

GLOCKENKLANG

Blue Soul

head



User Manual

Contents

Introduction

How to use

1. Input stage with overdrive function
2. Tuner out
3. Equalizer
4. Effects loop
5. Volume control
6. Power stage
7. Mains connection
8. Speaker + phones outputs
9. Balanced DI output
10. Parallel insert loop (mixable) including MP3 player input
11. Footswitches

Technical Data

Warranty

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Thank you for choosing the GLOCKENKLANG Blue Soul amplifier. You have purchased an exquisite piece of equipment, which was designed after the most modern technical aspects.

Attention!

To activate your additional 3 years warranty, you should send in the enclosed warranty card.

Please enter the serial number of your amplifier and the date of purchase and send it to:

Glockenklang
Eimterstrasse 147
D-32049 Herford
Germany

or email to: info@glockenklang.de

This serves as a measure to ensure excellent customer service in the future.

For your safety

Please read the following instructions carefully. These tips will ensure long and trouble free operation of your new GLOCKENKLANG product.

Operational restrictions

Do not operate the amplifier under the following conditions:

- In direct sunlight
- In extremely dirty or dusty places
- In extremely humid or wet places
- Around heat emitting appliances

Caution: When rack mounting the amplifier, make sure to leave adequate room for ventilation. The unit needs this ventilation space to adequately exhaust it's internally generated heat.

Handling

Do not drop the amp. Do not use excessive force when activating switches and dials.



WARNING!

DO NOT OPEN!

**NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED
PERSONNEL.**

Care

Use a soft, clean and dry cloth only to clean the amplifier. Do not use aggressive chemicals to clean the housing. Do not use compressed air to clean the housing. You may carefully vacuum the air intake and exhaust areas from time to time to remove loose dust accumulation.

Please, keep this User Manual for future references

General instructions

Your Blue Soul head's special features:

"Effect Loop" is a parallel loop with blending control from 0% till 100% on the front panel and gain control ± 5 dB of Effect Return. Additional, you can use the Effect Return either as a mixable Line In or as a stereo MP3 players input. It is switched post eq / pre volume-control/ pre-DI out.

The power amp is short circuit, high temperature and DC voltage protected. In case of high temperature or DC current, the red "Protect" LED will come on.

Caution!

Due to safe ventilation, do not remove the bumpers on the bottom of the amp!

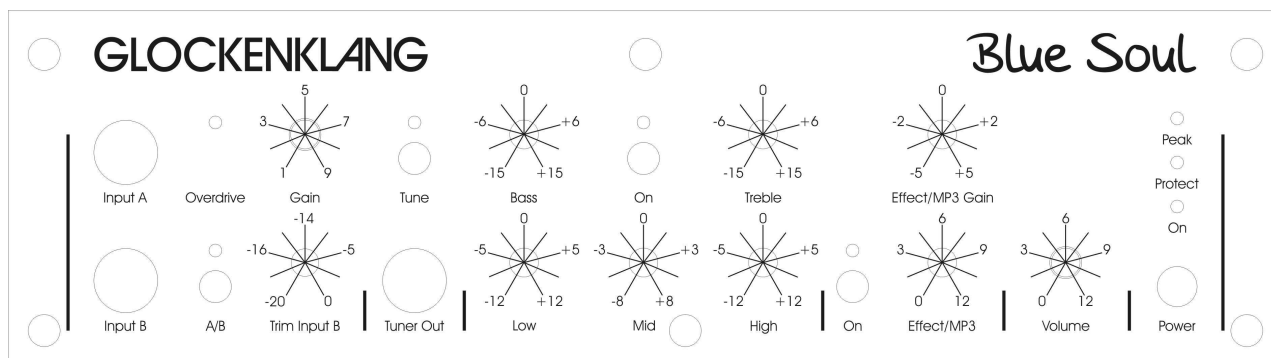
Please ensure adequate ventilation when rack mounting the amplifier.

Leave a minimum of 5 mm space below the amplifier. Make sure that the air entry/discharge vents at the right side of the housing and the bottom are unobstructed.



WARNING!

**TO REDUCE THE RISK OF FIRE OR
ELECTRIC SHOCK, DO NOT EXPOSE
THIS EQUIPMENT TO RAIN OR MOISTURE.**



1.1 Input A Jack

Normal instrument input for active and passive instruments.

1.2 Input B Jack

Instrument input for high level instruments. Adjustable via **Input B Trim** knob.

As a general rule, the trim pot should not be used to attenuate the input signal so much that the gain control has to be set higher than 5 (twelve o'clock).

1.3 Overdrive LED

Illuminates when the signal of the preamp begins to clip (overdrive).

1.4 A/B Switch

Activates Input A or Input B, enabling switching of two instruments.

1.5 Gain Control

Matches input signal to preamp. To adjust, turn knob until the **Overdrive LED** beside the control only flickers at highest and loudest peaks. The level in the **Effect Loop** is then adjusted to +4 dB and the headroom to overdrive is 20 dB.

For **overdrive** function, give more gain. The Peak LED then lights and flickers more, but that is ok.

1.6 Trim Input B Control

Pre gain trim for **Input B**, you can adjust the level between 0 dB and -20 dB. **Attention:**

As a rule, keep gain control about halfway up and adjust trim control accordingly.

2.1 Tune Switch (Mute Function)

Mutes all outputs but the **Tuner Out**. Can be activated by footswitch.

2.2 Tuner Out Jack

Serves as a connection for a tuner. This output is always active.

3.1 Equalizer with On Switch

Bass, Low, Mid, High and Treble controls serve to fine tune your sound or solve acoustical problems on stage. They will be activated by the **On Switch**. The frequencies are centered at 60 Hz, 130 Hz, 550 Hz, 4,2 KHz and 12 KHz.

4.1 Effect/MP3 On Switch

Activates the **Effect Loop** (Parallel Loop). This feature can also be activated by foot switch.

4.2 Effect/MP3 Gain Control

Varies gain of the Effect Return/MP3 In between ± 5 dB.

4.3 Effect/MP3 Control

Mixes the effects loop into the original signal from 0% (original signal only) to 100% (effect only)

5.1 Volume Control

Serves as main volume control for the power amp and the Phones Out jack on the rear.

Due to the logarithmic curve of the pot, you have to turn it up about 3 to 4 o'clock for full output-power!

6.1 Power Switch with LED (blue)

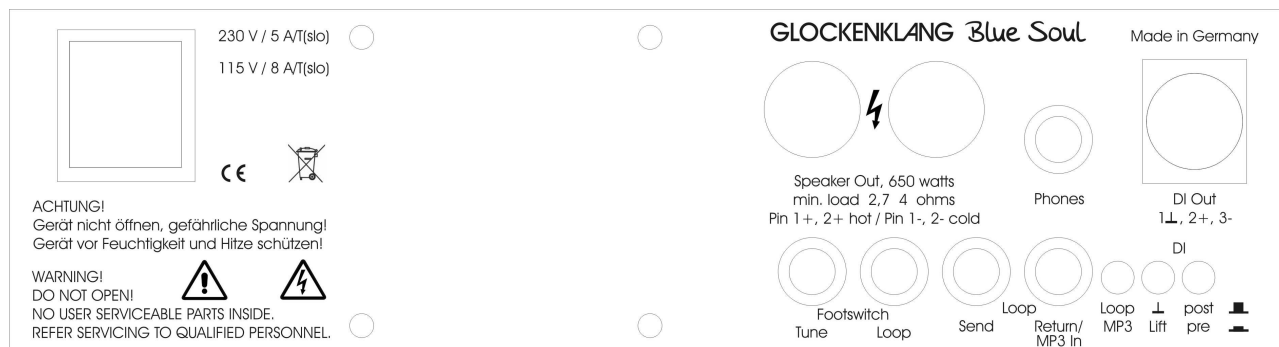
A/C Switch to turn on power to the unit. Power On is indicated by a blue LED.

6.2 Protect LED (red)

Illuminates when one of the protection circuits activates. The speakers will be disconnected with this light on.

6.3 Peak LED (yellow)

Illuminates when the power stage of the amplifier begins to clip (overdrive). It warns of overdrive and distortion.



7.1 A/C Connector with fuse

Connector for A/C cord. The fuse is located in the small compartment below. A spare fuse is included in the compartment, too. The fuse is rated at 5A/slo for 200-260 volts operation and 8A/slo for 90-130 volts operation.

8.1 Speaker Out connectors

4-pole Speakon jacks for speaker connections. These jacks are in parallel. Connect one 4 ohms or one or two 8 ohms cabinets here. At the 2.7 ohms version you can also connect three 8 ohms cabs or one 8 ohms cab and one 4 ohms cab. The maximum power rating is 650 watts into 4 ohms (or 2.7 ohms at the 2.7 ohms version), the minimum permissible speaker impedance is 4 ohms (or 2.7 ohms at the 2.7 ohms version). Connections are pins +1 and +2 hot, pins -1 and -2 cold.

8.2 Phones jack

This is a 1/4" stereo jack for headphones. The power will be adjusted by the Volume pot. To switch off the cabinets disconnect the speaker cables. This is **no** problem for the power amp.

9.1 DI Out XLR connector

This is the output of the integrated DI Box. It is for balanced connectivity to mixing consoles. The signal is routed to this output pre-volume control for independent stage volume adjustment possibilities.

Caution!

This output is electronically balanced. Do not ground pin 3, when using unbalanced cables in this jack. Pin 3 is unused for unbalanced operation!

9.3 DI pre/post Switch

Chooses among the following DI modes:

pre: before eq

post: post eq and parallel insert

offers a choice between pure or processed bass guitar signal

9.2 Ground Lift Switch

Separates Signal Ground from Chassis Ground to eliminate hum and buzz, when connecting other A/C connected gear.

10.1 Loop / MP3 switch

Activates the stereo MP3 In function of the Loop Return instead of mono Return In.

10.2 Loop Return / MP3 In jack

Connect to the output of an effects processor, that is supposed to be looped into the effects loop or the output of an MP3 player.

Can be used as a mix input (i.e. an additional preamp), the mix ratio can be adjusted at the Effect control on the front.

10.3 Loop Send Jack

To be connected to an effects units input. The level is +4dB

11.1 Footswitch Loop Jack

Serves as a connection for the loop function footswitch. It has the same function as the loop button on the amp front.

11.2 Footswitch Tune Jack

Serves as a connection for the mute function footswitch. It has the same function as the mute button on the amp front.

Technical Data

Solid state class D powered bass amplifier, 19" rack mountable, 2 rackspaces high.

Inputs

- 1 Jack 1/4" A for basses with normal output level, 3 MΩ
- 1 Jack 1/4" B for basses with higher output, additional pre-damping control, 4.7 MΩ

Equalization

Bass	+/- 15dB	60Hz
Low	+/- 12dB	130Hz
Mid	+/- 8dB	550Hz
High	+/- 12dB	4.2kHz
Treble	+/- 15dB	12kHz

Outputs

- 1 Tune Send Jack 1/4"
- 1 Balanced DI Out XLR, pin 1 ground, pin 2 signal+, pin 3 signal -
- 2 Speakers Speakon, pin 1+ and 2+ signal hot, pin 1- and 2- signal cold
- 1 Phones Stereo-jack 1/4"

Effects

- 1 Parallel Loop, post eq, with mix feature (0-100%) and footswitch activation, also usable as MP3 input (stereo input 1/4" jack).

Switches

- 1 Input A/B (activates Input A or B)
- 1 Tune (cancels all outputs without Tune Send)
- 1 Eq On
- 1 Effect On
- 1 Power On
- 1 Ground Lift
- 1 DI pre/post Eq
- 1 Loop Return mono / MP3 In stereo
- 1 Footswitch jack Tune On
- 1 Footswitch jack Effect On

Special Features

- LED Peak Indicators for Pre-Amp and Power Amp
- LED Indicators for all switch functions
- Built in A/B box with separate damping control for Input B

Output Power:	650 watts@4 Ω, 350 watts@8 Ω or 650 watts@2.7 Ω, 450 watts@4 Ω, 240 watts @ 8 Ω
Frequency Range:	20 Hz to 20 KHz -1dB
Power Requirement:	200-260 V AC, 5A slo / 90-130V AC, 8A slo
Dimensions:	320 x 88 x 260 mm (12.6 x 3.5 x 10.2")
Weight:	5 kg (11 lbs)

CE Declaration of Conformity

This is to certify that

Glockenklang

Blue Soul amplifier

complies with the provisions of the directive of the Council of the European Communities on the approximation of the laws of the Member States relating to electromagnetic compatibility to EMC Directive 89/336/EEC including amendment 93/68/EEC and the low voltage Directive 73/23/EEC including amendment 93/68/EEC.

This declaration of conformity of the European Communities is the result of an examination carried out by the Quality Assurance Department of GLOCKENKLANG in accordance with European Standards EN 50081-1, EN 50082-1 and EN 60065 for low voltage.

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Herford, 01.12.2011