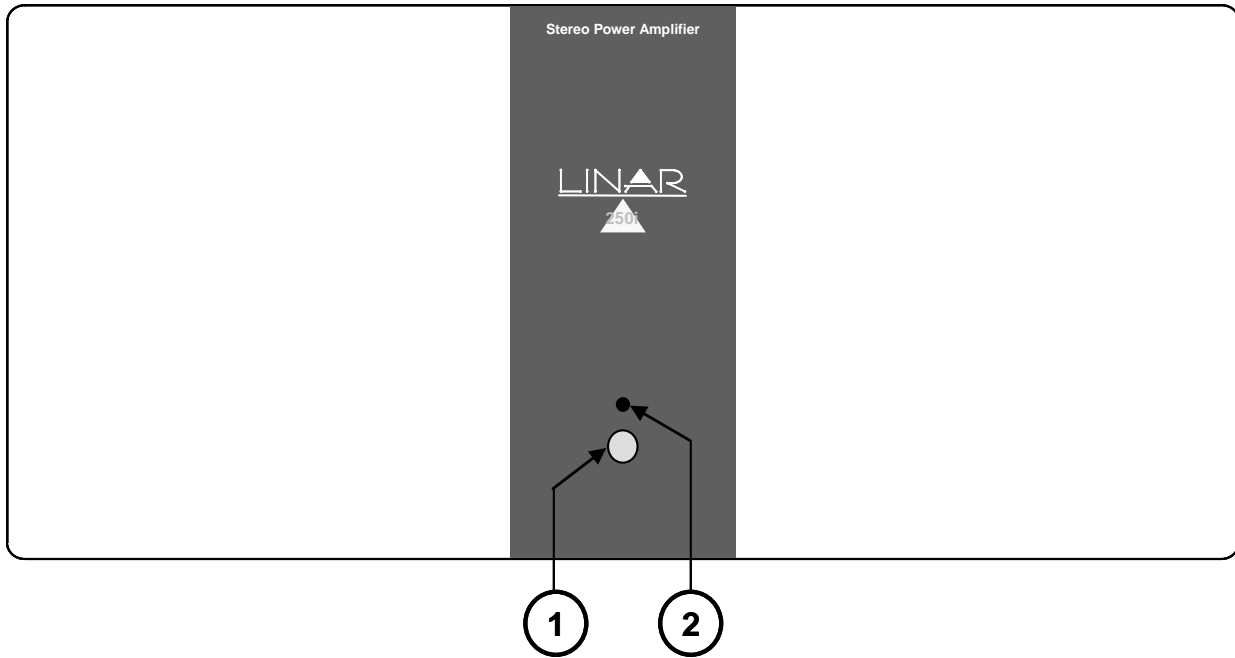


Figure 3. Linar 250i Amplifier Front Panel

Front Panel Controls

1 On/Off Power

Always press the Power button to turn on or off of the amplifier. There is a soft start circuitry that prevents large in-rush current during power on. You will hear a click from relays when you turn on the Linar 250i Amplifier.

2 On/Off LED Indicator

A blue LED will illuminate when the amplifier is powered.

Specifications

Output power at 8 ohms 150 watts/ch

Output power at 4 ohms 300 watts/ch

Output power at 2 ohms 600 watts/ch

Total Harmonic Distortion.....	20-20kHz worst-case 0.4% (typically 0.05%)
Total Intermodulation Distortion.....	Typically 0.05% - Note 1
Noise.....	-110 dB below max power
Frequency Response.....	1Hz-250kHz +/-3dB
Input impedance.....	53.3 k Ω
Output impedance.....	0.016 Ω
Damping Factor.....	> 500
Input sensitivity RCA inputs.....	1.5 V rms (for max power)
Balance input sensitivity.....	0.75 V rms (for max power)
Gain.....	30 time the input signal or 29dB
Channel separation.....	> 100dB
Slew rate.....	Note 2
Class of operation.....	A, AB
Power consumption at idle.....	90 W
Power Supply.....	1280VA Custom made Toroidal Transformers
Weight.....	28kg (65 lbs) with packaging
Dimensions (WxHxD).....	45cm x 20cm x 40cm (17.71"x7.87"x15.75")

Note 1 - According to IHF-A202 standard, for the purpose of this standard F1 shall equal 60Hz and F2 shall equal 7000Hz, the low frequency sine wave having an amplitude 4 times greater than that of the high frequency sine wave. The measurements of Linar Amplifiers are in respect of this standard but with any frequency combination in any ratio.

Note 2 - The amplifier has no global feedback making the slew rate irrelevant.

Service and Warranty

Linar Audio Model 250i Amplifier is covered for a period of three years against manufacturing defects. This warranty includes parts, labour, and return shipping to the original and subsequent owners. In the unlikely event you experience technical problems with your Linar Amplifier, please contact your dealer for troubleshooting tips. If no solution can be found, please contact Linar Audio using the contact information provided below. If there is no authorized service technician in your area, a Return Authorization may be given to you. Only after obtaining a Return Authorization should you send your Amplifier to the manufacturer. Linar Audio will either repair or replace your amplifier at their discretion.

This warranty will be considered void if any defect, failure, malfunction, or other damage is deemed to have been caused by mistreatment of the amplifier. Mistreatment includes, but is not limited to, abuse, tampering, servicing of the amplifier by unauthorized technicians, and failure to conform to operating instructions listed in this manual.

There are no user serviceable parts in the Linar Audio 250i Amplifier. Servicing should only be performed by factory-authorized technicians, or by Linar Audio.

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