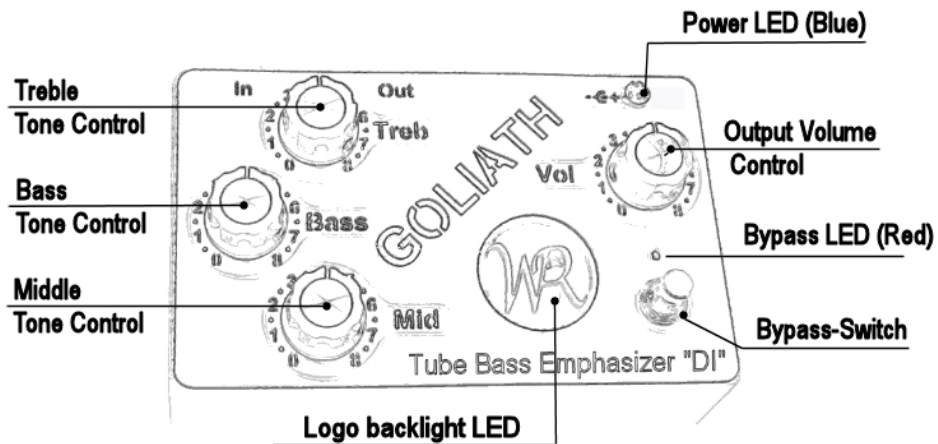
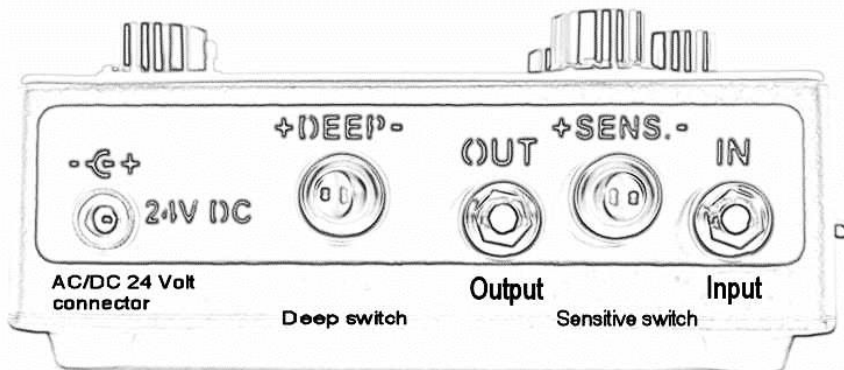


# WR GOLIATH TUBE BASS EMPHASIZER "DI"

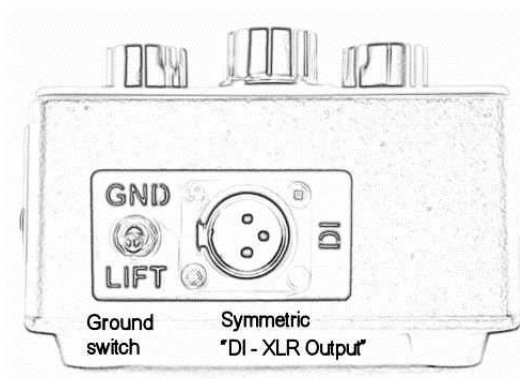
## Control and Indicator Light Layout – Faceplate



## Controls and In/Out Connections – Top of Unit



## Controls and XLR-DI Out Connector



# WR Goliath Tube Bass Emphasizer “DI”

The **WR Goliath Tube Bass Emphasizer “DI”** is an exciting new development for bass players wanting the richer, enhanced tonality associated with tubes. This innovative design uses specialised, limited availability, low voltage tubes to create wonderful tone in a limited-edition, hand-built unit.

No bass pedal board should be without one!

Equally effective across the range, from low-level to LOUD, the quality of the sound is consistently high, allowing the same amazing sound on stage as achieved in the studio. The **WR Goliath Tube Bass Emphasizer “DI”** will **not** change the basic sound of your Bass Guitar(s) as other preamps often do.

The **WR Goliath Tube Bass Emphasizer “DI”** is equipped with a “DI-XLR” Output for galvanic isolation with a “Lehle LTDI-L transformer”. The “DI” Output also works in "bypass mode" and even without connecting the power supply.

## Description

- The **WR Goliath Tube Emphasizer “DI”** was created as a way of adding the warm harmonic sounds associated with the use of tubes to set-ups using solid-state amplifiers: to ‘push-up’ the sound.
- This unit is powered by a **24 Volt DC** power supply – as required by the tubes. This special feature of this pre-amp ensures user safety because there is no high voltage on interior or exterior components.
- The **WR Goliath Tube Emphasizer “DI”** has been designed to give the best results: a great sound from a robust and easy to use product. The construction methods and components used are selected only for their high quality and the positive effects they contribute.
- The **WR Goliath Tube Emphasizer “DI”** is not a mass-produced product. The components are carefully checked, and then each unit is assembled individually, using point-to-point (hand soldered) connections.
- All these steps combine to create a limited edition, hand-built pre-amp of the highest quality that will enhance the sound of any bass guitar setup.

## Features

- The **WR Goliath Tube Emphasizer “DI”** allows you to get the warm harmonic sound of an electron tube, combined with a little more compression and, if necessary, a higher output volume (controlled by the Sensitive switch).
- The **WR Goliath Tube Emphasizer “DI”** can also be used as standalone unit, for example as a direct plugin to a mixing table or a recording unit etc. in this case be sure to use the symmetric “DI-XLR Output”
- The **"GND/LIFT switch"**: move the ground button on "Lift" position to eliminate hum. If the ground switch is on "Lift" position the built-in “Lehle” transformer ensures galvanic isolation between the shielding of the **WR Goliath Tube Bass Emphasizer DI** and the earth conductor of the XLR cable attached. If this setting generates hum, activating the ground switch may solve this. When the ground button is on position "GND", the shielding of the DI and the earth conductor of the XLR cable are connected.

- The “**Tone controls**” Treble, Middle and Bass allow you to have a good overall sound control, with a good basic Bass sound. The output sound is created by the combination of the settings of all three controls: the frequencies affected by each control are changed somewhat by the settings of the other controls this allows setting more frequencies possibilities.
- The “**Sensitive switch**” allows the Pre-Amp to additionally act as a booster: the Output Gain is increased.
- The “**Deep switch**” includes or excludes a capacitor from the circuit. This increases and slightly changes the Bass frequency.
- The “**True Bypass Footswitch**” allows you to switch the unit between active and passive mode.
- The use of **24 Volt** power supply ensures the safety of the user: there is no possibility of high voltage electric shocks.
- Reverse polarity protection.
- All components are individually selected and are carefully checked before installation.

### A respected Bass player has said

*“This unit gives me a warm harmonic sound and the dynamic range over all frequencies of the **WR Goliath Tube Emphasizer “DI”** is amazing. I won’t play without it; it gives a pure sound to my ‘solid state’ amplifier and even improves the sound of my tube amplifiers!  
“The possibility to connect the Goliath directly to recording units, mixing tables or computers using the “DI-XLR” output is a great feature.”*

## Operation

- 1) Connect the **WR Goliath Tube Bass Emphasizer “DI”** using the “**JEC Output**” to the Input of your power amp. Connect, if needed, to the mixing table or computer using the “DI-XLR” Output.
- 2) Turn the Volume potentiometer of the **WR Goliath Tube Emphasizer “DI”** to ‘0’
- 3) Plug the AC/DC power adapter into a 100 - 220 Volt supply. and then connect the lead from the adapter into the DC socket of the **WR Goliath Tube Emphasizer “DI”**.
- 4) Plug your Guitar into the Input of the **WR Goliath Tube Emphasizer “DI”**.
- 5) Enjoy.

**\*Caution:** To use the “**Sensitive switch**” ensure that the unit is in Bypass mode or that the Volume potentiometer is at zero. This will prevent harmful pops.

\* When turning the „Treble“ Potentiometer, you may occasionally hear a kind of rasping noise (wiper scratch). This is no technical deficiency, but due to the high sensitivity of the unit. I have taken care to leave out all components not absolutely necessary, to keep the basic sound of the bass as authentic as possible.

## Hardware

- Robust Die cast Aluminium Enclosure.
- **Tube:** ECC86 or 6GM8 (Russian designation), tube designed to work optimally with 24 Volts.
- A “**Sensitive switch**” allowing switching between 2 amplifying stages.
- A “**Deep switch**” allowing the switching of a capacitor in or out of the circuit.

- A “**Bypass switch**”.
- A “**DI-XLR**” symmetric Output signal plug with Ground switch.
- A “**Lehle LTDI-L Transformer**”.
- Oversized oil film (Paper in Oil) capacitors for improved tone.
- Large Potentiometers.
- Point to point wiring (hand soldered). This allows reduced length connections between components, and removes the need for periodic cleaning of plug-in connectors.
- Power supply 100-240 Volt AC to **24 Volt** DC 1 Amp.
- Reverse polarity protection.

## Package

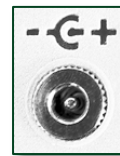
The package contains:

- 1x **WR Goliath Tube Bass Emphasizer “DI”**.
- 1x power supply (100 - 240 Volt AC to 24 Volt DC 1 Amp).
- Operating Manual/Instructions.

## Functionality checks/Problem Solving

• If all LEDs; Power LED (Blue); Switch LED (Red) and logo backlight LED are lit then the unit is working correctly.

• If the Power LED (blue) is not working, there could be a problem with the current supply. Please check the power supply and take a look at the electric poles: + (plus) has to be on the inside, - (minus) on the outside of the jack. (see picture)



- If the “WR” logo backlight LED is not lit there may be a problem with the tube heating circuit.
- If a tube replacement is necessary be sure to use only exactly an ECC86 or 6GM8 (Russian designation) type - no other tube types are suitable and will destroy other electronic components in the pre-amp. If you are unable to find an appropriate tube, contact us. We will send you a tube as soon as is possible.

## Technical data

- Weight: 1009 g
- Length: 19,5 cm
- Width: 12,5 cm ?
- Overall height: 8.6 cm
- Voltage range: 24V AC/DC
- Power consumption: max. 400 mA
- Frequency range: 20 Hz – 18 KHz
- Input impedance: 1 MOhm



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