

## TELEVISION TECHNICAL BULLETIN

<b>MODELS</b>	<b>51CS03H</b>	<b>51CS05H</b>	<b>59CS03H</b>	<b>59CS05H</b>
	<b>59CSD8H</b>	<b>66CS03H</b>	<b>66CS05H</b>	<b>66CSD8H</b>

**Symptom**
**Possible Remedy**
**Dead no sound or vision)**

Q701 & Q601 failed *	D609, D610, D720, D718, Q702, Q703, C601, C604, C619, C714, C708, R706, R707, R720 and inspect scan coils and scan coil socket for bad connections.
Q601 failed	D609, D610, C601, C604, C619 and inspect scan coils/scan coil socket for bad connections.
Q601 s/c and failure of audio o/p stage	Q601 failed due to missing - 16V rail (supply to o/p stage). Leave Q601 out of circuit until you have confirmed that both the +16V and the -16V rails are correct.
No voltage at Q701 drain	Technical Bulletin CTV970201 ( <i>Issued Feb 97</i> )
NICAM LED on or flashing (aerial disconnected)	See flowchart on page 2

HT rail present, no line drive, NICAM LED switches on for 3-6 seconds then goes off (aerial disconnected)	Check R611 and IC201
Keeps switching to standby	Check audio output stage for a short circuit
HT rail missing-unsolder pin 2 of LOPTX and measure the HT rail	0V Power supply not running (check CTV is not in standby mode)
	20V-40V Short on one of the secondary LT supply rails e.g. audio o/p stage
	110V-150V Short circuit on line o/p stage
Line drive pulsating	IC401 not communicating with micro
Line drive pulsating and R628 (R634 in later models) burning	Q704 (low standby/sound 5V rail)
Slow start up i.e. more than 3-6 seconds for line oscillator to start depending on model	C714 (please ensure that this is replaced with the specified part)

**Audio Problems**

Intermittent sound	Technical Bulletin CTV970203 or CTV980204
Whistle on the Audio (later models only)	Damage print feeding 40V to R368
Distorted sound	IC301 (MSP3410)

**Vertical O/P Stage Faults**

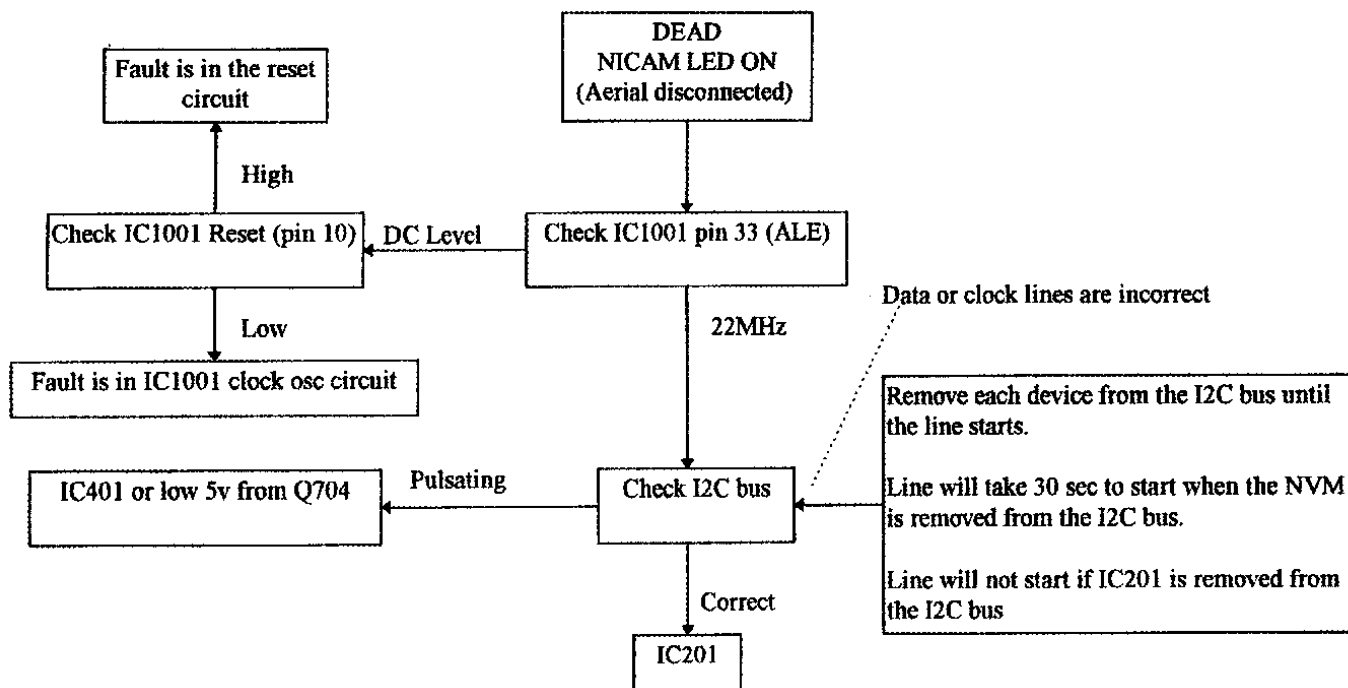
No or intermittent vertical output	Technical Bulletin CTV970207 (Issued Feb 97)
Failure of vertical output stage	Technical Bulletin CTV970202 (Issued Feb 97) & check Q507/8/9
Intermittent frame cramping	Replace D501, D502, D507, D512, C506 & C507
Rainbow effect (no line pulses at IC501 pin 2)	C501
Rainbow effect and R628 (R634 in later models) open circuit	R631 or R632 fusible resistors

Symptom

Possible Remedy

**Other Problems**

East West correction	Check D605, D612, D619, D621 & R628 (R634 in later models)
Blank raster and flyback lines when hot	Technical Bulletin CTV970204 (issued Feb 97)
Blank raster ( no sandcastle pulse)	D602
Tuner drift	Technical Bulletin CTV970806 (Issued Feb 97)



**Notes**

1. D609 & D610 may not read faulty.
2. Q601, IC201 & C601 are different devices in the 51cm than the larger models.
3. Before replacing IC201 ensure that 8V is present on all three supply pins (22,23 & 53)
4. The value of R706 in the 59CS05 & 66CS05 models is 0.33ohm.
5. CTV must be tuned to CH69 and receiving a signal before the IF PLL (ACF) is carried out.
6. For alternative 45V and Audio Mute circuits (??CS)3H models only) refer to ??CSO5H service manual.
7. Some exchange PWB will have a single 4 pin socket instead of two 2 pin sockets for the loudspeaker connections. Carefully trim the two 2 pin plug to enable them to fit into the single 4 pin socket.

\* These parts except for R707 & R720 are available as a kit.  
Part numbers are:

51 cm models                      **51 CSCHASSISKIT**  
59/66cm models                  **59 CSCHASSISKIT**

