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## ***Fuchs Bass Amps***

V 1.0

# Operations Manual

**For tube and solid state models**

**FBT300, FBT700, FBS300, FBS700**

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## **A Note from Andy,**

First of all, *thank you* for purchasing a Fuchs Bass Amp!

As a guitar player who also plays bass and appreciates great bass tone, I designed the Fuchs Bass amps to be sensitive and responsive *instruments* for musicians to create music. Each Fuchs product is precision handmade by myself and the staff at Fuchs Audio, built to extremely high standards of excellence using the highest quality components. With over two decades experience in the service, manufacturing, and design of tube audio/music equipment, we at Fuchs Audio are extremely proud of the quality and tremendous musicality of all our products, and know you'll feel the same way.

*Please read this manual carefully.* Doing so will allow you full understanding of your amplifier and operation, thus quickly providing you the tones & performance you want. Your Fuchs Bass amp can only perform to its fullest glory by your full understanding of all its features.

Feel free to call or e-mail us with comments & questions about your amp, or just to find out what's new here at Fuchs Audio.

Lastly, I recommend checking out our web site:  
[www.fuchsaudiotechnology.com](http://www.fuchsaudiotechnology.com), or [www.fuchsaudiodirect.com](http://www.fuchsaudiodirect.com) for product/user updates, cool links and other info benefiting our customers.

Sincerely,

Andy Fuchs  
President

## **Fuchs Audio Technology®**

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# **Instructions for Fuchs Bass Amps All models:**

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- 8) Warranty/repair information & mail-in warranty form

### **1 Introduction to Fuchs Audio Technology Amplifiers**

#### **What makes our products unique?**

The recent proliferation of "Boutique" bass amplifiers, allow bassists to recognized what audiophiles have known for years, properly designed circuits can offer the finest musicality, detail, and sensitivity to playing subtleties of any type amplifier. Anyone who's enjoyed the sweet, responsive character of a well-built boutique amplifier realizes you can't model or computer simulate the "organic" qualities, no matter how hard you try. It's like enjoying fresh food or food that's been frozen. Something gets lost in the translation.

#### **We feel our designs go a few steps beyond those of other manufacturers!**

In addition to refining our circuit designs and operating points with computer "Spice" modeling, we also spend countless hours tuning our circuits through careful parts selection and refining the internal layout of our products. Details like single-point star grounding of all internal circuits, premium audiophile grade power and output transformers, high speed switching diode power supplies, regulated and

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**2**

## **Please read before powering up your amp**

**Please see Panel Diagrams in next section **3** for assistance.**

- 1) Inspect to make sure power & pre-amp tubes are intact & snugly seated in their sockets.
- 2) Make certain a speaker (load) is plugged into the speaker jacks on the back of the amplifier (4 or 8 ohm).
- 3) Reduce all front PANEL controls (MASTER, GAIN) to moderate levels (approx at 7-9 o'clock positions). Set tone controls to 12.00 positions.
- 4) Install instrument cable from bass into front panel INPUT
- 5) Put mute switch in mute position.
- 6) Install power cord to amplifier (AC POWER IN) and to AC power source.  
**NOTE: The Fuchs bass amps are universal AC power devices, which means they will work anywhere in the world and automatically select the proper line voltage automatically.**
- 7) POWER UP amplifier by: 1) flipping POWER rocker switch. The tube amps have a 30 second mute at turn on to allow the tubes to stabilize. The mute switch is overridden while the amp mute circuit is in mute mode. The solid state models will play immediately, so make sure your levels are low initially.
- 8) The Amplifier is now fully on and ready to use. Feel free to adjust all controls as you see fit.

**TO PUT AMP IN MUTE MODE**- Simply flip the MUTE switch into mute position.

**TO PUT AMP IN PLAY MODE**- Simply flip the MUTE switch to on position.

**TO TURN AMP OFF** Flip the mute switch to mute mode, and switch off the AC power.

**Please Note:** The Fuchs 700T tube amp uses two premium selected 12AX7 tubes. Do not remove the tubes during operation and do not power the until up without tubes in place. This can cause damage to power supply components in the amp which are not field serviceable. These tubes should last many years without replacement. Should the amp become noisy, or lose gain or sound, they should be replaced with premium selected preamp tubes.

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### 3 Rear panel details.



### 4 Front Panel Controls and Their Functions



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**Input Jack:**

Input jack is a 1/4" phone plug, designed for 1-Meg impedance, guitar-level signal. This input will readily accept pedals/effects without any loss in performance. The design of our bass amps are quite flexible, so we first suggest exploring its performance without any effects or pedals initially.

**Gain Control:**

The gain control sets the input gain for the amplifier. The gain control sets the preamp gain. Lower settings for active pickups, higher settings for passive pickups. Depending on the instrument, running the gain control high and master volume low can give you distortion (whether you desire that is up to you). Running the gain low and master high will result in the maximum cleanest signal from the amp.

**High Control:**

The High control boosts and cuts high frequencies.

**Mid Controls:**

The Active Mid control serves 2 functions: Clockwise it increases midrange frequencies and counterclockwise, it cuts mid frequencies. The active mid knob chooses the frequency that the active mid control operates at. These two controls allow you to contour the midrange of the amp to taste.

On the tube units, the midrange frequency is chosen in steps on a rotary switch to presents, using an inductor based eq, not unlike an SVT amplifier.

On the solid state amps, the mid frequency is continuously variable.

**Low Control:**

This control adjusts the low spectrum of the amp.

**5 (A)-REAR Panel****AC power cord input:**

Using the supplied power cord. Connect AC POWER IN on amplifier and to AC power source. Please confirm your line voltage matches that of the amplifier!!!

**AC power Fuse:**

This fuse protects the amplifier if any malfunction occurs. Use ONLY stock fuse rating as supplied by factory. If this fuse blows more than once, there may be an issue with the amp requiring service. There are internal factory NON FIELD REPLACEABLE fuses. If these fuses fail, return the amp for service.

**Power On/OFF rocker switch:** Turns AC power on and off. All models are universal AC configured, so the amp can be plugged-in anywhere in the world and automatically set the proper AC power input voltage.

The 300 and 700 watt models are designed for nominal loads of 8 or 4 ohms. Maximum power is obtained at lower impedances. Below 2.65 ohms may cause a shutdown on transients, which is normal. If this occurs, raise the speaker output load upwards. It should not cause damage to the amp. See power output specifications for proper loads on each model.

## **6** Effects Loop

### **Using the Loop:**

The front panel effects loop is a series only loop, designed for line level signals. Use quality shielded cables (audio cables not speaker wires) and use line level effects for optimal performance.

## **7** The DI output:

**The DI output** is an electronically balanced XLR output for feeding the front of house (PA system), or recording applications. There are three switches which affect it's operation:

**The ground lift**, disconnects the ground pin on the XLR, which may prevent ground loops or hum in various situations.

**The pre/post switch**: selects whether the DI is straight from your instrument input (a buffered signal, but not affected by tone controls).

In post position, the tone controls affect the DI output.

**DI Phase**: This is the switch you never knew you needed ! This switch switches the phase of the audio signal coming from the DI output. It's especially important in live situations, where the bass rig may be out of phase with the house sound system, which can cause low frequency cancellations. Switch the switch to determine the fullest sounding position. It can also be used minimize feedback with an acoustic upright bass.

**DISCLAIMER:** There are exposed Internal dangerous high-voltages in this amplifier. Do not attempt to service, repair you are not qualified to do so. Please contact Fuchs Audio beforehand with questions in this regard. Fuchs Audio takes no responsibility or shall be held liable for any personal harm caused or damage to this amplifier as a result of unauthorized service, repair or internal adjustments made to this amplifier. Please note: The DI output should not be plugged into a mixer with phantom power. This may cause noise and/or damage to the DI output circuitry as well as pops and excess noise through your bass cabinet and the main PA system or recording..



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## Power specifications:

### 300-Watt models:

- 300W at 1% THD+N, 4Ohm
- 360W at 0.1% THD+N 4Ohm • 380W at 10% THD+N, 4Ohm • 450W at 1% THD+N, 2.7Ohm

### 700-Watt models:

- RL 2.65 Ohms 1000-Watts
- RL = 4 Ohms 720 Watts
- RL=8-Ohms 560 Watts

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## 8 Warranty Information

### The Fuchs Audio Technology Warranty

Fuchs Audio Technology® guarantees our products to be free from defective workmanship or material failure for a period of three years from date of new purchase to the original purchaser. This does not apply to Fuchs amplifiers that have been tampered with, damaged by shipping carriers, reverse engineered, or modified. This warranty is void if the amplifier is used with power attenuator type devices (Power Soaks, Air Brakes, Hot Plates etc.). Your warranty form/information must be returned to Fuchs Audio Technology® within 30 days of purchase, or your warranty will not be in effect.

Fuchs Audio Technology® reserves the right to suspend or terminate the above warranty at our sole discretion, should damage from any of the above limitations and or exclusions be detected upon examination.

Keep the information on this page for your records.  
*Please mail-in warranty form on next page*

**FUCHS MODEL** \_\_\_\_\_

**SERIAL NUMBER** \_\_\_\_\_

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## WARRANTY REGISTRATION FORM

**This completed form must be returned to Fuchs Audio Technology within 30 days of purchase along with a copy of your receipt from your authorized dealer.**

Please fill in all requested information on this form so we may register you for future warranty repairs or future upgrades, should they become available.

Purchasers Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Country \_\_\_\_\_

Phone Number \_\_\_\_\_

E-Mail address \_\_\_\_\_

Model \_\_\_\_\_

Serial Number \_\_\_\_\_

Date of Purchase \_\_\_\_\_

Dealer Name \_\_\_\_\_

Comments:

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Please return this form to:

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