Posted by Wayne Parham on Fri, 06 Jul 2007 02:52:15 GMT
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Use R11 or R13 lining the line the top, one side and the front up to the woofer. You'll also want two pieces of insulation to span the cross-section. These are conveniently placed, resting on cross-braces inside the cabinet. This breaks the cabinet into three partitions, and midrange energy cannot pass through, only bass. The cross-section insulation impedes standing waves from setting up inside the cabinet.Bracing is important in that it keeps panel vibrations to a minimum. It is important that the cabinet not add sound of its own, and you should be able to strike the cabinet with your knuckles and not hear a resonant "drum head" sound. As mentioned above, the braces also serve to hold cross-section dampers, one a third of the way up and another a third of the way down. They should be cross braces or window braces and they should double as a place to hang partitioning pieces of insulation across the cross-section of the cabinet.