

**PARTS LIST
REPLACEMENT PARTS**

Replacement parts which have special safety characteristics are identified in this manual. Electrical components having such features are identified by "△" in the Replacement Parts Lists. The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended is not permitted. Replacement parts not shown in this service manual may create shock, fire or other hazards.

"HOW TO ORDER REPLACEMENT PARTS"

To have your order completed promptly and correctly, please supply the following information.

- | | |
|-----------------|----------------|
| 1. MODEL NUMBER | 2. REF. NO. |
| 3. PART NO. | 4. DESCRIPTION |
| 5. CODE | 6. QUANTITY |

★ MARK: SPARE PARTS DELIVERY SECTION

REF. NO.	PART NO.	★	DESCRIPTION	CODE
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PICTURE TUBE

△	VB59EAK7111*N	S	C.R.T. 25"	CW
△	VB66EAK7111*N	S	C.R.T. 28"	CW
△	CCILG0403BMV0	S	Degaussing Coil 25"	AT
△	CCILG0404BMV0	S	Degaussing Coil 28"	AV

PRINTED WIRING BOARD ASSEMBLIES

PWB-A	DUNTK7206CJV4	S	Mother Unit 59CS05H	-
	DUNTK7206CJV2	S	Mother Unit 66CS05H	-
PWB-B	DUNTK7207BMV4	S	Socket Unit 59CS05H	-
	DUNTK7207BMV2	S	Socket Unit 66CS05H	-
PWB-C	DUNTK7196BMV0	S	SRS Unit	-

PWB-A MOTHER UNIT

TUNER

NOTE: The parts shown here are supplied as an assembly but not separately.

TH 0201	RTUNH0112BMZZ	S	Tuner	BD
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INTEGRATED CIRCUITS

IC 0201	RH-IX1582BMZZ	S	TDA 8375A	BB
IC 0301	RH-IX1592BMZZ	S	MSP3400C-PS-C6	BA
IC 0302	VHIM5218L/-1	S	M5218L	AF
IC 0303	RH-IX1556BMZZ	S	BA10393	AD
IC 0401	RH-IX1584BMZZ	S	MGTEXT SDA5273C26	AN
IC 0403	RH-IX1602BMZZ	S	HEF4053	AE
IC 0501	RH-IX1556BMZZ	S	BA10393S0P8	AD
△ IC 0701	RH-FX0103BMZZ	S	OPTOCOUPLER MOC8105SR2V	AD
IC 0801	RH-IX1460BMZZ	S	TEA 5114A	AL
IC 0802	RH-IX1583BMZZ	S	TDA 4665T	AM
IC 1001	RH-IX1598BMZZ	S	SAB-C502	AX
IC 1002	RH-IX1588BMZZ	S	NVM 24C16	AQ
IC 1003	RH-IX0037CEZZ	S	UPC574J 33V	AD
IC 1004	CH-IX1507CJHA	S	EPROM 59CS-05H	AQ
IC 1004	CH-IX1507CJH6	S	EPROM 66CS-05H	AK
IC 1005	RH-IX1485BMZZ	S	SN74ALS 573	AK
IC 1006	RH-IX1474BMZZ	S	HEF4021BT	AE
IC 1007	RH-IX1475BMZZ	S	HEF4094BT	AE
△ IC 1008	RH-FX0103BMZZ	S	MOC8105SR2V	AD
△ IC 1009	RH-FX0103BMZZ	S	MOC8105SR2V	AD
IC 1010	RH-IX1559BMZZ	S	ST6210BM	AU

REF. NO.	PART NO.	★	DESCRIPTION	CODE
IC 1012	VHIPST529C2-1	S		AD
IC 1013	VHIPST529C2-1	S		AD
OPC0001	RH-IX1601BMZZ	S	TSL235	AH

TRANSISTORS

Q 0201	VS2SC2412KQ-1	S	2SC2412	AA
Q 0202	VS2SC2412KQ-1	S	2SC2412	AA
Q 0203	VS2SA1037KQ-1	S	BC807	AA
Q 0209	RH-TX0102BMZZ	S	BC338	AB
Q 0301	VS2SA1037KQ-1	S	BC807	AA
Q 0302	VS2SC2412KQ-1	S	2SC2412	AA
Q 0303	VS2SA1037KQ-1	S	BC807	AA
Q 0304	VS2SC2412KQ-1	S	2SC2412	AA
Q 0305	RH-TX0171BMZZ	S	IRFR9020	AD
Q 0306	RH-TX0172BMZZ	S	IRFR010	AD
Q 0307	VS2SA1037KQ-1	S	BC807	AA
Q 0308	VS2SC2412KQ-1	S	2SC2412	AA
Q 0309	VS2SC2412KQ-1	S	2SC2412	AA
Q 0310	VS2SA1037KQ-1	S	BC807	AA
Q 0311	RH-TX0171BMZZ	S	IRFR9020	AD
Q 0312	RH-TX0172BMZZ	S	IRFR101	AD
Q 0313	VS2SC2412KQ-1	S	2SC2412	AA
Q 0314	VS2SC2412KQ-1	S	2SC2412	AA
Q 0315	VS2SA1037KQ-1	S	BC807	AA
Q 0401	RH-TX0102BMZZ	S	BC338	AB
Q 0402	VS2SC2412KQ-1	S	2SC2412	AA
Q 0403	VS2SC2412KQ-1	S	2SC2412	AA
Q 0451	VS2SA1037KQ-1	S	BC807	AA
Q 0501	VS2SC2412KQ-1	S	2SC2412	AA
Q 0502	VS2SA1037KQ-1	S	BC807	AA
Q 0503	VS2SA1037KQ-1	S	BC807	AA
Q 0504	VS2SC2412KQ-1	S	2SC2412	AA
Q 0505	VS2SA1037KQ-1	S	BC807	AA
Q 0507	RH-TX0147BMZZ	S	2SA1797T100/Q	AD
Q 0508	RH-TX0151BMZZ	S	2SD2391Q	AD
Q 0509	RH-TX0149BMZZ	S	2SB1561	AD
Q 0510	VS2SC2412KQ-1	S	2SC2412	AA
Q 0511	VS2SC2412KQ-1	S	2SC2412	AA
Q 0512	RH-TX0150BMZZ	S	2SA1900T100/Q	AC
Q 0513	VS2SA1037KQ-1	S	BC807	AA
Q 0601	RH-TX0144BMZZ	S	BUH 515	AK
Q 0603	RH-TX0146BMZZ	S	2SD2153T100/W	AD
Q 0605	RH-TX0152BMZZ	S	BC846BLT1	AA
Q 0606	RH-TX0149BMZZ	S	2SB1561	AD
Q 0607	RH-TX0152BMZZ	S	BC846BLT1	AA
Q 0701	RH-TX0166BMZZ	S	2SK2605	AK
Q 0702	RH-TX0102BMZZ	S	BC338	AB
Q 0703	RH-TX0102BMZZ	S	BC338	AB
Q 0704	RH-TX0130BMZZ	S	BC338-40	AB
Q 0705	VS2SC2412KQ-1	S	2SC2412	AA
Q 0706	VS2SC2412KQ-1	S	2SC2412	AA
Q 0707	RH-TX0130BMZZ	S	BC338-40	AB
Q 0709	VS2SC2412KQ-1	S	2SC2412	AA
Q 0711	VS2SC2412KQ-1	S	2SC2412	AA
Q 0712	VS2SA1037KQ-1	S	BC807	AA
Q 0801	VS2SC2412KQ-1	S	2SC2412	AA
Q 0802	VS2SC2412KQ-1	S	2SC2412	AA
Q 0901	VS2SC2412KQ-1	S	2SC2412	AA
Q 1001	VS2SC2412KQ-1	S	2SC2412	AA
Q 1012	VS2SC2412KQ-1	S	2SC2412	AA

DIODES

D 0201	RH-DX0551BMZZ	S	LL4148	AA
D 0202	RH-EX0550BMZZ	S	Zener 8.2V	AA
D 0203	RH-DX0551BMZZ	S	LL4148	AA

REF. NO.	PART NO.	★	DESCRIPTION	CODE	REF. NO.	PART NO.	★	DESCRIPTION	CODE
L 0406	VP-NM1R0MR10N	S	1 μH	AB	C 0702	RC-FZ0070BMZZ	S	0.1 250V Mylar	AD
L 0407	VP-NM1R0MR10N	S	1 μH	AB	C 0703	RC-KZ0029CEZZ	S	0.01 250V Ceramic	AC
L 0408	VP-NM1R0MR10N	S	1 μH	AB	C 0704	RC-KZ0029CEZZ	S	0.01 250V Ceramic	AC
L 0409	VP-NM1R0MR10N	S	1 μH	AB	C 0705	RC-KZ0029CEZZ	S	0.01 250V Ceramic	AC
L 0452	VP-NM3R3MR19N	S	3.3 μH	AC	C 0706	RC-EZ0114BMZZ	S	220 385V Electrolytic	AS
L 0501	RCILP0244BMZZ	S		AE	C 0707	RC-FZ9153BMNJ	J	0.015 63V Mylar	AB
L 0602	RCILP0599CEZZ	S	Delay Line	AG	C 0708	RC-FZ9683BMNJ	J	0.068 63V Mylar	AB
L 0604	RCILP0105CEZZ	S		AG	C 0711	RC-EZ0258CEZZ	S	100 200V Electrolytic	AH
L 0605	RCILP0104CEZZ	S		AG	C 0712	VCEAGA1EW227M	S	220 25V Electrolytic	AC
L 0606	RCILP0237BMZZ	S		AD	C 0713	VCEAGA1CW108M	S	1000 16V Electrolytic	AD
L 0607	VP-CF3R3K0000	S	3.3 μH	AB	C 0714	VCEAGA1AW108M	S	1000 10V Electrolytic	AC
L 0608	VP-CF3R3K0000	S	3.3 μH	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	S	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 μH	AB	C 0727	RC-KZ0029CEZZ	S	0.01 250V Ceramic	AC
L 0705	VP-CF1R0K0000	S	1 μH	AB	C 0733	RC-KZ0035CEZZ	S	220p 2kV Ceramic	AC
L 0706	VP-NM3R3MR19N	S	3.3 μH	AC	C 0806	VCEAGA1CW107M	S	100 16V Electrolytic	AB
L 0801	VP-NM100KR42N	S	10 μH	AC	C 1005	VCEAGAOJW108M	S	1000 6.3V Electrolytic	AB
					C 1102	VCEAGA1AW107M	S	100 10V Electrolytic	AA
CERAMIC FILTERS					RESISTORS				
CF 0301	RFILC0023CEZZ	S	Filter	AE	R 0204	RR-XZ0204BMZZ	S	2.2 1/2W Fuse Resistor	AB
CF 1001	RFILC0121GEZZ	S	Filter CST8.0MTW	AD	R 0237	VRS-PU3AB100J	S	10 1W Metal Oxide	AA
SF 0201	RFILC0277BMZZ	S	Saw Filter G1951T901	AM	R 0243	RR-XZ0114BMZZ	S	15 1/3W Fuse Resistor	AB
TRANSFORMERS					R 0364	VRS-TQ2BD271J	S	1K 1/8W Metal Oxide	AA
△ T0601	RTRNF2035BMZZ	S	F.B.T.	BC	R 0365	VRS-TQ2BD271J	S	1K 1/8W Metal Oxide	AA
△ T0700	RTRNZ0546BMZZ	S	Chopper	AQ	R 0505	RR-XZ0124BMZZ	S	100 1/3W Fuse Resistor	AA
CAPACITORS					R 0531	RR-XZ0231BMZZ	S	390 1/2W Fuse Resistor	AB
C 0225	VCEAGA1CW337M	S	330 16V Electrolytic	AC	R 0603	RR-XZ0116BMZZ	S	22 1/3W Fuse Resistor	AA
C 0236	VCEAGA1CW227M	S	220 16V Electrolytic	AC	R 0609	VRN-VV3AB2R7J	S	2.7 1W Metal Oxide	AA
C 0237	VCCUTV1HJ5R6C	S	5.6p 50V Ceramic	AA	R 0610	RR-XZ0242BMZZ	S	3.3K 1/2W Fuse Resistor	AB
C 0313	VCEAGA1AW337M	S	330 10V Electrolytic	AB	R 0623	RR-XZ0219BMZZ	S	39 1/2W Fuse Resistor	AB
C 0323	VCEAGA1AW337M	S	330 10V Electrolytic	AB	R 0624	RR-XZ0218BMZZ	S	33 1/2W Fuse Resistor	AB
C 0335	VCEAGA1AW107M	S	100 10V Electrolytic	AB	R 0628	RR-XZ0109BMZZ	S	5.6 1/3W Fuse Resistor	AB
C 0349	VCEAGA1EW107M	S	100 25V Electrolytic	AB	R 0631	QFS-J1023CEZZ	S	1A 125V Fuse	AA
C 0350	VCEAGA1EW107M	S	100 25V Electrolytic	AB	R 0632	QFS-J1023CEZZ	S	1A 125V Fuse	AA
C 0351	VCEAGA1AW107M	S	100 10V Electrolytic	AB	R 0638	VRS-VV3DB181J	S	180 2W Metal Oxide	AA
C 0401	RC-FZ9334BMNJ	J	0.33 63V Mylar	AC	R 0640	RR-XZ0227BMZZ	S	180 1/2W Fuse Resistor	AB
C 0403	RC-FZ9334BMNJ	J	0.33 63V Mylar	AC	R 0706	VRN-VV3ABR33J	S	0.33 1W Metal Film	AA
C 0404	RC-FZ9334BMNJ	J	0.33 63V Mylar	AC	R 0712	VRN-VV3AB5R6J	S	5.6 1W Metal Film	AA
C 0406	RC-FZ9334BMNJ	J	0.33 63V Mylar	AC	R 0721	VRC-UA2HG825K	S	8.2M 1/2W Solid	AA
C 0421	RC-FZ9334BMNJ	J	0.33 63V Mylar	AC	△ R 0722	VRC-UA2HG825K	S	8.2M 1/2W Solid	AA
C 0422	RC-FZ9334BMNJ	J	0.33 63V Mylar	AC	△ R 0723	VRSTQ2BD4992F	S	49.9K1/4W Metal Oxide	AA
C 0423	VCEAGA1CW107M	S	100 16V Electrolytic	AB	R 0836	RR-XZ0120BMZZ	S	47 1/3W Fuse Resistor	AB
C 0502	RC-FZ9333BMNJ	J	0.22 63V Mylar	AB	R 0842	VRS-TQ2BD274J	S	270K 1/8W Metal Oxide	AA
C 0508	RC-FZ9104BMNJ	J	0.1 63V Mylar	AB	R 0890	VRS-TQ2BD224J	S	220K 1/8W Metal Oxide	AA
C 0514	RC-FZ9474BMNJ	J	0.47 63V Mylar	AD	MISCELLANEOUS PARTS				
C 0524	RC-FZ9684BMNJ	S	0.68 63V Mylar	AD	QSOCN0502CEZZ	S	Socket	AC	
C 0601	RC-FZ0152BMZZ	S	0.012 1.5kV Mylar	AE	QSOCN0660BMZZ	S	Socket	AD	
C 0603	RC-FZ9223BMNJ	J	0.022 63V Mylar	AB	QTIPM0008CEZZ	S	Socket	AA	
C 0604	VCEAGA1AW337M	S	330 10V Electrolytic	AB	QFSDH1009CEZZ	S	Fuse Holder	AA	
C 0605	RC-FZ9683BMNJ	J	0.068 63V Mylar	AB	QFSDH1010CEZZ	S	Fuse Holder	AB	
C 0606	RC-FZ6684BMNJ	J	0.68 250V Mylar	AE	QJAKZ0014BMZZ	S	Jack Connector	AM	
C 0607	RC-FZ6474BMNJ	J	0.47 250V Mylar	AE	QJAKZ0101BMZZ	S	Jack Connector 3xRCA	AK	
C 0608	RC-FZ6474BMNJ	J	0.47 250V Mylar	AE	QPLGN0165BMZZ	S	Connector	AB	
C 0609	RC-FZ9224BMNJ	J	0.022 63V Mylar	AC	QSOCZ2051SC32	S	IC Socket 32 PIN	AC	
C 0611	VCPQSC2GA273K	J	0.27 400V Ceramic	AB	QSOCZ2109BMZZ	S	rgb Connector (X2)	AK	
C 0616	VCEAGA1EW477M	S	470 25V Electrolytic	AD	RRMCU0201BMZZ	S	Remote Control Receiver	AN	
C 0618	VCEAGA1EW108M	S	1000 25V Electrolytic	AD	(A) 0000	QPLGN0304CEZZ	S	Connector	AB
C 0619	VCEAGA1JW107M	S	100 63V Electrolytic	AC	△ (F) 0000	QPLGN0505CEZZ	S	Connector	AB
					△ (G)	QPLGN0207CEZZ	S	Connector	AA

REF. NO.	PART NO.	★	DESCRIPTION	CODE
(S) 0000	QPLGN0441CEZZ	S	Connector	AB
△ F 0701	QFS-C3226CEZZ	S	3.15A 250V Fuse	AE
FB 0304	RBLN-0037CEZZ	S	Ferrite Beat	AB
FB 0701	RBLN-0037CEZZ	S	Ferrite Beat	AB
FB 0702	RBLN-0037CEZZ	S	Ferrite Bead	AB
FB 0703	RBLN-0037CEZZ	S	Ferrite Bead	AB
J 0301	QJAKJ0047CEZZ	S	Earphone Jack	AG
△ S 0701	QSW-P0600BMZZ	S	Power Switch	AL
S 1001	QSW-K0079GEZZ	S	Push Button (CH+)	AB
S 1002	QSW-K0079GEZZ	S	Push Button (CH-)	AB
S 1003	QSW-K0079GEZZ	S	Push Button (VOL+)	AB
S 1004	QSW-K0079GEZZ	S	Push Button (VOL-)	AB
LP 1001	RLAMP0001BMZZ	S	Neon Lamp	AC

PWB-B CRT SOCKET UNIT

TRANSISTORS

Q 0870	RH-TX0157BMZZ	S	BFN20	AD
Q 0871	RH-TX0157BMZZ	S	BFN20	AD
Q 0872	RH-TX0157BMZZ	S	BFN20	AD
Q 0873	RH-RX0155BMZZ	S	BFN23	AB
Q 0874	RH-TX0155BMZZ	S	BFN23	AB
Q 0875	RH-TX0155BMZZ	S	BFN23	AB
Q 0876	RH-TX0156BMZZ	S	BFN22	AB
Q 0877	RH-TX0156BMZZ	S	BFN22	AB
Q 0878	RH-TX0156BMZZ	S	BFN22	AB
Q 0879	VS2SA1037KQ-1	S	BC807	AA

DIODES

D 0870	VHDDAP202K/-1	S	DAP202K	AB
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

L 0881	VP-CF120K0000	S	12 μH	AC
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CAPACITORS

C 0874	VCKYPA2HB102K	S	1000p 500 V Ceramic	AA
C 0876	RC-KZ0023CEZZ	S	4700p 2 kV Ceramic	AD
C 0878	VCEAGA2DW476M	S	47 200 V Electrolytic	AE

RESISTORS

R 0889	RR-XZ0136BMZZ	S	1K 1/3W Fuse Resistor	AA
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MISCELLANEOUS PARTS

△	QSOCV0103BMZZ	S	CRT Socket	AH
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PWB-C SRS UNIT

INTEGRATED CIRCUITS

IC 3500	VHISRS5250S-1	S	SRS 5250S	AX
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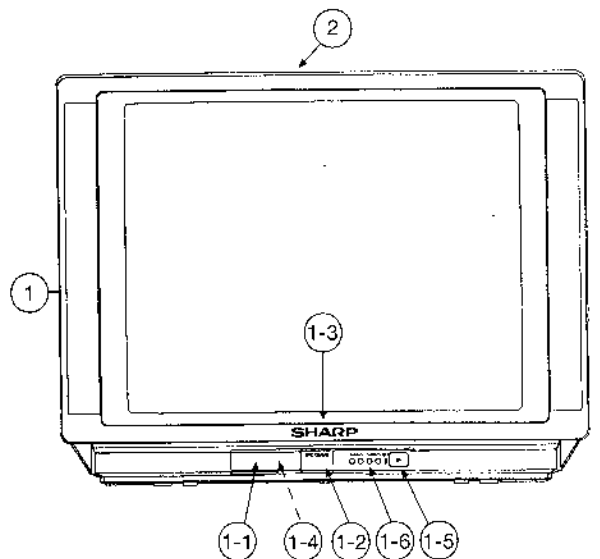
REF. NO.	PART NO.	★	DESCRIPTION	CODE
TRANSISTORS				
C 3510	VCEAGA1CW108M	S	1000 16V Electrolytic	AE
C 3511	RC-FZ9474BMNJ	J	0.47 63V Mylar	AD
C 3521	VCEAGA1CW108M	S	1000 16V Electrolytic	AE
C 3530	VCEAGA1AW227M	S	220 10v Electrolytic	AB

MISCELLANEOUS PARTS

△	RSP-Z0001BMN0	S	Speaker Box	BE
	CACCB5007BMV0	S	AC Cord	AU
	TINS-6431BMN1	S	Operation Manual	AG
	RRMCG1058BMSA	S	Remote Control Unit	BB

CABINET PARTS

1	CCABA1176BMV0	S	Front Cabinet 59CS-05H	
1	CCABA1167BMV0	S	Front Cabinet 66CS-05H	
1-1	GDORF1045BMSB	S	Door	AE
1-2	GMADT1065BMSA	S	Window	AG
1-3	HBDGB3508BMSA	S	Badge SHARP 59CS-05H	AH
1-3	HBDGB3013MESA	S	Badge SHARP 66CS-05H	AG
1-4	HINDP5077BMSA	S	Indicator	AE
1-5	JBTN-1029BMSB	S	Button Power	AC
1-6	JBTN-1028BMSB	S	Button Up/Down	AC
2	CCABB1046BMV2	S	Rear Cabinet 59CS-05H	BB
2	CCABB1045BMV1	S	Rear Cabinet 66CS-05H	BC



TELEVISION TECHNICAL BULLETIN

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

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

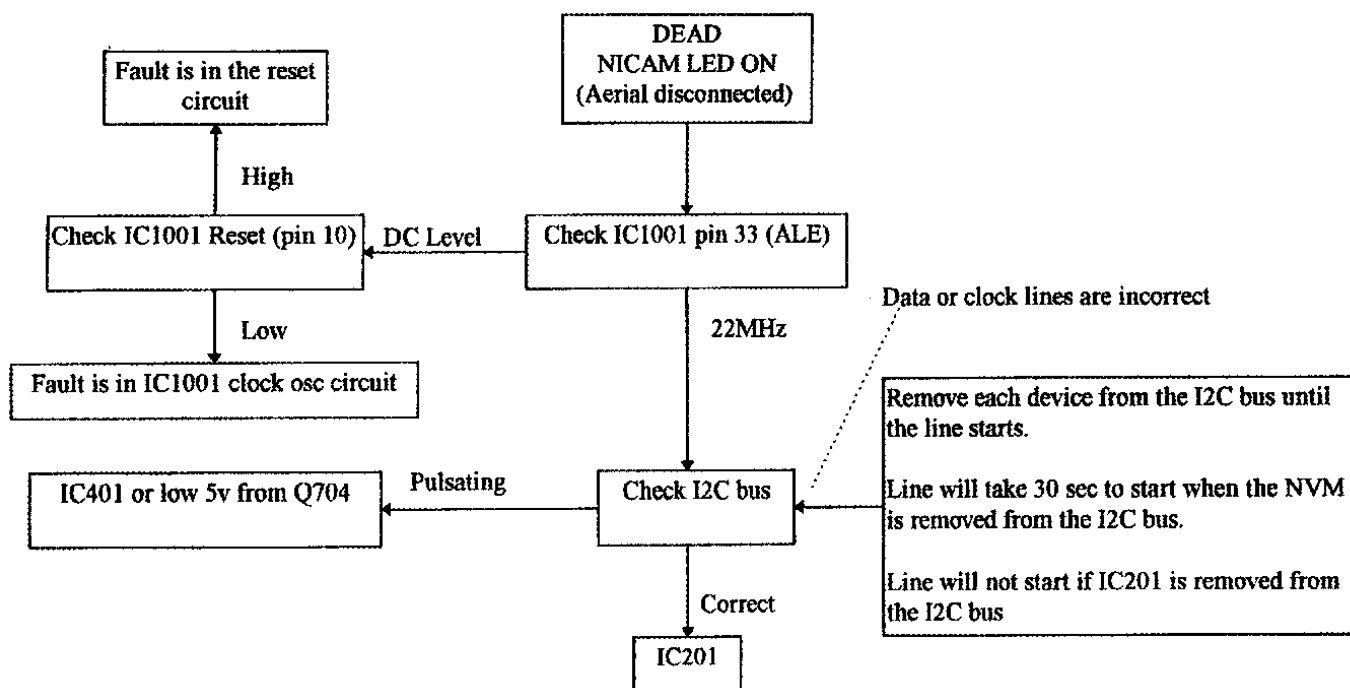
Intermittent sound	Technical Bulletin CTV970203 or CTV980204
Whistle on the Audio (later models only)	Damage print feeding 40V to R368
Distorted sound	IC301 (MSP3410)

Vertical O/P Stage Faults

No or intermittent vertical output	Technical Bulletin CTV970207 (<i>Issued Feb 97</i>)
Failure of vertical output stage	Technical Bulletin CTV970202 (<i>Issued Feb 97</i>) & 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
59/66cm models

51 CSCHASSISKIT
59 CSCHASSISKIT