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RCA BA6A project build notes January 2015

Link to hear it: <https://soundcloud.com/shoonbassjp/fed-vs-ba6ajupiter>

"if you see the schematics, you see BAL A parts (guessing release control)

somehow I couldnt get that to work, but i end up using federal864 clipper circuit instead, so this is hybrid of BA6A and Fed864 . I used 6SQ7 instead of 6H6

found now in DIY thread, schema is wrong

but working good with 6SQ7 now, fix that someday ...

trans wise, I used Edcor line matching

1w WSM 600:15k for input

2.5w XSM 10k:10kfor interstage

XSM 15k:600 for output

they sound fine, 2.5w out is still holding it, no smoke.

good full freq response as you know and I expected that from Edcor

they are good..

input trans I now changed UTC ouncer H13

for more vintage narrow sound you know the ouncer sound

seems lost super low and lil high

but added good taste of that era

used dale, solen, mallory, usual ones for parts

changed 0.01 > 0.022 cap between 6J7s > 6V6s

to get little more mid low, just little barely noticable change on sound

and those are signal line, so again changed to Jupiter expensive wax one

they are sound great, mid detail is worth paying I felt

power trans is japanese Kasuga but any good trans will do

as long as meet mA spec and has 6.3v out nuff for 7 tubes

schema said use 5R4, I used 5U4G for more low mid

changing that to 5U4G I had good experience with fender tweed 5e3 clone

seems 5U4G is good for low and mid

kinda more wet mid sound but not muddy sound hope you get it

somehow I like diode AC/DC for my federal864

tested both tube and diode AC/AD B+ curcuit on fed

diode has more clean, open high as I expected from Fed

but BA6A needs tube seems, for warm fat bottom

omit OD3 regulate tube that reg B+ to 150v

that B+ goes down to around 110v later in curcuit anyway

its 2015 no need for reg voltages, no spike I reckon

same as your fed I just cleaned with 3 caps

no choke, so for this power part I did not follow schema at all

get B+ I needed and fine right? I guess Im another caveman..

going through 2nd of 3 caps I took out 300v for 6v6

(later become around 270v)

and go thourgh another last cap

took separete line around 200v line to feed 6sk7,6J7

heater is DC-ed so no noise, love that

all my project amps has separate power box for noise

dont look good because there are ugly 2 boxes hehehe

main curciut and pwr box connected with fat wire pwr cable

but separate boxes works better with noise wise

any other advise?

use T-pad in the end, -60db is probably needed, this thing is so powerful

that STA level ATT used for Fed864 could not tame gain of BA6A

same reason I used metal tube instead GT tubes but this is optional

they are less power seems

is is PP whole thing, after input trans is stereo

do not cross the line upper / down half of signal schema

otherwise you get huge hum only sound of 60db hehehe be careful

sound you heard in soundcloud is good comparison with fed864

fed has good high open but compression sound,

ba6a has low mid, ton of low mid. I love them both

first time I met both of them was studio in Chicago

back in 90s when I was living in US

at that time I was using LA-2A mainly

but that studio had Fed864 and BA6A

Gee they blew my mind, since then wanted so bad