

Mounting a Bass Rocker to the Ejection seat.

However this information has been published on several websites on the net, I thought this can't be published to often.

A Bass Rocker / Shaker is a heavy “speaker” but it will not produce sound waves but strong vibrations. So the drawback of producing too many noise when using some serious sized woofers to generate the live atmosphere of a jet engine, is gone.

The Bass Rockers are simply driven by the output of a separate amplifier, and will add more than you expect on forehand. The guys who have flown in my simulator reacted all the same. And especially when doing a rampstart and you feel the engine spin to live will bring a big sneer on their face. And when they start taxiing and feel the concrete and tarmac bumping under their bottom the sneer often becomes a big smile. And the few ladies who had taken a seat reacted in no way negative ;-). Haven't mentioned the use of the canon, and the feeling of the impact sound...

Well I hope all you builders out there will seriously consider adding this to their pit it is a simple way to enhance the experience. And for approximately a fifty dollars not too expensive.

What is a Bass Shacker? The pictures below show the shacker I'm using.



The Shackers have an impedance of 4 OHM or 8 OHM.

Read the specs carefully when adding this to your amplifier, mine have a maximum of 50 WATTS, but this is by far enough.

To drive the Rockers you may use a separate amplifier.

I always try to make a good simple solution, overall building a simulator is complex enough for most of us, and the solution has to be as cheap as possible.

The bassrocker let you feel the lower frequencies generated by your soundsystem.

So the best input for it will be the channel which is driving the subwoofer.

I decided to plug the rocker not into my 5.1 sound system. Instead of this solution I use an used older sub-woofer from another sound system.

How do you do this in a simple way.

Just split the output of the bass from your soundcard with a so called mini-mini splitter.



Plug your sound system to one of the outputs and plug the dedicated sub-woofer system to the other.

I opened my older sub-woofer and removed the wires from the speaker. You can now read the impedance of the speaker used. As the most low cost soundsystem woofers are not that powerful, in most cases the Bass Rocker is in any case save , but you have to check the power of the used amplifier ,it may not exceed the rating of the Bass Rocker.

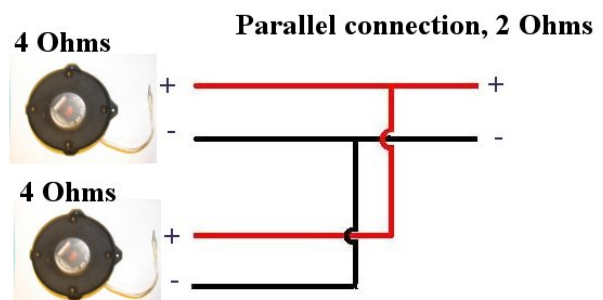
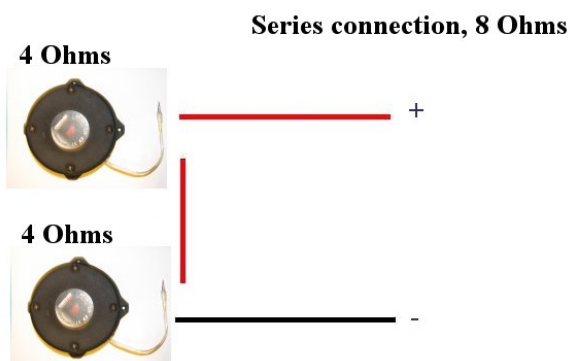
I made a little box on witch I mounted the Shacker.
Now it is easy to screw it onto the bottom of the seat, just underneath the cushion.



Some rubber sheets are placed between the seat and the cockpit. Also the cockpit is placed on a thick sound isolating material. For my simulator is situated at the first floor and I want to prevent my neigh-bours will think I'm teaching Godzilla how to break dance ;-).

Two shackers can be wired together to increase the delivered power. This can be accomplished by connecting them in either parallel or in series. When you connect them in series, the impedance will increase to 8 Ohms, whereas a parallel connection reduces the impedance down to 2 Ohms.

You should check the amplifier manual to figure out the delivered power at various impedances.



As always I keep asking all the others in this loony hobby, make some little pdf's with the pictures you make on the road, and share them with others.

They can make improvements and so we can build our dreams faster and maybe cheaper.

Keep them flying,

Rien "HAMMER" Heideveld

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