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Subject: Sure

Posted by [Earl Geddes](#) on Sat, 10 Dec 2005 17:59:14 GMT

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The drawing in SPEAK is for clarity. I would never build a lever like that. See link below. This construction would only cost as much as a speaker cone with surrounds and spider. Maybe \$10 for a 15" one with 2:1 ratio. Most companies charge ridiculous sums for passive radiators. >Some things are unclear for me: >1. Should the big passive radiator be of the same size as the >speaker? It should preferably be about 50% bigger.>2. Did you build the passive radiators yourself? I was with a big company and we had a supplier build them.>3. How did you build the lever? As below with a few mods - the spider did not have a hole in it as shown in the drawing. This gave a larger gluing surface. We used a frame to hold the parts, although once mounted the frame becomes unimportant.>4. Which speakers/passive radiators/components did you use to build >the subwoofer? Again, I was with Ford and we had everything custom made. This project was published in SAE and can be obtained. It shows how the theory worked as expected, the +6 dB gains were achieved and the lever with one driver outperformed two drivers in about the same enclosure volume, fewer drivers and watts required with the lever. If only I could get some company to make the actual lever, I know that this would be a popular approach. Maybe someday I will pay for the tooling and do just that. But I have other interests right now. If you, or anyone else, wants to have these levers made and sold, I would give you rights, they are patented, to do this since I own them for most configurations of advantage.

Practical lever construction

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