

ROD500 Bass Amplifier



Thank you for choosing the ROD500 bass amplifier! The amplifier has been designed to faithfully preserve the character of your instrument. We have achieved this through precise design and the use of high-quality components. We believe and hope that the ROD500 will bring you a lot of joy while playing!

Warranty and Support

However, it's important to note that anything can go wrong at any time, despite our use of the highest quality components. Therefore, we offer a three-year warranty for our customers. Please be aware that the warranty does not cover damage caused by negligence or careless use, improper installation and maintenance, or tampering by unauthorized individuals.

If you require a warranty repair or have any other questions, please do not hesitate to contact us through any means available:

- Contact form on our webpage stopkoamps.com
- Facebook profile [facebook.com/stopkoamps/](https://www.facebook.com/stopkoamps/)
- Instagram profile [instagram.com/stopkoamps/](https://www.instagram.com/stopkoamps/)
- Email peter@stopkoamps.com

The warranty period starts from:

Serial number of your ROD500:

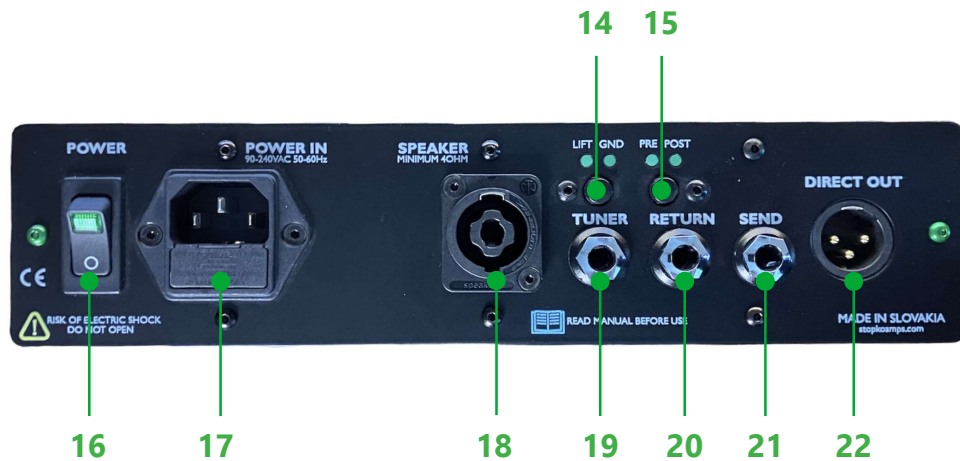
STOPKO

ROD500 Front Panel



1. **HI GAIN** button. Adds an extra 3dB of high pass shaped gain.
2. **HI GAIN** LED. The LED will illuminate when the HI GAIN switch is engaged.
3. **CLIP** LED. Flashes if the signal in any part of the signal path exceeds the limit and starts to be clipped. The built-in passive limiter becomes active. Distorted sound during the exceeded CLIP limit does not pose a risk to the ROD500 and can be used.
4. **PROTECT** LED. The LED lights up either when the ROD500 is in the MUTE state or in one of the protection modes – Over Current, Over Temperature, DC, HF.
5. **ACTIVE** LED. Lights up when ROD500 is in active state. So it is ready to play.
6. **MUTE** button. By pressing this button, the ROD500 disconnects the outputs (speaker and XLR). The tuner output remains active.
7. **INPUT**. This input accepts a standard 1/4" TS instrument plug from your bass. Connect your bass to the amplifier using a shielded instrument cable.
8. **GAIN**. This knob controls input level to the preamp.
9. **BASS**. This knob provides an adjustment range of ± 15 dB at 80Hz.
10. **LO MID**. This knob provides an adjustment range of ± 15 dB at 240Hz.
11. **HI MID**. This knob provides an adjustment range of ± 15 dB at 520Hz.
12. **TREBLE**. This knob provides an adjustment range of ± 15 dB at 1200Hz.
13. **MASTER**. Controls the overall volume of the amplifier.

ROD500 Rear Panel



14. **LIFT/GND**. Use this switch to lift the ground connection of the XLR output.

15. **PRE/POST**. Using this switch (with LED indicators), the line outputs can be either:

PRE (pre-EQ/effects-loop)

POST (post-EQ/effects-loop)

The line outputs are not affected by adjustments to the MASTER level (13).

16. **POWER**. Use this illuminated switch to turn the overall system power on or off.

17. **IEC POWER INPUT CONNECTOR**. This is where you connect the supplied AC power cord. ROD500 automatically recognizes the mains voltage. Voltage from 90VAC to 240VAC can be used (50Hz - 60Hz).

18. **SPEAKER** output. Connect bass cabinet with minimal impedance of 4Ω. Use only appropriately rated speaker cabinets (min. 500W/4Ω, or 250W/8Ω). Pins 1+ and 1- is used.

19. **TUNER** output. This 1/4" TS unbalanced output is pre-EQ and pre-mute. It is typically used to feed an external tuner.

20. **RETURN**. Use this 1/4" TS unbalanced input to return the processed line-level output of an external effects. Note: Anything plugged in here will break the internal signal path to the internal power amplifier.

21. **SEND**. Use this 1/4" TS unbalanced output to send a line-level output to an external effects. Use the loop return jack to feed the returned processed signals back into the ROD500.

22. **DIRECT OUT**. Use this electronically balanced XLR jack to route signal from the ROD500 to a mixer, external amplifier or recorder.

ROD500 Technical specification

Operational mains voltage	85VAC – 265VAC, 45Hz - 65Hz
Total system efficiency	89%
Peak output current	30A
THD+N (1kHz@1W)	0.003%
Dynamic range	121dB(A)
Output power with 4Ω speaker (or two 8Ω speakers in parallel)	500W @230VAC mains voltage 470W @120VAC mains voltage
Output power with 8Ω speaker	245W @230VAC mains voltage 245W @120VAC mains voltage
Minimum speaker impedance	The recommended minimum impedance of the connected speakers is 4Ω. The actual minimum impedance of the connected speakers is 2.7Ω - Not recommended - you can easily hit the current limit.

Over Temperature Protection – Temperature protection is implemented to prevent the ROD500 from damage due to overheating. When thermal protection is engaged, ROD500 are muted until the temperature has dropped 5°C for a minimum of 10s.

Never cover the vents on the sides of the amplifier.

Avoid placing the amplifier in direct sunlight.

Over Current Protection– If an amplifier output is shorted or reaches its current limit, the module will enter to over-current protection and mute ROD500 output until the internal protection timing allows the module to re-enable the amplifier.

DC Protection – If DC-voltage is detected at the amplifier output, the ROD500 mutes the output. If DC still is present after 3 cycles, the ROD500 DC protection circuit switch off the internal amplifier power supply. Resetting the latched protection circuit requires cycling of the AC mains.

HF Protection – A high frequency protection is implemented in order to protect the amplifier output filter components from overload above 25 kHz. If a high frequency (and high amplitude) signal is present for a longer period of time the module will enter HF protection and mute ROD500 output until the internal protection timing allows the module to re-enable the amplifier

The product complies with the following directive:

Electromagnetic Compatibility 2014/30/EU

Low-voltage Directive 2014/35/EU

RoHS Directive 2011/65/EU & Directive 2015/863/EU

Chemical substances REACH Regulation (EC) No 1907/2006.