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Amplifier Laboratory for Audiophiles!

2009 is EK JAPAN's
15th Anniversary
of Foundation

300B SINGLE STEREO POWER AMPLIFIER "TU-LAB"

Model No.: TU-8300



▲ Assembly example (with 300B tubes)



▲ Included parts for assembly



▲ Assembly example (with KT-88 tubes)

【Tools required for assembly】

Soldering iron (15~30W), Solder, Soldering iron stand, Philips screwdriver (#2), Diagonal cutter, Long-nose pliers, Allen wrench (1.5mm), Penknife, Scissors

TU-LAB is a single stereo power amplifier with 300B tubes, the most popular tube of all times, and is designed so that tube amplifier fans can work over it on their own after assembly.

Experiment a combination of tubes, output transformers (OPT), volumes, etc, and find your favorite tone out of TU-LAB!

●Triode connection of pentode also available!

Triode-connected pentode and beam tube have equal qualification and attraction as 300B. In this TU-LAB, 8 pin sockets are equipped, so enable triode connection of such tubes as KT88(6550), KT66, EL34(6CA7), 6L6GC, etc, without any modifications to the amplifier.

●Try different OPT and volumes!

A "magical" slide universal bracket has been developed for TU-LAB and installation of various kinds of OPTs is enabled.

●Full of ingenuity for high quality sound, stability, safety, and energy-saving

["Constant current circuit, self-bias + fixed bias" method]

Instead of cathode resistors of self-bias method, constant current circuit is adopted so that a constant plate current can flow when any of the above mentioned tubes, and possibly many other types, is installed (constant current value can be fine-adjusted.).

[Power shut-down circuit for OPT upon over-current]

If an over-current occurs in either of the OPTs even for a moment, the B power supply is shut down and LED indicator at the troubled side shows that a malfunction has taken place.

[FET ripple filter]

FET ripple filter, time-proven in the performance of the reduction of hum noise, is adopted for the B power supply.

[All tubes heated by AC]

From an ecological point of view, all tubes are heated by AC power, which improves the power loss in the rectifying circuit, and heating is moderated.

●World-wide power transformer

For use in 200V environment or oversea countries, a multi power transformer that can be used under 4 different power voltage environments, such as 100V, 115V, 200V, and 230V is adopted (Select the setting location of the corresponding connector upon assembly.).

【Specifications】

- Tubes: 300Bx2, 12AT7x2 (No tubes for replacement included)
- Max. output: 8W+8W (by default, with 300B tubes and 8Ω of load applied)
- Frequency response(-3dB): 15Hz~40kHz
- Residual noise (IEC filtering): 0.5mV (0.1, V when KT88 installed)
- Input sensitivity: 200mV ● DF: 6.3 ● Speaker: 4~16Ω
- Output terminal : Gold-plated, binding post
(bare wires up to Φ5mm can be inserted, and banana plugs can also be used.)
- Input terminal : Gold-plated RCA jack, single stereo line (at the back)
- Power input : 3P inlet (IEC320)
- Power voltage : 100V AC 50/60Hz
(115V, 200V, and 230V are also available. Change the soldering location of the connector for power transformer as shown in the photo below.)
- Power consumption: 80W by standard (70W~95W as ip is fine-adjustable.)
- Dimension: W400xH213xD250 mm
(Chassis with the punched metal cover, protrusion not included.)
- Weight: 10.8kg (fully assembled, without a power cable)
- ip adjustment range: Approx. 50~80mA (L,R independently adjusted)
- Hum balancer function equipped
- A microcomputer is adopted for TU-LAB, for the first time in our TU amplifier series (warming-up timer <delay in B power supply>, cathode voltage monitoring, automatic shut down of B power supply upon malfunction)

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