

---

Subject: Re: Back EMF?

Posted by [Wayne Parham](#) on Thu, 05 May 2011 15:36:36 GMT

[View Forum Message](#) <> [Reply to Message](#)

---

spkrman57 wrote on Wed, 04 May 2011 11:57I have used the following small tubed amps on my 4-Pi spkrs utilizing 8 and 16 ohm 2226 drivers with no problems:

45/2A3/300B/Triode strapped EL34

I will re-iterate what Wayne has said in the past concerning the 2226 liking more wattage than what the little amps put out for max performance (10 % of max or 60 wpc).

I agree with that, but I will say that the dropoff in performance using little tubed amps under 10 wpc is not really that drastic. I don't know too many other 15" drivers that would work as well for me!!!

Just my 2 cents worth of course!

Regards, Ron

Absolutely, I agree. I use mine with 10-watters and have been very happy with them on 2A3-based 2-watters too. They're fine, sound great and are quite loud.

The thing about the 2226 at low power levels is not related to Zmax or back-EMF in any way. It's the fact that the driver was designed to handle a lot more power, and the electro-mechanical parameters shift at moderate levels. So at flea-power, the tuning of the system makes it lack bass a little bit. It will actually shift to have more bass at higher power levels. But the speaker was design with this shift in mind, and it never shifts into an underdamped (peaky) condition. It is always slightly overdamped, and shifts a bit under the curve, but never anywhere close to an underdamped condition. This is a very friendly alignment, tolerant of shifts.