

---

Subject: More active crossover questions

Posted by [ToFo](#) on Tue, 12 Feb 2002 13:59:22 GMT

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

---

Replay has me thinking. I have an active 4th order x-over and 2 Adcom gfa 5400 amps. Would it be best to run theater 4 Pi's without the passive network? This is probably a no brainer, but my concerns are...How will the Delta 15 sound without a zobel? It makes sense that nothing between amp and driver is technically best. I do wonder though, will this compromise the Pi sound with respect to tonal balance? Adcom amps thump at power up. will this thrash the compression driver without a cap inline? I do not doubt what Wayne says on this subject, but I also know a lot of what makes a thing "best" is situation dependant.

---

Subject: Re: More active crossover answers

Posted by [Wayne Parham](#) on Tue, 12 Feb 2002 22:14:45 GMT

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

---

If there are no reactive components between the amp and the speaker motor, there is no need for a Zobel. Its purpose is to damp the electrical filter formed by the crossover components and the motor itself. A compression horn tweeter will need augmentation of the top octave though, so you'll want to EQ somewhere in the signal path. You can provide EQ in the low-level preamp circuits instead of at the speaker outputs. Be careful of using amps that thump at power-up. They'll trash a compression driver unless you add a protective capacitor. Just use a relatively large value to block DC. I'd probably also place a non-inductive shunt resistor, something between 1.5x and 2.0x  $R_e$  across the driver for good measure.