



TUBE CAKE

3 W POWER AMPLIFIER

User's manual

www.amtelectronics.com

Safety precautions.

CAUTION! There are no user serviceable parts inside. Repair of the device can be carried out only by qualified experts. If the device is not used it must be disconnected from mains.

WARNING! In order to avoid fire or electric shock the device must not be exposed to rain or moisture. Do not let water or other liquid get inside the device. Do not place vessels such as vases filled with liquid on top of the device.

Please read the instruction manual very carefully.

1. Keep the user's guide at hand.
2. Follow all instructions related to device operation.
3. To clean the device, use only a dry cloth having disconnected the device from mains prior to that.
4. Do not place the device near heat sources, keep it from direct sunlight.
5. Lay the mains cable so that it is not stepped on and avoid its contact with sharp corners, etc. If you use the plug or outlet for switching the device off they should be easily accessible.
6. Use only additional devices and accessories recommended by the manufacturer.
7. Disconnect the device from mains in case of thunder-storm or when the device is not in use for prolonged time.
8. All works related to the device repair must be done only by qualified service personnel.
9. **WARNING!** All service instructions are intended only for qualified personnel in order to avoid electric shock; do not carry out any repair works which are not described in the instruction manual. Repair works must be carried out only by qualified experts.

Contents

Important instructions	1
Complete set	1
General Characteristics	2
AMT TUBE CAKE TC-3 features	2
Before you start	2
Controls	2
Specifications	2
Power adapter low-voltage connector contacts arrangement	2

IMPORTANT INSTRUCTIONS!

NON-OBSERVANCE OF THE FOLLOWING INSTRUCTIONS CAN CAUSE DAMAGE OF THE AMPLIFIER OR SPEAKERS. THE DAMAGES RESULTED BY NON-OBSERVANCE OF THESE INSTRUCTIONS MAKE THE WARRANTY VOID.

- After transportation or storage of the product under negative temperatures, before switching the device on it is necessary to leave the device under room temperature in its original package for AT LEAST 2 hours!
- To connect the amplifier to other devices use only the cables intended for such connections.

SWITCHING ON the amplifier:

- Switch the device on **ONLY AFTER YOU HAVE DONE** all audio connections!
- Before connecting the device to mains make sure that the case, the connecting cable and the of the power adapter have no damages such as cuts, cracks, dents, etc. and are operational.
- To switch the device on first insert the low-voltage connector of the power adapter into corresponding jack of the amplifier and only then plug the adapter into the mains outlet.

SWITCHING OFF the amplifier:

- To switch the device off first disconnect the power adapter from mains and then disconnect its low-voltage connector from the jack of the amplifier.

COMPLETE SET

The complete set includes:

1. Power amplifier	1шт.
2. Instruction manual	1шт.
3. Packaging	1шт.
4. Warranty card	1шт.

General Characteristics

While creating a lightweight and compact TUBE CAKE TC-3 amplifier, AMT focused primarily on implementing the basic features of a tube amp using semiconductor component base but without the drawbacks such as high cost, large size and weight, and the need for periodic tube replacement (up to 2 - times a year).

The most prominent features, which make the sound of tube amplifiers so peculiar have been thoroughly implemented by the engineers of the company in the TUBE CAKE TC-3.

- Output impedance of the TUBE CAKE TC-3 is comparable with the load. Such an output resistance in combination with the impedance of a frequency-dependent guitar speaker, shapes the "correct" guitar amplifier frequency response.
- TUBE CAKE TC-3 has a smooth transition from the linear mode to chopping with domination of low serial number harmonics in the spectrum.
- Despite its relatively low power TUBE CAKE TC-3 has a large dynamic range, since the chopping, like in fully powered tube amps, is not so noticeable.

Such an amplifier can be used in cases where great volume is not necessary, but you need a specific extra load, peculiar to vacuum tube amplifier: for home practicing, guitar recording at home and playing in small clubs.

TUBE CAKE TC-3 can fulfill this task with nice sound loading and keeping it natural.

The amplifier has standard for a tube guitar amplifier controls - «VOLUME» «PRESENCE», as well as used in many models «Resonance» («DEPTH»), controlling the response at low frequencies range.

AMT TUBE CAKE TC-3 Features

- high-quality components;
- lightness and compactness;
- low voltage consumption.

WARNING!

AMT TUBE CAKE power amplifiers, as well as any high-end devices, require high quality power supply. We strongly recommend that you use power adapters that meet the necessary quality requirements to power devices on this series.

Before you start

For the purpose of transportation the device was carefully packed by the manufacturer. However, if cardboard packaging is damaged, it is necessary to check the device for the presence of external damages.

- In case of damages do not send the device to us, but inform the seller and transport agency since otherwise you lose the right to damage compensation.
- In order to avoid damages during storage and transportation always use original packaging.
- Do not allow children to play with the device and packaging materials.
- Please recycle all packaging materials in the way harmless to environment.
- Operating the device next to powerful radio transmitters and sources of high-frequency signals can lead to significant sound distortion. In this case increase the distance between the device and the transmitter and use the screened cables for all interconnections.

Controls



1. Operation indicator;
2. CABINET 8 Ohm – output to speaker;
3. DEPTH – adjusts frequency response curve within low frequencies range;
4. PRESENCE – adjusts frequency response curve within high frequencies range;
5. DC 18V (right panel) – power adapter connector;
6. INPUT – for preamp connection;
7. VOLUME.

SPECIFICATIONS

INPUT

Input resistance	500 kOhm
Response	0dB (775mV)

CABINET output 8 Ohm

Connected speaker resistance	8 Ohm
Nominal output power	3 W

Power

Voltage	DC 18V
Consumed current	0.5 A max
Power adapter (optional)	

Voltage	DC 18V
Load current	1 A min

Dimensions / Weight

NET dimensions (WxHxD). (Without power adapter)	114x55x74 mm
NET weight (without power adaptor)	0.26 kg
GROSS dimensions (WxHxD)	About 128x62x81mm
GROSS weight (without power adaptor)	About 0.31 kg

Power adapter
low-voltage connector
contacts arrangement

Расположение контактов
на низковольтном разъёме
сетового адаптера



AMT Electronics reserves the right to make changes in the design and appearance of the device which in no way violate the product's consumer properties without prior notification. Therefore specifications and appearance of the product can differ from the ones shown in the given document.