

## Parts List no. 1

### Wall of Sound.ca DIY all tube phono preamp project

**Note:** I'll detail the parts needed from Mouser Electronics, Parts Connexion and the miscellaneous parts in the next installment. A fuse holder may be needed depending on the AC inlet supplied with the eBay-sourced chassis. Mouser and Parts Connexion orders usually ship the same day and delivery normally only takes 2 to 3 days.

#### Overall Cost break down:

Tetra phono board with parts	\$198 US (TubeCAD)
PS-3 power supply	\$56 US (TubeCAD)
AC Switch	\$12 US (TubeCAD)
Shipping on TubeCAD items	\$24 US (probably less if shipped to a US address)
Chassis & Knob for power switch	\$92 US (eBay) (shipping included)
Power Transformers & other parts	\$73 US (Mouser*)
2 Pair RCA Jacks (Teflon Insulation)	\$22 US (Parts Connexion*) incl. est. shipping
Misc. Hardware and wire (est.)	\$23*
Total (estimated)	\$500 US (~\$725 CDN, taxes in)

\*Detailed in the next installment

**Ordering Details:**

TubeCAD:

Tetra order page (order quantity: 1) <http://glass-ware.stores.yahoo.net/tetrasansps.html>

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**New Tetra Sans PS phono stage PCB and kit**



Tetra Sans PS & User Guide  
Item# Tetra Sans PS PCB  
**\$49.00**  
**Complete Part Kit:**  
All parts needed to populate the PCB including four JJ tubes(+\$149) ▾  
**If ordering the kit, choose audio resistor type:**  
Half metal-film and half carbon-film (recommended) ▾  
**Availability:** Usually ships in 3-4 business days

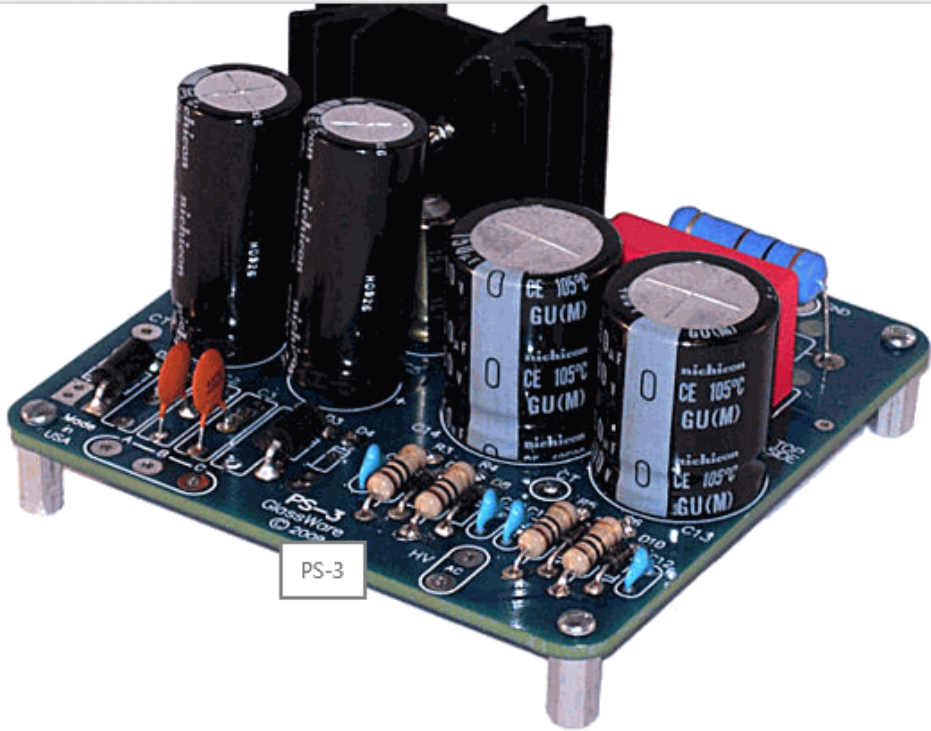
**ORDER OPTIONAL PARTS**

**ORDER THIS RESISTOR OPTION (IF YOU WISH)**

**Product Description**  
Tetra PCB  
The Tetra's FR-4 PCB is extra thick, 0.094 inches (inserting and pulling tubes from their sockets won't bend or break this board), double-sided, with plated-through 2oz copper

PS-3 order page (order quantity: 1) <http://glass-ware.stores.yahoo.net/ps3.html>

ml



PS-3

PS-3  
Item# PS-3 Kit  
**\$59.00**  
Heatsink Height:  **ORDER 1.5" HEATSINK**  
HV Capacitors:  **ORDER 150uF/400v CAPS**  
**Availability:** Usually ships in 2-3 business days

**Product Description**  
 New Rev B of PS-3 includes a house-ground circuit, just like the PS-1.

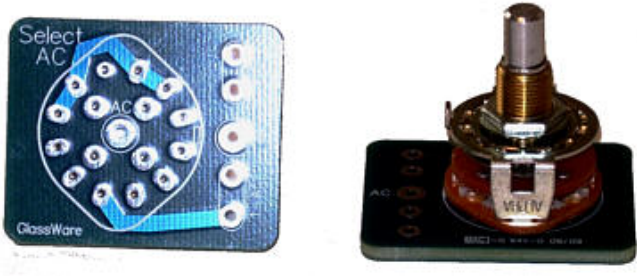
Note: The PS-3 supply does not have regulated B+. This is OK because the amplifier board features Broskie's CCDA (constant current draw amplified topology). Regardless of the music signal the current drawn by the phono circuit is constant. If you want to go for a supply with regulated B+ the Broskie PS-1 offers a regulated B+ supply, at a 40-dollar premium over the PS-3. However, the PS-1 will require a chassis the is 1/2" (13mm) wider and 2" (50mm) deeper. See below for chassis spec.

Power Switch order page (order quantity: 1) <http://glass-ware.stores.yahoo.net/acswitch.html>

ards and Kits

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**New AC Selector Switch I have created a new small, 1.4 by 1.7 inch, PCBs that hold a single rotary switch and allows two transformers to be switched on in a staggered fashion.**



AC Switch  
Item# Switch-AC  
**\$12.00**  
**Availability:** Usually ships in 3-4 business days

### Product Description

New small, 1.4 by 1.7 inch, PCBs that hold a single rotary switch and allows two transformers to be switched on in a staggered fashion. The three positions are: all transformers off, transformer 1 on and transformer 2 off, and both transformers on. With this setup, you can turn on the heater transformer first, so the tubes are given a chance to heat up, which will create an electron cloud over the cathodes, protecting them from the B+ voltage.

Or you might want to switch on the line-stage amplifier but not the phono preamp, as why wear out the phono stage's tubes, when you are listening to CDs? The switch uses redundant contacts and offers a 125Vac and 0.6A rating.

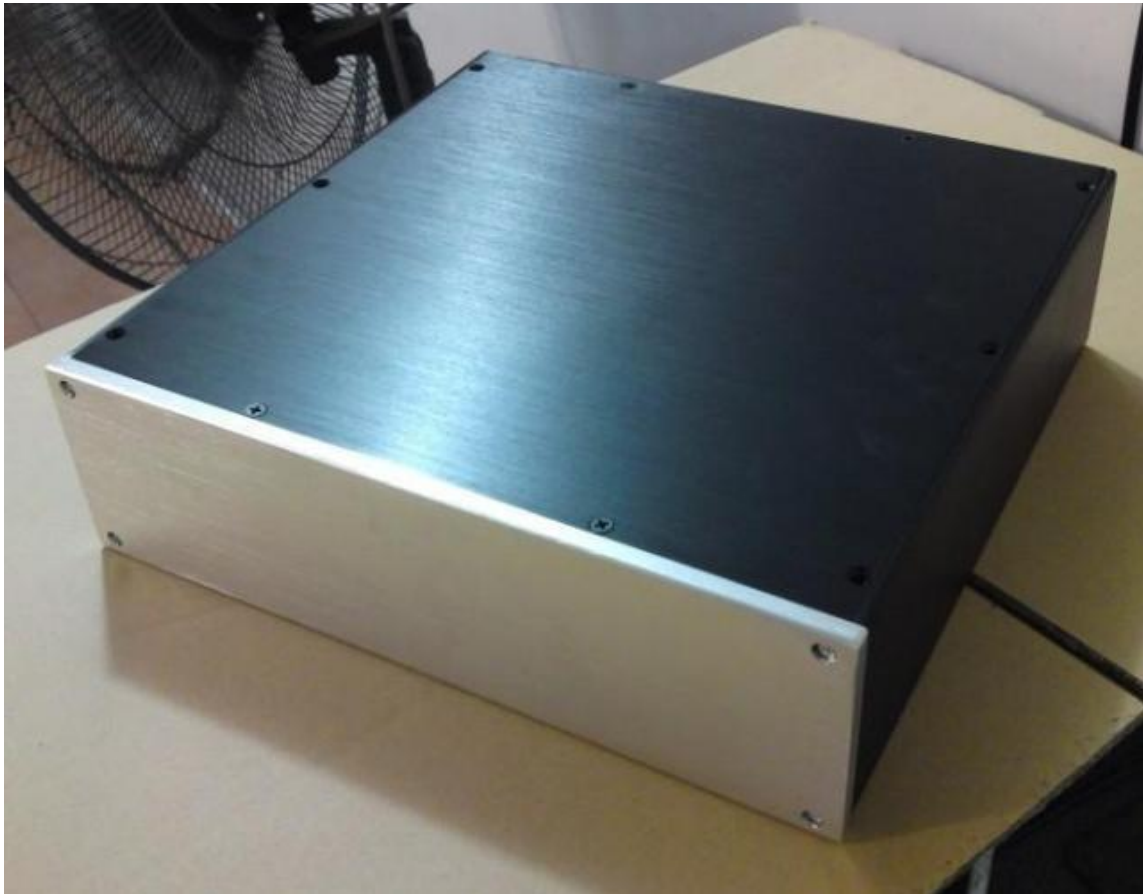
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Chassis & Power Switch Knob: (\$ US, estimated) \$92

Chassis requirements: The minimum interior dimensions should be 80mm (3.125") high, 310mm (12.125") wide and 295mm (11.625") deep. Maximum front panel thickness 8 mm (0.313").

If you wish to use a different chassis feel free to do so. However, it should not be any smaller than the shown below. I wouldn't advise using two chassis, one for the power supply and one for the amp board, as it would involve a 300 volt cable linking the two. The one chassis version built here does not suffer from the power supply interfering with the amplifier section.

Many Chinese eBay sellers have overlapping chassis offerings. The link to one site is given below but by all means shop around for other prices and configurations. Most of these vendors offer various solid aluminium knobs. These often seem over-priced in my estimation but if you check the various sites one can usually be found for less than \$10 including shipping. (BZ3209 chassis shown below) <https://www.ebay.ca/itm/BZ3209-Whole-Aluminum-Amplifier-Chassis-Pre-amp-chassis-DAC-chassis/253300760326?trksid=p2485497.m4902.l9144>



Care must be taken when ordering the power knob. The shaft on the Tubecad power switch is a bit short so a knob must be selected that has the set screw fairly close to the base. The one shown below satisfies this requirement and at \$8 US, shipping included, is reasonably priced.

<https://www.ebay.com/itm/aluminum-D30-H25mm-power-amplifier-knob-headphone-knob-silver-golden-color/252992745867?hash=item3ae78af18b:g:9MEAAOSwCmZZQiXq>

