Subject: Making some progress on my PVC pipe/ RS 1197 project
Posted by lon on Thu, 05 Feb 2004 18:32:00 GMT
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I suppose this is my first scratch project. I've built kitsover the years (crossovers prewired) and modified cabinet/speaker combinations. Had a successful mod of some old Nakamichi enclosures that went with their mini receiver byreplacing the woofer with the Fostex FE87e and knocking a big hole in the backs. This worked out well and I'm using thoseas my computer monitors. I got a couple RS 1197's when they were being closed outfor (I think) $3 ea. or so. And I got on to the PVC pipeidea because it requires few tools and no power tools at all. The PVC's I've seen have a small baffle made of MDF. To fitthe speak to a 90d elbow, I used a toilet adapter with ashort ring of 4" diameter pipe as a baffle. The whole thing (I've completed one for testing) consists ofRS 1197 with foam insulation as a gasket screwed to the toilet ring and inserted into the 90d elbow. I have a linelength of only about 50 cm total and that includes a PVC t-fittingat the base which acts as a 4" diameter port. I intend to make the final length 101 cm as the exampleproject shows. But to test I just used a piece of the PVCto see how it sounded.
The rest of this test rig is as sparse and inexpensiveat the speaks: I have a Radio Shack SA155 mini amp and a turntable from Pioneer that a friend gave me. I purchaseda Grado Black cartridge and that's my source for now. Playing some mono LP's through the single speak initially gave what I felt was a muddy end to stringbass and the low frequencies in general. (This is stillthe 50 cm overall length.) I've been able to smootheout the sound of this little driver with some dacron stuffingin the 90 elbow and nothing else down the length of the line. My question is: will increasing the line length totypical TL proportions make the lower end more crisp (stringbass sounding like a string bass and less muddy?) There's a long way to go on this but it has been a biglearning experience.
an example of a PVC pipe speaker