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Subject: Re: Request for pi3 & pi4 plans and driver question  
Posted by [Wayne Parham](#) on Tue, 30 Nov 2010 19:55:17 GMT  
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Please decide which of these two loudspeakers you want to build. They're very similar in size and

As for the reasons to go with the upgraded parts (i.e. JBL or AE), it's largely because they have shorting rings. I think that's what makes the biggest improvement in sound quality over the stock Eminence parts. Shorting rings stabilize magnetic flux and reduce distortion. They also reduce voice coil inductance, making an easier load. The improved tweeters are better largely because the diaphragm is well damped, so the response is smoother. Not as much breakup in the top octave.