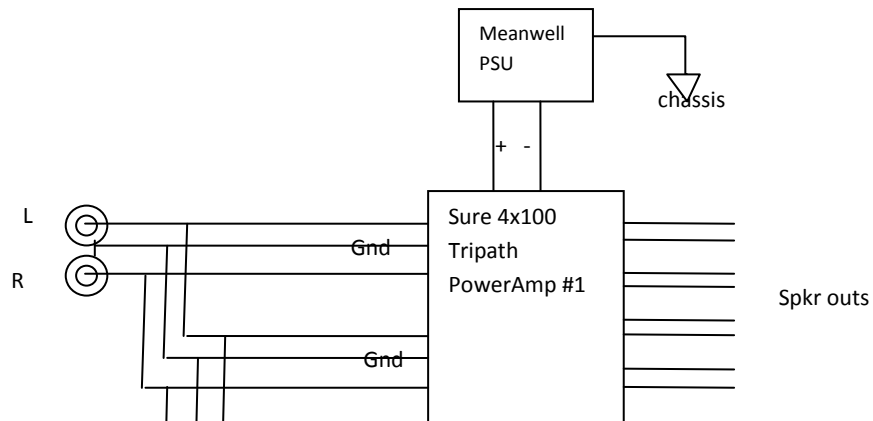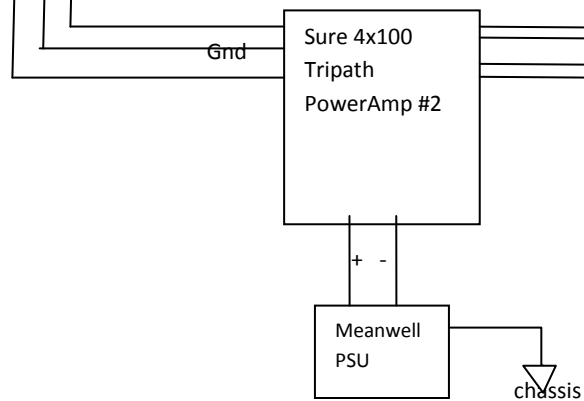Below : one input to both Stereo amps on the single board. Everything sounds fine

Now I add a second Power amp board so I can have 4 stereo zones. It has its own Meanwell PSU.

I get a high pitched screeching sound from all channels

I probably have some feedback (ground) loop causing this. I tried creating a local grounding point (not connected to the chassis) to which I connected the Gnds of the two amp boards and the input ground. It didn't help.