Subject: Electro-mechanical parameter shifts
Posted by Wayne Parham on Wed, 10 Jun 2009 19:58:45 GMT
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Did you test it face down, by chance? Or was the driver mounted to an open baffle, or otherwise held vertically?

Does the suspension travel freely when gently pressed in and out by hand?

Usually I find Fts is higher than expected on new drivers. The suspension is usually tighter when new or after sitting a while. You'll see more peaking down low when a woofer is first used. Then after a little while, especially after heavy use, it calms down.

Some drivers shift more than others. Some need less initial break-in, virtually none at all. Most all drivers change with age though. And every driver shifts at various power levels.

This shift is normal, and that's why I like designs that are tolerant of shifts. If a loudspeaker design requires the driver specs be too tight, it is not very good in my opinion because every loudspeaker driver shifts a lot.

Drive the woofer hard for a few hours and then let it cool down and test it again. Test it with different drive levels too, if you have that capability. You might be surprised how much movement there is.