

Can anyone help with this repair? Thanks :)

Source: <http://sci.tech-archive.net/Archive/sci.electronics.repair/2004-10/0771.html>

From: ljones (ljones_at_lineone.net)

Date: 10/09/04

Date: Sat, 9 Oct 2004 19:37:09 +0000 (UTC)

Hi,

I have an old (I believe it was made around 1990/91ish) VCR. It's an SVHS model – a Sanyo VHR-S700E (Stereo, PAL; I'm in the UK). I'm trying to repair this vcr but I can't pinpoint exactly what the trouble is or where I should look.

These are the problems:

- * The VU LEDs don't light up at all (they should light up to show the volume levels; so far I've never seen them light up at all).
- * The tape refuses to rewind, forward wind or play – the video tries to but aborts the attempt.

There is another problem which I will come to in a moment.

First of all I thought that the second problem (regarding forward wind, etc) might have been the capstan and that it might have ceased up or needed oiling. I tried to do this with some sweing machine oil but it seems to have had no effect (though I did this with the capstan still in the machine).

However the LED problem points to (I'm guessing) a possible power supply. Here is a picture of the inside of the VCR with the cable (I'm guessing) carries the power for the LEDs; there's a ribbon cable that connects nearby I guess this carries the signals to light up which LEDs need to be lit;

<http://img21.exs.cx/img21/9621/11142.jpg>

You can see another picture of the power supply section here – note the power supply is hard to get to and most of it inside a metal can:

<http://img21.exs.cx/img21/9408/11143.jpg>

There is a third problem though. I've noticed while I've had the video

Can anyone help with this repair? Thanks :)

sci.electronics.repair: Can anyone help with this repair? Thanks :)

apart that any usage of the tape (eg trying to wind forward, back, etc)
I have found one chip near the bottom of the capstan (on the underside
of the video) seems to get very hot very quickly. Here's a picture:

<http://img21.exs.cx/img21/7159/3a4.jpg>

I'm guessing the big wheel in that picture with the belt on it is the
underside of the capstan.

Incidentally, here are some pictures of the capstan:

<http://img21.exs.cx/img21/8303/11144.jpg>

<http://img4.exs.cx/img4/1299/13031.jpg>

And the left hand side of the VCR with the non-functioning VU meters:

<http://img4.exs.cx/img4/7922/13032.jpg>

Can anyone figure out what the problem is exactly? Are all these faults
seperate or interlinked in some way? I'm guessing this might all be down
to a power supply problem but where do I start looking? Does the fact
the chip gets hot mean it is dead or just being fed bad voltages?

:)

Thanks for any help.

ljones

ljones@lineone.net