
Subject: Klein & Hummel Telewatt VS-56
Posted by [DmitryB](#) on Tue, 17 Jan 2023 12:40:23 GMT
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Hello! I am sorry, but my language level is not enough to use German language for writing. So I will post in English, but you can reply in German, I can translate. Thank you for the understanding.

Some time ago I bought Telewatt VS-56 from ebay.
Looks like it is very early version, since it has 5xECC83 instead of ECC808 in later models. In ebay listing it says it is coming with Telefunken tubes, but from 10 tubes only 3 were from Telefunken (3xECL82), one ECL82 is Valvo and 4xECC83 are Valvo as well and one from Tungram. Looks like it was not restored yet and comes in original configuration.

Tested it and works great as amplifier. When using phono preamp - on high volume it playing some radio station. Need to figure out what's wrong with it.

Planning to replace power electrolytic capacitors with F&T 47+47uF, they can be screwed instead of old ones. And planning to change from where signal comes to aux out. Want to use phono- with my radios as speakers. So far I can't regulate volume on aux out, so want to take signal before last amplification cascade.

Please advice on possible updates.
Thanks!

Will post photos when get some time.

Subject: Aw: Klein & Hummel Telewatt VS-56
Posted by [ocean-boy 204](#) on Tue, 17 Jan 2023 18:28:12 GMT
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[quote title=DmitryB schrieb am Di., 17 Januar 2023 13:40

Tested it and works great as amplifier. When using phono preamp - on high volume it playing some radio station. Need to figure out what's wrong with it.

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[/quote]

Playing also Radio stations when input cable removed?
Have the phono tubes the metal screen caps?
When both yes, add a lowpass filter with choke and capacitor at the input.
I don't now a aux out at this amp, only a record out at the tape connection.

regards

Subject: Aw: Klein & Hummel Telewatt VS-56
Posted by [DmitryB](#) on Tue, 17 Jan 2023 20:35:52 GMT

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ocean-boy 204 schrieb am Di., 17 Januar 2023 19:28
Playing also Radio stations when input cable removed?
Have the phono tubes the metal screen caps?
When both yes, ad a lowpass filter with choke and capacitor at the input.
I don't now a aux out at this amp, only a record out at the tape connection.

regards

Thanks for the reply! Yes, I can hear a radio without input cable plugged in. By AUX I mean Tape record output. Currently it goes without volume control, want to move it after, so I will be able to tune the level of my radios, connected as speakers.

Subject: Aw: Klein & Hummel Telewatt VS-56
Posted by [Radio-aktiv](#) on Wed, 18 Jan 2023 12:53:31 GMT

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Hello,

I know the problem with the radio reception with the phono amplifier well. When I was young, I searched for quite a long time until I found the cause. The interference comes through the output of the phono amplifier and finds a parasitic path to the input. The HF signal is demodulated on the characteristic curve of the tube and is then further amplified as an Audio signal. You have to install capacitors to ground at the output of the phono amplifier. Possibly also resistors in series so that a low-pass filter is created in the back direction to the phono amplifier. So opposite to the direction of the signal. The whole thing is dimensioned in such a way that it does not affect the Audio frequency response. Capacitors with some 100pF. Resistors must be tested. A Trimpot could help to find the best value.

The language can be easily translated with Google Translator. I usually do that too, although I can generally speak English well enough.

Auf Deutsch: Das Problem mit dem Radioempfang beim Phonoverstärker kenne ich gut. In meiner Jugend habe ich einmal ziemlich lange gesucht bis ich die Ursache gefunden habe. Die Störungen kommen über den Ausgang des Phonoverstärker und finden einen parasitären Weg zum Eingang. An der Kennlinie der Röhre wird das HF Signal demoduliert und wird als NF Signal dann weiterverstärkt. Man muss am Ausgang des Phonoverstärkers Kondensatoren nach Masse einbauen. Eventuell auch Widerstände in Reihe, damit ein Tiefpass in Richtung zum Phonoverstärker entsteht. Also entgegen der Signalrichtung. Das ganze so dimensioniert, das es den NF Frequenzgang nicht beeinträchtigt. Kondensatoren mit einigen 100pF.

Die Sprache kann man gut mit Google Translator übersetzen. Ich mache das auch meistens obwohl ich grundsätzlich Englisch gut genug kann.

Grüße
Karl

Subject: Aw: Klein & Hummel Telewatt VS-56
Posted by [DmitryB](#) on Wed, 18 Jan 2023 15:45:49 GMT
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Radio-aktiv schrieb am Mi., 18 Januar 2023 13:53Hello,
I know the problem with the radio reception with the phono amplifier well. When I was young, I searched for quite a long time until I found the cause. The interference comes through the output of the phono amplifier and finds a parasitic path to the input. The HF signal is demodulated on the characteristic curve of the tube and is then further amplified as an Audio signal. You have to install capacitors to ground at the output of the phono amplifier. Possibly also resistors in series so that a low-pass filter is created in the back direction to the phono amplifier. So opposite to the direction of the signal. The whole thing is dimensioned in such a way that it does not affect the Audio frequency response. Capacitors with some 100pF. Resistors must be tested. A Trimpot could help to find the best value.

Thanks for your advice, Karl. I will add capacitors and test. Need to get some trimpots for experiments.

Subject: Aw: Klein & Hummel Telewatt VS-56
Posted by [Radio-aktiv](#) on Wed, 18 Jan 2023 18:27:47 GMT
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Maybe it is enough to add a capacitor. Every circuit has an internal resistance and forms a low-pass filter with the capacitor. You only need a resistor if the internal resistance is low. With tubes, the resistances are usually not that low.

You have to try it. Ferrite beads can also help get away RF interference on wires. Maybe a combination of a capacitor to ground and a ferrite bead. A LC low pass filter.

Auf Deutsch: Möglicherweise reicht ein Kondensator aus. Jede Schaltung hat einen Innenwiderstand und bildet mit dem Kondensator dann schon einen Tiefpass. Nur wenn der Innenwiderstand niedrig ist braucht man noch einen Widerstand. Bei Röhren sind die Widerstände üblicherweise nicht so niedrig

Das muss man ausprobieren. Ferritkerne können auch helfen HF Störungen auf Leitungen loszuwerden. Möglicherweise eine Kombination von einem Kondensator nach Masse und einem Ferritkern. Ein LC Tiefpassfilter.

Grüße
Karl

Subject: Aw: Klein & Hummel Telewatt VS-56
Posted by [DmitryB](#) on Thu, 26 Jan 2023 08:29:14 GMT
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<https://imgur.com/a/KlgUgpU>

Not sure yet how to put the photos properly. Here is the link to few photos after I received the device. Looks old and used, but singing nicely.

Subject: Aw: Klein & Hummel Telewatt VS-56
Posted by [DmitryB](#) on Thu, 26 Jan 2023 14:18:40 GMT
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And question - where can I find a schematics for the version of VS-56 with ECC83 and without additional filters. The first version I suppose. Thanks in advance!

Und Frage - wo finde ich einen Schaltplan für die Version von VS-56 mit ECC83 und ohne zusätzliche Filter? Die erste Version, nehme ich an. Danke im Voraus!

Subject: Aw: Klein & Hummel Telewatt VS-56
Posted by [TR](#) on Thu, 26 Jan 2023 21:21:56 GMT
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siehe:

[http://www.tube-classics.de/TC/GermanTubeHifi/Integamps/K+H% 20VS56/VS56De.htm](http://www.tube-classics.de/TC/GermanTubeHifi/Integamps/K+H%20VS56/VS56De.htm)

Mit Gruss, TR

Subject: Aw: Klein & Hummel Telewatt VS-56
Posted by [Radio-aktiv](#) on Sun, 29 Jan 2023 17:01:03 GMT
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Hallo,

nice pictures. The VS-56 is in good original condition I would say. The blue electrolytic caps should be replaced.

By the way. I bought last week a Telewatt V-333 on ebay. Just for fun. Eager to see what comes and if I get it going again: <https://www.ebay.de/itm/325511251985>

Yesterday it came. A view hours later it began to work again. Without Phono Inputs in the first step.

Best regards
Karl

File Attachments

- 1) [Replace_blue_Caps.jpg](#), downloaded 147 times
 - 2) [V_333_in_Betrieb.jpg](#), downloaded 210 times
-

Subject: Aw: Klein & Hummel Telewatt VS-56

Posted by [Tonmann](#) on Thu, 02 Feb 2023 15:54:46 GMT

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Was auch gerne vergessen wird sind die unterschiedlichen Anschluß-Kapazitäten mit Brummschleifen, die man nur mit galvanischer Trennung (Übertragern) in den Griff bekommt.

Dann wird noch gerne vergessen, dass die "Röhrengräber" gebaut wurden, als noch 220V Standart waren und man heute an fast 250V Netzteile mit den "Glimmstengeln" (Röhren) mit Überspannung tötet - zumindest mit eingeschränkter Lebenszeit.

Aus der Studioteknik kann ich noch davon berichten, dass harmonische Schwingungen von Röhrenschaltungen gepaart mit dem Jitter billiger AD-Wandler ganz schlimm klingen, also mit einer "Zwangsröhre" im beschissen klingendem Signalpfad erreicht man nichts, alles wird nur verschlimmbessert!

R.

Subject: Aw: Klein & Hummel Telewatt VS-56

Posted by [DmitryB](#) on Thu, 02 Feb 2023 16:21:25 GMT

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Radio-aktiv schrieb am So., 29 Januar 2023 18:01Hallo,

nice pictures. The VS-56 is in good original condition I would say. The blue electrolytic caps should be replaced.

Thanks, already ordered all the new electrolyts.

Zitat:

Was auch gerne vergessen wird sind die unterschiedlichen Anschluß-Kapazitäten mit Brummschleifen, die man nur mit galvanischer Trennung (Übertragern) in den Griff bekommt.

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R.

Regarding the over powering the tubes - I don't think it's true. VS-56 has switch for 240VAC, and in my power network it is 235V.

And I am not using old tube devices without checking the tubes operation modes.

Currently using it mostly with records player and phonoamp working nicely in VS-56.
But even from the laptop, with onboard audio, it plays great.
