

Date of Issue: 10/02/97

Classification: White

#### TELEVISION TECHNICAL BULLETIN

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59CS03H 66CS03H **MODELS** 51CS03H 66CS05H 51CS05H 59CS05H

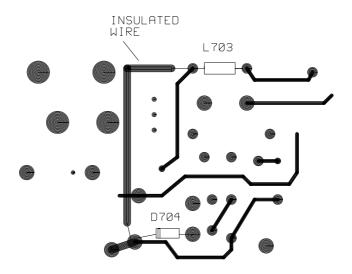
**SYMPTOM** The set remains in the standby mode.

**CAUSE** Crack on the PWB due to transport damage.

**ACTION** If there is no 300VDC across C708, then check the continuity between L703 and

the cathode of D704. If this is open circuit, fit a wire link between the two points

as indicated in the diagram below.



Location of wire link on the component side of the PWB





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

**SYMPTOM** If there is a failure of any component within the vertical deflection circuit or if a set comes in for service then carry out the improvement detailed below.

#### **ACTION**

- 1. Add a new diode (1N4148) from the emitter of Q509 to the cathode of D513, cathode of diode to the emitter of Q509.
- 2. Replace R534 with a 390R.
- 3. Solder a fuse (QFS-J1023CEZZ) in series with L607.
- 4. Solder a fuse (QFS-J1023CEZZ) in series with L608.

Refer to the diagrams given below.

REF NO	<u>DESCRIPTION</u>	PART NUMBER	PRICE CODE
-	Diode, 1N4148	RH-DX0045BMZZ	AA
R534	Resistor, 390R 1/10W	VRS-TV1JD331J	AA
-	Fuse, 1A	QFS-J1023CEZZ	AA





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59CS03H 66CS03H **MODELS** 51CS03H

51CS05H 59CS05H

**SYMPTOM** When used in a hot environment a bleeping sound may be heard from the speakers or

there is intermittent sound loss.

Pin 22 of IC301 floating. **CAUSE** 

**ACTION** Insert wire link between pin 22 of IC301 and ground as indicated in the diagram

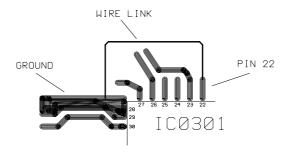
below.

To make the insertion of this link easier remove X301, fit wire, then replace

X301.

**REF NO DESCRIPTION PART NUMBER** PRICE CODE

Wire Link, 20mm VW7UGB0-020AA AA



Location of wire link on component side of PWB





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<u>MODELS</u> 51CS03H 51CS05H 59CS03H

59CS05H 59CSD8H 66CS03H

66CS05H 66CSD8H

**SYMPTOM** Intermittent sound. May be especially noticeable on channel change.

**<u>CAUSE</u>** Erratic response of the multi-standards processor, IC301.

**ACTION** Connect a 47nF, 63V polyester capacitor from pin 61 of IC301 to ground.

Use the part number given below for the capacitor.

<u>REF NO DESCRIPTION PART NUMBER PRICE CODE</u>

- Capacitor, 47nF 63V RC-FZ9473BMNJ AC





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

**SYMPTOM** Intermittent vertical linearity problems or partial loss of vertical scan.

CAUSE Failure of components in the vertical output stage.

**ACTION** Replace the following components in the vertical output stage:-

C506 and C507.

D501, D502, D507 and D512 Q507, Q508 and Q512

Use the part numbers given below for these parts.

Note that there are no part numbers in the service manual for C506 and C507. These are both 22nF SMD capacitors and should be sourced locally.

REF NO DESCRIPTION PART NUME	BER PRICE CODE
D501 Zener Diode, 18V RH-EX0558E	BMZZ AA
D502 Zener Diode, 18V RH-EX0558E	
D507 Diode, 1N4934 RH-DX0504E	BMZZ AA
D512 Diode, 1N4934 RH-DX0504E	BMZZ AA
Q507 Transistor RH-TX0147E	BMZZ AD
Q508 Transistor RH-TX0151E	BMZZ AD
Q512 Transistor RH-TX0150E	BMZZ AC

Sharp Electronics (UK) Limited CE Technical Support Group Originator AuW Supervisor Approval Date // Reference 98269HT





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MODELS 51CS03H 59CS03H 66CS03H

REASON From version 4 of this chassis, various changes have been made to the circuit.

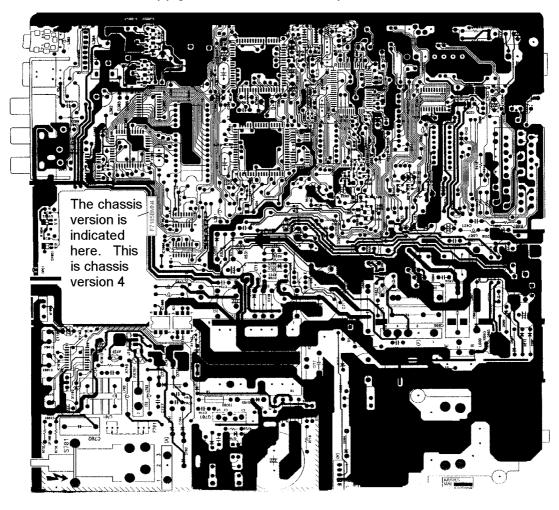
**ACTION** 

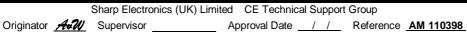
When servicing chassis versions 4 or greater (see diagram below) use the 51CS05H (Part number SEKL51CS05H/1) or the 59/66CS05H (Part number SEKT66CS05H/2) service manuals.

Changes to the 51CS03H, 59CS03H and 66CS03H circuitry are :-

- 1. An audio mute circuit now incorporated into the chassis.
- 2. R631 and R632 have been added in series to the vertical +/-13V supplies.

For the 59CS03H and 66CS03H only R628, D616 and D621 have been added to the +45V supply line from the line output transformer.









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MODELS	66CS03H	59CS03H	59CSD8H

**REASON** Due to a running change during production, the loudspeaker has been

changed for a smaller type.

**ACTION** When fitting the new, small speaker in place of the larger type, a holder has

to be fitted following the procedure outlined below.

1. Remove the old speaker.

2. Stick the adhesive foam to the speaker holder.

3. Fit the new speaker into the plastic holder.

4. Fit the new speaker and holder into the cabinet.

REF NO	DESCRIPTION	PART NUMBER	PRICE CODE
-	Loudspeaker	VSP1306PB067S	AR
-	Speaker holder	GBFL-1003BM00	AD
-	Adhesive foam	PMLT-1032BM00	AC





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MODELS 51CS03H 59CS03H 66CS03H

**SYMPTOM** If used in a hot environment, the picture can become saturated with red, green

or blue blanking lines.

**CAUSE** Build up of flux around transistors on the CRT Socket PWB, causing tracking

between them.

**ACTION** 1. Remove SMD transistors Q870, Q871 and Q872.

2. Clean the exposed areas with a bristle brush impregnated with alcohol.

3. Clean the SMD transistors with alcohol.

4. Replace the transistors.



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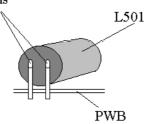
MODELS 51CS03H 59CS03H 66CS03H

**SYMPTOM** No or intermittent vertical output.

**CAUSE** Intermittent solder joint on L501.

**ACTION** Resolder joint on L501 as shown in the diagram below.

Resolder the joints on these pins



Points to resolder on L501





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51CS03H 51CS05H 59CS03H 59CS05H **MODELS** 

> **59CSD8H** 66CSD8H 66CS03H 66CS05H

**Symptom Possible Remedy** 

Dead no sound or vision)

Doda no count or vicion)	
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 (Issued Feb 97)
NICAM LED on or flashing (aerial disconnected)	See flowchart on page 2

HT rail present, no line drive, NICAM LED switches on for		Check R611 and IC201	
3-6 seconds then goes off (ariel disc	onnected)		
Keeps switching to standby		Check audio output stage for a short circuit	
HT rail missing-unsolder pin 2 of	0V	Power supply not running (check CTV is not in	
LOPTX and measure the HT rail		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		Q704 (low standby/sound 5V rail)	
models) burning		,	
Slow start up i.e. more than 3-6 seconds for		C714 (please ensure that this is replaced with the	
line oscillator to start depending on n	nodel	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

vortion on olagor unito	
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







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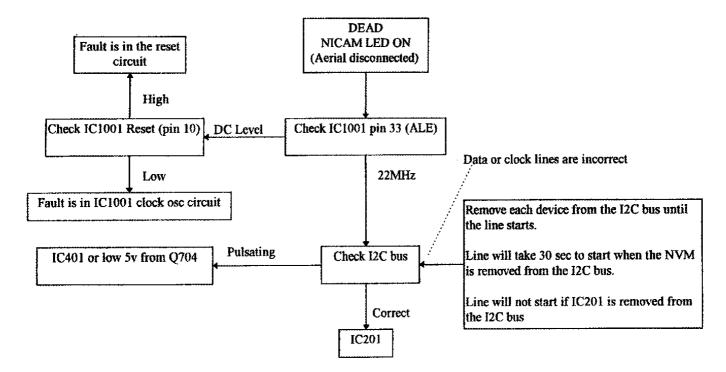
## TELEVISION TECHNICAL BULLETIN

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#### **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**

- D609 & D610 may not read faulty. 1.
- Q601, IC201 & C601 are different devices in the 51cm than the larger models. 2.
- Before replacing IC201 ensure that 8V is present on all three supply pins (22,23 & 53) 3.
- The value of R706 in the 59CS05 & 66CS05 models is 0.330hm. 4.
- CTV must be tuned to CH69 and receiving a signal before the IF PLL (ACF) is carried out. 5.
- For alternative 45V and Audio Mute circuits (??CS)3H models only) refer to ??CSO5H service manual. 6.
- 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 CSCHASSISKIT** 51 cm models 59/66cm models **59 CSCHASSISKIT** 







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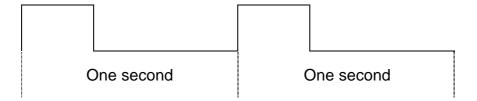
MODELS 51CS03H	51CS05H	59CS03H	59CS05H
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59CSD8H 66CS03H 66CS05H 66CSD8H

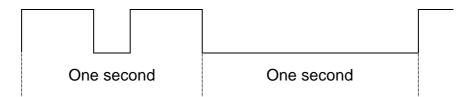
**SYMPTOM** During a fault condition, the NICAM LED may flash in a certain sequence to indicate where the fault lies.

**ACTION** The diagram below reprensents the NICAM LED flashing sequence to indicate which part of the circuit is fualty. Note that this facilty is only avialable on later CS chassis.

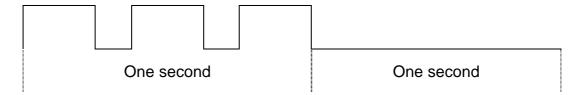
Vertical deflection failure detected: 66% ON / 33% OFF and OFF for a second.



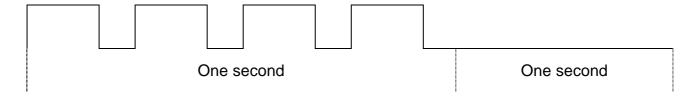
Unable to read or write into NVM: 66% ON / 33% OFF for two times and OFF for a second.



MSP failure: 66% ON / 33% OFF for three times and OFF for a second



Video IC failure: 66% ON / 33% OFF for four times and OFF for a sec.







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**MODELS** 51CS03H 51CS05H 59CS03H 59CS05H

> **59CSD8H** 66CS03H 66CS05H 66CSD8H

After the set has warmed up, the AFT circuit may become unstable. This leads to the SYMPTOM

set drifting off tune, either on one channel or all channels.

**CAUSE** Changes of tollerances in the AFT circuit.

Readjust the AFT circuit as descibed in the adjustment service manual. **ACTION** 

This is duplicated below for reference.

1. Place the set in the service mode.

2. Apply a colour bar pattern to the RF input at 855.25MHz.

3. Press the standby button on the remote control.

4. The set will now undertake the AFT adustment automatically.

5. Turn the set off by the mains switch to cancel the service mode.







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MODELS 51CS03H 51CS05H 59CS03H 59CS05H

59CSD8H 66CS03H 66CS05H 66CSD8H

**SYMPTOM** The receiver can suffer from any of the symptoms listed below.

- Intermittent failure of Q601
- Intermittent failure of Q701
- No start up
- Q601 running excessively hot

**ACTION** Fit the CS Chassis kit, details given below.

REF NO	DESCRIPTION	PART NUMBER	PRICE CODE
-	Kit for 51cm models	51CSCHASSISKIT	AT
-	Kit for 59/66cm models	59CSCHASSISKIT	AV

The kits in the parts list above contain the following parts, it is strongly recommended that ALL parts are fitted.

	51CSCHASSISKIT	59CSCHASSISKIT	<u>Note</u>
C601	RC-FZ0147BMZZ	RC-FZ0152BMZZ	
C604	RC-EZ0122BMZZ	RC-EZ0122BMZZ	High temperature type
C619	VCEAGA1JW107M	VCEAGA1JW107M	
C708	RC-FZ9683BMNJ	RC-FZ9683BMNJ	
C714	VCEAHA1AB108M	VCEAHA1AB108M	High temperature type
D609	RH-DX0503BMZZ	RH-DX0503BMZZ	
D610	RH-DX0504BMZZ	RH-DX0504BMZZ	
D718	RH-EX0419BMZZ	RH-EX0419BMZZ	
D720	RH-DX0045BMZZ	RH-DX0045BMZZ	
F701	QFS-C3226CEZZ	QFS-C3226CEZZ	
Q601	RH-TX0125BMZZ	RH-TX0144BMZZ	Different transistor for 51 and 59/66cm models
Q701	RH-TX0166BMZZ	RH-TX0166BMZZ	
Q702	RH-TX0102BMZZ	RH-TX0102BMZZ	
Q703	RH-TX0102BMZZ	RH-TX0102BMZZ	
R706	VRN-VV3ABR47J	VRN-VV3ABR47J	Not for 59CS05H or 66CS05H models
R706		VRN-VV3ABR33J	For 59CS05H and 66CS05H models only
R707	VRS-TV1JD221J	VRS-TV1JD221J	

#### Notes:

Check the scan coils and scan coil plug for dry joints.

Ensure that the resistor next to C604 (R638) is at least 5mm away from the body of the capacitor. R706 is 0.33 Ohms in the 59CS05H and 66CS05H.

The schematic diagrams on page 2 are based on the 59CSD8H.



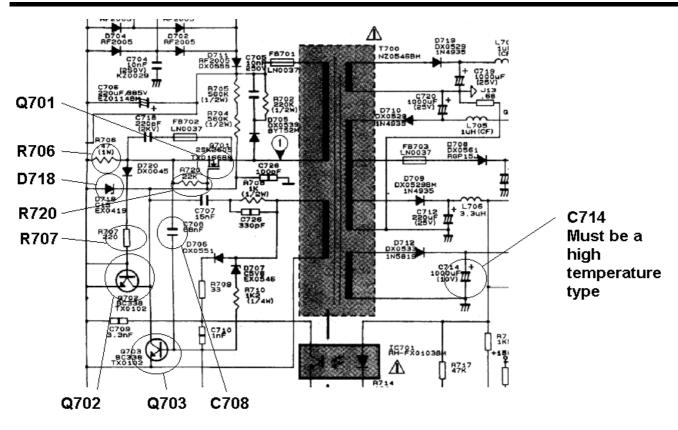




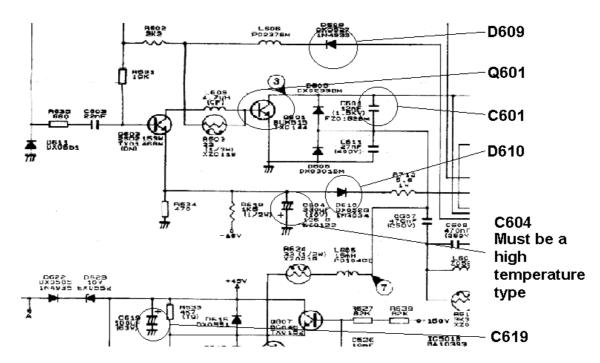
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Schematic Diagram Showing the Location of Components in the Power Supply



Schematic Diagram Showing the Location of Components in the Line Stage





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MODELS 51CS03H 51CS05H 59CS03H 59CS05H

66CS03H 66CS05H

**SYMPTOM** Doming caused by high beam current in limited areas of the CRT shadowmask

causing short term purity errors.

**ACTION** Reduce the customer brightness and contrast settings to a point at which doming does

not appear.

Note that these levels then need to be stored while in the user picture set up menu.





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<u>MODELS</u>	51CS03H	51CS03IR	51CS05H	59CS03H
	59CS03IR	59CS05H	59CSD8H	66CS03H
	66CS03IR	66CS05H	66CSD8H	

#### **SYMPTOM**

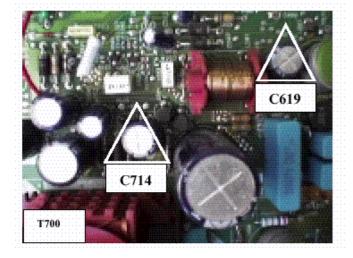
- Slow start up
- Intermittent text
- Intermittent OSD rolling
- Intermittent height problems
- Poor vertical linearity (cramping top or bottom of the picture)
- Intermittent failure on the line output transistor.

Failure of C604, C619 and/or C714. **CAUSE** 

**ACTION** Replace the capacitors with high temperature types.

Please use the part numbers listed below.

REF NO	DESCRIPTION	PART NUMBER	PRICE CODE
C604	Capacitor 330μF, 10V 105°C	VCEAHA1AN337M	AB
C619	Capacitor 100μF, 63V 105°C	VCEAHA1JN107M	AC
C714	Capacitor 1000μF, 10V 105°C	VCEAHA1AN108M	AD



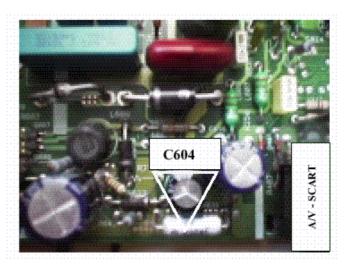


FIG 1 FIG 2





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MODELS 51CS03H 51CS05H 59CS03H 59CS05H

59CSD8H 66CS03H 66CS05H 66CSD8H

**SYMPTOM** A bright line appears at the top of the frame (approximately one-inch down) if it is

adjusted correctly. Usually the customer complains that the frame has come down about half an inch at the top of the picture (no fold over). This cannot be removed by

adjustment.

**CAUSE** Failure of C512 or C517.

ACTION Replace C512 and C517 (22uF, 25V).



Reference JC03032000-2 Revision 1





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## **TELEVISION TECHNICAL BULLETIN**

MODELS 51CS03H 51CS05H 59CS03H 59CS05H

59CSD8H 66CS03H 66CS05H 66CSD8H

**SYMPTOM** No or intermittent sound.

**CAUSE** D333 breaking down intermittently.

**ACTION** Replace D333 using the part number given below.

REF NO PART NUMBER DESCRIPTION PRICE CODE

D333 RH-EX0544BMZZ Zener diode, 4.7V AA



Reference GGN31032000-1 Revision 1





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**MODELS** 51CS03H 51CS05H 59CS03H 59CS05H

> 59CSD8H 66CS03H 66CS05H 66CSD8H

- **SYMPTOM** 1. Intermittent failure of one or both of the vertical supply line fuses (R631 and R632).
  - 2. Frame rises up when warm until there is a large black band at the bottom of the screen. This can eventually lead to the 'rainbow effect' at the top of the screen.
  - 3. Line tripping (same symptom when the Megatext IC goes faulty).
  - 4. Slow to come out of standby.

Breakdown of Q707, causing variation of the main 5V supply rail to the vertical stage CAUSE

and Megatext IC.

This problem can be checked by measuring the voltage at the emitter of Q707 during ACTION

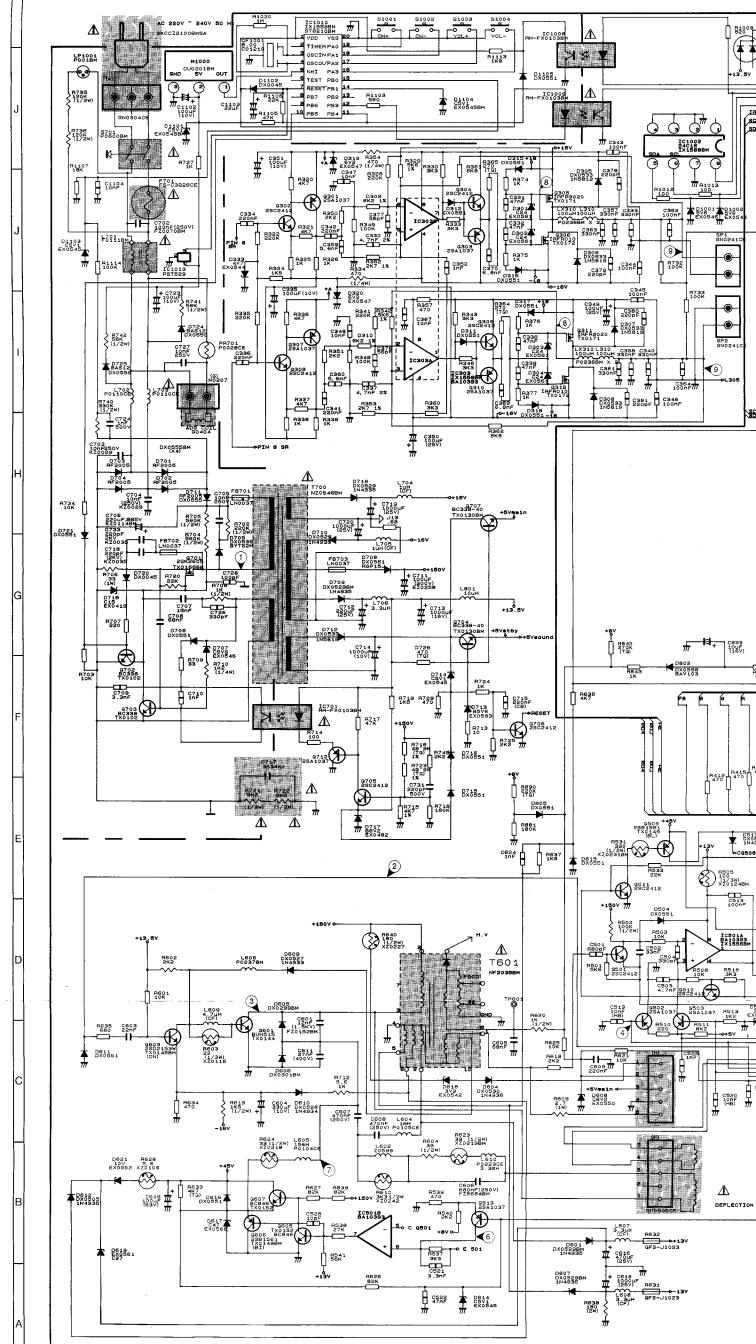
the fault condition.

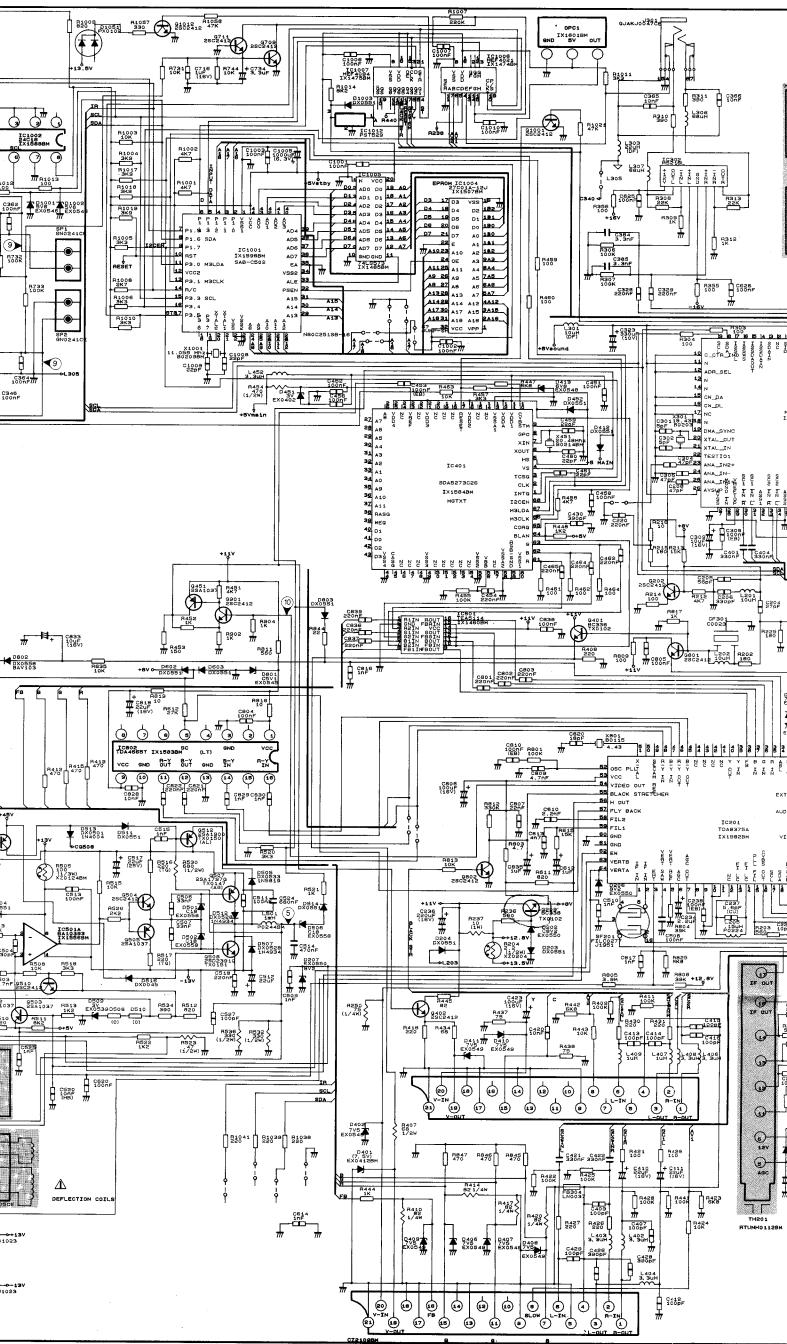
Note that Q707 can fail when C714 is replaced, so it is recommended that C714 is

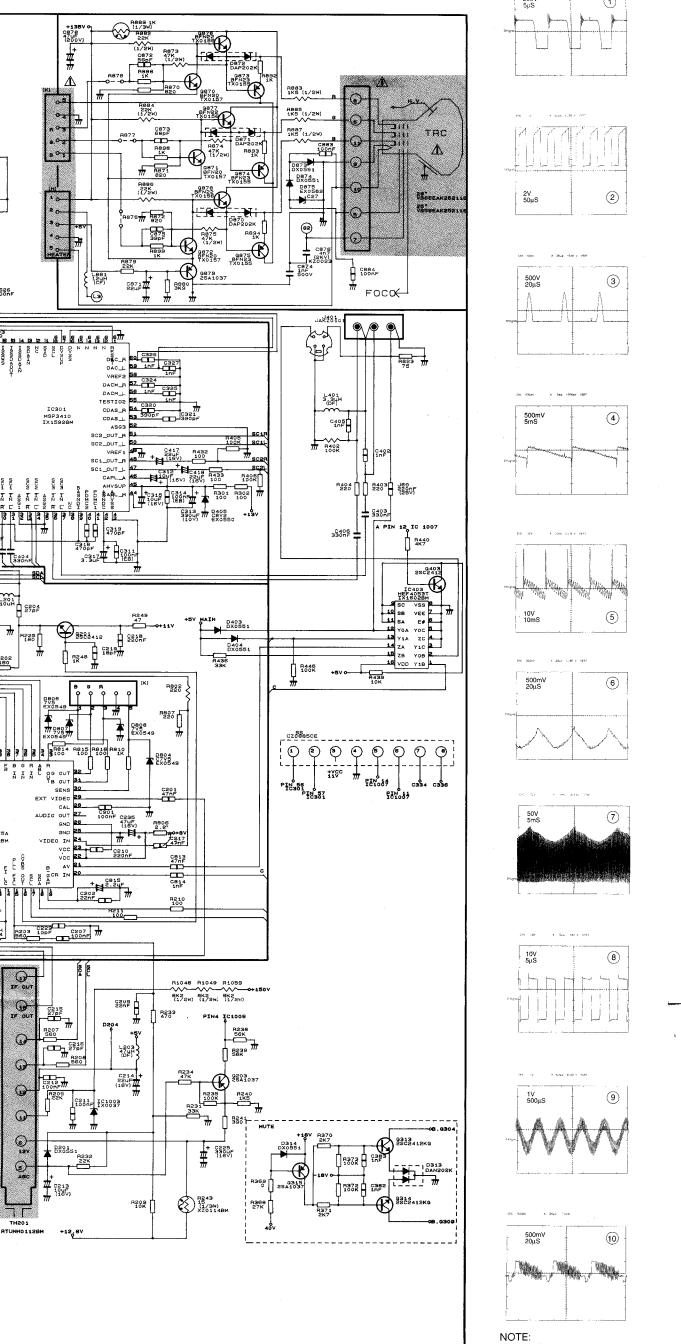
changed at the same time as Q707.

REF NO	DESCRIPTION	PART NUMBER	PRICE CODE
Q707	Transistor, BC338-40	RH-TX0218BMZZ	AB
C714	Capacitor, 1000μF 10V 105°C	VCEAHA1AB108M	AD











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51CS03H 51CS05H 59CS03H 59CS05H **MODELS** 

> **59CSD8H** 66CSD8H 66CS03H 66CS05H

**Symptom Possible Remedy** 

Dead no sound or vision)

Doda no count or vicion)	
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 (Issued Feb 97)
NICAM LED on or flashing (aerial disconnected)	See flowchart on page 2

HT rail present, no line drive, NICAM		Check R611 and IC201				
3-6 seconds then goes off (ariel disc	onnected)					
Keeps switching to standby		Check audio output stage for a short circuit				
HT rail missing-unsolder pin 2 of	0V	Power supply not running (check CTV is not in				
LOPTX and measure the HT rail		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		Q704 (low standby/sound 5V rail)				
models) burning		,				
Slow start up i.e. more than 3-6 seco	nds for	C714 (please ensure that this is replaced with the				
line oscillator to start depending on n	nodel	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

vortion on olagor unito	
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







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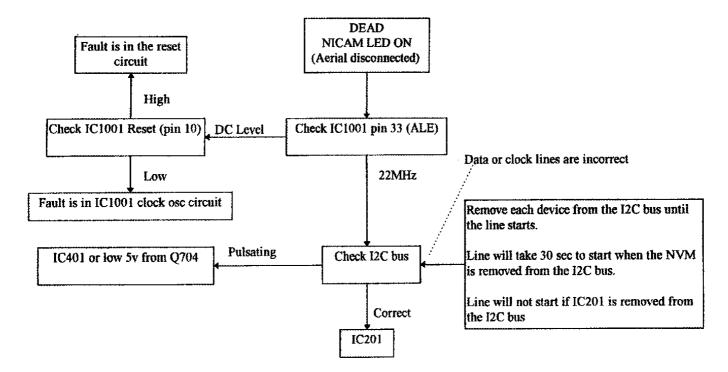
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#### **Symptom Possible Remedy**

#### **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**

- D609 & D610 may not read faulty. 1.
- Q601, IC201 & C601 are different devices in the 51cm than the larger models. 2.
- Before replacing IC201 ensure that 8V is present on all three supply pins (22,23 & 53) 3.
- The value of R706 in the 59CS05 & 66CS05 models is 0.330hm. 4.
- CTV must be tuned to CH69 and receiving a signal before the IF PLL (ACF) is carried out. 5.
- For alternative 45V and Audio Mute circuits (??CS)3H models only) refer to ??CSO5H service manual. 6.
- 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 CSCHASSISKIT** 51 cm models **59 CSCHASSISKIT** 59/66cm models



				<del></del>	I	<u> </u>	Τ.		-
			S LIST MENT PARTS		REF. NO	PART NO.	*	DESCRIPTION	CODE
			IC 1012	VHIPST529C2-1	S		AD		
Replac	Replacement parts which have special safety characteristics are identified in this manual. Electrical components having such fea-					VHIPST529C2-1	S	i	AD
tures are identified by " $\triangle$ " in the Replacement Parts Lists.					OPC0001	RH-JX1601BMZZ	S	TSL235	AH
The us	The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended is not							TRANSISTORS	
permit	ted. Replacement pa	ırts	not shown in this service m	is not anual	Q 0201	VS2SC2412KQ-1	Ts	2SC2412	AA
may cr	reate shock, fire or of	her	hazards.		Q 0202	VS2SC2412KQ-1	5		AA
İ			<b></b>		Q 0203	VS2SA1037KQ-1	s	BC807	AA
	"HOW TO ORDE	RR	EPLACEMENT PARTS"		Q 0209 Q 0301	RH-TX0102BMZZ VS2SA1037KQ-1	S		AB
To hav	e your order comple	ted	promptly and correctly, ple	ase	Q 0301	VS2SC2412KQ-1	S	BC807 2SC2412	AA AA
supply	the following inform	atio	on.		Q 0303	VS2SA1037KQ-1	S	BC807	AA
İ	1. MODEL NUMBER	₹	2. REF. NO.		Ω 0304	VS2SC2412KQ-1	S	2SC2412	AA
	3. PART NO.		4. DESCRIPTION		Q 0305 Q 0306	RH-TX0171BMZZ RH-TX0172BMZZ	S	IRFR9020 IRFR010	AD
	5. CODE		6. QUANTITY		Q 0307	VS2SA1037KQ-1	\$	BC807	AD AA
	+ MARK: SPARE I	PΔR	TS DELIVERY SECTION		Q 0308	VS2SC2412KQ-1	s	2SC2412	AA
		_			Q 0309	VS2SC2412KQ-1	S	2SC2412	AA
REF. NO.	PART NO.	*	DESCRIPTION	CODE	Q 0310 Q 0311	VS2SA1037KQ-1 RH-TX0171BMZZ	S	BC807 IRFR9020	AA AD
	PIC	TUI	RE TUBE		Q 0312	RH-TX0172BMZZ	s	IRFR101	AD
_					Q 0313	VS2SC2412KQ-1	S	2SC2412	AA
	VB59EAK7111*N	s		cw	0.0314	V\$2\$C2412KQ-1	S	2SC2412	AA
Δ	VB66EAK7111*N	S		CW	Q 0315 Q 0401	VS2SA1037KQ-1 RH-TX0102BMZZ	S	BC807 BC338	AA AB
	CCILG0403BMV0	S	Degaussing Coil 25" Degaussing Coil 28"	AT AV	Q 0402	VS2SC2412KQ-1	s	2\$C2412	AA
			Bagadasing con 20	_ ^v	Q 0403	VS2SC2412KQ-1	s	2SC2412	AA
	PRINTED WIRIN	JG E	OARD ASSEMBLIES		Q 0451 Q 0501	VS2SA1037KQ-1 VS2SC2412KQ-1	S	BC807	AA
D) A (D) A					Q 0502	VS2SC2412KQ-1 VS2SA1037KQ-1	S	2SC2412 BC807	AA AA
PWB-A	DUNTK7206CJV4 DUNTK7206CJV2	S S	Mother Unit 59CS05H Mother Unit 66CS05H	_	Q 0503	VS2SA1037KQ-1	S	BC807	AA
PWB-B	DUNTK72078MV4	S	Socket Unit 59CS05H		Q 0504	VS2SC2412KQ-1	S	2SC2412	AA
	DUNTK7207BMV2	s	Socket Unit 66CS05H	- 1	Q 0505 Q 0507	VS2SA1037KQ-1 RH-TX0147BMZZ	S	BC807 2SA1797T100/Q	AA
PWB-C	DUNTK7196BMV0	s	SRS Unit	,	Q 0508	RH-TX0151BMZZ	S	2SD2391Q	AD AD
PWB-A			MOTHER UNIT		Q 0509	RH-TX0149BMZZ	s	2SB1561	AD
			WOTTEN GIVIT		Q 0510	V\$2\$C2412KQ-1	S	2SC2412	AA
·			TUNER		Q 0511 Q 0512	VS2SC2412KQ-1 RH-TX0150BMZZ	S	2SC2412 2SA1900T100/Q	AA AC
			parts shown here are suppli	ed	Q 0513	VS2SA1037KQ-1	s	BC807	AA
	as an a	sser	nbly but not separately.		Q 0601	RH-TX0144BMZZ	S	BUH 515	AK
TH 0201	RTUNH0112BMZZ	s	Tuner	BD	Q 0603 Q 0605	RH-TX0146BMZZ RH-TX0152BMZZ	S	2SD2153T100/W BC846BLT1	AD
	<u> </u>	۰		·	Q 0606	RH-TX0149BMZZ	S	2SB1561	AA AD
	T		INTEGRATED CIRCUITS		Q 0607	RH-TX0152BMZZ	S	BC846BLT1	AA
IC 0201	RH-IX1582BMZZ	s	TDA 8375A	BB .	Q 0701	RH-TX0166BMZZ	S	2SK2605	AK
IC 0301	RH-IX1592BMZZ	S	MSP3400C-PS-C6	BA	Q 0702 Q 0703	RH-TX0102BMZZ RH-TX0102BMZZ	S	BC338 BC338	AB AB
IC 0302 IC 0303	VHIM5218L//-1 RH-IX1556BMZZ	S	M5218L BA10393	AF i AD	Q 0704	RH-TX0130BMZZ	S	BC338-40	AB
IC 0401	RH-JX1584BMZZ	s	MGTEXT SDA5273C26	AN	Q 0705	VS2SC2412KQ-1	S	2SC2412	AA
	RH-IX1602BMZZ	S	HEF4053	AE	Q 0706 Q 0707	V\$2SC2412KQ-1 RH-TX0130BMZZ	S	2SC2412 BC338-40	AA
IC 0501 A IC 0701	RH-IX1556BMZZ RH-FX0103BMZZ	S	BA10393S0P8	AD	Q 0709	VS2SC2412KQ-1	S	2SC2412	AB AA
IC 0801	RH-IX1460BMZZ	S	OPTOCOUPLER MOC8105SR2V TEA 5114A	AD AL	Q 0711	VS2SC2412KQ-1	s	2SC2412	AA
IC 0802	RH-IX1583BMZZ	s	TDA 4665T	AM	Q 0712	VS2SA1037KQ-1	S	BC807	AA
IC 1001	RH-IX1598BMZZ	S	SAB-C502	AX	Q 0801 Q 0802	VS2SC2412KQ-1 VS2SC2412KQ-1	S	2SC2412 2SC2412	AA AA
IC 1002 IC 1003	RH-IX1588BMZZ RH-IX0037CEZZ	S	NVM 24C16 UPC574J 33V	AQ AD	Q 0901	V\$2SC2412KQ-1	S	2SC2412	AA
IC 1003	CH-IX1507CJHA	S	EPROM 59CS-05H	AQ	Ω 1001	VS2SC2412KQ-1	s	2SC2412	AA
IC 1004	CH-IX1507CJH6	S	EPROM 66CS-05H	ΑK	Q 1012	V\$2\$C2412KQ-1	S	2SC2412	AA
IC 1005	RH-IX1485BMZZ	S	SN74ALS 573	AK			ш	DIODES	
IC 1006 IC 1007	RH-IX1474BMZZ RH-IX1475BMZZ	S	HEF4021BT HEF4094BT	AE AE			,		
△ IC 1008	RH-FX0103BMZZ	\$	MOC8105\$R2V	AD	D 0201	RH-DX0551BMZZ	\$	LL4148	AA
△IC 1009	RH-FX0103BMZZ	S	MOC8105SR2V	AD	D 0202	RH-EX0550BMZZ	s	Zener 8.2V	AA
IC 1010	RH-IX1559BMZZ	S	ST6210BM	AU	D 0203	RH-DX0551BMZZ	\$	LL4148	AA

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REF. NO.	PART NO.	*	DESCRIPTION	CODE	REF. NO.	PART NO.	*	DESCRIPTION	CODE
D 0204	RH-DX0551BMZZ	s	LL4148	AA	D 0621	RH-EX0552BMZZ	s	Zener 10V	AB
D 0206	RH-EX0550BMZZ	s	Zener 8.2V	AA	D 0701	RH-DX0555BMZZ	s	RF2005	AB
D 0207	RH-EX0550BMZZ	s	Zener 8.2V	AA	D 0702	RH-DX0555BMZZ	s	RF2005	AB
D 0301	RH-EX0561BMZZ	S	Żener 24V	AA	D 0703	RH-DX0555BMZZ	S	RF2005	AB
D 0302	RH-EX0561BMZZ	S	Zener 24V	AA	D 0704	RH-DX0555BMZZ	s	RF2005	. AB
D 0303	RH-EX0561BMZZ	S	Zener 24V	AA	D 0705	RH-DX0539BMZZ	S	BYT52M	AC
D 0304	RH-EX0561BMZZ	S	Zener 24V	AA	D 0706	RH-DX0551BMZZ	S	LL4148	AA
D 0305	RH-DX0533BMZZ	S	1N5819	AD	D 0707	RH-EX0546BMZZ	S	Zener 5.6V	AA
D 0306	RH-DX0533BMZZ	S	1N5819	AD	D 0708	RH-DX0561BMZZ	S	RGP15J	AD
D 0307	RH-DX0533BMZZ	S	1N5819	ΑĎ	D 0709	RH-DX0529BMZZ	S	1N4935	AB
D 0308	RH-DX0533BMZZ	S	1N5819	ΑĎ	D 0710	RH-DX0529BMZZ	S	1N4935	AB
D 0311	RH-DX0551BMZZ	S	LL4148	AA	D 0711	RH-DX0555BMZZ	S	RF2005	AB
D 0312	RH-DX0551BMZZ	S	LL4148	AA	D 0712	RH-DX0533BMZZ	S	1N5819	AD
D 0313	VHDDAN202K/-1	S	DAN 202K	AB	D 0713	RH-EX0583BMZZ	S	Zener 5.6V 2%	AA
D 0314	RH-DX0551BMZZ	S	LL4148	AA	D 0714	RH-EX0545BMZZ	S	Zener 5.1V	AA
D 0315	RH-DX0551BMZZ	\$	LL4148	AA	D 0715	RH-DX0551BMZZ	S	LL4148	AA
D 0316	RH-DX0551BMZZ	S	LL4148	AA	D 0716	RH-DX0551BMZZ	S	LL4148	AA
D 0317	RH-DX0551BMZZ	S	LL4148	AA	D 0717	RH-EX04828MZZ	S	Zener BZX79 B6.2V	AA
D 0318	RH-DX0551BMZZ	S	LL4148	AA	D 0718	RH-EX04198MZZ	S	Zener BZX79C15V	AB
D 0319	RH-EX0547BMZZ	S	Zener 6.2V	AB	D 0719	RH-DX0529BMZZ	S	1N4935	AB
D 0320	RH-EX0547BMZZ	S	Zener 6.2V	AB	D 0720	RH-DX0045BMZZ	S	1N4148	AA
D 0333	RH-EX0544BMZZ	S	Zener 4.7V	AA	D 0721	RH-DX0551BMZZ	S	LL4148	AA
D 0401	RH-EX0412BMZZ	S	Zener 7.5V	AA	D 0724	RH-DX0559BMZZ	S	BAS12	AC
D 0402	RH-EX0549BMZZ	S	Zener 7.5V	AA AA	D 0725	RH-DX0559BMZZ	S	BAS12	AC
D 0403	RH-DX0551BMZZ	S	LL4148	AA	D 0801	RH-EX0545BMZZ	\$	Zener 5.1V	AA
D 0404 D 0405	RH-DX0551BMZZ	S	LL4148 Zener 8.2V	AA	D 0802	RH-DX0558BMZZ	S	BAV103	AA AA
D 0406	RH-EX0550BMZZ RH-EX0549BMZZ	S	Zener 7.5V	AA	D 0803	RH-DX0551BMZZ RH-EX0549BMZZ	S	LL4148 Zener 7.5V	AA
D 0408	RH-EX0549BMZZ	s	Zener 7.5V	AA	D 0804 D 0805	RH-DX0551BMZZ	S	LL4148	AA
D 0408	RH-EX0549BMZZ	S	Zener 7.5V	AA	D 0806	RH-EX0549BMZZ	S	Zener 7.5V	AA
D 0409	RH-EX0549BMZZ	s	Zener 7.5V	AA	D 0807	RH-EX0549BMZZ	S	Zener 7.5V	AA
D 0410	RH-EX0549BMZZ	s	Zener 7.5V	AA	D 0808	RH-EX0549BMZZ	S	Zener 7.5V	AA
D 0411	RH-EX0549BMZZ	s	Zener 7.5V	AA	D 1001	RH-EX0546BMZZ	\$	Zener 5.6V	AA
D 0411	RH-EX0551BMZZ	s	LL4148	AA	D 1001	RH-EX0546BMZZ	S	Zener 5.6V	AA
D 0413	RH-EX0548BMZZ	s	Zener 6.8V	AA	D 1002	RH-DX0551BMZZ	5	LL4148	AA
D 0451	RH-EX0402BMZZ	s	Zener 3.0V	AB	D 1051	RH-PX0102BMZZ	s	LED	AC
D 0452	RH-DX0551BMZZ	s	LL4148	AA	D 1101	RH-EX0545BMZZ	s	Zener 5.1V	AA
D 0501	RH-EX0558BMZZ	s	Zener 18V	AA	D 1102	RH-DX0045BMZZ	s	1N4148	ДД
D 0502	RH-EX0558BMZZ	s	Zener 18V	AA	D 1103	RH-EX0545BMZZ	s	Zener 5.1V	AA
D 0504	RH-DX0551BMZZ	s	LL4148	AA	D 1104	RH-EX0545BMZZ	s	Zener 5.1V	l AA
D 0505	RH-DX0533BMZZ	s	1N5819	AD	D 1105		s	LL4148	AA
D 0506	RH-EX0558BMZZ	s	Zener 18V	AA					
D 0507	RH-DX0528BMZZ	S	1N4934	AA				PACKAGED CIRCUIT	
D 0509	RH-DX0539BMZZ	s	Zener 3V	AB			, <u>.</u>	TACKAGED CITCOTT	
D 0511	RH-DX0551BMZZ	S	LL4148	AA	PR 0701	RMPTP0028CEZZ	s	PTC	AG
D 0512	RH-DX0528BMZZ	\$	1N4934	AA	X 0301	RCRSB0203BMZZ	s	Crystal 18,432 MHz	AG
D 0513	RH-DX0501BMZZ	S	1N4004	AA	X 0451	RCRSB0214BMZZ	S	Crystal 20.48 MHz	AH
D 0514	RH-DX0551BMZZ	S	LL4148	AA	X 0801	RCRSB0115BMZZ	s	Crystal 4.43 MHz	AG
D 0516	RH-DX0045BMZZ	S	1N4148	AA	X 1001		s	Crystal 11.0592 MHz	AG
D 0601	RH-DX0529BMZZ	\$	1N4935	AB		11011000200011122	Ľ	01,0101 111000 11111	
D 0602	RH-DX0551BMZZ	S	LL4148	AA	ŀ			COILS	
D 0603	RH-DX0551BMZZ	S	LL4148	AA		,			
D 0604	RH-DX05308MZZ	S	1N4936	AA	•				
D 0605	RH-DX0299BMZZ	S	BY228-20	AE	L 0201	VP-NM100KR42N	S	10 μΗ	AC
D 0606	RH-DX0301BMZZ	S	BY299	AD	L 0202	VP-NM100KR42N	S	10 μΗ	AC
D 0607	RH-DX0529BMZZ	S	1N4935	AB	L 0203	VP-DF470K0000	S	47 μH	AB
D 0608	RH-EX0550BMZZ	S	Zener 8.2V	AA	L 0205	RCILP02248MZZ	\$	40.11	AE
D 0609	RH-DX0527BMZZ	S	1N4933	AA	L 0301	VP-DF100K0000	S	10 µН	AB
D 0610	RH-DX0528BMZZ	S	1N4934	AA	L 0306	VP-NM680K3R5N	S		AC
D 0611	RH-DX0551BMZZ	S	LL4148	AA	L 0307	VP-NM680K3R5N	S		AC
D 0612	RH-DX0505BMZZ	\$	1N4935	AB	L 0310	RCILP0236BMZZ	S		! AQ
D 0614	RH-EX0545BMZZ	S	Zener 5.1V	AA	L 0311	RCILP0236BMZZ	S		AQ
D 0615	RH-DX0551BMZZ	S	LL4148	AA	L 0312	RCILP0236BMZZ	S		AQ
D 0616	RH-DX0551BMZZ	S	LL4148 7	AA	L 0313 L 0401	RCILP0236BMZZ VP-DF3R3K0000	S	3.3 µH	AQ
D 0617	RH-EX0568BMZZ	S	Zener 47V	AA	L 0401	VP-NM1R0MR10N	S	3.3 μπ   1 μ <b>H</b>	AB AB
D 0618 D 0619	RH-EX0542BMZZ	S	Zener 3.9V Zener 27V	AA	L 0402	VP-NM1R0MR10N	\$	1 μH	AB
D 00 19	RH-EX0562BMZZ	T,	20101274	<u> </u>	L 0404	1		' r''	1,70

		T."		TION:	000-	DEE NO	DART NO		DECORPTION	CODE
REF. NO.	PART NO.	*	DESCRIP	'HON	CODE	REF. NO.	PART NO.	*	DESCRIPTION	
L 0406	VP-NM1R0MR10N	s	1 μΗ		AB		RC-FZ0070BMZZ	S	0.1 250V Mylar	AD
L 0407	VP-NM1R0MR10N	s	1 μΗ		ΑB		RC-KZ0029CEZZ	s	0.01 250V Ceramic	AC
L 0408	VP-NM1R0MR10N	s	1 μΗ		AB		RC-KZ0029CEZZ	S	0.01 250V Ceramic	AC
L 0409	VP-NM1R0MR10N	S	<b>1</b> μΗ		AB	C 0705	RC-KZ0029CEZZ	S	0.01 250V Ceramic	AC
L 0452	VP-NM3R3MR19N	S	3.3 µH		AC		RC-EZ0114BMZZ	S	220 385V Electrolytic	AS
L 0501	RCILP0244BMZZ	S			AE 1	C 0707	RC-FZ9153BMNJ	J,	0.015 63V Mylar	AB AB
L 0602	RCILP0599CEZZ	S	Delay Line		AG	C 0708 C 0711	RC-FZ9683BMNJ RC-EZ0258CEZZ	J S	0.068 63V Mylar 100 200V Electrolytic	AH
L 0604	RCILP0105CEZZ	S			AG AG	C 0711	VCEAGA1EW227M	S	220 25V Electrolytic	AC
L 0605	RCILP0104CEZZ RCILP0237BMZZ	S S			AG AD	C 0713	VCEAGA1CW108M	s	1000 16V Electrolytic	AD
L 0606	VP-CF3R3K0000	S	3.3 μΗ		AB	C 0714	VCEAGA1AW108M	s	1000 10V Electrolytic	AC
L 0607 L 0608	VP-CF3R3K0000	s	3.3 μΗ		AB	△C 0717	RC-KZ0156CEZZ	s	3300p 4kV Ceramic	AD
L 0609	VP-CF4R7K0000	S	4.7 μH		AB	C 0718	RC-KZ0035CEZZ	s	220p 2kV Ceramic	AC
L 0610	RCILP0223CEZZ	s	Peak Coil		AD	C 0719	VCEAGA1EW108M	\$	1000 25V Electrolytic	AD
△ L 0701	RCILZ0111BMZZ	s	Line Filter		AL	C 0720	VCEAGA1EW108M	s	1000 25V Electrolytic	AD
L 0702	RCILP0110CEZZ	s			AD	C 0723	VCEAGA1AW107M	s	100 10V Electrolytic	AA
L 0703	RCILP0110CEZZ	s			AD	C 0724	VCKYPA2HB102K	s	1000p 500V Ceramic	AA
L 0704	VP-CF1R0K0000	s	1 μΗ		AB	C 0727	RC-KZ0029CEZZ	S	0.01 250V Ceramic	AC
L 0705	VP-CF1R0K0000	s	1 μΗ		AB	C 0733	RC-KZ0035CEZZ	S	220p 2kV Ceramic	AC
L 0706	VP-NM3R3MR19N	S	3.3 μΗ		AC	C 0806	VCEAGA1CW107M	\$	100 16V Electrolytic	AB
L 0801	VP-NM100KR42N	S	10 μΗ		AC	C 1005	VCEAGAOJW108M	S	1000 6.3V Electrolytic	AB
<u>                                     </u>			CERAMIC FILT	rers		C 1102	VCEAGA1AW107M	S	100 10V Electrolytic	AA
		1.				RESISTORS				
CF 0301	RFILC0023CEZZ	S	Filter		AE	ļ				<del></del>
CF 1001	RFILC0121GEZZ	S	Filter CST8.01		AD	R 0204	RR-XZ0204BMZZ	s	2.2 1/2W Fuse Resistor	AB
SF 0201	RFILC0277BMZZ	S	Saw Filter G1	951T901	AM	R 0237	VRS-PU3AB100J	ş	10 1W Metal Oxide	AA
		.!		FD0		R 0243	RR-XZ0114BMZZ	Ş	15 1/3W Fuse Resistor	AB
]			TRANSFORM	ERS		R 0364	VRS-TQ2BD271J	S	1K 1/8W Metal Oxide	AA
A		1_	-n-		5.0	R 0365	VRS-TQ2BD271J	S	1K 1/8W Metal Oxide	AA
△ T0601	RTRNF2035BMZZ	S	F.B.T.		BC AQ	R 0505	RR-XZ0124BMZZ	s	100 1/3W Fuse Resistor	AA AB
△ T0700	RTRNZ0546BMZZ	S	Chopper		Au	R 0531	RR-XZ0231BMZZ	S	390 1/2W Fuse Resistor	AB
1			CAPACITORS	}		R 0603	RR-XZ0116BMZZ	S	22 1/3W Fuse Resistor	AA
		<u>,</u>	S 7 CO 7 OTT			R 0609	VRN-VV3AB2R7J	S	2.7 1W Metal Oxide	AB
C 0225	VCEAGA1CW337M	s	330 16V	Electrolytic	AC	R 0610	RR-XZ0242BMZZ	S	3.3K 1/2W Fuse Resistor 39 1/2W Fuse Resistor	AB
C 0225	VCEAGA1CW227M	s	220 16V	Electrolytic	AC	R 0623	RR-XZ0219BMZZ	S	39 1/2W Fuse Resistor 33 1/2W Fuse Resistor	AB
C 0237	VCCUTV1HJ5R6C	s	5.6p 50V	Ceramic	AA	R 0624 R 0628	RR-XZ0218BMZZ RR-XZ0109BMZZ	S	5.6 1/3W Fuse Resistor	AB
C 0313	VCEAGA1AW337M	s	330 10V	Electrolytic	AB	R 0631	QFS-J1023CEZZ	S	1A 125V Fuse	ÄA
C 0323	VCEAGA1AW337M	s	330 10V	Electrolytic	AB	R 0632		S	1A 125V Fuse	AA
C 0335	VCEAGA1AW107M	s	100 10V	Electrolytic	AB		VRS-VV3DB181J	s	180 2W Metal Oxide	AA
C 0349	VCEAGA1EW107M	s	100 25V	Electrolytic	AB	R 0640	RR-XZ0227BMZŽ	s	180 1/2W Fuse Resistor	AB
C 0350	VCEAGA1EW107M	S	100 25V	Electrolytic	AB	R 0706	VRN-VV3ABR33J	s	0.33 1W Metal Film	AA
C 0351	VCEAGA1AW107M	\$	100 10V	Electrolytic	AB	R 0712		s	5.6 1W Metal Film	AA
C 0401	RC-FZ9334BMNJ	J	0.33 63V	Mylar	AC	R 0721	VRC-UA2HG825K	s	8.2M 1/2W Solid	AA
C 0403	RC-FZ9334BMNJ	J	0.33 63V	Mylar	AC	△ R 0722	VRC-UA2HG825K	S	8.2M 1/2W Solid	AA
C 0404	RC-FZ9334BMNJ	J	0.33 63V	Mylar	AC	<b>△</b> R 0723	VRSTQ2BD4992F	s	49.9K1/4W Metal Oxide	I AA
C 0406	RC-FZ9334BMNJ	J.	0.33 63V	Mylar	AC	R 0836	i .	S	47 1/3W Fuse Resistor	AB
C 0421	RC-FZ9334BMNJ	J	0.33 63V	Mylar	AC	R 0842	1	s	270K 1/8W Metal Oxide	AA AA
C 0422	RC-FZ9334BMNJ	J	0.33 63V	Mylar Electrolytic	AC AB	R 0890	VRS-TQ2BD224J	S	220K 1/8W Metal Oxide	**
C 0423	VCEAGA1CW107M	S	100 16V	Electrolytic Mular	AB	L	<u> </u>	Ц	<u></u> .	
C 0502	RC-FZ9333BMNJ RC-FZ9104BMNJ	1	0.22 63V 0.1 63V	Mylar Mylar	AB				MISCELLANEOUS PARTS	
C 0508	RC-FZ91048MNJ	j	0.1 63V 0.47 63V	Mylar Mylar	AD			Т	T	
C 0514 C 0524	RC-FZ9684BMNJ	S	0.47 63V 0.68 63V	Mylar	AD	1	QSQCN0502CEZZ	s		AC
C 0601	RC-FZ0152BMZZ	s	0.03 03V 0.012 1,5kV	Mylar	AE		QSOCN0660BMZZ	S		AD
C 0603	RC-FZ9223BMNJ	IJ	0.022 63V	Mylar	AB		QTIPM0008CEZZ	S		AA
C 0604	VCEAGA1AW337M	s	330 10V	Electrolytic	AB		QFSHD1009CEZZ	S	ł .	AA AB
C 0605	RC-FZ9683BMNJ	J	0.068 63V	Mylar	AB		QFSHD1010CEZZ QJAKZ0014BMZZ	S	I .	AM
C 0606	RC-FZ6684BMNJ	J	0.68 250V	Mylar	AE	1	QJAKZ0014BMZZ	S		AK
C 0607	RC-FZ6474BMNJ	J	0.47 250V	Mylar	AE		QPLGN0165BMZZ	S		AB
C 0608	RC-FZ6474BMNJ	J	0.47 250V	Mylar	AE		QSOCZ2051SC32	İs		AC
C 0609	RC-FZ9224BMNJ	J	0.022 63V	Mylar	AC	l	QSOCZ2109BMZZ	s	<b>!</b>	AK
C 0611	VCQPSC2GA273K	J	0.27 400V	Ceramic	AB	1	RRMCU0201BMZZ	S	1	AN
C 0616	VCEAGA1EW477M	S		Electrolytic	AD	(A) 0000		s		AB
C 0618	VCEAGA1EW108M	S	1	Electrolytic	AD	△(F) 0000		S		AB
C 0619	VCEAGA1JW107M	S	100 63V	Electrolytic	AC	△ (G)	QPLGN0207CEZZ	S	Connector	AA
		_	· · · · · · · · · · · · · · · · · · ·				····			

REF. NO.	PART NO.	*	DESCRIPTION	CODE	REF. NO.	PART NO.	*	DESCRIPTION	CODE
(S) 0000	QPLGN0441CEZZ	s	Connector AB		TRANSISTORS				
	QFS-C3226CEZZ RBLN-0037CEZZ	S	3.15A 250V Fuse Ferrite Beat	AE AB	C 3510	VCEAGA1CW108M	s	1000 16V Electrolytic	AE
FB 0701	RBLN-0037CEZZ	s	Ferrite Beat	AB	C 3511	RC-FZ9474BMNJ	J	0.47 63V Mylar	AD
FB 0702	RBLN-0037CEZZ	s	Ferrite Bead	AB	C 3521	VCEAGA1CW108M	s	,	AE
FB 0703	RBLN-0037CEZZ	S	Ferrite Bead	AB	C 3530	VCEAGA1AW227M	\$		AB
J 0301 △ S 0701	QJAKJ0047CEZZ	S	Earphone Jack	AG					
\$ 1001	QSW-P0600BMZZ QSW-K0079GEZZ	S	Power Switch Push Button (CH+)	AL AB		MICCELL	A DE	FOLIC DADTO	
S 1002	QSW-K0079GEZZ	S	Push Button (CH-)	AB		WIISCELL	AN	EOUS PARTS	
S 1003	QSW-K0079GEZZ	S	Push Button (VOL+)	AB		RSP-Z0001BMN0	s	Speaker Box	0.0
S 1004	QSW-K0079GEZZ	s	Push Button (VOL-)	AB	Δ	CACCB5007BMV0	S		BE AU
LP 1001	RLAMP0001BMZZ	S	Neon Lamp	AC		TINS-6431BMN1	s		AG
PWB-B	•		CRT SOCKET UNIT			RRMCG1058BMSA	s		ВВ
						CABI	NE	T PARTS	
			TRANSISTORS						
0.0870	RH-TX0157BMZZ	s	BFN20	AD	1	CCABA1176BMV0	S	Front Cabinet 59CS-05H	
0.0871	RH-TX0157BMZZ	s	8FN20	AD	1	CCABA1167BMV0	5	Front Cabinet 66CS-05H	
Q 0872	RH-TX0157BMZZ	S	BFN20	AD	1-1	GDORF1045BMSB	S	1	ΑE
Q 0873	RH-RX0155BMZZ	S	BFN23	AB	1-2	GMADT1065BMSA	\$		AG
Q 0874 Q 0875	RH-TX0155BMZZ	S	BFN23	AB	1-3	HBDGB3508BM\$A	S	Badge SHARP 59CS-05H	АН
Q 0876	RH-TX0155BMZZ RH-TX0156BMZZ	S	BFN23 BFN22	AB AB	1-3	HBDGB3013MESA	S		AG
Q 0877	RH-TX0156BMZZ	S	BFN22	AB	1-4	HINDP5077BMSA	S	Indicator	ΑE
Q 0878	RH-TX0156BMZZ	s	BFN22	AB	1-5	JBTN-1029BMSB	\$		AC
0.0879	VS2SA1037KQ-1	s	BC807	AA	1-6	JBTN-1028BMSB	S	· ·	AC
	, ,				2	CCABB1046BMV2 CCABB1045BMV1	S		BB BC
,	DIODES					CCABB 1043BIVIV		near cabinet 60c3-05h	
D 0870	VHDDAP202K/-1	s	DAP202K	АВ					
D 0871	VHDDAP202K/-1	s	DAP202K	AB					
D 0872	VHDDAP202K/-1	S	DAP202K	AB					
D 0873	RH-DX0551BMZZ	S	LL4148	AA					
D 0874	RH-DX0551BMZZ	S	LL4148	AA					
D 0875	RH-EX0562BMZZ	S	Zener 27V	AA					
	COILS				(2)				
L 0881	VP-CF120K0000	\$	12 µН	AC			1		Ì
CAPACITORS							1		
C 0874	VCKYPA2HB102K	S	1000p 500 V Ceramic	AA				.	
C 0876	RC-KZ0023CEZZ	S	4700p 2 kV Ceramic	AD					Ì
C 08 78	VCEAGA2DW476M	S	47 200 V Electrolytic	AE					
<del> </del>		I	RESISTORS				(1	[-3]	
R 0889	RR-XZ0136BMZZ	s	1K 1/3W Fuse Resistor	АА					
							SI	HARP	]
			MISCELLANEOUS PARTS		·		<u> </u>	00000	
Δ	QSOCV0103BMZZ	\$	CRT Socket	АН		(1-1)	1-4	4) (1-2) (1-6) (1-5)	
PWB-C			SRS UNIT			•			
			INTEGRATED CIRCUITS						
IC 3500	VHISRS5250S-1	s	SRS 5250S	AX					i



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Month of Issue: Febuary 1999 Classification:

White

#### TELEVISION TECHNICAL BULLETIN

**MODELS** 51DS02H 51DS03H 51DS05H 59DS03H

> 66DS05H 59DS05H 66DS03H 66ES05H

#### Common Faults on the CA10 chassis

Fault	Reason	Cause
No functions - set will not turn on	Supply to IC702 missing	R704 open circuit
Set not coming out of standby	Start up pulse missing	R713/4 open circuit or high
Vertical scanning problems	No supply to vertical output stage	F601 and/or F602 (note that both these fuses should be 1.5A)
Child lock problems	Programming error	Go into the service mode and select Auto Installion On, then restart set.
No or intermittent response from the remote control and/or front buttons	No response from the slave micro	R704 and/or R705 high resistance
Set locks up	No response from the slave micro	R704 and/or R705 high resistance
Circuit changes around IC201	IC201 has been changed in production	Refer to Technical Bulletin CTV980809
Other circuit changes	Change of CRT type to Thompson	Refer to Technical Bulletin CTV981203 or CTV981204

When replacing R704, R705, R713 or R714 please ensure that 1W resistors are used.

Note that the CA1\CA10 chassis training course notes are available on the Sharp Electronics (UK) Limited Web Site (www.tradenet.sharp.co.uk/tech) under the models fitted with these chassis - grouped under the Service Manual heading. These notes contain in depth details on circuit operation. Please refer to these while fault finding.

If you have a fault to add to the above list, please do no hesitate to contact Sharp Technical Support via the Hot Line telephone number.





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August 2000 Yellow

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# **TELEVISION TECHNICAL BULLETIN**

MODELS 51DS02H 51DS03H 51DS05H 59DS03H

59DS05H 66DS03H 66DS05H 66ES05H

66ES03H 59ESD7H 66ESD7H

**SYMPTOM** The receiver does not come out of standby - power supply inoperative.

**CAUSE** R713 and / or R714 going high or open circuit.

**ACTION** Replace R713 and R714 with 560k $\Omega$  ½W metal film resistors.

Use the part numbers below.

REF NO	<u>DESCRIPTION</u>	PART NUMBER	PRICE CODE
R713	Resistor 560kΩ ½W metal film	VRC-MA2HG564J	AA
R714	Resistor 560kO ½W metal film	VRC-MA2HG564.I	AA



Reference UK92600X Revision **5** 



