



Dear **EINSTEIN** customer,

With your purchase of the **EINSTEIN** pre-amplifier **The Tube**, you now own an audio component of the highest mechanical and electrical qualities. In order to fully appreciate the great benefits of this unit, we kindly ask you to carefully read these instructions and manual.

The Tube is a pre-amplifier of the highest quality, which emphasizes relevant features over unnecessary gimmicks. Some of these features are:

- A realistic playback quality
- Exemplary reliability
- Simple and intuitive usability
- High value

The **EINSTEIN The Tube** pre-amplifier is not a component, which sounds nice, soft or bright. Our goal is to integrate a component into your existing audio system, which minimizes its impact on the musical signal. As your main source selector component a pre-amplifier holds a key position in your audio system. No world-class downstream component could ever correct errors, which occur at the source of the music signal. Incorporating **The Tube** as a switching component of highest qualities was the right choice.

We wish you many hours of happy listening with your **EINSTEIN The Tube** pre-amplifier.

Regards from Bochum,

Volker Bohlmeier



1. Safety information and precautions:

Do not manipulate the component in any way (loss of warranty, danger of electric shock)

For electrical safety reasons never operate the pre-amp without its top cover

Protect your pre-amplifier from moisture

Never disconnect the protective conductor

Exchange the safety fuse with one of the same value

Please contact your dealer / distributor or **EINSTEIN** directly prior to changing the tubes

2. Package contents

EINSTEIN The Tube balanced pre-amp

Power cord

Gloves

Owner's manual

Remote control including batteries

Warranty cards

3. Technical information

The Tube is a fully balanced tube pre-amplifier. Due to its innovative design **The Tube** features only two gain stages. The tube input stage converts each input into a balanced signal while simultaneously amplifying it. The output stage is strictly an impedance transformer, which places the balanced signal with low impedance at the output terminals. Each line input features its own input tube, which a heater activates when the appropriate input is selected. Any sound degrading electrical contacts are completely eliminated from the signal path. Instead of utilizing a sound degrading volume control in the signal path, we utilize an electronic shunt attenuator. Two separate dual mono power supplies power the amplifier section.

4. Placement

When selecting a placement for your pre-amplifier, please consider proper ventilation of the unit as well as a solid platform for the unit to be placed on. **The Tube** should never be placed on top of other components nor should other components be placed on top of it. Due to the massive transformers you should not place a turntable or phono amplifier next **The Tube** pre-amplifier. Separately available equipment racks can positively affect the sound quality of your new pre-amplifier.



5. Power

The Power socket is located on the left underside of the unit. This connector also includes the fuse and one spare. Please make sure that the unit is powered off and not connected to the power outlet prior to exchanging the fuse. 230V are at the safety clip, EXTREME SHOCK HAZARD!

6. Connecting your pre-amplifier

Prior to powering the unit on, please make sure that all source components and your amplifier are properly connected to the pre-amplifier. For optimal results you should always use the balanced input and output connectors. If necessary, connect a ground wire between your pre-amplifier and source component. Please check each balanced connection for the proper pin layout:

- i. Pin 1 = Ground
- ii. Pin 2 = + Positive
- iii. Pin 3 = - Negative

If you are running **The Tube** non-balanced, make sure the pin layout is correct, so as to avoid any sound quality degradation. The innovative circuit design of your **EINSTEIN The Tube** pre-amplifier allows full use of low impedance interconnects. Please consult your local dealer / distributor or **EINSTEIN** directly for more information.

Interconnects

You may use any high quality interconnects with RCA or XLR termination. Please make sure that the connectors are free of oxidation and offer a solid contact point. We recommend our own interconnects as they have been optimized to work with our components (please use our pre-amplifier to listen to music and not as a testing tool for signal cables).

Loudspeaker cables

Only use high quality loudspeaker cables with properly terminated ends. Make sure that the terminations are free from oxidation and that the cable's cross section is wide enough. Using loudspeaker cables that are too thin minimizes the power transfer from our amplifier and results in a lower damping factor critical to properly control your loudspeakers.



7. Power switch

To power the unit on or off, please use the power switch located at the underside of the chassis next to the power input. The blue display and lighting of the tubes will indicate the units power status. The pre-amplifier is ready to play within approximately 4 minutes. The unit will achieve its optimum sound and operating temperature within approximately 30 minutes of operation. Always turn the pre-amplifier on prior to the amplifier (or active loudspeakers). To turn power off, always turn the amplifier off first, followed by the pre-amplifier and source components.

8. Control from front faceplate

All functions of the pre-amplifier can be controlled via the two selector switches located at the front of the faceplate. The right switch controls the volume level; the left is your input selector switch. Due to the special input switching circuit utilized, a momentary silence followed by a fade in and out of approximately 1 minute can be noticed when selecting a different input and is perfectly normal.

9. Remote control

The supplied **EINSTEIN** system remote control allows all functions of your **EINSTEIN The Tube** pre-amplifier. The remote is split into three sections. The top section contains no functions relevant to the operation of your pre-amplifier. The middle section controls the volume level. The bottom section controls all inputs.

10. Safety fuse

A blown fuse indicates a fault in your pre-amp or mains power. Should your unit not power on after you have replaced the blown fuse please contact your dealer / distributor or **EINSTEIN** immediately. The fuse is of following value: 1A slow-blow for 230-240V version and 2A slow-blow for 115- 125V version. Prior to replacing the fuse, you must disconnect the amplifier from the power line due to shock hazard. Please make sure that the power cord is disconnected from the power outlet. The fuses are located right next to the power input at the bottom of the unit.

11. Tubes

The tubes used in our **EINSTEIN The Tube** pre-amplifier are EC88 "long life" versions, checked for extreme tolerances. The tubes were tested in house and burned in for approximately 150 hours in your pre-amplifier. This procedure was then followed by a final lab check. In order to maintain the pre-amplifiers fidelity only the same kind tubes should be used as replacement, as these have been fully verified and tested by our lab.



12. Service

If you encounter any problems with your pre-amplifier please contact your local dealer / distributor or **EINSTEIN** directly.

13. Maintenance & care of your pre-amplifier

Cleaning of all chrome and stainless steel surfaces should only be done with a damp cloth and a small amount of Windex or similar window cleaner.

14. Tips to improve and tweak the sound quality

You can improve sound quality of the unit by paying attention to these points

- Make sure you have proper phase
- Use only high quality preferably low impedance interconnects
- Connect the pre-amp to a power conditioner
- Use a high quality power cord
- Use a high quality rack and support
- Make sure you have proper ground in your system

15. Warranty

Your **EINSTEIN The Tube** pre-amplifier comes with a 3-year warranty (tubes 6 months) if the following conditions are met:

- Return of the supplied warranty card and appropriate customer information stamped by your dealer within 30 days
 - No modifications of any kind were made to the unit
 - Return of unit for service or repair in only the supplied original packaging
 - The warranty is not transferable.
- If you decide to send your unit to EINSTEIN for a complete and thorough inspection, the remainder of your warranty will carry over. The cost for this inspection varies on the condition of the unit.



16. Technical specification EINSTEIN The Tube

Signal to noise ratio	greater than 95db
Distortion @ 1khz & 1.5V output voltage	less than 0.05%
Distortion @ 1khz, 1.5V & 100 Ohm load	less than 0.1%
Output Voltage	2.5 V @ 100 Ohm
Maximum input voltage	7V
Output impedance	50 Ohm

17. Final testing prior to shipment

Visual inspection	OK	Control Person
Electrical check	OK	Control Person
Listening check	OK	Control Person
Packing & final check	OK	Control Person