
Subject: 2882 high noise floor output

Posted by [whiskeynipple0088](#) on Tue, 30 Jun 2015 18:09:26 GMT

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Hi all - new guy here.

Love the unit.

I've got a lot of 'hiss' - high noise floor on my outputs including Cans. I'm using the MH to send to my powered monitors, the hiss is significant. I have set a -18db cut in the monitor control but still have hiss. I do not hear the hiss on playback after bounce (AND playing back thru a DIFF audio device) so I believe this is just output and is not tracking the hiss.

I have read that it's best to use a physical (inline resistor) cut b/c the outputs are so hot.

Am I missing something in the manual? - I have outs set to -10.

Is this type of hiss normal without a physical cut?

(Yes I verified it's not the playback monitors)

thanks

Subject: Re: 2882 high noise floor output

Posted by [chrihar](#) on Mon, 26 Oct 2015 07:27:35 GMT

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I'm having the same problem. Very high amount of noise on the outputs, including headphones. Is this a configuration problem?

Subject: Re: 2882 high noise floor output

Posted by [chrihar](#) on Mon, 26 Oct 2015 08:58:10 GMT

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Hold up, just did some adjustments to Offset (dB) in the Monitor Path section of Monitor Control and that seems to have improved the noise problem.

I would try experimenting with adding positive values instead of negative values.

How much gain does this thing put out?? I'm afraid I'm going to hit the wrong button and blow up my apartment building.

Subject: Re: 2882 high noise floor output

Posted by [jon](#) on Mon, 26 Oct 2015 20:48:15 GMT

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There are a couple of options for controlling output levels of the 2882. You can attenuate levels of the actual outputs in the Output section of the Analog I/O Pane.

You can also lower the channel or master faders in the Mixer window, if you are routing a mix to the output. But there is a downside to this. The output stage of the 2882 is digitally controlled. So, if you decrease the level of the fader in the MIO mixer (i.e. DAW 1/2), you will lower the bit depth. This is generally not a problem at higher levels. But the outputs of the 2882 are quite hot (they were originally designed to connect with amps and not directly to speakers). So if you decrease level substantially in the digital domain this will affect the quality of what you are hearing.

We recommend that you set the fader at or near unity (0dB), and place a passive attenuator/pad between the output of the 2882 and the monitor. This way the attenuation will occur in the analog domain and will sound much better. Here is a link to an example of what you would need:

<http://www.markertek.com/Audio-Equipment/Audio-Interface/Attenuation-Devices/Hosa-Technology-Inc/ATT-448.xhtml>

I hope this is helpful.

Subject: Re: 2882 high noise floor output
Posted by [chrihar](#) on Tue, 27 Oct 2015 15:19:16 GMT
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That looks like a very handy device. I'd never seen anything like that before and it seems like just what I need.

Thanks for the speedy response.

This may be a dumb question, but would putting something like the Mackie Big Knob between the outputs and the speakers have the same effect?

Subject: Re: 2882 high noise floor output
Posted by [jon](#) on Tue, 27 Oct 2015 16:15:55 GMT
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Quote:would putting something like the Mackie Big Knob between the outputs and the speakers have the same effect?

It can be used for similar purposes, but would be more expensive and adds additional circuitry that has been said to add unwanted coloration to the audio.

Subject: Re: 2882 high noise floor output
Posted by [chrihar](#) on Wed, 28 Oct 2015 15:04:27 GMT
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The attenuator is the way to go then. Just one last question.

I'm using passive speakers, so would the best place to put the attenuators be between Analog Outputs 1 & 2 and my speaker amp? Outs 1 & 2 are 1/4 inch jacks, as well as the inputs on my amp. Would I then need to get cables such as 1/4 inch to XLR -> attenuator -> XLR to 1/4?

Thanks again, this is very helpful.

Subject: Re: 2882 high noise floor output
Posted by [jon](#) on Wed, 28 Oct 2015 16:35:47 GMT
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If you are using an amp, you should hopefully be able to turn down at the amp itself without needing an attenuator. The attenuators are typically for the situation where the speakers are self-powered and the built in sensitivity control doesn't get the levels down enough.

Subject: Re: 2882 high noise floor output
Posted by [chrihar](#) on Wed, 28 Oct 2015 16:47:33 GMT
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I see. Actually, the levels on my amp are about as low as they can go and it's still very loud.

Subject: Re: 2882 high noise floor output
Posted by [jon](#) on Wed, 28 Oct 2015 17:15:31 GMT
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Okay, in that event, you may want to try the attenuators.

>Would I then need to get cables such as 1/4 inch to XLR -> attenuator -> XLR to 1/4?

Yes.
