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TVM schematic, I read R472 as 1K; R473 as 20K; R492 as 1M; R493 as 51K; and R495 as 10K.<http://cptcla.org/userfiles/casio-cfx-9850gb-plus-user-manual.xml>

But these likely died from a bad flyback, T404, which would need replacing. What is the value of the ph33d. Without the components chassis location number, the service literature cannot be referenced, but this may be a Philips fastrecovery type rectifier, BYD33D, rated 200 Volts, 1 Amp. Possible substitutes for that one, are FR103, NTE552, or NTE574. Need the value of resistor. There are many different Viewsonic E70 models, so without the VCDTS model number, one cannot be sure which one is your model. I need the value of R612 surface mount resistor at the bottom of the PCB. Part reads K2379, seems to be Sanyos mosfet 2SK2379. Part is impossible to get in Germany, are there any equivalent replacements. Although Sanyos 2SK2379 is a logiclevel gate Mosfet, in the LG 99T circuit, Q520s gate is driven by a 12 Volt source, so a standardgate Mosfet like Fairchild's IRFS650B or SSS45N20B or SSP45N20B with an insulator might substitute for 2SK2379 in this location. I need reference Q 411. Q411 is BU2525AF. I need the values of D406, R475 and R471. There is distortion of the scanning lines before they peter out. If there is a bad blanking pulse at pin 17 of IC601, on the CRT board, one possible way to restore the blanking pulse, is to change the value of R460 100K to 15K Ohms, to increase the base drive for Q4412. Collector has 50 volts of HOT transistor but no signal on base of the transistor. The chip is TDA9115 but no output at vertical and horizontal output sections. 50V on the collector of the transistor is ok but if the base does not have it to turn it on the transistor will not conduct or turn on and that 50V will not go to ground or its proper place. Maybe something is loading the output of the TDA9115 down. If disconnect the output and check it again. I need the value of C326 by the HOT and value and location of FR101. I was told to also check F701, F702, F703, F704, J013, R326, R328, R241, R329, C327, C304, D308, L304, ZD210, IC201, Q301, Q302, and Q316.

In a KDS AV195T with this FCC number, KDS used FBT type Y265432B. Also, H.R. Diemen claims that their FBT type HR46206 is a replacement for Y265432B. Assuming this NEC is chassis N9902, R31A appears to be 0.33 Ohm, 1 Watt, fusible. Arcing or sparking at the neck board between ground to either F1 or F2. The flyback has 4 wires output, one is High voltage, G2, the other two wires just guessing are either F1 and F2. Yes, arcing at the focus pins is a common fault from a defective 7178ie flyback. The Acer number for this flyback is 19.70033.011. The TLF0631139 is not the actual flyback number, that number is just for the focus pack. I need the value of burned R866. R866 is 2.2 ohms, flameproof. Checked the HOT, the two 220 diodes are ok. All main diodes are fine. Did in circuit testing of all small transistors, they show no shorts. Checked 53 volts 70 volt and 12 volt they are fine. The hot heatsink heats abnormally, nothing else heats up or blows. Switching on function is normal, I can hear is degauss and then back, the led also stays green. I replaced 1rf 630 near the buttons and it fixed the problem. What are the values of Q663 and Q664. Q663 and Q664 are shown as being either KSC5042F, or 2SC4686A, in the schematic. Possible alternatives are 2SC4630, or a 2SC3675 with insulator hardware added. I need the equivalent for FJAF6812 horizontal transistor. Possible substitutes for FJAF6812 include 2SC4890, 2SC5411, BU4525AX, and NTE2365 with an insulator. Often, replacing this IC then requires DAS software realignment of the screen geometry parameters. For Samsung chassis DP17L, two FBTs are listed, FEA831 BH2600035A, or FQB17A001 BH2600026A. FEA831 and FQB17A001 should be similar, or the same, for they cross to the same HR Diemen equivalent, HR46203. For Samsung chassis AQ17LS, the FBT is listed as LCECF1781, Samsung part code BH2600109A. No HV and relay does not click. Checked HOT its ok.

<https://www.thebiketube.com/acros-bosch-wfb-2005-washing-machine-manual>

Checked all resistors, diodes and transistors at power supply and deflection area and looks all ok. Try resoldering tube connections, especially G2. I think LM1292N IC is bad but cant locate one. I used to purchase ICs from LJ but his site is no longer there. These units are lemons. Do not try to fit blank eeprom or it will blow in a big way. I need values of R509 and C503. In my Sampo KM718

manual, R509 is 22 Ohms, 2 Watts, and C503 is 0.047 uF, 400V. I need substitute part for transistor A1281 at location Q818. A possible substitute could be Fairchild's FPN660, but its pinout is EBC, instead of ECB, so its leads would need to be inserted correspondingly. Mouser Electronics [www.mouser.com](http://www.mouser.com) is listing FPN660. In many digital monitor it happens that the width and pincushion control doesn't work other than all controller functioning ok. This problem is due to the Transistor which controls the Horizontal Size. Look for the Transistor B649A and replace it. Some time there are more than one so if there are then check them all and replace the defective one. I need the value and part numbers of Q424, Q818, IC 403, R424, R466, R468, R462. I have EVOKD1910T here, I think it is quite similar so I'll try to help a bit. Q424 is 400V NChannel MOSFET IRFS730, IC403 is SMPS Controller KA3842B the same as IC404 you have there, R424 is 3600 ohm, R468 is 1 ohm. Have you checked your flyback. I could not locate Q818 Q810. My R466 and R462 are burnt too, waiting others to help. I replaced a shorted horizontal Viewsonic has made several different versions of P810, with different FCC and VCDTS numbers, so specific tips cannot be given. Also check the base drive circuit components for that shorted HOT. In some models, bad FBTs are common. Initial fault was arcing on the FBT. I replaced it FEA661. No arcing but no operation either. Q303 2SC5331 and Q103 IRF740 were shorted. Q303 is the HOT; Q103 is a regulator in the HV circuit. Replaced both and tested again. Q303 shorted again but not Q103.

<http://enbatielektrik.com/images/cadence-c32-treadmill-manual.pdf>

The HVOPT Q105, C5124 never blows. Also tested damper diode D304, D317, and R334. What is causing Q303 to short. I have located the culprit. It was D123 shorted in the G1 circuit output of the FBT. There is no Bplus to the horizontal output transistor, Q707. I have carefully checked the board with a magnifying glass. Also check C411, ultrafast D405, and damper D714. If there are no pulses on the gate of Q404, check R439, zener D404 18V, and ascertain that horizontal drive is being provided to Q404's gate from IC701. The B plus voltage holds steady at 88 volts. If C517 is OK, then check the flyback. Check diode near power supply, damper diode here 303, strip 303. How can I lower HiV to 2627 KV. When I pull CRT socket off the tube all is OK, so I'm guessing its excessive beam current. According to the manual, HV is adjusted to 27KV by RV901 on D board, under a cover and RTV silicone. Also, check components in the HV regulatory circuit R924, R925, RV901, IC901, and FBT T901, and the HV and ABL protection circuits R917, R918, R920, R921, R923, R932, R933, R191, R1004, R1006, C920, D911, D912, D915, D917, IC901, T901, in case any are off value or faulty. I need value of C506 According to the SC726GXL manual, C506 is a metallized polypropylene film capacitor, 0.33 uF, 400 Volts, 5% tolerance. I need the reference of the transistor Q630. Q630 is IRF634, or an equivalent type. IRF740A can also substitute. If Q630 is bad, also replace C635, and carefully check D632 for reverse leakiness. I have changed IC U401 and U2. Compaq MV520 has several chassis versions, with different COxxxxx model codes, but if your version has a dual diode at D801, check it for bad solder, and for reverse leakiness in the diodes. If D801 has problems, also check FETs Q802 and Q805, in case D801 has damaged them. The original part is SSP7N60A. A substitute part is IRFB9N60A. The Philips part number is 9322 135 00687.

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How do I reset IC007 in the D board, CXA2043Q like Samsung TVs This Dell is a Sony, not a Samsung, chassis. The symptoms sound more like a defective IC007, than one that needs realigning via Sony DAS software. If you replace IC007, beware of lifting the fine PCB traces. Sony distributors have CXA2043Q, as Sony part number 875207846, or MCM Electronics may have the generic part available. Phillips Manufactured, but no help there. Of course Compaq recommends replacement. R3423, R3424, R3426 burned. Need values. Vertical IC shorted after powering it up with the cable connecting the mask to the CRT Board unhooked. Looking for loose solder connections. Anything else I should be looking at. Vert IC replaced, of course. In my Philips manual for CM0200, R3423 is 220 ohm, 0.33 Watt; and both R3424 and R3426 are 4.7 ohm, 0.5 Watt. The vertical IC is TDA8172;

also check nearby electrolytic capacitors for possible damage from incorrect supply voltages. Initial problem was no go with ticking sound. Checked H.O.T which was ok. Replaced Flyback Transformer, and monitor now operates BUT only when the video cable is not plugged into the rear of the monitor. Every now and then one of these will do more damage when the fbt goes, some only the fbt. Color adjustments on the DP15LS model are done with Samsungs Softjig software, and the Samsung Softjig interface assembly interface board Ver. 2.0, and signal cable. Display was split into two parts horizontally and about 3inch diagonal bar was in the center of the screen. I checked H stage. I changed H.O.T BU2520AF, now Q317 N CHANNAL F.E.T K2161 is blowing. Also need value of zener diode D316. Another problem is when connect the Vga cable, the front panel controls does not work. When Vga cable is disconnected the front panel controls Bright, Contrast, Size, etc work. If R214 15K is bad, IC201 TDA4858 is probably also bad.

Since Q317 repeatedly burns, also check if coil L304 has burnt or shorted windings, or has lost inductance L304 should retain at least 0.7 mH in inductance, and check zener D316 24V, ultrafast diode D317, and C326. Replace Q505 IRF630 FET mounted on FBT cage. Dry joints on FBT and C513 100uF200V swollen. But any heavy drain on the supply could cause this. In the Sony Manual, Q406 is either a Matsushita 2SB709A in the schematic, or a Toshiba 2SA1162 in the parts list; these two PNP transistors have similar specs. I checked the vga with another monitor which worked fine. In the standby mode some tick tick sound coming from the relays RL501 and RL503 near the HOut transistor and in full working mode the noise coming from the flyback or near around the flyback. With Q133 and Q500 bad, I would also check R150 10 ohm; C539; ultrafast rectifier D132; and the rectifier for the 200V secondary supply off the SMPS transformer. I need a substitute for a dmV32 or dmV56. Possible substitutes for ST Micros diodes DMV32B and DMV56 include Sankens types FMP2FUR, FMQ2FUR, FMT2FUR; also, Fairchilds type FFPF60B150DS. DMV32B diode is available in UK from Check C575; also check C573, since the problem is worse in certain modes. Need value of r626, burnt beyond recognition. Value of R626 is 820E 1w. After replacing screen shows thin lines and foldover on top. Changed TDA 4866 and electrolytics around this IC. Fixed the problem. No known damage nor surges. PLED blinks short on, long off. Next time include size, proper make, model, year, FCC ID, UL and CSA. What is the correct line output transistor fitted to this chassis. Line output transistor is BU4508AX This seemed to be a heatrelated problem, as monitor would power up normally after letting it stand for some time. Disassembled monitor, and resoldered some suspect joints. This fixed the intermittent problem. Monitor then lost display, with no obvious signs of overheated components.

Now when powered up, and video signal asserted from computer, power LED blinks ORANGE at about 2Hz. Are there any points where critical DC voltages can be checked. Check vertical IC and caps. All main voltages test ok; G2 voltage is about 1kv at the source, but seems to have an automatic G2 regulation circuit at the CRT module. Check tube socket connections for dry joints. These units lift smd components on video board near the heat sink component side. Also check microprocessor output. After check and replace de IC403 FA4111 without result, I think the problem can be caused by malfunction of IC402 M52722P. I havent any datasheet of M52722P and I cant find in Mitsubishi Semiconductor site. In the schematic, the Red input to IC402 is to pin 17, and is about 2.8V. Red drive pin 18 is about 3.9V, Red hold pin 35 is about 4.4V, and Red Output pin 37 is about 2.7V. Vcc for red 12VDC is IC402, pins 16 and 36; red ground pins are pins 24 and 29. Red output goes to transistor Q101 PNP, base is about 2.8V, emitter is about 3.5V, then continues on to input at IC403. If another IC is needed, IC402 M52722P is Sony part number 875946863. Need part number for T27 FET. T27 is IRF9622, a Pchannel Mosfet; an IRF9620 could substitute. Checked all resistors, transistors, diodes and caps in primary side. Replaced ic uc3842 but did not help. When switched ON, main capacitor still holds current. Double checked all component in primary and secondary. Unfortunately in this monitor a charged cap does not mean much. The main drive is not the IC you changed but IC701 via an opto coupler so if there is a short say on the flyback IC701 will lock down

and C612 will be fully charged. I then suggest check the usual output transistor etc and ring the flyback if you can. I need the value of burned Q312, I can make out K D2. Q312 is D2061 After replacing the eeprom you need to do an alignment with Samsungs Softjig software and interface. After doing the alignment, save the data to the eeprom.

The version of BU2520 used for Q831 is BU2520DF contains a damper. Resoldered cracked solder joints at I602 vertical IC, still horizontal line. R618 is fried, what is its. R618 is 1 ohm. Also check if the vertical chip is damaged. I need a replacement from other manufacturers. That is a specialized chip made by Philips so forget about other makers. I have replaced the IC104 but the problem remains. No vertical deflection has a specific troubleshooting procedure. 1st. Check vertical yoke winding connections on PCB and measure. Other variations use less than 1 ohm resistors from NEGATIVE of this cap to ground. Poor solder heat stress or open resistors take cap out of return line and thus NO DEFLECTION. In an AOC brand model with the same FCC number, R8090 was 22 ohms, 2 Watts. Besides checking Q811, other components that might be checked are Q812, Q823, C827, C828, C837, D806, D807, and check for any shorted windings in T804. The KA3842 IC may also have been damaged, and try to clean the stain off the PCB. What other parts should I check or replace along with this mosfet so it doesnt short again. Check the flyback transformer and output transistor, one or both are faulty. Along with Q630, the ultrafast rectifier D632, and electrolytic C635, should also be replaced, as they are usually marginal or defective, as well may not test totally bad. I need the value of R473. R473 is 20K ohms. When R473 burns, this is likely caused by a defective flyback transformer. Cant read the color code. R304 is 3.3 Ohms. Replace that IC. It is a common failure in other monitors. Also the cause is probably bad caps 4 connected to that IC. This KDS model is a Jean chassis. Also check Q426 and Q429 for potential damage. If this Samsung Syncmaster 950p is a PG19LS, then IC301 is TDA8172. Samsung shows multiple chassis for this model. AQ19 IC301 as a KA2142, PG19 IC301 as a KA2142. I need the number of Video IC IC 102 Missing 12Pin IC. IC102 is LM2427. Replaced TDA4858, checked many components.

Other functions o.k. Check Q302, Q303, R302, C316, L303, and D308. The semiconductors might be leaky, but not totally shorted. I checked power supply voltages they seem ok. There is no burnt resistor or blown capacitor. More than likely your CRT has low emission. Had a lot of these fail at the end of the 3 year warranty. LG ran out of replacement CRTs in Canada. R726 burned need value for replacement, also C723 need value and specifications seems burned too, both related to the FB. If both would be replaced, will they burn again. These were probably burned by a defective flyback, so the flyback would also need replacing, or they are liable to burn again. I need the value of burned R495 and the cause. The ht is ok. When switched on the relay goes on and off with a tweaking sound. All voltages are correct with the hot disconnected. Is the bu2520df the right transistor. If this HP is a Daewoo 518X chassis, Daewoos schematic shows BU2520DX, which is the same as BU2520AF electrically, except a different case style, so a BU2520AF should work in that chassis. When powered on, it goes through a procedure of bringing up the computer section of the iMac and then the monitor. When it gets as far as firing up the monitor board, there is a repeated snapping sound for between 1 and 5 seconds I can see a small blue flash somewhere near the Motorola control chip, and then powers off and does not come back up unless left for an hour or so. The most common fault is shutdown due to an arcing flyback transformer, a common fault in the 233 MHz iMac. LG is one source for flyback 6174Z1003G, or in some regions, an H.R. Diemen equivalent may be easier to obtain. Image is stable and in focus, all syncs and geometry ok. Suspect defective ic in brightness circuit, possible voltage too high. No adjustments internally, all microcontrolled.

Assuming that this is a circuitry fault, rather than a DAS software issue, the problem might be, that the CRT cathode voltages are too low, or the G2 voltage is too high. On the CRT board A board, check if the cathode voltages CRT pins 7,8,9 are in the 80 to 100 Volt range. If these voltages are too low, it may indicate a bad IC403 FA4301. The G2 voltage CRT pin 10 should be roughly 522 Volts at

the CRT. Otherwise, try a DAS alignment. R122, R121, R130, Q101 and Q704 are all burned beyond recognition. I need the values. All other components are tested and seems OK. R121 is 220 ohms, R122 is 120 ohms, R130 is 10 Kohms, Q101 is 2SK2545, and Q704 is 2SC5339. R121 and R122 form a voltage divider across R120, which is 0.47 ohms, and is the source return resistor for the MOSFET switch, Q101. The junction of R121 and R122 goes to R110, 1000 ohms, which then feeds the current sense input of U101, which is a KA3882 PWM controller. It seems unlikely that R121 and R122 could be burned unless R120 is open, and even then I would expect to see R110 burned unless theres a short on the board. I replaced FBT and IC923, IC925. Also check IC304, the 8 Volt regulator IC on the CRT board, and its solder connections. Is there an alternative flyback to 6174Z1017D LG. Local LG list only 1017A or E. The A is not a cross but the E may be. Perhaps the E is an upgrade. I need the value for RT502. RT502 is an inrushcurrent limiter whose ohms rating is about 8 ohms at room temperature. A possible substitute might be a Thermometrics type CL110. Adjusting the screen causes the focus enhanced but still blurry. I need the specs on burned voltage regulator Q429. The board is version VCDTS213482M. Q429 is 2SC5248, rated 160 Volts, 1.5 Amp, 20 Watts, 150 MHz, DC gain 60200, Cob 20pF, TO220F case. A 2SC3298 also might substitute for 2SC5248. I need the value for R502 and Q502.

In the schematic for IJE986, Q502 is a 600 Volt, Nchannel Mosfet, such as 2SK2141, 2SK2645, STP7NB60, or IRFBC40; insulator added as required. R502 47K is shown in this schematic as being left open not installed. In front panel buttons h size, pallelogram button and pinamp buttons are not working. I replaced DM024 ic, still no change. Check if ultrafast diode D414 is leaky in reverse, or shorted. If D414 is not failing, then check Q412 and its associated components. The TOPxxx and mosfet are burned. Is there an replacement for this TOPxxx. Replaced shorted HOT C4916 with one that had the same specs with a slightly lower current rating. Now it powers up and displays a picture but I cannot get the horizontal adjustment far enough to the right and it starts to squish the picture the farther to the right I go. Also the new transistor runs extremely hot. Original HOT 2SC4916 I replaced with 2SD1876 which according to the NTE cross are near identical except for the collector current. 10 amps versus 4 amps. I was expecting it to work but degrading the life of the transistor. I have now replaced it with the correct transistor and everything works fine. The NTE cross specs must be inferior or the max. Trace the color signals to the CRT base PCB and swap two of the colors round Hopefully the colors will be marked on the PCB. If you now have RED, the tube is OK but the feed is faulty and viceversa. The number on the P992 service manual is 997870401. I need the value of burned FET Q901. The LG parts list shows Q901 as 2SK2843, which is a Toshiba 600 Volt, 10 Amp, 45 Watt Mosfet. 2SK2843 is listed as LG part no. 0TF284300AA. Applied external CRT filament supply, the picture appeared, but the screen is too high. Most times in the case of the missing heater voltage, there is usually a dried out electrolytic capacitor or bad inductor coil in the circuit. Check for one or the other. If the capacitor you find is suspected to be bad, you can parallel a known good one across it.

If it is bad this should restore heater voltage somewhere around 7 volts DC. I replaced the shorted HOT. It is working fine now but too wide. Width control does not work. Pincushion ok. Check or replace D422, Q429, and Q411. The HOT shorted, but someone seems to have put in the the wrong type. I need the correct number of Q112. Q112 is a BU2532AL. If the monitor is powered with a signal connected, it shuts down instantly and wont power up again unless left for a few minutes. To answer my own question, I eventually found it necessary to change all the low value electrolytic capacitors about 8 in total values between 1 and 100uf in the primary side of the power supply. These capacitors checked okay but proved to be faulty by replacement. I need the value of fried R843 near flyback. R843 is 12K ohms; check if a defective flyback had burned R843. I replaced faulty Q503, 2SC5148 with a 2SC4747 and the faulty Q505, IRF740. I need the value of burnt R507 in series with the Collector of Q503. R507 is 1.8ohm 2W. Also check C504 22uf 250V and C514 47uf 16V. I need the value of burned C441. If its FCC is H79DA456, a different brand, with this FCC, has

a C441 of 220 pF, 2KV. On cross hatch pattern, instead of vertical lines, it has vertical zigzag lines on top with an approximate length of 1.5cm in each line. Try replacing C573. If C573 is no help, try other 250V capacitors, C572, C575, C524. ICB02 is burned. Can only make out A8172. Believe this is the vertical amp. I do not see any other part that look overheated. I am also replacing C852, C601, R602 as well. Any other components affected outside of these. When you replace C852, also repair any damaged PCB traces under C852. If D905 has gone, I would be concerned about AC voltage continuing past, and possibly also damaging R917 1.8K, R918 100 ohm; IC850; and the processor IC901. I have not located the vertical output IC. Does the vertical IC drive the yoke directly, or is there a transistor stage involved.

This looks like some kind of pushpull output failure. IC401 drives the vertical yoke directly. I need info on D310 PH33D which is broken in fragments. Check all coils and FBT these Acers are boomerangs. They usually come back if you do not check everything. Resolder G2 on Tube board and all the other tube connectors. Repaired a few bad solder joints, one was cracked at Q583. It powers on now except HV. Degauss works, tube heater works and menu controls will turn led green as will a PC when it is connected. There is power to R588 and R589 but no power to R545. The degauss cable around CRT hits a capacitor on the front of the board and brakes the solder joint. Before replacing the CP701 focus module, rule out if the CRT has an internal leakpath, which may occur in this model. Detach the CRT board from the CRT, and check with a highvoltage probe, to see if any voltage is leaking into the CRTs focus pins, etc, while under power. If any voltage is seen on the CRT pins while the CRT board is removed, there is an internal leakpath in the CRT. Thin vertical line from top to bottom. I need a sub for Q303 YTA 630 transistor. A substitute for YTA630 is IRF630. Is there an alternate horizontal output transistor for 2SC5404. Possible substitutes for 2SC5404 might be 2SC5387 or 2SC5299. This was a common fault of VPS12 IC. With video input connected, there was video on the screen, but the brightness alternated between normal and high brightness. Clicking sound could be heard as it flashed. I replaced IC201 TDA8351 and IC102 on the video board, but did not solve the problem. It may be wise to also check the ESR on electrolytics C301, C304, C307, and C330. Replaced Q901 Irfi9634g and Q902 fs5km18a, replaced with nte2958 both shorted. I checked R934, C507, C644 and C914. Since Q901 and Q902 are for driving flyback transformer T901, I would check if the FBT is bad.

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