Subject: Taking a wild guess here about cross-over design
Posted by wunhuanglo on Sat, 31 Jul 2004 15:31:33 GMT
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Somebody's "eBaying" a pair of ancient crossovers. They incorporate what looks like a standard-base porcelain bulb socket. Probably the same intent as the Eminence crossovers that use a 12V bulb for tweeter protection?If so, it a pretty interesting object lesson in the evolution of a design concept.
http://cgi.ebay.com/ws/eBayISAPI.dll?ViewItem&category=50597&item=5712803174&rd=1

Subject: I mean design in the mechanical / lay-out sense <nt>
Posted by wunhuanglo on Sat, 31 Jul 2004 15:33:39 GMT
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nt

Subject: Re: I mean design in the mechanical / lay-out sense <nt>
Posted by Wayne Parham on Sat, 31 Jul 2004 15:47:03 GMT
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Looks like a power supply.

Subject: Any idea why the bulb socket?<nt>
Posted by wunhuanglo on Sat, 31 Jul 2004 19:12:39 GMT
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nt

Subject: Re: Any idea why the bulb socket?<nt>
Posted by Wayne Parham on Sat, 31 Jul 2004 20:34:01 GMT
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No, I thought that was kind of weird too. Sometimes when I blow the cobwebs off an old circuit

like that, I find things that sort of surprise me. I can't help but wonder "what was that guy thinking?" And that is pretty much what I thought when I saw the light bulb socket.

Subject: Practicality rules.
Posted by Bill Fitzmaurice on Sun, 01 Aug 2004 00:49:08 GMT
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It's definetely a power supply, for an ESL, and I'd imagine that the socket is what he used to plug the supply wire to the ESL into. Guess he didn't have any bananna jacks lying about.

Subject: Re: Practicality rules.
Posted by Wayne Parham on Sun, 01 Aug 2004 05:39:30 GMT
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You may be right.

Subject: Not that I know nuthin' about nuthin', but...
Posted by wunhuanglo on Sun, 01 Aug 2004 12:12:27 GMT
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Not that your hypothesis is impossible, but I find it extraordinarily implausible. This is a commercial product – what could possibly be more inconvenient than a porcelain as a connector for anything other than a light bulb?I looked up a DIY ESL amplifier design from the same era (1968). In that design the author used light bulbs “to equalize the voltage to the capacitors” in the high voltage section of the output.After reading that, I remembered that Nelson Pass has an amp design that uses four standard base light bulbs in some sort of regulation scheme.It may not represent an component of a crossover section as I originally thought it might, but I find it very difficult to believe that it’s intended to terminate the panel leads either.

Subject: Re: Not that I know nuthin' about nuthin', but...
Posted by Wayne Parham on Sun, 01 Aug 2004 15:36:44 GMT
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That might be true too. You're right that the socket would be inconvenient as a connector. But it kind of seems like a large device to use as a as a current sensitive resistor and/or fusable link. I would have though a smaller device could have been used instead.Maybe it is a fuse socket? Remember the large current fuses that were used in house wiring panels before circuit breakers became common? Do you think maybe one of those kind of fuses is used in the socket?It would be interesting to know.

Subject: I'd bet $1 you're right!
Posted by wunhuanglo on Sun, 01 Aug 2004 15:48:01 GMT
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A fuse / fusestat socket makes real sense.

Subject: Found an exact Chinese-made replica
Posted by wunhuanglo on Sun, 01 Aug 2004 16:05:40 GMT
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Replica socket F517 E27. They call it a light bulb socket.
http://gardentool-cn.com/e/products01-5.htm#

Subject: You won the $64,000 prize
Posted by Wayne Parham on Mon, 02 Aug 2004 04:09:05 GMT
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It is a light bulb socket. And a 60 watt light bulb was used in the power supply circuit as a non-linear resistor.I wrote the eBay guy and asked him. Now we know!

Subject: Re: You won the $64,000 prize
Posted by wunhuanglo on Mon, 02 Aug 2004 09:57:11 GMT
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Thanks Wayne!I certainly was curious about that one! The way the guy wrote the ad, I had the feeling that he didn't know much about what he had so I didn't want to bother him with a question he couldn't answer.Glad you took the initiative. I feel better now ;-)Oh, and I'd prefer to donate my

$64,000 to the charity of your choice.