

# AIRENCE USB NOISE

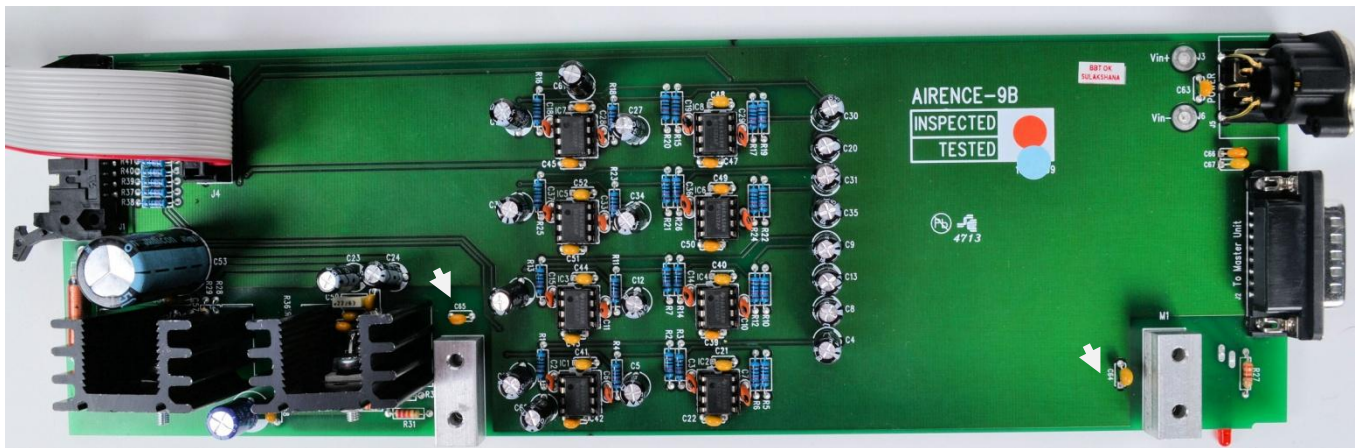
In some installations it is possible that a low level digital noise can be detected caused by USB ground loops.

*This can solved by the following modifications and suggestions.:*

1. In the first generations of AIRENCE mixers there was no optimal ground short between pin1 of the Mic XLR and the chassis. The powder coating of the front sometimes prohibits a good grounding of the audio signals inside the frame.

The simplest solutions is to remove the bolts of the top front panel and remove the paint from the holes the bolts. Now mount the bolts again and measure if there is a short (0 Ohm) between the front panel and the back panel and pin 1 of the XLR.

2. You have to do that for the AIRENCE Extender as well. In this Extender you can get even better results by shortening the C64 and C65. See below where these Capacitors are located.



3. A huge improvement is to be expected from an USB isolator in series with the USB cable. See <http://hifimediay.com/usb-isolator> for purchasing info.

4. A further improvement is to connect a 2.5mm ground wire in between both units.

Use 2 XLR male connectors and solder the 2.5mm wire to pin 1 and plug the XLR's in unused inputs of the main unit and the Extender to further achieve a better grounding between the two units. If all XLR's are in use use a cinch connector to ground of the two units.

Good luck with the modifications.

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