Subject: Re: 3Pi Sub plans, and some other questions.
Posted by Wayne Parham on Sun, 13 May 2018 17:17:24 GMT
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Vented and sealed subs are generally pretty tolerant of modifications. They are acoustically small, so standing waves don't setup inside. So basically, as long as the internal volume and port remain the same, you can expect performance to be the same too.

You cab face the woofer downward if you want, but I would warn that it will ruin the woofer after a few years. The suspension will begin to sag due to weight. Once it does, the diaphragm motion is no longer symmetrical and distortion rises dramatically. So if you put the woofer on the bottom, plan to replace the driver every decade or so.

Forward-facing subs don't have this problem, and you can expect the driver to last forever when oriented that way.

One last note: Constant-directivity cornerhorns don't need flanking subs to smooth notches formed from nearest boundaries. But they do most certainly benefit from distributed multisubs. Run a pair of subs in opposite corners for a Welti configuration. Or place them in other random spots for a Geddes configuration. Doesn't matter - as long as you're running a pair of subs in addition to the pair of bass bins in your cornerhorns, you'll have four bass sound sources and room modes will be greatly smoothed. The added extension from the subs is welcome too.