

---

Subject: Speakerlab K Horn

Posted by [Paul C.](#) on Sat, 16 Dec 2006 17:38:16 GMT

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

---

I was digging around in my "archives" (junk on my bookshelves) looking for some Speakerlab K Horn info for another fellow and dug this up. I have often heard it stated that the Speakerlab K was misdesigned, the throat was wrong. Apparently that was on purpose:(From Speakerlab's Technical Compendium TC-10 1979, by Pat Snyder)"A Shortcut (pun intended)"You will find that bass horns designed strictly to the formula are quite long. Olson demonstrated (Reference 1, p. 114) that the horn can be shortened considerably, with little adverse effect on the bass response, by using a faster taper rate in the throat end. In addition this extends the high frequency range of the horn."The Speakerlab K uses a 100 hz taper rate for the first 8 inches of horn path from the throat, then a 48 hz taper rate thereafter. A line for the SK is plotted on figure 5."References"1. H. F. Olson, Elements of Acoustical Engineering, 2nd Ed., Van Nostrand, New York, 1947. Out of print."

---