

A32

P R I M A R E

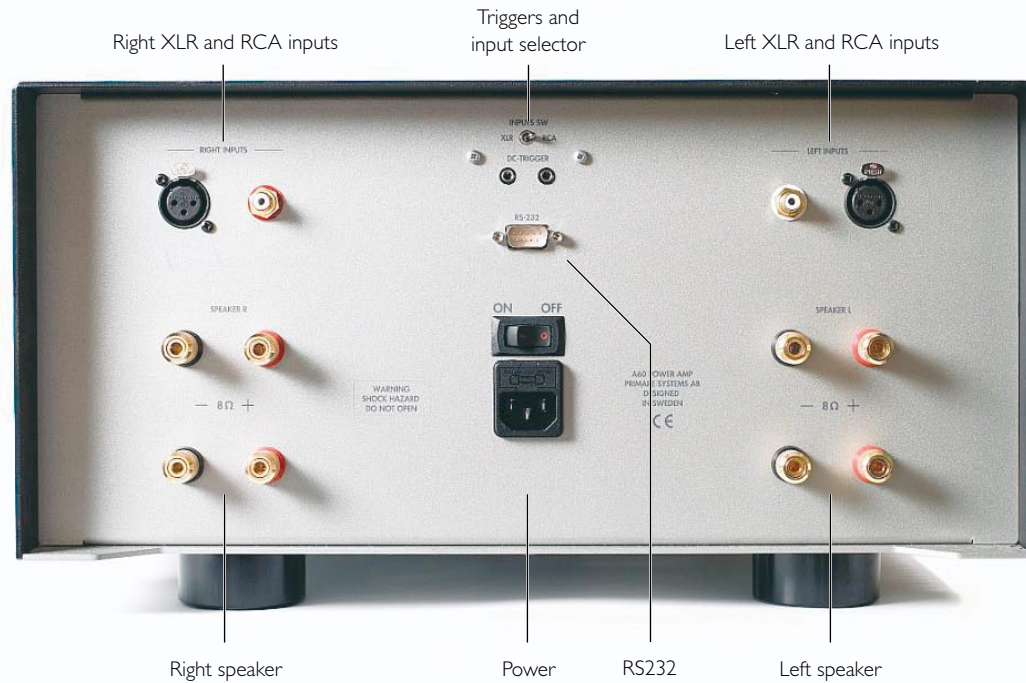
FULLY BALANCED
POWER AMPLIFIER

USER GUIDE



WELCOME!

Welcome to the Primare A32 Amplifier! The A32 is a modular power amplifier designed as the ideal output stage in a home theatre or hi-fi system.



GETTING STARTED

Here is how to set up your A32 in four simple steps:

1 UNPACK THE A32

Your A32 is supplied with the following components:

- Trigger cable.
- Mains cable.

If this is missing please contact your supplier. We recommend you retain the packaging in case you need to transport the unit at a later date.

2 CONNECT SPEAKERS

The A32 is designed to be connected directly to a pair of loudspeakers of 8Ω impedance..

- Connect the LEFT SPEAKER + and – and RIGHT SPEAKER + and – terminals to the appropriate terminals on each speaker:

The terminals can accept speaker cables terminated with spade terminals or bare wires.

For the best sound quality use the upper pair of loudspeaker terminals. This pair gives the most direct connection.

To connect bare wires unscrew the terminal, pass the bare wire through the hole in the terminal bolt, and clamp the wire in place by screwing the terminal back down hand tight.

Advice on positioning your speakers

For best results your speakers should be positioned about 2-3m apart, at least 20cm from the rear wall and at least 50cm from any side wall. The tweeter or high frequency unit in the speaker should be at head height when you are seated, listening to the speaker:

3 CONNECT INPUTS

- Connect the A32 to each channel of the preamplifier or processor using either the unbalanced RCA input, or the balanced XLR input, as appropriate.
- Put the **INPUT** switch in the appropriate position for the inputs you are using.

If you are using the RCA inputs use high quality stereo RCA leads.

If you are using the XLR inputs use balanced XLR cables.

4 CONNECT POWER

Connect the power connector on the back panel to your power outlet using the mains cable supplied with the A32.

If this cable is not suitable for your power outlets please contact your supplier for an alternative cable.

Note: See *Phase*, page 4, for information about getting the best sound from your A32.



WARNING: Before connecting power check that the required supply voltage, indicated on the back panel, corresponds to your local AC supply.

If a different voltage is stated on the type plate do not connect the amplifier to the mains power, and seek advice from your dealer.



WARNING: Always disconnect the A32 from the mains power before connecting or disconnecting any cables.

To switch on the amplifier

- Press the Standby button in the Primare logo on the front panel.

TECHNICAL SPECIFICATION

The A32 is a high-power fully-balanced power amplifier which combines no-compromise analogue design, for supremely low noise and distortion, with sophisticated digital control and monitoring, for dependable operation even at continuous high power levels.

FEATURES

Fully balanced design

16 Toshiba output devices per channel, working in a high-bias class AB configuration

2000VA toroidal transformer with separate windings for each channel, for minimal crosstalk

OUTPUTS

Power

2 x 250W into 8Ω, 400W into 4Ω

INPUTS

Unbalanced inputs

2 x RCA, 15kΩ impedance.

Balanced inputs

2 x XLR, 15kΩ impedance.

PERFORMANCE

Gain

26dB unbalanced, 20dB balanced

Frequency response

20Hz-100kHz, -0.5dB

THD+N

<0.05%, 20Hz to 20kHz at rated power

Noise

<-100dBV

PROTECTION

Temperature protection: 70°C

DC offset protection

Short-circuit protection

Any abnormal condition or faulty input signal will flash the Standby indicator and disengage the speakers.

GENERAL

Control

1 x trigger input 4 to 15V

1 x 12V trigger output

1 x RS232

Size

430 x 540 x 230mm (WxDxH)

Weight

40kg

ADDITIONAL INFORMATION

STANDBY MODES

The A32 provides two alternative standby modes.

To switch on the amplifier

- Press the Standby button in the Primare logo on the front panel.

After a 20 second start-up delay to allow the amplifier to settle down the relays are turned on to connect the loudspeakers to the amplifier outputs. During the start-up sequence the A32 performs a self check, and if a problem is detected the Standby indicator will flash rapidly.

To switch the amplifier to standby

- Press the Standby button while the amplifier is operating.

This disconnects the speakers and reduces the idle current, but leaves the circuitry operating so that the amplifier delivers optimum performance from the moment it is next switched on.

To switch the amplifier off

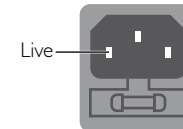
- Hold down the Standby button for more than one second.

This turns off all the amplifier circuitry for minimum power consumption leaving only a small standby circuit running. If you are not going to use the amplifier for a long period we recommend turning it off, using the power switch on the back panel, to save power.

PHASE

The phase of the AC supply can make a significant difference to the sound.

Ensure that the live pin of the AC power cable is connected to the left-hand pin of the power connector, viewed from the back panel:



BURN-IN

Your Primare will sound best after an initial burn-in of approximately 24 hours.

You will notice a further smaller improvement in sound quality for at least another 3 days' playing.

RS232 AND TRIGGERS

The RS232 input allows you to connect the A32 to a controller system. For more information please contact Primare or visit www.primare.net.

The Trigger input allows the A32 to be switched on from standby, or put into standby, by a preamplifier or processor. When the trigger is connected the Standby button will only turn the amplifier off. The output allows you to daisy-chain the trigger signal to further devices.

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Primare AB
Limstensgatan 7
21616 Limhamn
Sweden

<http://www.primare.net>

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The information in this guide is believed to be correct as of the date of publication. However, our policy is one of continuous development and so the information is subject to change without notice, and does not represent a commitment on the part of Primare AB.

Primare is a trademark of Primare AB.

This guide was produced by
Human-Computer Interface Ltd.
<http://www.interface.co.uk>

Safety compliance

This product has been designed to meet the IEC 60065 international electrical safety standard.

CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN ATTENTION RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR

CAUTION: To reduce the risk of electrical shock do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

WARNING: To reduce the risk of fire or electrical shock, do not expose this apparatus to rain or moisture.

CAUTION: In Canada and the USA, to prevent electric shock, match the wide blade of the plug to the wide slot in the socket and insert the plug fully into the socket.

This product is designed and manufactured to meet strict quality and safety standards. However, you should be aware of the following installation and operation precautions.

1. Take heed of warnings & instructions

You should read all the safety and operating instructions before operating this appliance. Retain this handbook for future reference and adhere to all warnings in the handbook or on the appliance.

2. Water and moisture

The presence of electricity near water can be dangerous. Do not use the appliance near water – for example next to a bathtub, washbowl, kitchen sink, in a wet basement or near a swimming pool, etc.

3. Object or liquid entry

Take care that objects do not fall and liquids are not spilled into the enclosure through any openings. Liquid-filled objects such as vases should not be placed on the equipment.

4. Ventilation

Do not place the equipment on a bed, sofa, rug or similar soft surface, or in an enclosed bookcase or cabinet, since ventilation may be impeded. We recommend a minimum distance of 50mm around the sides and top of the appliance to provide adequate ventilation.



The lightning flash with an 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 product.

5. Heat

Locate the appliance away from naked flames or heat producing equipment such as radiators, stoves or other appliances (including other amplifiers) that produce heat.

6. Climate

The appliance has been designed for use in moderate climates.

7. Racks and stands

Only use a rack or stand that is recommended for use with audio equipment. If the equipment is on a portable rack it should be moved with great care, to avoid overturning the combination.

8. Cleaning

Unplug the unit from the mains supply before cleaning.

The case should normally only require a wipe with a soft, damp, lint-free cloth. Do not use paint thinners or other chemical solvents for cleaning.

We do not advise the use of furniture cleaning sprays or polishes as they can cause indelible white marks if the unit is subsequently wiped with a damp cloth.

9. Power sources

This appliance must be connected to a mains socket outlet using the supplied power cord. To disconnect this apparatus from power, you must disconnect the power cord. Make sure the power cord is always easily accessible.

Only connect the appliance to a power supply of the type described in the operating instructions or as marked on the appliance.

This is a Class I device and **must** be earthed.

The power switch is a single-pole switch. When the switch is in the "Off" position, the appliance is not completely disconnected from the main power.

10. Power-cord protection

Power supply cords should be routed so that they are

not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, and the point where they exit from the appliance.

11. Grounding

Ensure that the grounding means of the appliance is not defeated.

12. Power lines

Locate any outdoor antenna/aerial away from power lines.

13. Non-use periods

If the unit has a stand-by function, a small amount of current will continue to flow into the equipment in this mode. Unplug the power cord of the appliance from the outlet if left unused for a long period of time.

14. Abnormal smell

If an abnormal smell or smoke is detected from the appliance, turn the power off immediately and unplug the unit from the wall outlet. Contact your dealer immediately.

15. Servicing

You should not attempt to service the appliance beyond that described in this handbook. All other servicing should be referred to qualified service personnel.

16. Damage requiring service

The appliance should be serviced by qualified service personnel when:

- A. the power-supply cord or the plug has been damaged, or
- B. objects have fallen, or liquid has spilled into the appliance, or
- C. the appliance has been exposed to rain, or
- D. the appliance does not appear to operate normally or exhibits a marked change in performance, or
- E. the appliance has been dropped or the enclosure damaged.

P R I M A R E

THE SOUND AND VISION OF SCANDINAVIA



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