

The crown of tube amplification



Certificate of origin

This handcrafted product was special made for your high demands, to display the music on its finest way. We guarantee, that this amplifier was carefully produced and tested in all details.

Mr. Helmut Becker

[Manager Production & Development]

Sign:

since 1982

Audio Valve Baldur 300 plus



INSTRUCTION

BALDUR 300

High Power, high current class -a triode amplifier

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Congratulations on your decision to become the proud owner of the AUDIO-VALVE **Baldur 300** power amplifier.

This manual has been prepared to help you understand the operation of your amplifier and to provide some information about its design and the variety of ways it may be used.

We have designed and manufactured this amplifier to faithfully and accurately reproduce music. This hand build instrument should give a lifetime of pleasure and with a little care and a full understanding of the operation recommendation in this manual the **Baldur 300** should provide trouble free performance.

Please take time to read this manual thoroughly before using your amplifier.

There should be two persons grabbing the outer rim of plexiglas top to lift up, rest on edge of crate then continue all lifting from the bottom of the chassis.

List of contents

- Warning and precautions
- Front panel - rear panel
- Drawing front panel
- Drawing rear panel
- Input - output terminals
- Polarity - phasing
- Installation and operation
- Automatic bias control (ABR)
- Specifications

WARNING

This amplifier **Baldur 300** operates in **class - A** and is therefore capable of generating a moderately high temperature which requires care full placing to avoid any effect this heat may have on other equipment, furniture and fittings etc.

Do not remove the top cover from this amplifier. Hazardous voltages are present. Any repair work should be refer to a suitable qualified and experienced service person.

Do not attempt to connect any input of this amplifier to any of its outputs.

Do not earth any output terminal or connect any of these terminals together without following the instructions in this manual or seeking qualified assistance.

Do not place this amplifier in any position where liquids or any foreign material may accidentally enter it.

Do not disconnect any in / output wire, while the amplifier is operating.

Do not connect any voltage source short circuit, earth / ground or appliance (other than suitable HiFi quality loudspeakers) to any output terminal.

Some preamplifiers, processor, CD players etc produce large switching pulses when switched on, causing a loud click through the loudspeakers. For this reason, turn on all other equipment in your system before turning on the **Baldur 300**.

Note: the **Baldur 300** power amplifier do not cause this problem.

FRONTPANEL

The front panel of the **Baldur 300** power amplifier incorporates with a small panel filled with two switches. These switches control the day to day function of the amplifier. The operation of this two switches is like following:

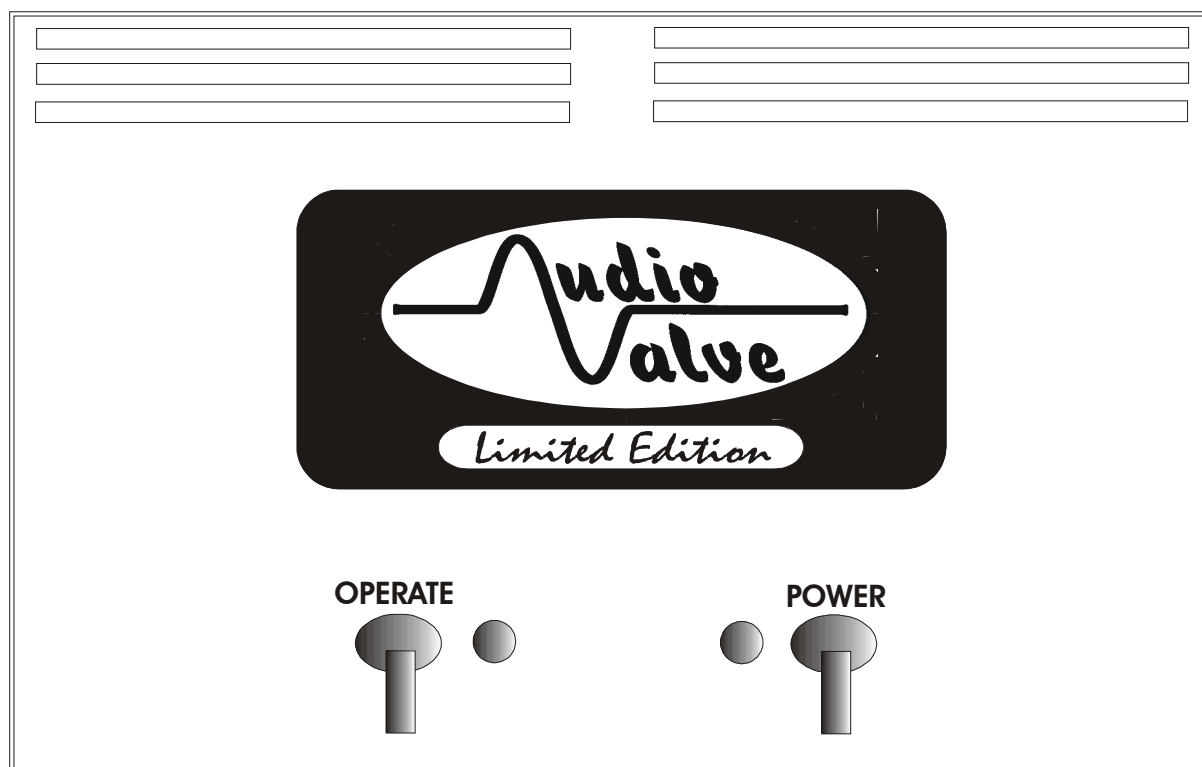
MAIN SWITCH

This heavy duty rocker switch is at the right side of this panel and switched the mains / line power of the amplifier **On** or **OFF**. A blue LED immediately beside the switch illuminates to indicate that the power is ON.

This amplifier draws to moderate high current when switched on. It is not good practice to repeatedly active this switch ON and OFF rapidly.

STAND - BY SWITCH.

This switch on the left of the panel alters the operation **STAND BY** of the amplifier. Switch down is operation **STAND BY** , (the left blue LED is off).



Please read the following safety notes:

Please notice that you never exceed the mains voltage in the prescribed value shown at the label of the serial number on the rear side. If you can't provide the amplifier with the exact shown main voltage, please use a voltage stabilizer - particularly for the USA.

The amplifier needs a certain time to form the brand new components (capacitors) otherwise they can be destroyed.

For the on and off mode of the amplifier please do only use the main switch, the operate switch is currently in on position. (LED is lighting)

Use the Stand - By mode (OPERATE - off) only for short periods, max. 1 hrs. During long periods switch the equipment off completely.

Do not leave your house with switched on equipment, or during sleeping time.

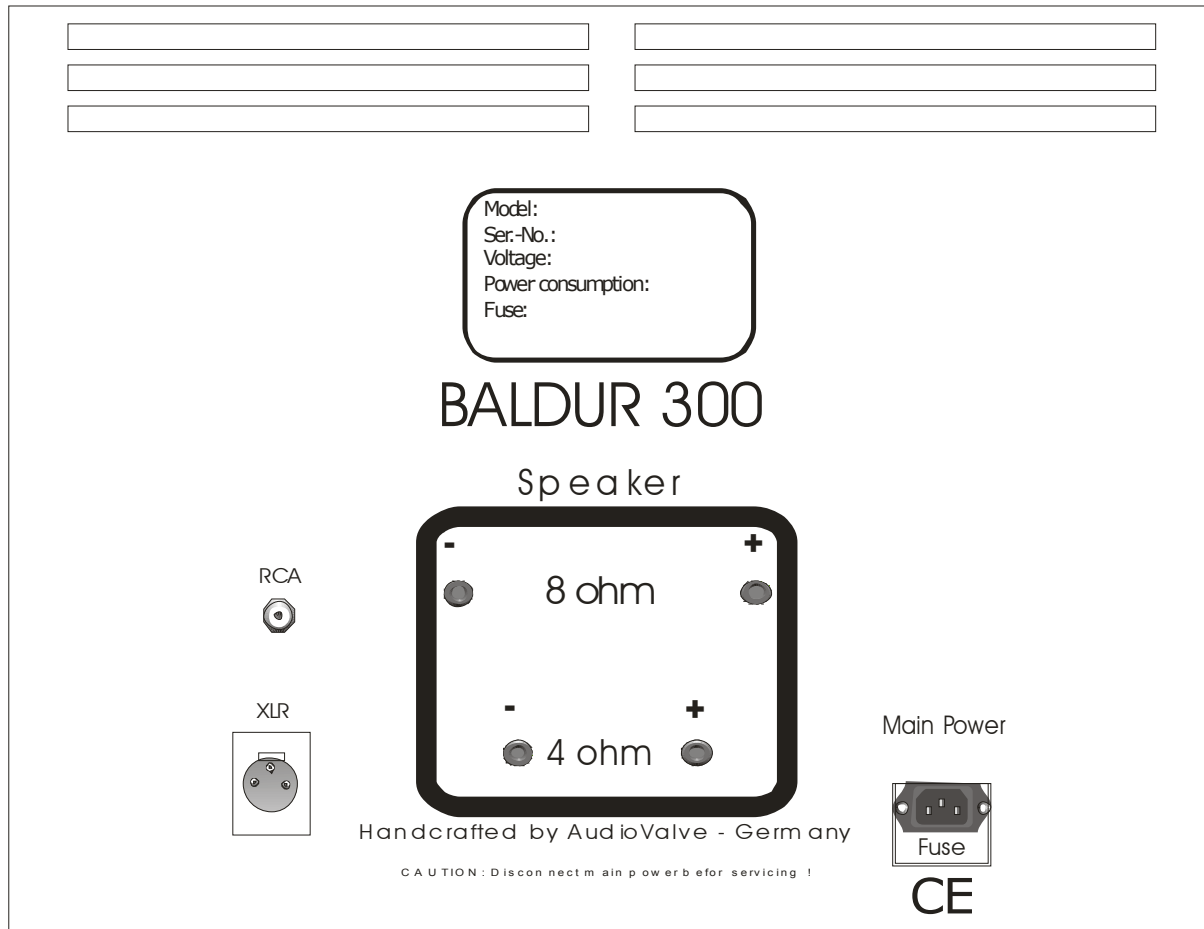
Please only do use your amplifier while listening to music.

REAR PANEL

The facilities on the rear panel of the **Baldur 300** may seem not so complex. The rear panel incorporates all of the terminals for connecting the input signals and the output signals to the loudspeaker. A reasonable understanding of this amplifier and the logical approach should ensure that you are listening to this amplifier in a very short space of time without any difficulties at all.

Please remember that the AUDIOVALVE **Baldur 300** power amplifier is a high quality electronic instrument capable of an exceptional level of performance.

Be sure that you understand your requirements fully before you make any connection to this amplifier.



INPUT TERMINALS

Input terminals for this **Baldur 300** power amplifier are easily accessible and fitted to the lower centre area of the rear panel.

RCA INPUT. These standard type of RCA terminals are for use with unbalanced signals from most signal sources such as audio preamplifiers.

fake XLR BALANCED INPUT. XLR connector fitted to the amplifier are for use with balanced line signals from audio pre amplifiers etc. Balanced signals are carried via a three way cable that connects all three pins at each of the interconnect cable.

DO NOT operate this amplifier with both RCA and XLR cables connect at the same time.

OUTPUT TERMINALS

Output connections for the Loudspeakers are provided on the lower centre of the rear panel. Two pairs of heavy duty gold plated binding posts for each channel are supplied.

CONNECT your loudspeaker positive terminal to the amplifier (+) output terminal. Connect your loudspeaker negative terminal to the (-) output terminal.

+++ important note for speaker terminal connection +++

please use the 4 ohm terminals for speakers with an impedance from 2 - 6 ohm, and use the 8 ohm terminals for speakers impedances between 6 - 12 ohm and higher.

POLARITY - PHASING

It is important to achieve good stereo imaging in your listening room. By observing the wiring constructions

above, each power amplifier / loudspeaker combination should be in phase. If you experience a poor stereo image and / or a lack of bass, check that the loudspeaker wiring has been connected correctly. We recommend that you use one of the easily obtainable "test - disc" to help you ensure both phasing and channel orientation are correct. If in doubt, consult your AudioValve dealer for advice.

Do not make any other connection to any of the amplifiers negative or positive output terminals. Only the minus terminal from the 8 ohm terminals has ground polarity, all the other has live signal phase

Quality of the connections must be examined to ensure a high performance trouble free operation is enjoyed. Check that the connections are tight, but do not overtighten with excessive use of spanners etc. If bare wires are used, make sure that no loose strands of wire short across to the other terminals or the amplifier chassis. When using plugs such as Banana, be sure to use good quality ones with a firm fit.

INSTALLATION AND OPERATION

MAINS VOLTAGE

CHECK that the mains voltage printed on the rear of this amplifier is similar to the mains voltage normally supplied to your area. If indoubt, please consult your AUDIOVALVE dealer.

PLACEMENT AND VENTILATION

This AudioValve **Baldur 300** power amplifier is designed to operate at a moderately high temperature. The ideal location is on the rigid stand or floor mounted away from direct contact with any objects, materials or deep pile carpets which may be effected by the heat or which may interrupt the flow of air around the amplifier.

When operating the amplifiers quite a lot of heat is generated which should be allowed to dissipate without restriction. Make sure that no objects are placed on the top of the amplifier. Always ensure adequate ventilations.

MAINS / LINE POWER connection is via supplied plug-in lead. The standard IEC socket connects the mains power at the amplifier end while a local mains plug is required at the wall end. In the event where a "local" plug needs to be fitted to the wall end of the lead, ensure the at the plugs is wired correctly by a suitable qualified or experienced person.

Ensure the main switch of the front of this amplifier is OFF before attempting any modification of the mains connection.

MAINS / LINE FUSE

A Mains / Line fuse is fitted within the IEC Mains / Line socket on the rear of the amplifier. A small draw at the bottom of this socket may be removed (**after the IEC plug is removed**) by levering it out with a flat blade screw driver. The fuse fitted should be razed at no greater than 10 ampere slow blow.

In the unusual event that this fuse should blow, you must first establish the cause of this failure, cure the fault and then replace the fuse with one of the same type.

DO NOT FIT A FUSE WITH HIGHER RATING.

AUTOMATIC BIAS CONTROL FUNCTION (ABR)

Each from the 10 * 6AS7G (6H13C) power tube is controlled by an ABR for each system in the tube. The correct function of the ABR is shown by three LED`s at each side, next to the power tube.

When the amplifier is operating, no LED is shining.
In case that any of the power tubes is faulty one of the LED`s, which are at the right and left side of the power tubes, immediately indicated.

If this happens, you have to change the power tube of this place.
After changing the power tube, the LED must be off again.

If still any of the LED`s is on, please contact your AudioValve dealer.

Please notice:

Please take notice when switching on the amp , the STAND BY SWITCH has to be in operate (rocker switch up) !

All handling at the open amplifier has to be done when the main power plug is **disconnected** .

In **STAND BY MODE**, two of the LED`s of the ABR of each power tube is shining.

When the amplifier is driven in a very high level output, the ABRs are regulating the power tubes and there is a slighty shining of the two LEDs together.

BALDUR 300

SPECIFICATIONS:

- power consumption: 450 VA nominal, - (for max. output - 1500 VA)
- max output: 300 watt-RMS
- nominal output: min. 200-240 watt sin - 1% distortion at 8 ohm load.
- damping: 25
- bandwidth: 3 hz - 45 khz
- s/n ratio: - 64 dbm, (0,5mV)
- gain 28 db
- distortion: 10w - 0,15%; 50w - 0,22%; 100w - 0,3%; 200w - 1%
- fake XLR (pos. phase only pin 2) and RCA inputs
- input resistance: 47k
- 4 & 8 ohm speaker terminals
- weight: 55 kg
- size: 49 * 52 * 43 cm (w*d*h)

W A R R A N T Y

AUDIOVALVE warrants its components for a three-year period on all electronics and a 90-day period on the tubes from the purchase date.

In the event of a failure of your amplifier , AUDIOVALVE will repair or readjust this unit or , should the occasion arise , will replace it provided that all conditions stipulated in this warranty are met.

In order to initiate service of any kind it is necessary to obtain distributor or dealer authorization prior to shipping the unit for service.

Any of the following conditions shall void the warranty:

- Operation not in accordance with this manual.
- Abuse , accidental damage or unauthorized modifications , as determined by AUDIOVALVE or its agents exclusively.
- Removal , defacing or falsifying of the serial numbers.
- Shipping without the original complete factory crates.

WARRANTY REGISTRATION

Please fill out and return this warranty form to the distributor within 15 days of the purchase date with this form here, or make it online on our website.

• MODEL : _____

• SERIAL NUMBER : _____

• PURCHASE DATE : _____

• AUTHORIZED AUDIOVALVE DEALER:

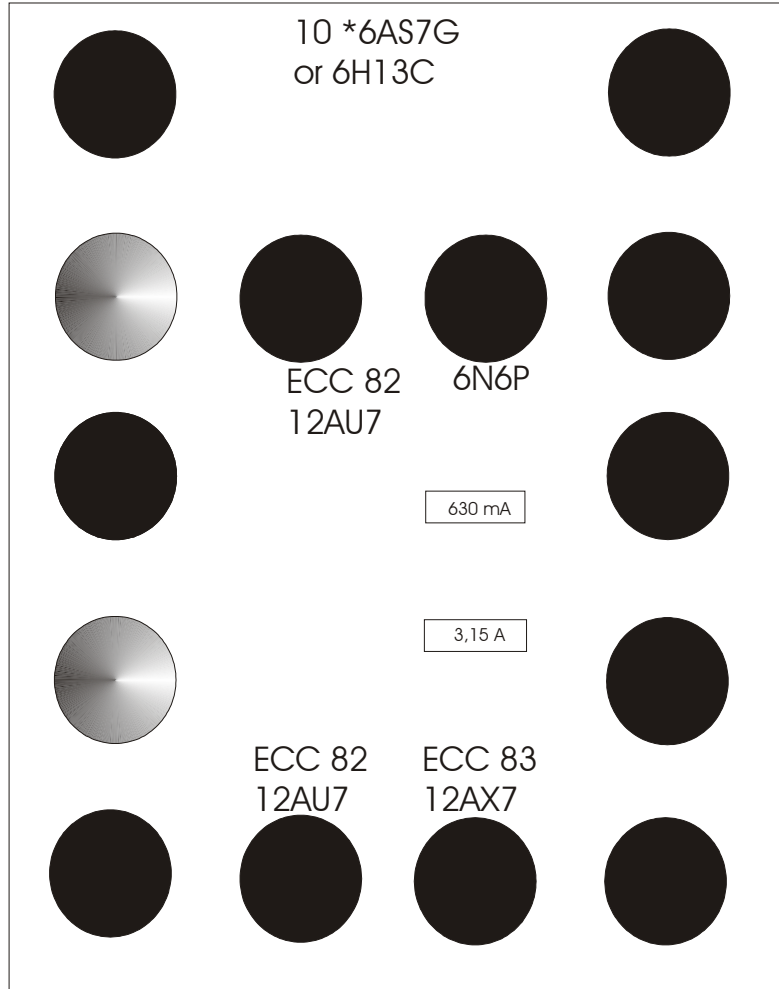
• PURCHASER`S NAME : _____

• STREET ADDRESS : _____

• CITY : _____

ZIP / POSTAL CODE : _____

Baldur 300 tube placement



main fuse:

10 ampere sb for 117 VAC
6,3 ampere for 230 VAC

CE – Conformity

Declaration Of Conformity

Manufacturer: AudioValve,

Germany, 34123 KASSEL, Umbachsweg 70,

info@audiovalve.info

Product Name: EKLIPSE

Product Type: Audio Amplifier

Complies with Standards:

LVD: 92/31/EEC, 93/68/EEC, & 73/23/EWG

Safety: EN60065

EMC: EN55013, EN55020, EN55022, EN55103, EN61000-3-2,
& EN61000-3-3

The official Declaration of Conformity for this product is kept on file at:
AudioValve, 34123 Kassel, Umbachsweg 70, Tel. 05617013360



:: AUDIOVALVE – ORIGINAL CERTIFICATE of testing ::

Kunde:

Modell: **BALDUR 300**

Datum:

Ser.-Nr.

Mechanische Baugruppen	Gehäuseaufbau <input type="checkbox"/> lackierte Teile <input type="checkbox"/> gedruckte Blenden <input type="checkbox"/> Pfosten im Winkel <input type="checkbox"/>	Prüfer: Börger <input type="checkbox"/> Markgraf <input type="checkbox"/>
Technische Baugruppen	Optische Leiterplattenprüfung vor Einbau <input type="checkbox"/> Sitz aller Kabel, zugfest und isoliert <input type="checkbox"/>	Prüfer: Börger <input type="checkbox"/> Markgraf <input type="checkbox"/>
• Elektronik	Alle Gleichspannungen gemessen <input type="checkbox"/> Signale linker & rechter Kanal <input type="checkbox"/> Geräusche <input type="checkbox"/> Balance (nach rechts-rechts mehr) <input type="checkbox"/> log. Lautstärke <input type="checkbox"/> home theatre <input type="checkbox"/> Eingänge – Ausgänge, Cinch/XLR <input type="checkbox"/> Relais und Empfindlichkeiten <input type="checkbox"/> Fernbedienung <input type="checkbox"/> alle LED vorne <input type="checkbox"/> (siehe separates Protoll für jeweiliges Modell unten) *nicht zutreffendes streichen	Prüfer: Börger <input type="checkbox"/> Markgraf <input type="checkbox"/>
Optische Endkontrolle	Äusserliche Sichtprüfung <input type="checkbox"/> lose Teile <input type="checkbox"/> fehlende Schrauben <input type="checkbox"/> keine Kratzer, Lack & Oberglas <input type="checkbox"/> Sitz aller Muttern / Schrauben oben / unten <input type="checkbox"/> Federleisten, Blenden, Seiten - fest <input type="checkbox"/> Seriennummer, CE Sticker <input type="checkbox"/>	Prüfer: Börger <input type="checkbox"/> Markgraf <input type="checkbox"/>

Meßtechnischer Teil:

	Soll	links	rechts
Anode 6AS7G - Anode Treiber	230 VDC - 420 VDC	<input type="checkbox"/>	<input type="checkbox"/>
Heizungen	alle checken	<input type="checkbox"/>	<input type="checkbox"/>
Bias alle Endröhren	420 millivolt DC	<input type="checkbox"/>	<input type="checkbox"/>
Kathode Ausgangstreiber	124 V	<input type="checkbox"/>	<input type="checkbox"/>
Anode Eingangsröhre links	95 V	<input type="checkbox"/>	<input type="checkbox"/>
Signalspannungen	Alle Eingänge	<input type="checkbox"/>	<input type="checkbox"/>
Geräusche bei kurzschl. RCA		<input type="checkbox"/>	<input type="checkbox"/>