

Summary: As part of this conversion, the original AURALIC PSU will be replaced with a better quality hoer-wege PSU. Soundproofing sheets will also be applied to the bottom, top and sides of the chassis to prevent unwanted resonances.

Preparation: Disconnect the Aries G2 from the mains/power outlet, then unplug all cables from the back panel. Place the unit on a desk or workbench with the feet facing upwards. Please be careful, as the housing can be easily scratched. Loosen the 8 screws on the bottom cover using a TORX T8 screwdriver and lift the bottom cover up by one of the feet. Put the bottom cover aside for the time being, as a soundproofing sheet will be applied to it later.

Figure 1: Opening the housing – lift the bottom (BACK = HINTEN, FRONT = VORNE).

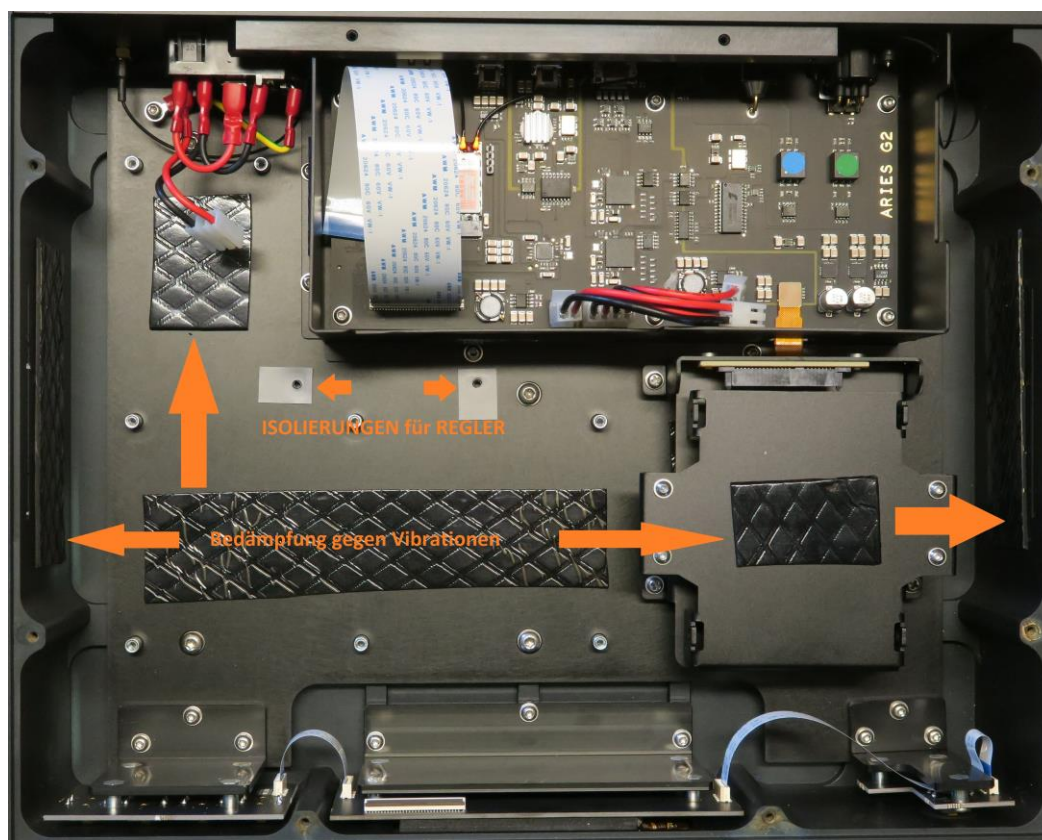


Disconnect the white flat ribbon cable connecting the LCD on the front panel to the PCB. The socket has a "lock" which must first be opened before the cable can be pulled out of the socket. That lock, or a locking ribbon cable clip, is opened by carefully pulling up the plastic clip holding the cable in place (use your fingernails). Now, close the clip again so that nothing falls out of the socket. Roll up the flat cable or flip it over to the opposite side of the chassis so as not to damage it when installing the PSU.

It might be a good idea to take a photo of the old PSU before taking it out, making sure the connectors on the PSU are clearly visible in case you ever need to reverse the procedure.

Pull the other 3 cables out of their sockets; be careful to first release the clips and not apply too much force. Now you can remove the two screws on the voltage regulators at the bottom of the chassis using a TORX T10 screwdriver (it is the two pieces directly touching the chassis,) as well as the other 8 screws with which the PSU is held in place. Then the board can be removed from the chassis. Please see the picture on the next side.

Figure 2: AURALIC PSU, removed.

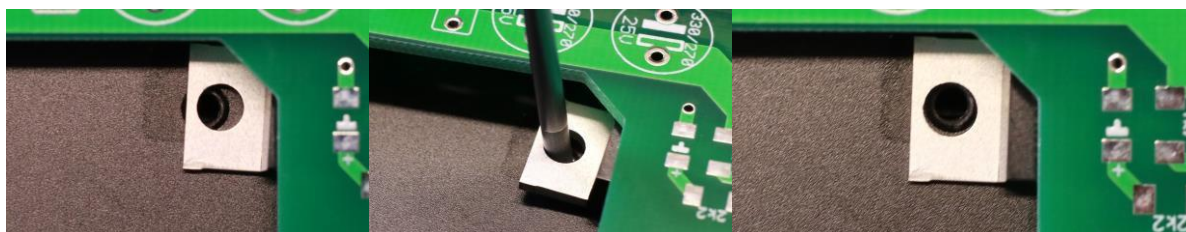


The **small arrows** point at the tiny insulation sheets used for the voltage regulators, which are placed on the chassis as shown before the PSU is placed on top. The location of the recommended soundproofing using the provided bitumen sheets is indicated with orange arrows or orange text. The orange arrows indicate the location of the soundproofing on the sides of the chassis.

The **soundproofing material** is very effective, so do not apply more than absolutely necessary. The two narrow strips (approx. 2 x 8cm) on the left and right chassis walls, as well as the 3 pieces on the bottom are sufficient, in addition to the piece on the bottom cover removed earlier. Without the soundproofing material, the sound may tend to be too "bright" and become slightly unpleasant.

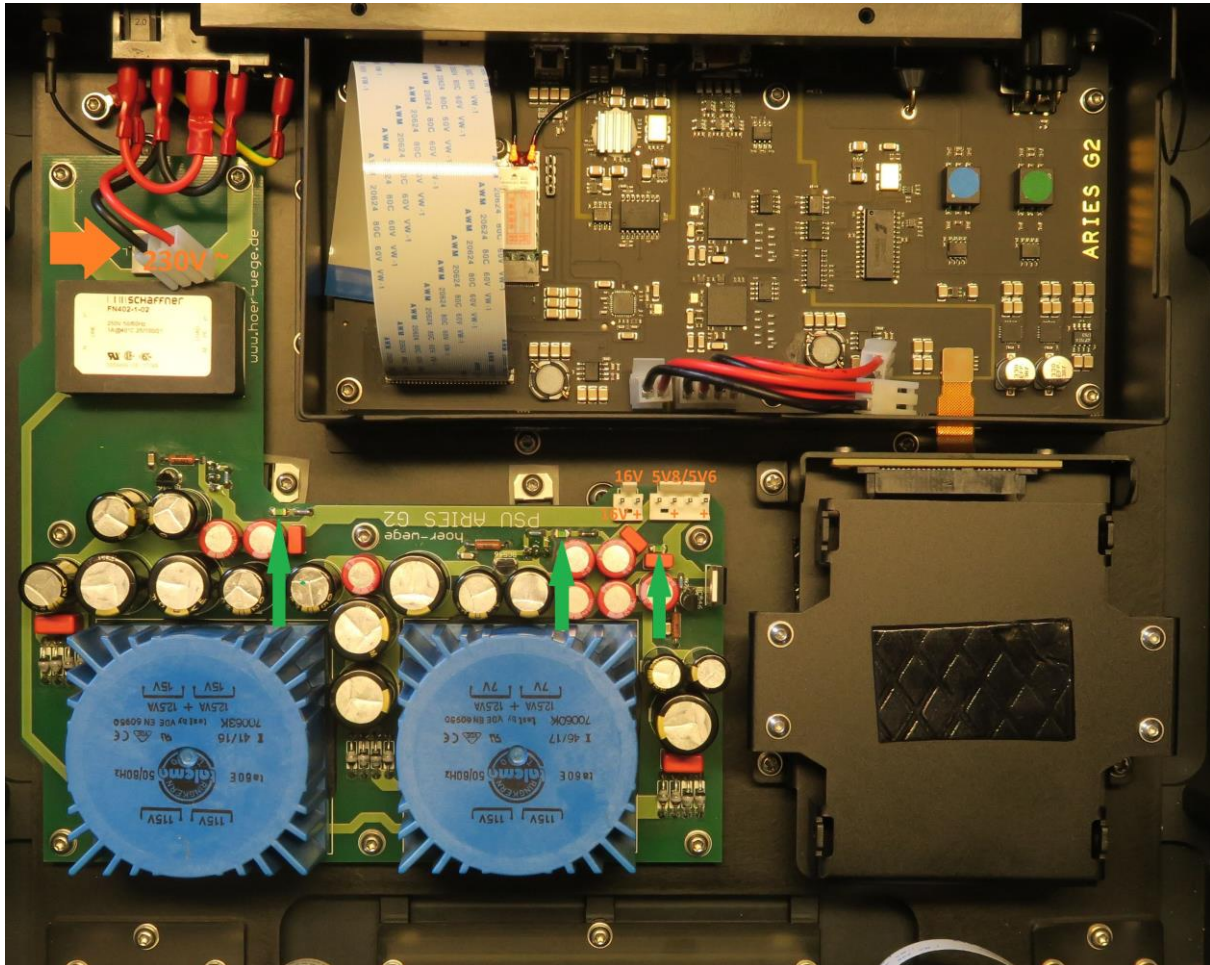
Install the hoer-wege power board into the chassis. Carefully position it on the standoffs, put in the screws, but do not tighten them completely. The control transistors can be bent slightly to align them with the screw holes in the chassis, see the photos next side.

Figure 3 a, b + c: Positioning of the transistors on the chassis using a screwdriver such as a TORX T8.



The **transistors** are soldered in with some "play" and are flexible. They can be aligned over the screw holes with a screwdriver used as a lever (middle picture). **Before securing the transistors with screws, place the insulation sheets underneath. There must be NO ELECTRICAL CONNECTION TO THE CHASSIS.** Before powering up the unit, check with a multimeter, if possible, that there is NO conductivity between a screw holding the PSU in place and the silver part of either one of the two transistors. Finally, tighten all screws securely.

Figure 4: The hoer-wege PSU, installed.



Description Figure 4: The 120/230V AC connection is at the top left. **ONLY** insert this connector first. If you have a multimeter, you should now check that there is **NO conductivity** between a screw holding the PSU in place and the silver part of either one of the two transistors **TIP41C**. Finally, tighten all screws securely.

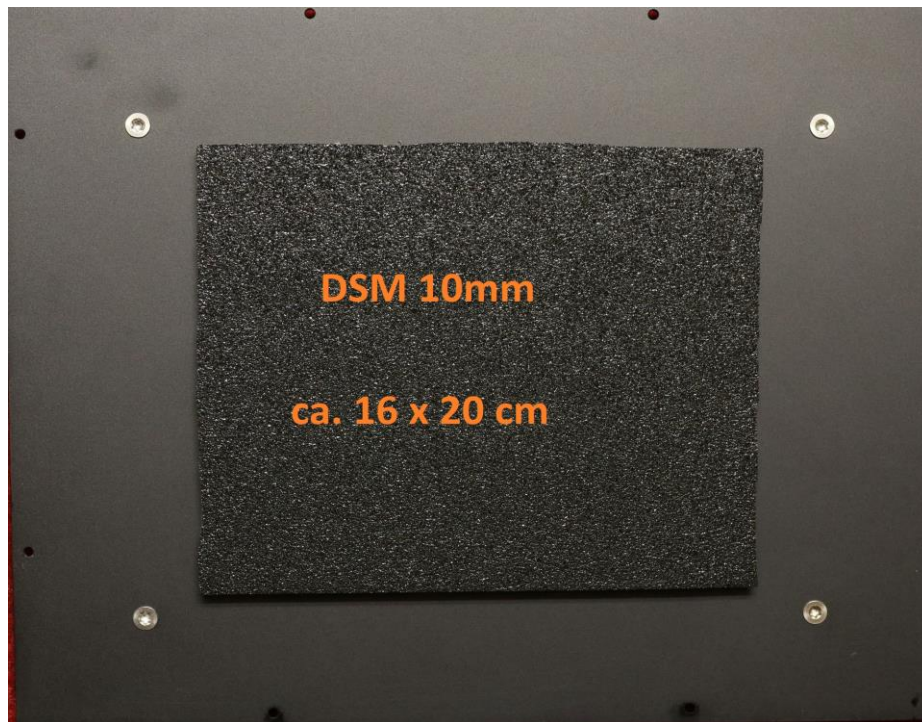
Now you can check safely whether the hoer-wege PSU is working properly. Simply connect the mains/power cable and switch it on. If the fuse did not blow, 3 green LEDs will light up on the hoer-wege PSU (see the green arrows figure 4).

Everything OK?? Then switch off the device, disconnect the mains/power cable, and connect the other two cables, 5V9/5V8 and 16V, to the PSU (the red cable must be on the right side, see figure 2). Finally, reconnect the white flat ribbon cable and close the clip, securing the cable in the socket. The 2-pole and 4-pole plugs are marked on the board with the respective voltages, and can of course also be checked with a multimeter.

When everything is connected: Power up the ARIES G2 again. This time, the display should also light up after a short time, and the device should initiate the start-up routines. **Everything OK????** Then install at last the bottom cover with the 10mm soundproofing sheet applied back on (see next page), put the screws back in and tighten them. The 2 longer screws fit to the holes at the back.

The phase is towards the top of the chassis at the mains input of the ARIES G2.

Figure 5: The damping of the bottom inside with 10mm DSM.



► By the way, the hoer-wege PSU is equipped with ultra-fast, soft recovery diodes instead of the 3 "unspeakable" bridge rectifiers, and with high-quality low-ESR designs instead of the inexpensive electrolytic capacitors. In addition, the "mundane" LM317 voltage regulators were replaced with a high quality discrete solution, with only a single 5A power transistor in the path. This elaborate solution is sonically superior to the LM317. In addition, the filter capacity was increased as far as possible and reasonable, so that energy can be provided for impulses faster, because music is dynamic! But: quality before quantity!

- The installation of the new PSU must be carried out with close attention to the photos.
- It is essential that the transistors are fastened **SECURELY + INSULATED** from the chassis.

The HiFiWERKSTATT hoer-wege
is not responsible for any damage happen by installing the hoer-wege PSU !!

Hotline: The HiFiWERKSTATT hoer-wege will be happy to answer your questions Monday - Friday from 15:00 - 19:00 (European Mean Time) at telephone number 0049-421647321 or better via email at hifiwerkstatt@ewe.net.

Parts list of the hoer-wege conversion kit for ARIES G2

- Photos with markings and instructions provided as pdf-file,
- 1 x 2mm Bitumex approx. 10x25cm, 1 x 10mm DSM approx. 16x20cm,
- 1 x hoer-wege PSU,

► If you will hear even better, we recommend as the next step to connect the hoer-wege **DAC1794 MK-3** or the new **DAC1794 MK-4** to the ARIES G2. You can do this via USB- or CO-AX-cable, we recommend the *van den Hul* **THE USB ULTIMATE** or **THE DIGICOUPLER**.

► The installation of an HDD or SSD as a music storage inside the G2.1 can also lead to better sound. The 2,5 HDD/SSD will be installed in the holder next to the PSU on the left side, see figure 4.

All information is provided without any guarantees.
The current device may show minor changes.

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