analogvibes

Bill of materials

V .1

TUBE MIDRANGE EQUALIZER

rainton's PultecMEQ-5 Parts List rev.**1.01**		updated 02-22-2017
	Resistors	
1	620r	Input
1	200k/1W	Amp
1	220K	Amp
1	22K	Amp
4	330K	1x Amp, 3x Filter Bypass
1	1.8K	Amp
1	150R	Amp
1	20K / 5W	Amp (there's a revision of the schematic that shows 18K /5W, that schematic shows
1	1K (optional - see instructions ->)	another 1K resistor between the 22K resistor and pin 5 of the 6AQ5, both versions work
1	470r/2W	Power Supply
2	1k/1W	Power Supply
1	100k/1W	Power Supply (some schematics show 3x 1k/1W instead of 2x1K/1W + 1x 100k/1W)
1	47k	Power Supply
1	270R	Filter
1	510R	Filter
1	1k	Filter
1	5.1K	Filter out to GND
	Capacitors	
1	0.001uF	Filter High Boost
1	0.002uF	Filter High Boost
1	0.0039uF	Filter High Boost
1	0.0082uF	Filter High Boost
1	0.016uF	Filter High Boost
1	0.015uF	Filter Mid Dip
1	0.016uF	Filter Mid Dip
1	0.03uF	Filter Mid Dip
1	0.068uF	Filter Mid Dip
1	0.17uF	Filter Mid Dip
1	0.22uF	Filter Mid Dip
1	0.33uF	Filter Mid Dip
1	0.68uF	Filter Mid Dip
1	1.0uF	Filter Mid Dip
1	1.5uF	Filter Mid Dip
1	0.15uF	Filter Low Boost
1	0.2uF	Filter Low Boost
1	0.47uF	Filter Low Boost
1	1.0uF	Filter Low Boost
1	0.00001uF (10pF)	Amp - original uses ceramic cap
1	0.047uF	Amp - original uses film cap
1	2.0uF	Amp - use a good film or PIO cap here
1	.33uF/200V or 400V (actual voltage here = 115V)	Power Supply
2	4x20uF / **475V** Can Capacitor (original)	**either or!!** i.e. CE-Manufacturing C-EC20X4-475
1	4x40uF / **450V** (or 525V) Can Capacitor	i.e. CE-Manufacturing C-EC40X4-450
	Switches, Pots, etc.	
1	Potentiometer Low Boost	2.5K Linear
1	Potentiometer Mid Dip	2.5K rev Log
1	Potentiometer High Boost	10K Linear
1	Rotary Switch SPST or DPDT	On/Off (60° turn!) *(original by ARROW-H&H)*
1	Switch 3PST	Bypass *(original by 4PST Switchcraft,with only 3pos. used)*
1	Switch 2x4 Low Frequency	ceramic rotary switch (2x5pos. reduced to 4 pos.)
1	Switch 2x11 Mid Frequency	ceramic rotary switch [illegible]
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All filter caps in the original are rated 200V, original uses mostly Aerovox film caps - good place to experiment with different caps (polypropylene, polystyrene, polyester, paper in oil…)

for the rest of the circuit - if not specified in the BOM please refer to the schematics. In most cases 400V should be sufficient

all original pots by Allen & Bradley or Ohmite, modern replacements by PEC (I don't like them though)

other brands would work too, but the log curves might vary a little bit…