

**Burning Amp Universal Gain Stage**  
**Bill Of Materials**  
**P-BAGSN-1V20**  
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diyAudio™

**NOTE: Parts are specified for ONE CHANNEL ONLY, multiply by 2 for STEREO**

| Part | Description             | Value      | Rating | Alternate Value                        |
|------|-------------------------|------------|--------|--|
| Q1   | N-Channel JFET Input    | 2SK170     |        | 2SK370                                 |
| Q2   | P-Channel JFET Input    | 2SJ74      |        | 2SJ108                                 |
| Q3   | P-Channel MOSFET Output | 2SJ313     |        | FQP3P20 (requires P1, P2 to be 1k)     |
| Q4   | N-Channel MOSFET Output | 2SK2013    |        | FQP3N30 (requires P1, P2 to be 1k)     |
| C1   | Electrolytic Capacitor  | 1000uf/25V |        |  |
| C2   | Electrolytic Capacitor  | 1000uf/25V |        |  |
| C3   | Capacitor               | 10uf       |        |  |
| R1   | Resistor                | 1K         | 1/4W   |  |
| R2   | Resistor                | 47K        | 1/4W   |  |
| R3   | Resistor                | 10R        | 1/4W   |  |
| R4   | Resistor                | 10R        | 1/4W   |  |
| R5   | Resistor                | 100R       | 1/4W   |  |
| R6   | Resistor                | 100R       | 1/4W   |  |
| R7   | Resistor                | 100R       | 1/4W   |  |
| R8   | Resistor                | 100R       | 1/4W   |  |
| R9   | Resistor                | 100R       | 1/4W   |  |
| R10  | Resistor                | 22R        | 1/4W   |  |
| R11  | Resistor                | 22R        | 1/4W   |  |
| R12  | Resistor                | 100R       | 1/4W   |  |
| R13  | Resistor                | 330R       | 3W     |  |
| P1   | Variable Resistor       | 500R       |        | See note above if using alternate Q3/4 |
| P2   | Variable Resistor       | 500R       |        | See note above if using alternate Q3/4 |
| P3   | Variable Resistor       | 100R       |        |  |

Case

8 RCA jacks

Transformer

Stepped attenuator

Selector switch

IEC Jack

Antek 22+22, 50VA

Goldpoint mini V series 50k stepped attenuator.

<https://www.ebay.com/itm/Audio-signal-Selector-Relay-Board-Signal-amplifier-switching-board-/111415842384?hash=item19f0e6d>

317/337 linear regulator PSU from Tubecad.com. (Model PS-19)

or Super Regulator board

24v rails same as F4 supply

If you can't get the ps-19 (looks out of stock now) there are tons of lm317/337 regs on eBay or amazon. Lm317/337 is an adjustable regulator, output voltage can be changed with a pot. Just make sure they have 35v caps.

Linear Systems matched B grade  
Linear Systems matched B grade  
Fairchild  
Fairchild

Clarity or Audyn 400v in the build guide, Dayton xover cap      Keep the Silmic and use a small value film cap for the bypass. (0.1uF or so) it's significantly cheaper than buying a 10uF exotic cap, and gives much of the same benefit. 0.1uf MKP1837  
Use RN55s      Yes, let Silmic caps run in. Also consider a small film in the other C3 position.

50k Alps blue      <https://www.ebay.com/itm/4pole-24-Step-Attenuator-Volume-Control-Pot-Log-A-25K-25KA-Stereo-Potentiometer-/251276160707?hash=item3a8139eec3:g:5tMAA650>

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