

GLOCKENKLANG

Soul

User Manual

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Technical Data

Warranty

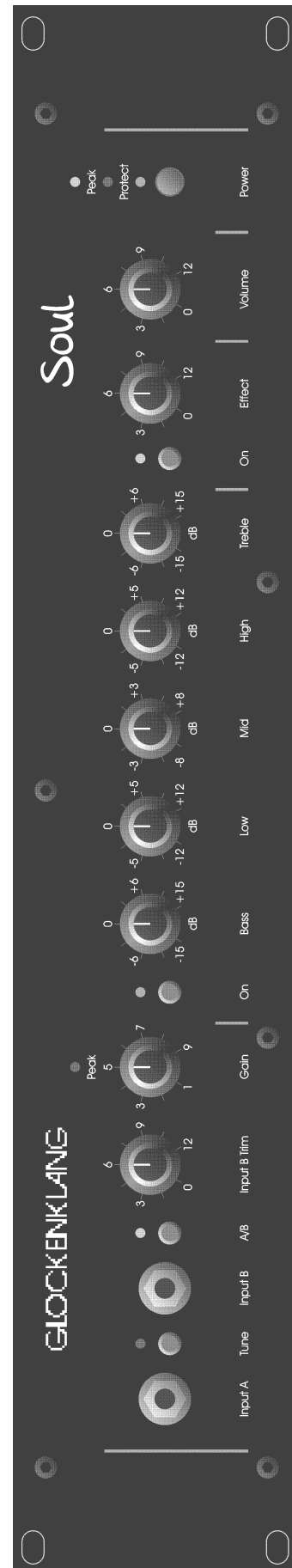
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Thank you for choosing the GLOCKENKLANG Soul amplifier. You have purchased an exquisite piece of equipment, which was designed after the most modern technical aspects.

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

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 troublefree 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.

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 Soul amplifier's special features:

- 3 effect loops

"insert" is a serial loop

"effect" is a parallel loop with blending control from 0% till 100% on the front panel,

"pre amp out" "power amp in" is a second serial loop.

The insert is switched pre-eq, the effects loop is switched post eq/ pre volume control/pre-DI out.

Pre-amp out - Power amp in are post master volume/post eq/post DI. This send/return is very useful for use of equalizers and stage sound processors that are not desired to go to the DI output.

- Power amp protection circuit

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

Caution:

Please ensure adequate ventilation when rack mounting the Soul top. Leave a minimum of 5 mm space below and above the amplifier. Make sure that the air entry/discharge vents at the left side of the housing are unobstructed.



1.1 Input A Jack

Normal instrument input

1.2 Tune Switch (Mute Function)

Mutes all outputs but the **Tuner Out**.

Can be activated by footswitch.

1.3 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).

1.4 A/B Switch

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

1.5 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.

1.6 Gain Control w/ Peak LED

Matches input signal to preamp. To adjust, turn knob until the **Peak LED** above 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.

2.1 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, 750 Hz, 4,2 KHz and 12 KHz.

3.1 Effect On Switch

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

3.2 Effect Control

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

4.1 Volume Control

Serves as main volume control for the poweramp and the Preamp Out jack on the rear.

5.1 Power Switch

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

5.2 Protect LED (red)

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

5.3 Peak LED (yellow)

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

GLOCKENKLANG Soul
Made in Germany

ACHTUNG!
Gerät nicht öffnen, gefährliche Spannung!
Gerät vor Feuchtigkeit und Hitze schützen!

230 V / 3,15 AT

115 V / 6,3 AT

WARNING!
DO NOT OPEN!
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED PERSONNEL.



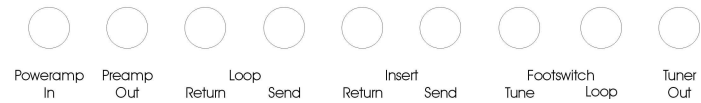
Ground
Lift

DI Out
1, 2+, 3-

DI
Level

DI
post
pre

Speaker Out
min. load 4 ohms
Pin 1+, 2+ hot / Pin 1-, 2- cold



6.1 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. The fuse is rated at 3,15A/slo for 230V operation and 6.3A/slo for 115V operation.

7.1 Ground Lift Switch

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

7.2 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!

7.3 DI Level Control

Matches DI output with mixing console input

7.4 DI pre/post Switch

Chooses among the following DI modes:

pre: before eq and serial insert

post: post eq and serial/parallel insert

offers a choice between pure or processed bass guitar signal

8.1 Speaker Out Connector

4-pole speakon jacks for speaker connections. These jacks are in parallel. Connect one 4 ohms or two 8 ohms cabinets here. The maximum power rating is 440 watts into 4 ohms, the minimum permissible speaker impedance is 4 ohms. Connection is pins +1 and +2 hot, pins -1 and -2 cold.

9.1 Poweramp In Jack

This leads directly to the poweramp section of the Soul head, for using external preamps. The internal preamp signal is disconnected when using this input. Also serves as return for the second serial insert.

9.2 Preamp Out Jack

This jack carries the pre-amplified signal post volume control. This can serve as a connection for a second power amp or as a send for effects that are only used for stage sound and not sent to the DI.

10.1 Loop Return Jack

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

10.2 Loop Send Jack

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

11.1 Insert Return Jack

Connect to the output of an effects unit for use in a serial configuration. The signal path is interrupted when plugged in.

11.2 Insert Send Jack

The input of an effects unit for serial configuration (i.e. equalizer or compressor). The signal level is +4dB. The signal is taken post gain, but pre eq.

12.1 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.

12.2 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.

13.1 Tuner Out Jack

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

Technical Data

Solid State Transistor powered Bass Amplifier, 19" rack mountable, 2 rackspace high.

Inputs

- 1 Jack (1/4") A for passive basses and active basses with low output level
- 1 Jack (1/4") B for active basses, additional pre-damping control

Equalization

Bass	+/- 15dB	60Hz
Low	+/- 12dB	130Hz
Mid	+/- 8dB	750Hz
High	+/- 12dB	4.2kHz
Treble	+/- 15dB	12kHz

Outputs

- 1 Tune Send Jack 1/4"
- 1 Pre-Amp Out Jack 1/4"
- 1 Balanced DI Out XLR, with level control, pin 1 ground, pin 2 signal+, pin 3 signal -
- 2 Speakers Speakon, pin 1+ and 2+ signal hot, pin 1- and 2- signal cold

Effects

- 1 Serial Loop, pre eq
- 1 Parallel Loop, post eq, with mix feature (0-100%) and footswitch activation.

Switches

- 1 Tune (cancels all outputs without Tune Send)
- 1 Input A/B (activates Input A or B)
- 1 Eq On
- 1 Effect On
- 1 Power On
- 1 Ground Lift
- 1 DI pre/post Eq
- 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:	440 watts@4 ohms
Frequency Range:	20 Hz to 25 KHz -1dB
Power Requirement:	230V AC, 3,15A Slo / US-Version 115V AC, 6.3A Slo
Dimensions:	483 mm x 88 mm x 298 mm
Weight:	11 kg