

Yoke Replacement

Source: <http://sci.tech--archive.net/Archive/sci.electronics.repair/2005-06/msg00243.html>

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 - *Date:* Sat, 04 Jun 2005 16:56:22 GMT
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This must be one of those "really desperate to fix it" projects. A little 9" color TV/radio combo I picked up in the trash, had a badly burned yoke. I was able to isolate and insulate the shorted windings, but disturbing the windings threw the convergence way off and the yoke was still as useless as ever. Now I just happened to have a good yoke from an identical CRT (27GDC85X), however it was designed for a completely different set. I installed it anyway, the vertical windings are a perfect match but the horizontal ones have too low an impedance – causes high-voltage shutdown unless powered with a Variac. I determined that the original yoke H winding was about 13.2 ohms, and the replacement yoke H winding is about 3.9. A bold idea came to mind; wind an impedance-matching transformer from an old flyback core and some magnet wire. I have several pounds of AWG 27 and 38 magnet wire that I could do this with. The question is: do I need a 1:1 turns ratio? I suspect I do, this means that the two windings would have the same number of turns but use different wire gauges. Think this would work? I know it's a lot more trouble than the old set is worth, but I'm not exactly busy these days and I hate to junk such a nice set. 9"-ers are not abundant in my supply, so it's certainly worth an hour or twos work to get this going. Thanks for any advice.

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