

K-Yama's Audio, ASD, and ADHD LAB

As a "developmental disorder, ASD, ADHD party" and audio review with coffee in a rural area of the central highlands
I write about what I feel and what I want to say.

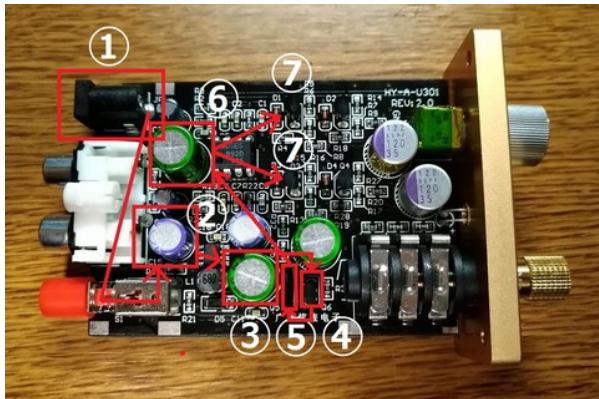
[Disassurance series] "Douk Audio U3" custom guide Vol.3 ~ The approximate flow around the power supply is found out ...? ~

January 29, 2023

Good evening, this is K-Yama.

I followed the circuit with a tester based on the comments I received in the "Douk Audio U3" custom guide released the other day, and I felt that I understood the approximate flow from the power supply ..., so I wrote this article to raise the diagram that summarized the flow roughly. If you are familiar with electronic circuits, etc., please add them, etc., and I would be grateful if you could give me a supplement etc.

This time, the flow that I found (I think) is here (click to enlarge).



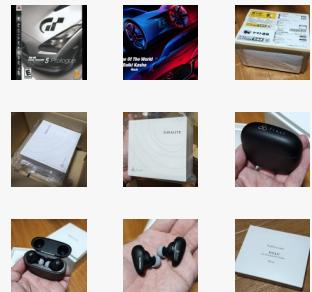
[Flow from power supply to Lch, Rch]

1The center (+) of the power jack is through the lower left push switch, to the condenser of two - to the condenser of two - to three condensers - to three condensers - to the collector of the 4NPN transistor → from the emitter of the 4NPN transistor to the collector of the 5NC D882P (this is also a condenser) → From the emitter of 5NEC D882P to the condenser - to the 6 condenser - to the 6 condenser - to the NNP, from the recesser of the 6th condenser to the recesser to the NNP, for the NWP,

...I was able to confirm the guidance of the tester in this order. Since it has already been found that the OS-CON described in the two above figures on the right side is just before the headphone terminal after passing through Lch, Rch's NPN · PNP transistor, it is already known that the approximate circuit from the power supply is connected with this (I do not know the resistance or chip resistance laid on the board or the kind of seracon at all w).

This is...

Gallery



<< January 2023 >>

Day	Moon	Fire	Water	Tree	Gold	Sat
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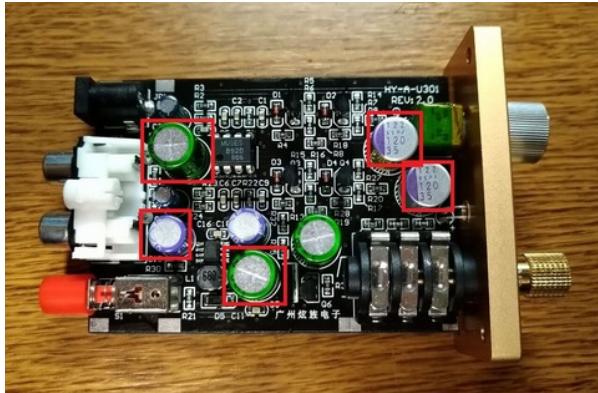
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The role of the capacitor surrounded by the red frame has somehow come to understand ...
The two OS-CON on the right are the last stage just before the headphone terminal, but
other than that, it seems to be a capacitor related to the power supply.



In addition, these four capacitors that do not know the exact purpose ... Especially the small capacitor on the left side (where 25V 47μF was originally listed) is a mystery ... And the part of the audio signal from the RCA terminal is not yet clearly followed, so I will follow it by looking at the time in the future ... There is no doubt that OPAMP will pass through, and it seems that the output side of OPAMP was joined to the part of the NPN transistor

[Comments 7 of the case.](#)

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1. 周がの

The RCA terminal is an intuition, but ... is it not a coupling ...?

So the yellow frame 15v is connected to the coil that switches to 25v? Sorry for the rude way to say it.

January 31, 2023 00:21

livedoor Blog



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2. K-Yama

>>1

It seems that there was such a comment in the review of another person on Amazon ... I do not follow it with a tester, but since there are two condensers of the same capacity, you may know somehow that it is used for each LchRch. It looks like a coil on the left, but what is this?

February 02, 2023 at 20:10 AM



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3. 周がの

Wednesday February 5th, 2023 at 00:12 AM

I think that it is a circuitization that is converted to 25v. And the next 25v capacitor is both ripple removal and battery.



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4. 周がの

★★★★★

If you do not look at any songs and make it to the volume MAX and the noise runs, I thought that it would be better to roll the ferrite core to the chord from AC with three volumes. DC doesn't work very well, sorry.

14 March 2023 at 18:41 AM



1

5. 周がの

★★★★★

RCA has a lot of resistance in the middle when it follows. RCA to resistance to amp. The right side is certainly connected to the ground side of npn. Is the middle 16v capacitor for OPAMP power supply? I thought, sorry about the idea of abrow. The 6-7 power supply is 25v.

17 June 2023 00:37



6. Miki

October 21, 2024 04:37

I am also a beginner, but as a separate use of capacitors, "OS-CON (aluminum solid electrolysis) should not be used as an audio path. I've heard it's used in the power supply."

On the other hand, MUSE is a waste if it is not used for audio.

I was worried that OS-CON was used instead of MUSE for the output coupling in the final stage of the audio.

In addition, I think that the four capacitors on the lower side of the photo around the first input from the power supply are DC / DC converters and decoupling, and part of the circuit that makes both power supplies by pressure to reduce the resistance.

I do not know which one is because I do not see the board, but if possible, I want to make only the decoupling and partial pressure part OS-CON.

Two of the smaller ones close to RCA that are said to be of unknown use are probably input couplings. It seems that it is better to use a film capacitor than electrolysis.

The MUSE in the meantime is probably the power buffer for the next operational amplifier. I think it is better to use OS-CON or filmcon.



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7. K-Yama

>>6

Miki, thanks for the comment.

Alien was honest, I just changed it in an interest-oriented basis without knowing the direction and direction of the capacitor depending on the type of capacitor, not even the direction and unevenness of the direction and the direction depending on the type of capacitor, so I learned a lot. I personally thought that it would be good to put it in the final part because there was only knowledge of "luxury / high-reliability capacitor", but it is not ... Speaking of OS-CON, it was written that it is effective for noise reduction with low ESR on the explanation page of OS-CON. It seems that the sound will improve as a whole if you use it as a capacitor in a place close to the power supply ... Speaking of which, there were people who used WIMA's film capacitors in the review of Amazon. I am thinking of collecting various information and buying another one and trying to break it up and put it together.

2024年10月21日 22:06



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名前



記事の評価



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●星

情報記憶

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