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Acousta-Tune Speaker Stands

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ACOUSTA-TUNE SPEAKER STANDS

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April 20, 1982

ABSTRACT

Many stereo speakers are victims of poor room acoustics, caused by building materials and room furnishings. These acoustics, along with speaker placement within the room itself can destroy good stereo imaging. The Acousta-Tune Speaker Stands eliminate these problems. A hand held radio-control module gives a listener the ability to command belt driven geartrains which rotate each stand independently.

The control unit is a solid-state transmitter/receiver which operates a 27 KHz. Moving one of the two self-centering levers on the control unit actuates a 6 volt mechanical servo motor in one of the stand's base. This servo trips a normally open lever action micro-switch which in turn generates a 750mA emitter current to a PNP power transistor which passes 12 volt DC power to the reversible gearmotors. A V-belt pulley geartrain couples this motor to the rotating speaker base, which rotates on a ball-in-cup bearing surface. A full scale working prototype was fabricated and tested. The unit was within the physical and performance test established. The prototype cost initially came to \$314.45. A commercial unit could be mass produced and marketed at a reasonable price.

With the aid of the Acousta-Tune system, a stereo enthusiast now has a simple and effective method to combat the afflictions room characteristics place on a loudspeaker.

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