

Re: Yoke Replacement

Source: <http://sci.tech-archive.net/Archive/sci.electronics.repair/2005-06/msg00273.html>

- *From:* "James Sweet" <jamessweet@xxxxxxxxxxx>
 - *Date:* Sun, 05 Jun 2005 00:23:21 GMT
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"Chris F." <zappymanREMOVETHIS@xxxxxxxxxxx> wrote in message
[news:W2loe.41922\\$Ph4.958846@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx](mailto:news:W2loe.41922$Ph4.958846@xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx)

> 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.
>
>

More the the impedance is the inductance. Try winding an inductor and
placing it in series with the yoke, that may well work.

- *Follow-Ups:*
 - ◆ **Re: Yoke Replacement**
 - ◇ *From:* Chris F.

- *References:*
 - ◆ **Yoke Replacement**
 - ◇ *From:* Chris F.

- Prev by Date: **OT – Sears Weed Whacker Update**
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