

DIY Single-Ended Vacuum Tube Audio Amplifier Kit



FEATURES

- Single-Ended Class A Operation
- Switch-Selectable Triode or Ultra-Linear Mode
- Flexible Output Tube Selection: KT88, 6550, EL34/6CA7
- Custom Transformers for Optimum Performance
- 4 - 8 Ohm Speakers - 90dB min. sensitivity recommended
- 120/240V – 50/60Hz Mains – selectable when wired
- Metallized Polypropylene Oil Power Supply Capacitors
- LC Filtered Driver Section
- No Semiconductors, No Circuit Boards
- Assembly/Layout Manual on CD w/Color Photos
 - Printable PDF Document Format

SPECIFICATIONS

- Input Sensitivity: 1 Volt RMS for Full Output
- Output Power: (with KT88)
 - 10+ Watts Peak Ultra-Linear Mode
 - 5+ Watts Peak Triode Mode
- Frequency Response: 20Hz – 20,000 Hz - flat across band
- Output Transformer:
 - Primary: 5K Ohm, 58Henry, 120mA, 500V
 - Secondary: 6 Ohm, 25 Watt
 - 7.75Lbs / 3.5Kg
- Power Transformer:
 - Primary: 120/240V, 50/60Hz
 - Secondary 1: 750V, 200mA, center-tapped
 - Secondary 2: 6.3V, 5A, center-tapped
 - Secondary 3: 5V, 3.5A, center-tapped
- Power Choke: 10H, 200mA, 500V

PARTS INCLUDED WITH MASTER KIT

Pre-Punched Aluminum Chassis – No Drilling or Cutting Necessary - 17" x 10" x 3" - with Walnut Side Panels and Aluminum Bottom Plate plus the following resistors, capacitors, vacuum tubes, connectors, switches, hardware, and interconnecting wire:

Resistors	Quantity	Capacitors	Quantity	Hardware	Quantity	Notes
220K 1/4W Metal Film 1%	2	30uF MP Oil	1	4-40 Locknut	16	
100R 1W Metal Film 1%	2	50uF MP Oil	2	4-40 x 1/4" Screw	8	
1K 1/2W Metal Film 1%	4	Erse or Solen 10uF 630V	2	4-40 x 3/8" Screw	24	
1.5K 1W Metal Film 1%	2	Erse 0.22uF 630V	2	6-32 Locknut	8	(9 w/Basic Kit)
47K 3W Metal Film 1%	2	Elna Silmic II 100uF 25V	2	6-32 x 3/8" Screw	8	(9 w/Basic Kit)
560R 10W Wirewound 1%	2	Elna Silmic II 220uF 100V	2	6-32 Lockwasher	3	
10R 5W Wirewound 5%	1	0.1uF 400V MP Orange	1	4-40 x 3/4" Standoff	8	
1M 1/4W Metal Film 1%	2			#4 Ground Lug	1	
				#6 Ground Lug	1	
				Crimp Terminal RED .187"	2 (120V kit)	4 (240V kit)
				Crimp Terminal RED .250"	2	
				Crimp Terminal BLU .187"	2 (120V kit)	0 (240V kit)
				Crimp Splice	0 (120V kit)	1 (240V kit)
				Adhesive Tie Wrap Mount	4	
				Tie Wrap	12	
				Velcro Strip	2	
				1/8" Heatshrink Tubing	18	inches
				1.5mm HexKey Wrench	1	
Connectors, Switches, Etc.	Quantity	Notes	Vacuum Tubes	Quantity	Wire	unit = ft.
IEC Power Entry EMI/Fuse	1		Electro-Harmonix KT-88	2	20AWG, 1C, STR, 600V BLK	4
IEC Power Cord	1	120V USA kit only	Electro-Harmonix 5U4-GB	1	20AWG, 1C, STR, 600V WHT	2
Front Panel Power Switch	1		Russian NOS 6N1P-EV	1	20AWG, 1C, STR, 600V RED	1
Neutrik RCA Jack	2	one red, one white			20AWG, 1C, STR, 600V BRN	5
Dual Binding Post	2				20AWG, 1C, STR, 600V ORG	1.5
DPDT Toggle Switch	1				20AWG, 1C, STR, 600V YEL	1.5
9-Pin Socket	1				20AWG, 1C, STR, 600V BLU	1
8-Pin Socket	3				20AWG, 1C, STR, 600V GRN	2
2" Capacitor Clamp	2				26AWG, 1C, STR, SHIELDED	3.5
1.5" Capacitor Clamp	1					
Turret Board	2					
Aluminum Knob	1					
100K Alps Volume	1					
2.5A or 2A Slow Blow Fuse	1	120V or 240V Mains				
Hammond 155H 5H Choke	2					

Master Kit: \$849.00 USD

Shipping Within the US: Box 1 - 20"x12"x8" @ 10lbs., Box 2 - USPS Large Flat-Rate Priority Box

Shipping Internationally: Box 1 - 20"x12"x8" @ 10lbs., Box 2 & 3 - USPS Medium Flat-Rate Priority Boxes

Basic Kit: \$299.00 USD

Shipping Within the US & Internationally: Box 1 - USPS Medium Flat-Rate Priority Box

Basic Kit includes all parts listed EXCEPT: Chassis, Power Transformer, Output Transformers, Power Choke, Tubes

NOTES:

1. It is recommended that the builder of this kit have basic soldering skills and access to tools and test equipment commonly used for the assembly of electronic projects.
2. When providing your own chassis, dimensions should be 17" x 10" x 3" minimum. Hardware included with kit will accommodate top panel thickness of up to 1/8".

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