

AMT Bass ZEALOT BZ-300

Bass Power Amplifier



USER'S MANUAL
Preliminary

Thank you for purchasing the AMT BZ-300.

Please take the time to read through this manual to become acquainted with the AMT BZ-300 bass power amp.

INTRODUCTION

AMT Electronics wants to present our new product - AMT BZ-300 bass power amp.

This is a compact D-class audio amplifier with the output power up to 300 Watts, a switching power supply with a wide range of AC mains voltage. The power amplifier is a good companion to the AMT Bass Preamps (AMT BC-1, AMT A-Bass, O-Bass) or to the preamps of other respected producers.

The BZ-300 is designed in close touch with musicians using the best components. Each amplifier is tested to confirm that it meets our specification and we believe that it will meet your requirements in the best way.

1. SAFETY INSTRUCTIONS

WARNING!

Do not expose the BZ-300 to rain, moisture, dripping or splashing water. Do not place objects filled with liquids, such as vases, etc, on or near the device.

WARNING!

Inside the device, there are no parts that are user-serviceable. Repairs to the device may only be performed by qualified personnel.

WARNING!

Before you turn on your amplifier, make sure that the AC MAIN SELECTOR Switch is in a proper position according to the voltage of your AC network.

Special Attention!!!

When in work, the BZ-300 can be Hot.

- You have to be sure that the ventilation grilles are not closed and there are no obstacles for the right air flow.
- Do not put the BZ-300 near the heat sources or inside a closed cabinet.

!!! IGNORING THE ABOVE RULES CAN CAUSE THE DEVICE'S BREAKDOWN AND CAUSES THE LOSS OF WARRANTY SERVICE!!!

2. The Front Panel



1. **INPUT SENSITIVITY** - an attenuator of the input signal. It is the 12 positions switch. The standard voltage values and MUTE are shown, the division price is approximately 2dB.
2. **INPUT SIGNAL** - a dynamic LED indicator of the input signal.
3. **LIMITER** - a LED indicator shows that the input signal has reached a limiter threshold (Approx. 10dB above the nominal level chosen with the input signal attenuator).
4. **Вентиляционная решетка** - it has to be open not to prevent air flow.
5. **POWER** - a power switch.

2. The Rear Panel



6. **AC mains power socket.** This is where you connect the supplied AC power cord.

WARNING!

Before plugging in the power cord, make sure that the voltage selector switch is set it the proper position for your local AC mains!!!

7. **VOLTAGE SELECTOR SWITCH.**

WARNING!

Make sure that the switch is in a proper position for your local AC mains voltage before you plug in the AC power cord!!!

- 8,9. **SPEAKER OUTPUTS.** These are two combined Speakon/ TS 1/4" output connectors to supply speaker-level power to the speaker cabinets. The rated output power is 300

Watts rms into 4 Ohm load or 150 Watts rms into 8 Ohm load. These two identical outputs are wired in parallel. You can use either one of them, or use both. You ought to be sure the total speaker impedance load is 4 Ohm or greater.

* the short-circuit protection is present.

For example, you could connect:

- Two 16 Ohm speakers - it would be an 8 Ohm load,
- Two 8 Ohm speakers - it would be a 4 Ohm load,
- One 8 Ohm speaker,
- One 4 Ohm speaker.

WARNING!

You have to use speaker cables with Speakon or 1/4" TS connectors. Do not use instrumental cables as they may overheat!!!

10. **FAN.** Make sure that the fan is not obscured in any way.
11. **LINK.** The output XLR male connector to send a signal to other devices (other AMT BG-300, mixer, sound card etc). The output signal level on this connector is the same as on the INPUT connector (13), the output signal is just a buffered replica of the input signal.
12. **GND/LIFT.** The switch connects the pin 1 of the LINK XLR connector to the amp's common wire (GND) or lefts the pin floating. It may help to eliminate hum in some cases.
13. **INPUT.** The combined XLR/TRS 1/4" female connector. You can use a balanced XLR cable, a balanced TRS cable or an unbalanced TS cable as a source of the input signal.

3. AMT BZ-300 TECHNICAL SPECIFICATIONS

Output Power Rating:	150 Watts rms @ 8 Ohm, 1% THD 300 Watts rms @ 4 Ohm, 1% THD
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INPUT	
Nominal standard Input signal levels (can be chosen with the attenuator; balanced or unbalanced):	-10dBV, 0dBu, +4dBu
INPUT impedance:	100k

LIMITER	
attack time:	typ <0.1ms
release time:	typ 200ms
threshold:	10dB above nominal level

LINK	
output impedance:	1k
output level:	the same as on INPUT

Frequency Response:	+0 / -3 dB 20Hz - 20kHz
Signal to Noise Ratio:	76 dB (20Hz-20kHz, unweighted)
Maximum Gain:	30 dB
Power Requirements:	~100-130 VAC, 50-60 Hz, 350 W ~200-265 VAC, 50-60 Hz, 350 W

DIMENSIONS	
(HxWxD):	44,4 (MM) x 220 (MM) x 166 (MM)
NOTE: with special locks, two AMT BZ-300 can be combined in one construction that fits 1U rack	
Weight:	1,3 kg without package (approximately)

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