Subject: Re: 4pi
Posted by Wayne Parham on Fri, 15 Oct 2010 01:15:40 GMT
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All resistors in the tweeter circuit are 10 watt non-inductive types. The Zobel in the woofer circuit is a 100 watt non-inductive part.

The JBL 2226 is "wired backwards". Some JBL drivers are wired that way, with forward cone motion caused by positive voltage on the black terminal. Normally it's the other way around, with forward motion caused by positive voltage on the red terminal. The chart below shows what JBL drivers are wired this way:
Notice for JBL Transducer UsersCompression drivers are a little more complicated. For one thing, forward diaphragm motion means different things to different people. Would you consider "forward" to mean away from the magnet? That would be moving away from the listener. Or would you consider "forward" to mean moving towards the listener? That's moving in towards the magnet. Some companies have listed them one way, others, the other. And either way you look at it, there is a path within the driver, and that adds a slight delay, different phase for each frequency. Then there's the reactive nature of the horn itself, phase moving around at low frequencies in the critical crossover region. So it's best to measure each model driver to know how it acts when evaluating or comparing them.

Bottom line: Wire the drivers as shown in the schematic, because they have been tested as shown and are known to work properly that way.