

Projekt-Universal Tube Output EZ Linestage Manual

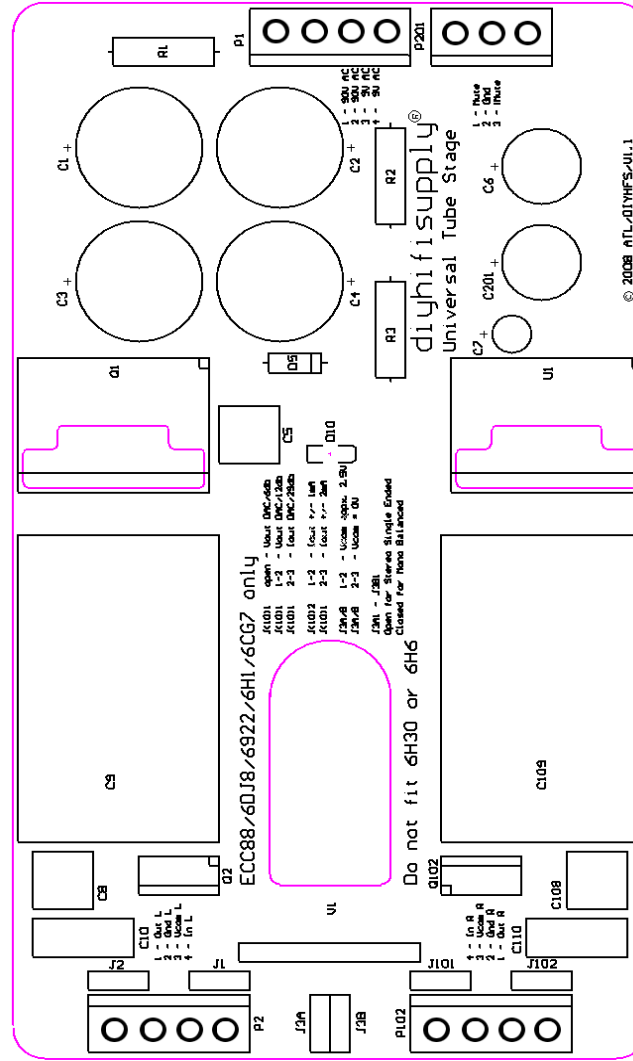
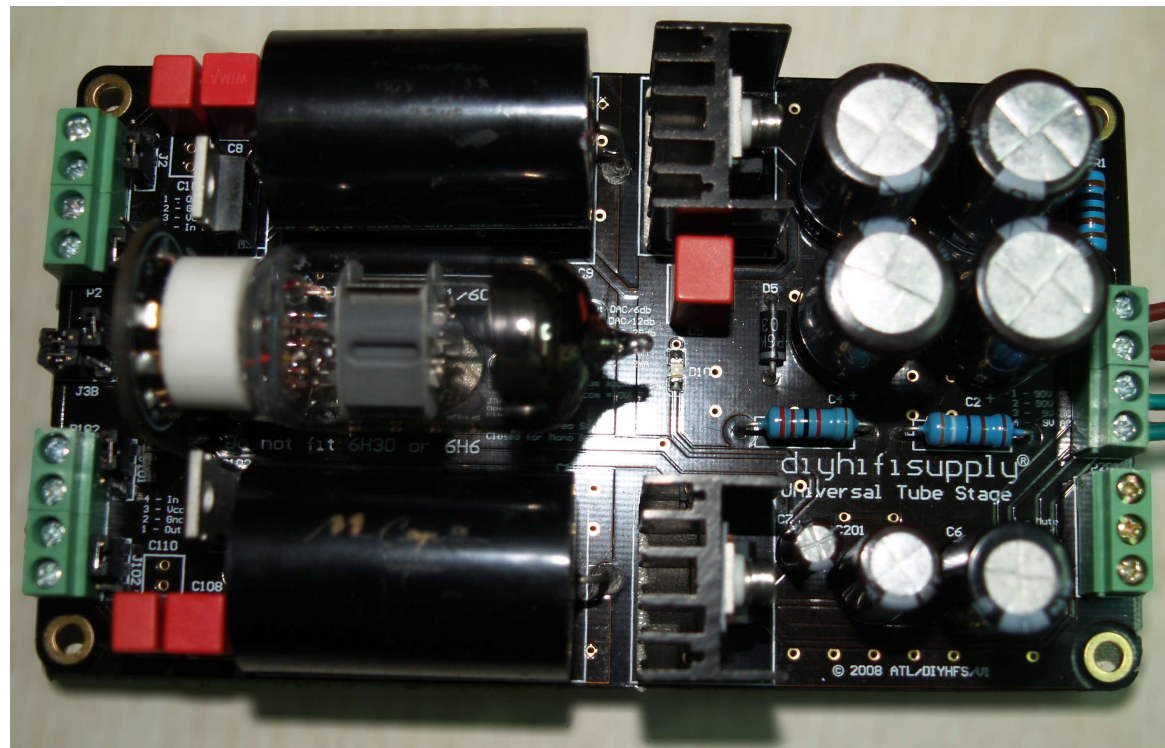


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Introduction and Overview

The diyhifisupply® Universal Tube Output Stage has been designed to offer a State of the Art tube amplification stage, mainly intended to be applied to CD-Players, DVD-Players and DA-Convertors to completely replace the original solid state analogue circuit.



Additional applications include the use as Line Preamplifier with 6dB or 12dB gain. This manual will focus on that. For other applications request the UTS application pdf (also accessible from our home page: www.diyhifisupply.com)

For ease of application all connections on the Universal Tube Output Stage are provided as screw terminals and all configurations are handled by gold-plated jumpers, so no soldering is required on the actual Universal Tube Output Stage Module. For those desiring soldered connections instead we recommend to either unsolder the screw terminals and solder the wires in the holes thus available or to simply solder the wires to the solder pads below the PCB.

Equally, for those wishing a soldered configuration instead of jumpers simple solder bridges can be soldered across the jumper pins below the PCB.

Electrical Performance:

(example only as will vary by implementation):

measurements lout DAC Mode (=30db gain)

referenced to 2V RMS, Saratov (Reflector/Sovtek) 6N23 fitted

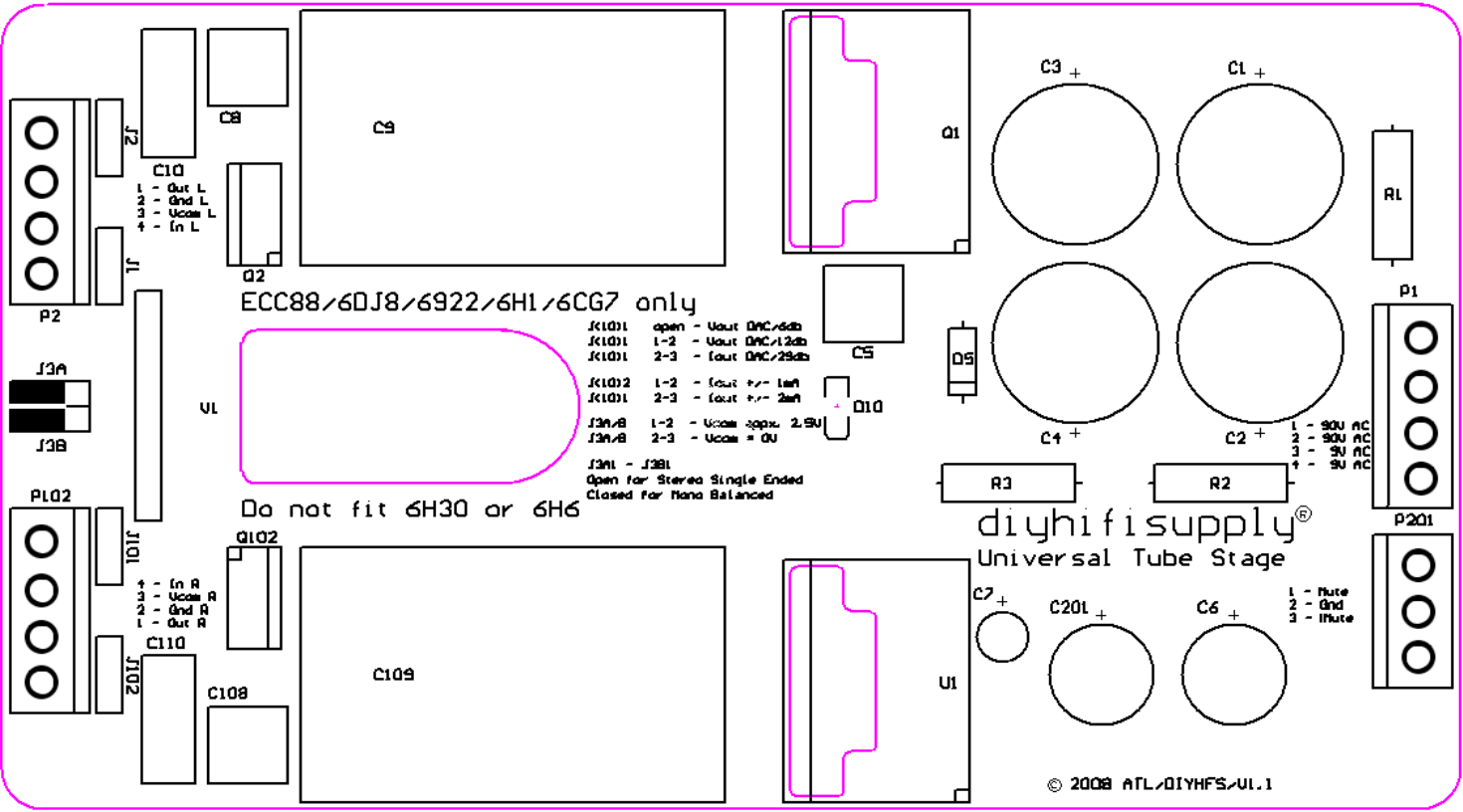
Measurements vary with different tubes fitted

specifications:

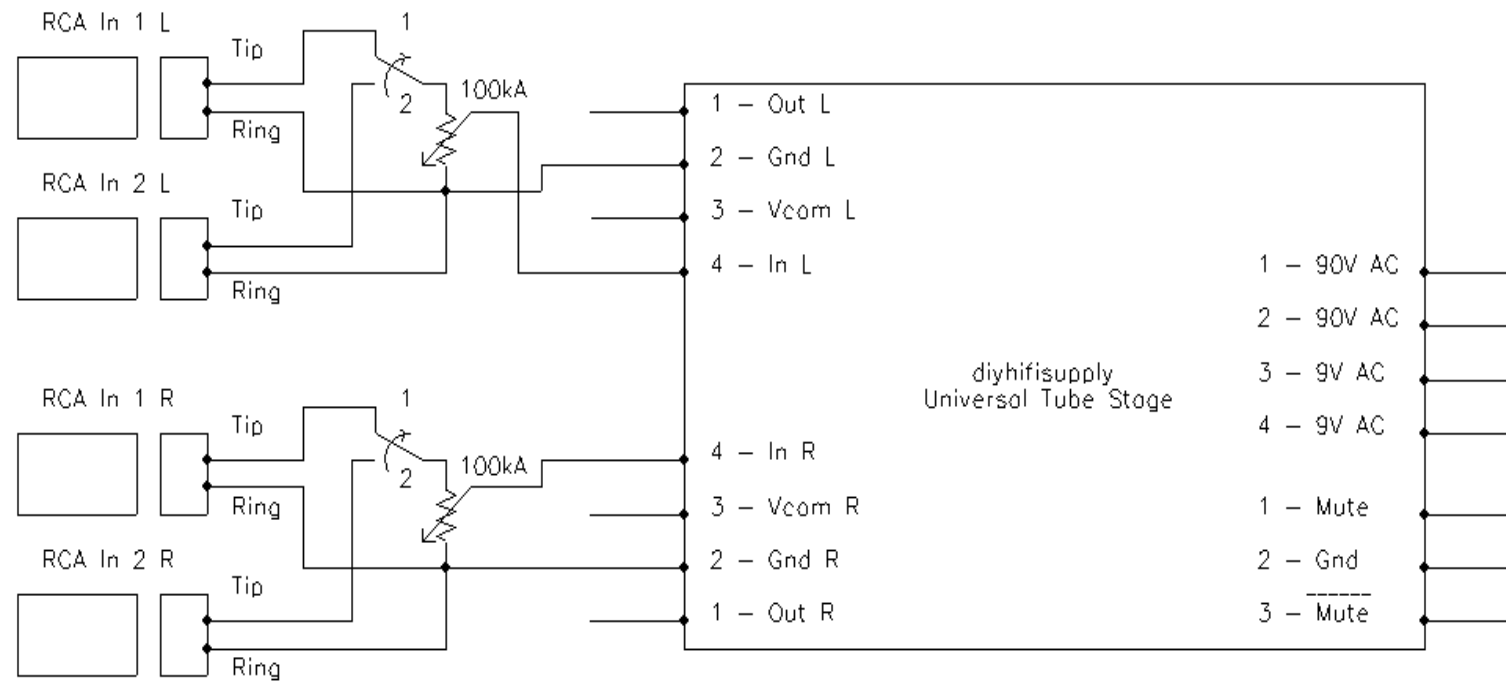
- S/N- > 100dbA (approx 5nv/hz).
- THD- <0.15% (<0.1% typical); <1%THD (10Vout, 100K load)
- 20Hz – 20KHz (< -0.5db with IHF 10K/1nf load)
- Output Impedance <100 Ohm
- Can use 6cg7, 6N11,ECC 88, 6DJ8, 6922, 6H1 only

1.1 – Settings and Input wiring for use as SE Linestage 6db Gain

This type of Application requires the following jumper settings:



The input connections should follow the Scheme shown underneath:



NOTE
use a short length of shielded cable
to wire the wiper of the Volume Control
to the module

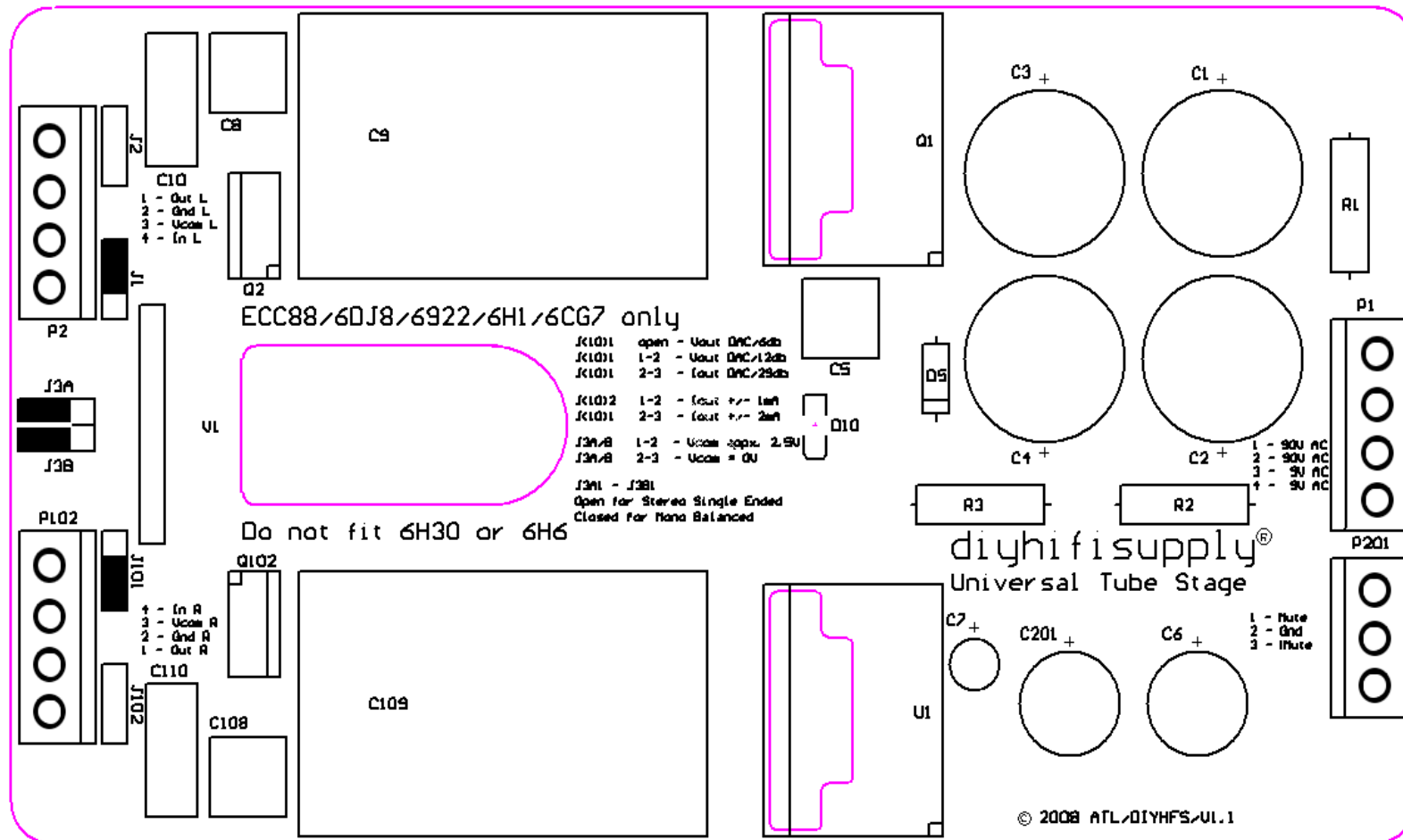
diyhifisupply Universal Tube Stage
Input Connections 1 Module Linestage

Includes:

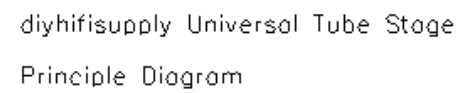
- 1 pc UTS
- 1 set 70 x 240 x 240mm chassis with faceplate drilled
- 1 Universal tube Stage including transformer mounted
- 1 Tesla ECC88
- 4 Isomount feet
- 2 knobs
- LCHF 4 position selector
- 1 DIYHFS stepped attenuator
- 1 IEC
- 6 prs RCA DIYrs friend gold
- hookup wire and shielded cable
- 1 pcs 100r resistor and 1 pc 0.1uf Ob
- 1 toggle switch for power
- one LED and hole in front panel

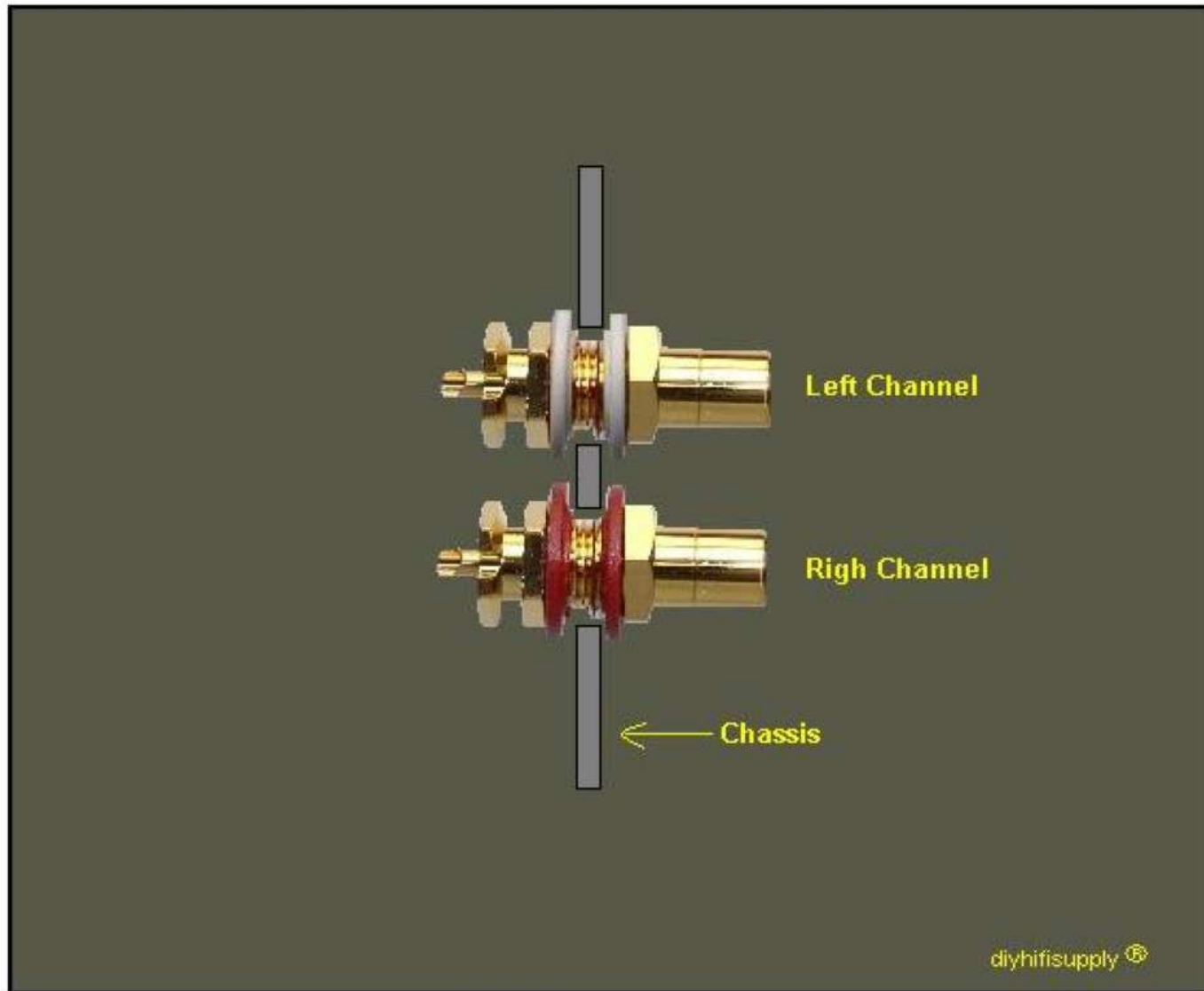
1.2 – Settings and Input wiring for use as SE Linestage 12db Gain

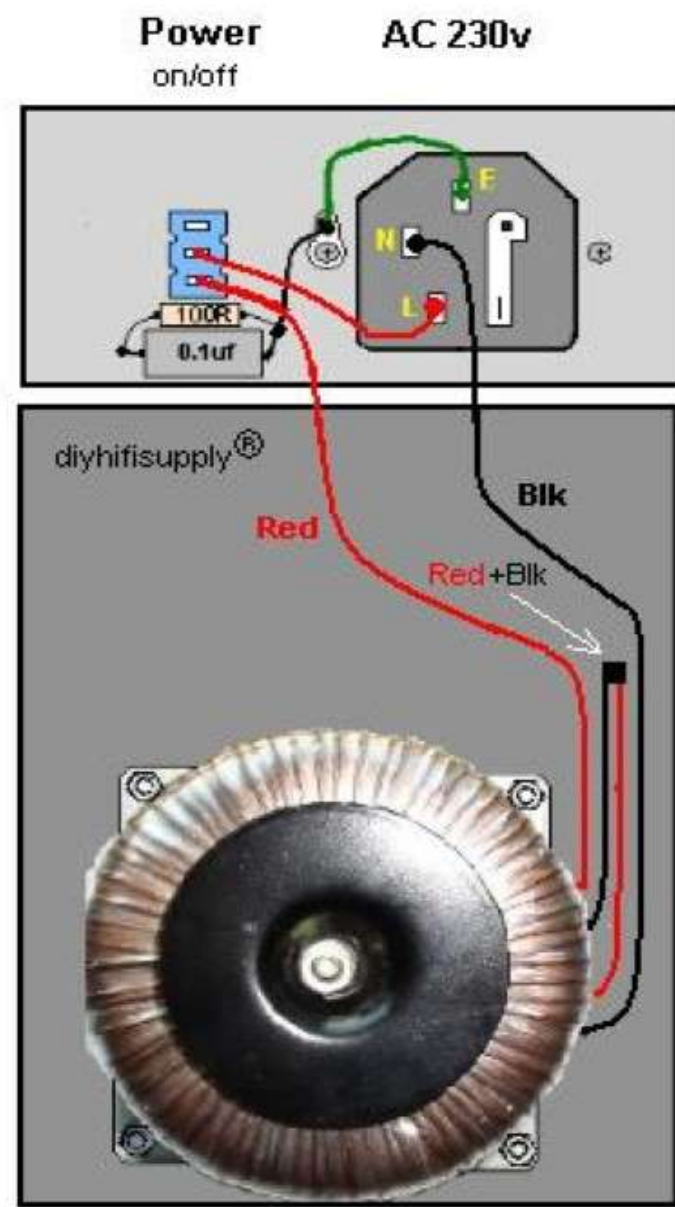
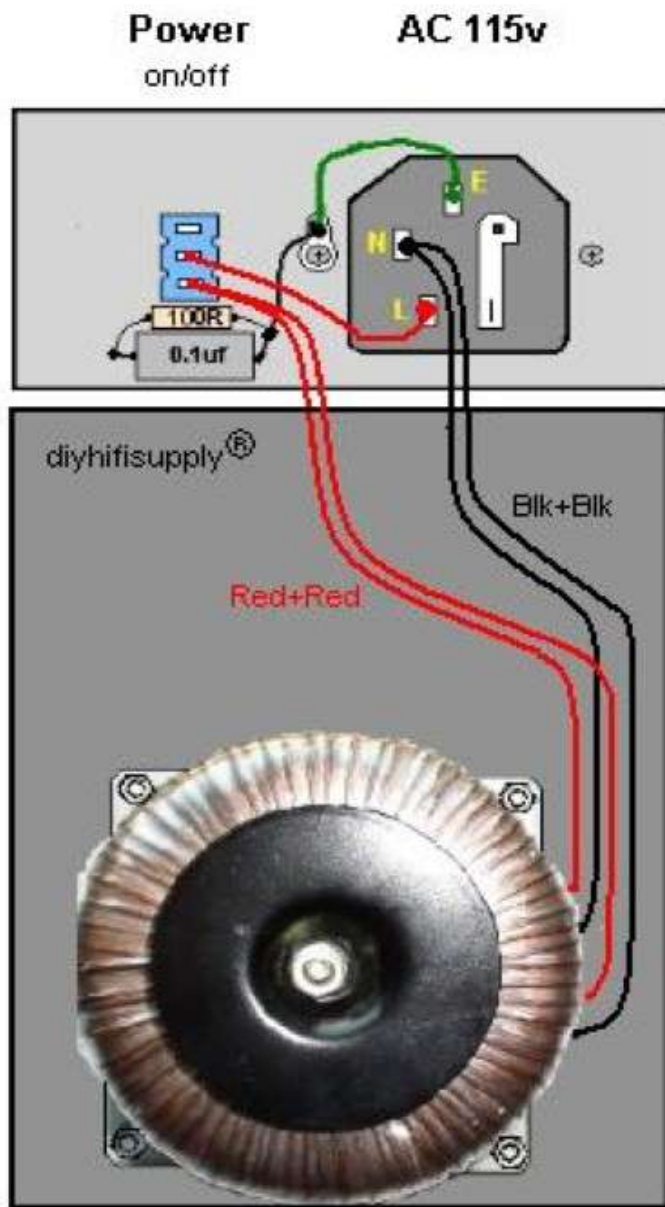
This type of Application requires the following jumper settings:

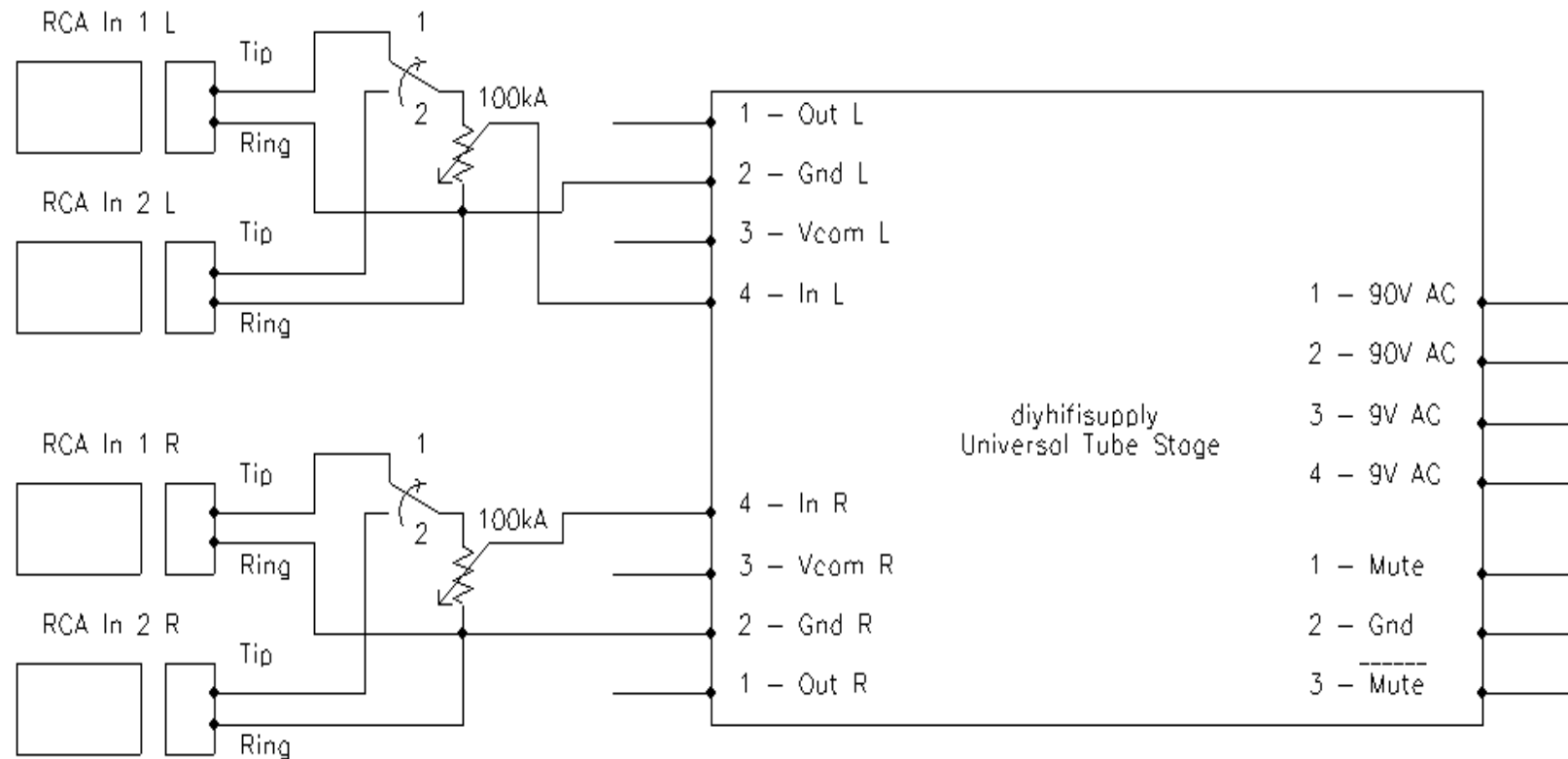


The input connections should follow the Scheme shown underneath:



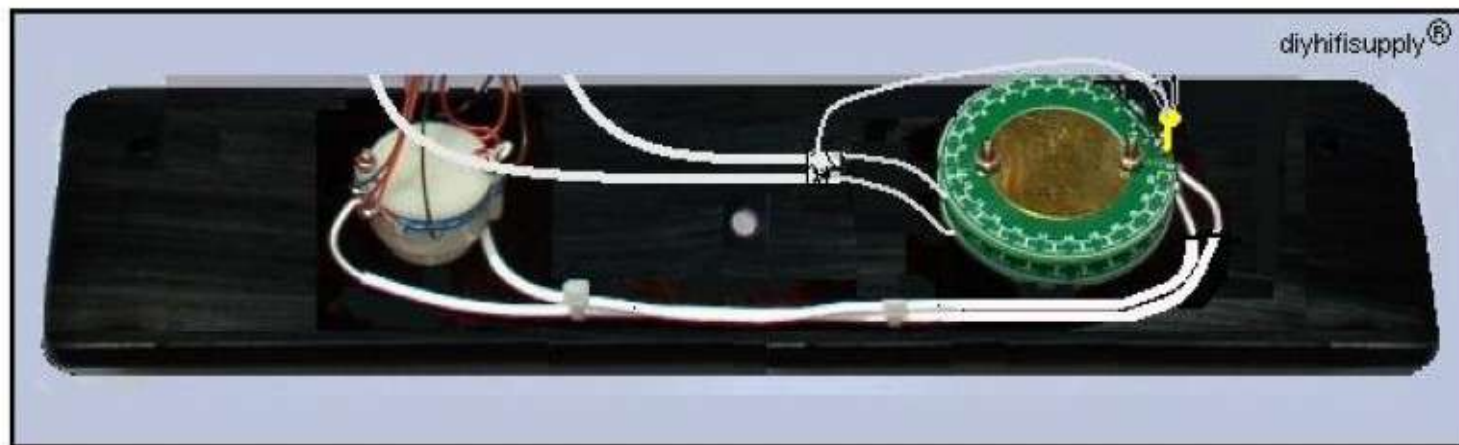
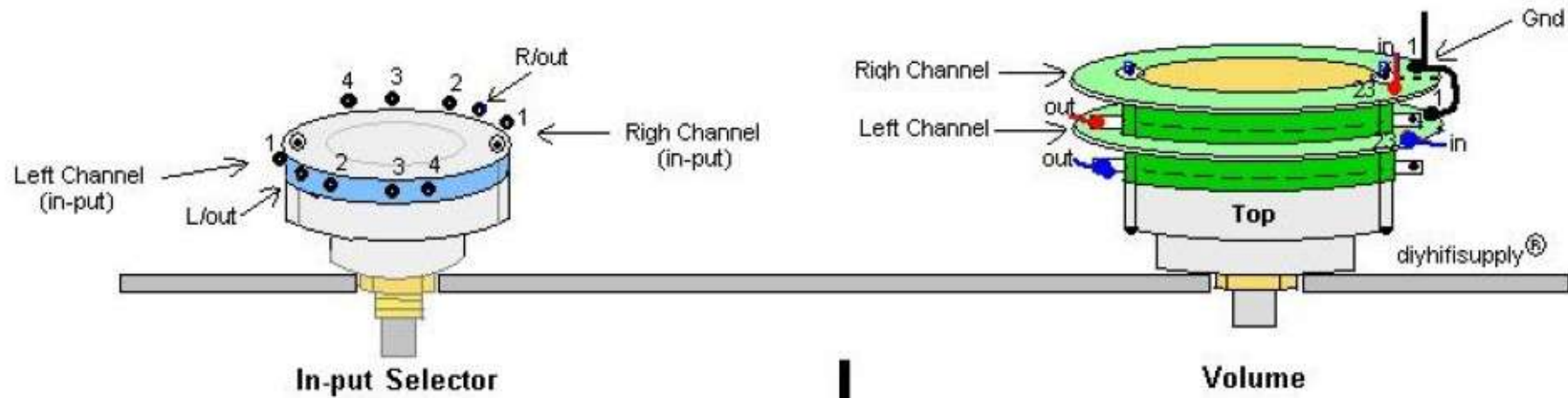






NOTE
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to wire the wiper of the Volume Control
to the module

diyhfisupply Universal Tube Stage
Input Connections 1 Module Linestage



with extensions

