

Month of Issue: September 2000 Classification: White

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MODELS 56FW53H 66FW53H 66FW54H 76FW53H

76FW54H 59ESD7H 66ESD7H

Faults experienced on the DA100 (50Hz) Chassis

The following faults have been experienced on the DA100 (50Hz) chassis (see models listed above).

When servicing any model fitted with a FW chassis, ensure that the internal speakers are connected.

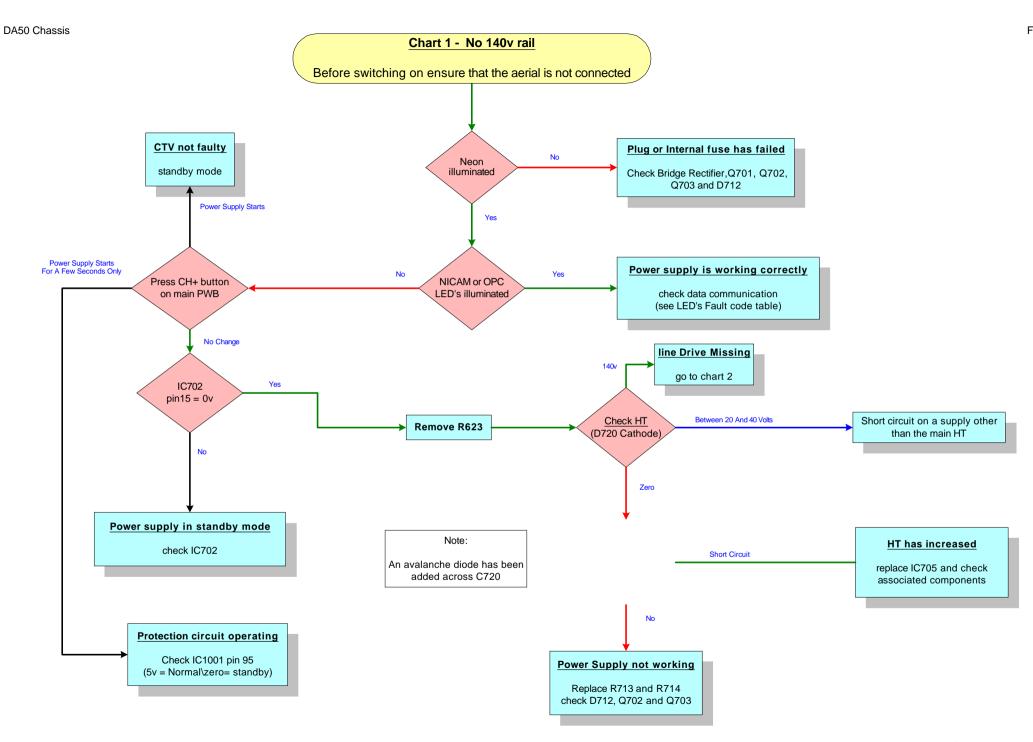
- 1. Fault finding flow chart. (See page 2)
- 2. <u>LED fault code table</u> (See page 4)
- 3. NVM associate problems. (See page 5)

RGB brightness Green LED ON permanently Low contrast Teletext problem

- 4. <u>Set may not turn on, when it does there is a rainbow effect on the screen.</u> (See page 7)
- 5. Very high HT in excess of 200V. (See page 8)
- 6. Field fold over at the bottom of the screen after about fifteen minutes. (See page 9)







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LED Fault Code Table

LED	Green	Orange	
Fault	NICAM	OPC	
Main reset or EPROM	off		
NVM's	2 Flashes/Pause		
MSP	3 Flashes/Pause		
Video	4 Flashes/Pause		
I2C 1 Locked	Keeps repeating the boot sequence		
I2C 2 Locked	On	On	
Mega Text/M3 bus	On	1 Flash/Pause (1:3)	
Boot Sequence	Green - On	Orange - on	
	Green - On	Orange - off	
	Green - Off	Orange - off	
Notes	Boot sequence can repeat six times before the fault code is shown Time taken for re-boot will vary depending on which section is faulty		

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In some instances, when a RGB signal is applied to the EURO-SCART socket, the SYMPTOM

brightness varies with picture content.

CAUSE Incorrect black level clamping.

ACTION Adjust NVM data on page 0D, position 0C from 73 to 57.

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Set fails to start, green LED stays on permanently. Only one burst of activity on the SYMPTOM

NVM I²C bus.

CAUSE Serial data problem.

ACTION Remove the NVM (IC1003) and turn the set on.

> If the LED gives two flashes, this means that there is no NVM data and that the processor and OTP are working correctly. This probably means that the NVM is

faulty.

REF NO DESCRIPTION PART NUMBER PRICE CODE

IC1003 IC, NVM RH-IX1603BMZZ ΑV

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SYMPTOM Low contrast, but when the test mode is entered, it returns to normal.

CAUSE NVM corrupted.

ACTION Adjust G2 as described on the following page.

NB. If the fault does not clear, replace the NVM.

REF NO DESCRIPTION PART NUMBER PRICE CODE

IC1003 NVM RH-IX1603BMZZ ΑV

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Reference JC121199-1 JC29062000-3 JC31032000-1 Revision 1





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SYMPTOM After changing the NVM (or possibly due to data corruption), the half page text

appears in the wrong part of the screen - too far left or right.

CAUSE Corruption of NVM memory.

ACTION Enter the service mode and change the following NVM position to the value shown.

Page: 00 Position: 68 Value: 36

Note: To enter the service mode, take the following steps.

- 1. Turn the set on and ensure that a picture is being displayed.
- 2. Turn the set off using the mains switch.
- 3. Press the volume down and channel up buttons on the front of the set.
- 4. Keeping the buttons pressed, turn the set on using the mains switch.
- 5. Release the buttons when the service mode is displayed.

Use the channel buttons to move between functions, the volume buttons to change values and the standby button to store.

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Reference JR29062000-1 Revision 1



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SYMPTOM Set may not turn on, when it does there may be a rainbow effect on the screen.

Note the NICAM LED may be on.

CAUSE Low voltage on IC501 pin 12 (standby/mute).

ACTION Replace IC501.

REF NO DESCRIPTION PART NUMBER PRICE CODE

IC501 Amplifier VHITDA7480/-1 AK

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Reference AM191199-1 Revision 1





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SYMPTOM Very high HT (in excess of 200V) leading to failure of C720. Note that the set may trip in the fault condition.

CAUSE No power supply feed back due to the opto coupler diode going open circuit.

ACTION In most cases, when the HT rises C720 fails and no other components are damaged. If this is the case, replace C720 and IC705 using the part numbers listed below.

Occasionally other components can fail, normally this will be the line output transistor, Q601 (BUH515 - RH-TX0144BMZZ) and IC1801 (TEA5101A - RH-IX1416BMZZ) on the CRT Base PWB.

It is important that before the set is switched on after replacing any faulty parts, continuity is checked as follows:

- 1. From pin 1 of IC705 to the cathode of D725.
- 2. From pin 2 of IC705 to R724.
- 3. From pin 4 of IC705 to the base of Q703.
- 4. From pin 5 of IC705 to the junction of R722 and C717.

It is also advisable to check the components around the feedback opto coupler for failure.

To ensure that excessive HT does not cause further problems, make sure that an avalanche diode (D735) is fitted across C720 on the print side of the PWB. The cathode of the diode should be connected to the positive side of C720.

REF NO	DESCRIPTION	PART NUMBER	PRICE CODE
IC705	IC, CNY17F-2	RH-FX0110BMZZ	AD
C720	Capacitor, 100μF 200V	RC-EZ0258CEZZ	AH
D735	Diode, avalanche	RH-EX0875BMZZ	AD

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Reference JC20062000-2 Revision 4





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SYMPTOM Field fold over at the bottom of the screen after about fifteen minutes, which gradually

gets worse as the set warms up.

CAUSE C505 breaking down when warm.

ACTION Replace C505 using the part number given below.

REF NO DESCRIPTION PART NUMBER PRICE CODE

C505 SMD Capacitor, 100nF VCKYTV1HF104Z AA

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Reference JC20062000-3 Revision 2

