

Service Guide

Colour Television

CHASSIS : CP-002

Model :

DTC-14 V1/V3/V4/V5/U1 TM

DTC-20 V1/V3/V4/V5/U1 TM

DTC-21 V1/V3/V4/U1/U3 TM



14/20/21 V1



14/20/21 V3



14/20/21 V4



14/20 V5



14/20/21 U1



21 U3

If you need further information (IC, Circuit descriptions or troubleshooting . . .) about this model,
Please visit our web site.(<http://svc.dwe.co.kr>)

■ Specifications

TV Standard	PAL/SECAM-B/G, D/K, I, H, NTSC-3.58/4.43, NTSC-5.5	
Mains Voltage	100 ~ 250V AC, 50/60Hz	
Power Voltage	14" : 73W 20" : 78W 16" : 75W 21" : 86W	
Sound output	- . 2 Speaker (at any MOD. 10% THD) : 5W + 5W (TWITTER 2.5W + 2.5W)	
Speaker	- . 2 Speaker : 7.5W 4 ohm	
Memory channel	100 channels	
Reception channel Unit	VHF - L : CH2 - CH4 VHF - H : CH5 - CH12 Cable Band : CHS1' - CHS3', CHS1 - CHS20 Hyper Band : CHS21 - CHS40 UHF : CH21 - CH69	
Remote control	VG : R-28B04, TM : R-28B03	
Function	VG	TM
	- . CHILD Lock (CH Lock) - . 16 : 9 MODE - . ZOOM MODE - . Blue Back (ON/OFF) - . Local Key Menu Control - . Arrow puzzle Game - . Monitor out - . Simple SCART - . Twitter Speaker	- . CHILD Lock (Security code Lock) - . OSD MESH - . 16 : 9 MODE - . ZOOM MODE - . Blue Back (ON/OFF) - . Local Key Control Menu Control - . Monitor out - . Simple SCART - . Twitter Speaker - . TELETEXT : 8 PAGE TELETEXT TOP/FLOF MODE

DAEWOO ELECTRONICS CO., LTD

<http://svc.dwe.co.kr>

JAN. 2000

Important Service Notes

1. X-ray Radiation Precaution

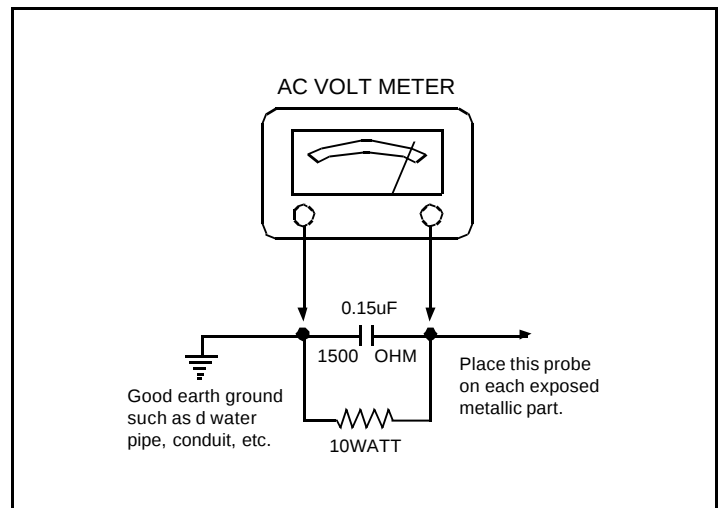
- 1) Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is 25.5kv(20"/21") & 23.5kv(14") at zero beam current (minimum brightness) under a 120V/220V AC power source. The high voltage must not, under any circumstances, exceed 28kv(20"/21") & 26kv(14"). Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure on page 10 of this manual. It is recommended as a part of the service record. It is important to use an accurate and reliable high voltage meter.
- 2) This receiver is equipped with X-RADIATION PROTECTION circuit which prevents the receiver from producing an excessively high voltage even if the B+ voltage increases abnormally. Each time the receiver is serviced, X-RADIATION PROTECTION circuit must be checked to determine that the circuit is properly functioning, following the X-RADIATION PROTECTION CIRCUIT CHECK procedure on page 6 of this manual.
- 3) The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
- 4) Some parts in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

2. Safety Precaution

WARNING: Service should not be attempted by anyone unfamiliar with the necessary precaution on this receiver. The following are the necessary precaution to be observed before servicing.

- 1) Since the chassis of this receiver has hazardous potential to ground whenever the receiver is plugged in (floating chassis), an isolation transformer must be used during servicing to avoid shock hazard.
- 2) Always discharge the picture tube anode to the CRT conductive coating the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatterproof goggles and keep picture tube away from the body while handling.
- 3) When placing chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; nonmetallic control knobs, insulating covers, shields, isolation resistor-capacitor network, etc.
- 4) Before returning the set to the customer, always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as antennas, terminals, screw-heads, metal overlays, control shafts etc. to be sure the set is safe to operate without danger of electrical shock. Plug the AC line cord directly into a 120V AC outlet (do not use a line isolation transformer during this check). Use an AC voltmeter having 5000 ohms per volt or more sensitivity in the following manner.

Connect at 1500 ohm 10 watt resistor, paralleled by a 0.15 mfd. AC type capacitor, between a known good earth ground (water pipe, conduit etc.) and the exposed metallic parts, one at a time. Measure the AC voltage across the combination of 1500 ohm resistor and 0.15 mfd capacitor. Voltage measured must not exceed 0.3 volts RMS. This corresponds to 0.2 milliamp. AC. Any value exceeding the limit constitutes a potential shock hazard and must be corrected immediately.



3. Product Safety Notice

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by shading on the schematic diagram and the parts list. Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create X-ray radiation or other hazards.

4. Service Notes

- 1) When replacing parts or circuit boards, clamp or bend the lead wires to terminals before soldering.
- 2) When replacing a high wattage resistor (metal oxide film resistor) in the circuit board, keep the resistor min 1/2 inch away from circuit board.
- 3) Keep wires away from high voltage or high temperature components.

DAEWOO ELECTRONICS CO., LTD.

C.P.OBOX8003 SEOUL, KOREA
Tel : 82-2-360-7798
Fax : 82-2-360-7877
E-mail : G7F00E@dwe.web.co.kr
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■ Alignment Instructions

1. AFT

- 1) Set a signal Generator with
 - RF FREQUENCY = 38.9MHz, 34.2MHz (L)
 - RF OUTPUT LEVEL = 80 ± 5 dBuV
 - System = PAL / SECAM - B/G, D/K, I, H
NTSC - 3.58/4.43
- 2) Connect the Signal Generator RF Output to P101 (Tuner IF Output).
There must be no signal input to the tuner.
- 3) Press the "AFT" KEY in Service Mode and wait until the 'Please wait' disappear on the TV screen.

2. AGC

- 1) Set a pattern Generator with
 - RF LEVEL = 60dBuV
 - 100% FULL COLOR BAR
- 2) Connect the Pattern Genetator RF Output to Tuner RF Input.
- 3) Press the "AGC" KEY in Service Mode and wait until the 'Please wait' disappear on the TV screen.

3. SCREEN

- 1) Receive the Retma pattern and heat run over 15minutes.
- 2) On the normal mode1 adjust the screen volume that the horizontal line appears on the screen after pushing the 'SCREEN' KEY on the SVC Mode.
- 3) Adjust the screen volume that the horizontal lines reach the cut-off point.

4. WHITE BALANCE

- 1) Set the TV to NOR 1 mode.
- 2) Adjust the R,G,B UP/DOWN KEY of the color which appears abnormally on the screen to obtain WHITE BALANCE.

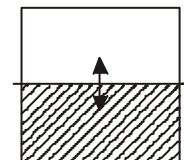
5. FOCUS

- 1) Apply a RETMA PATTERN signal.
- 2) Adjust the FOCUS VOLUME on FBT to obtain optimal resolution.

6. GEOMETRY

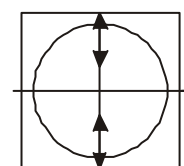
6.1 VERTICAL CENTER

- 1) Set the TV to NOR 1 mode.
- 2) Pressing the V-SIZE UP/DOWN KEY, the lower half of the screen is blanked.
- 3) Adjust the border line of blanked picture coincident with the mechanical center marks of the CRT using the V-CENTER UP/DOWN KEY.



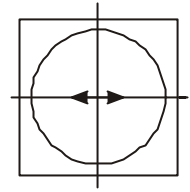
6.2 VERTICAL SIZE

- * The VERTICAL CENTER adjustment has to be done in advance.
- 1) Apply a RETMA PATTERN signal.
 - 2) Set the TV to NOR 1 mode.
 - 3) Adjust the upper part of the picture with the V-SIZE UP/DOWN keys.



6.3 HORIZONTAL CENTER

- 1) Apply a RETMA PATTERN signal.
- 2) Adjust picture centering with H-CENTER LEFT/RIGHT keys.



7. DATA PRESET(D.P) ADJUSTMENTS

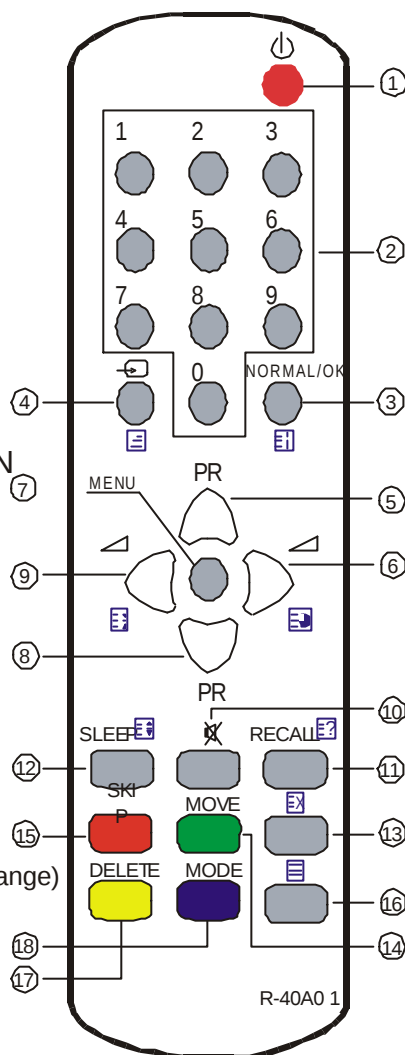
- 1) Receive a 91 channel.
- 2) Adjust the SHARPNESS to 0.
- 3) Enter the service mode using the user remote control by pressing buttons in sequence as follows
R ----> G ----> B ----> MENU
- 4) Then, D.P OSD in service mode will appear on screen.
- 5) Press the channel up or down button to enter you wish to adjust.
- 6) You can control the data by pressing the volume up or down button.

8. FACTORY OUTGOING MODE

- 1) Press the EX-FACTORY in service mode, then set becomes factory outgoing status.
- 2) You can see the OSD "outgoing OK!"

TV mode

- ① POWER
- ② NUMBER 0-9
- ③ NORMAL
- ④ AV
- ⑤ PR(CURSOR) UP
(CURSOR RIGHT)
- ⑥ VOLUME UP
- ⑦ MENU
- ⑧ PR(CURSOR) DOWN
(CURSOR LEFT)
- ⑨ VOLUME DOWN
- ⑩ MUTE
- ⑪ RECALL
- ⑫ SLEEP
- ⑬ Not Used
- ⑭ MOVE (Edit mode only)
- ⑮ SKIP(Edit mode only)
- ⑯ TV/TEXT
- ⑰ DELETE (Edit mode only)
- ⑱ MODE (Picture System Change)



TELETEXT mode

- ① POWER
- ② NUMBER 0-9
- ③ INDEX
- ④ MIX
- ⑤ PAGE UP
- ⑥ SUBPAGE
- ⑦ MENU
- ⑧ PAGE DOWN
- ⑨ HOLD
- ⑩ MUTE
- ⑪ REVEAL
- ⑫ SIZE
- ⑬ CANCEAL
- ⑭ Green Key
- ⑮ Red Key
- ⑯ TV/TEXT
- ⑰ Cyan Key
- ⑱ Yellow Key

* How to enter 'Service Mode' with user remocon.

1. Select CH number 91.
2. Adjust sharpness to minium.
3. Exit from Menu mode
4. Quickly press the key sequence : Red --> Green --> Menu
5. You can see the 'Service Mode OSD'

* To exit 'Service Mode', then press 'Power off'

Service MODE OSD

R BIAS	???
G BIAS	???
B BIAS	???
R DRIVE	??
G DRIVE	??
B DRIVE	??
V CENTER	??
V SIZE	??
H CENTER	??
VCO	??
FINE	??
AGC	??
POW LAST OFF	
SUB BRI	??
PR	91
OUTPUT MONI	
BRIGHT	40
CONTRAST	54
COLOUR	35

Service Parts List

® is a recommendable part for stock.

△ is safety component, so it must be used the same component.

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
ZZ100	48B3740A01	TRANSMITTER	R-40A01	®
		REMOCON		
ZZ110	PTACPWD216	ACCESSORY AS	DTC-21V1TM	
00100	4850Q00910	BATTERY	R03/NN	
00200	48586002E2	MANUAL INSTRUCTION	ENGLISH,ARABIA	
M821	4858213800	BAG INSTRUCTION	L.D.P.E T0.03X250X400	
ZZ120	PTBCSHD344	COVER BACK AS	DTC-21U1TM	21U1
M211	4852153401	COVER BACK	HIPS BK	21U1
M541	4855415800	SPEC PLATE	150ART P/E FILM (C/TV)	21U1
M591	4855930900	DECO TERM	PVC CL T0.2	21U1
ZZ130	PTPKCPD344	PACKING AS	DTC-21U1TM	21U1
M801	4858055200	BOX CARTON	DW-3	21U1
M811	4858190500	PAD	EPS 21U1	21U1
M821	4858211800	BAG P.E	L.D.P.E T0.03X1300X1000	21U1
ZZ131	48519A5310	CRT GROUND NET	2101S-1015-1P	21"
ZZ131	48519A5110	CRT GROUND NET	2001S-1015-1P	20"
ZZ131	48519A4710	CRT GROUND NET	1401S-1015-1P	14"
ZZ132	58G0000074	COIL DEGAUSSING	DC-2070	21"
ZZ132	58G0000086	COIL DEGAUSSING	DC-2050	20"
ZZ132	58G0000084	COIL DEGAUSSING	DC-1450	14"
ZZ140	PTCACAD344	CABINET AS	DTC-21U1TM	21U1
M191	4851937302	BUTTON CTRL	4943001+5539201	21U1
M201A	4856013301	SCREW CRT FIXING	30X140 YL	21U1
M201B	4856215402	WASHER RUBBER	CR T2.0	21U1
M201C	4856013303	SCREW CRT FIXING	30X250 YL	21U1
M211A	7172401412	SCREW TAPPTITE	TT2 TRS 4X14 MFXN BK	21U1
M211D	7172401412	SCREW TAPPTITE	TT2 TRS 4X14 MFXN BK	21U1
M491	4854943903	BUTTON POWER	ABS BK	21U1
M561	48556159S5	MARK BRAND	SILVER ETCHING DIA-CUTTIN	21U1
M681	4856812001	TIE CABLE	NYLON66 DA100	21U1
SP01A	7178301011	SCREW TAPPTITE	TT2 WAS 3X10 MFXN	21U1
SP02A	7178301011	SCREW TAPPTITE	TT2 WAS 3X10 MFXN	21U1
V901	4859625560	CRT	A51EFK155X01	21" ®
CRT1	PT RTPWD217	CRT AS	PAL 20" ITC CRT AS	20" ®
V01	58D0000083	COIL DY	ODY-M2050	
V02	48A96R004-	RUBBER WEDGE	HMR 28 5R (10X54)	
V03	4850PM001-	MAGNET CP	NY-225 (MINI NECK)	
V04	2TC26019BE	TAPE CLOTH	19X30 BEIGE	
V05	2224050026	BOND SILICON	RTV 122 CARTRIDGE	
V06	2233030001	PAINT LOCK	3B-1401B	
V901	48A96420P4	CRT BARE	A48JLL90X	
CRT1	PT RTPWA605	CRT AS	PAL 14" ITC CRT AS	14" ®
V01	58D0000082	COIL DY	ODY-M1489	
V02	48A96R004-	RUBBER WEDGE	HMR 28 5R (10X54)	
V03	4850PM001-	MAGNET CP	NY-225 (MINI NECK)	
V04	2TC26019BE	TAPE CLOTH	19X30 BEIGE	
V05	2224050026	BOND SILICON	RTV 122 CARTRIDGE	
V06	2233030001	PAINT LOCK	3B-1401B	
V901	48A96414P4	CRT BARE	A34JLL90X(K)	
ZZ200	PTFMSJD344	MASK FRONT AS	DTC-21U1TM	®

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
M201	4852071201	MASK FRONT	HIPS BK	21U
ZZ210	PTSPPWD344	SPEAKER AS	DTC-21U1TM	®
P601A	4850703551	CONNECTOR	YH025- 03+35098+ULW=300	14U,21U
P601A	4850703550	CONNECTOR	YH025- 03+35098+ULW=200	14/20/21 V
P601A	4850703552	CONNECTOR	YH025- 03+35098+ULW=400	20U
P602A	4850703554	CONNECTOR	YH025- 03+35098+ULW=600	14U
P602A	4850703555	CONNECTOR	YH025- 03+35098+ULW=700	20U
P602A	4850703556	CONNECTOR	YH025- 03+35098+ULW=800	21U
SP01	4858314010	SPEAKER	SP-5070F01 3W 8 OHM	
SP02	4858314010	SPEAKER	SP-5070F01 3W 8 OHM	Only U
ZZ290	PTMPMSD344	PCB MAIN MANUAL AS	DTC-21U1TM	®
C101	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C102	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	
C103	CEXF1C222V	C ELECTRO	16V RSS 2200MF (13X25) TP	
C301	CEXF1V471C	C ELECTRO	35V RUS 470MF (10X20) TP	
C302	CCXB2H471K	C CERA	500V B 470PF K (TAPPING)	
C303	CEXF1E102V	C ELECTRO	25V RSS 1000MF (13X20) TP	
C304	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	21"
C304	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP	20"
C304	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP	14"
C305	CMXE2A473J	C MYLAR	100V PU 0.047MF J	
C306	CEXF1V101C	C ELECTRO	35V RUS 100MF (8X11.5) TP	
C307	CMXM2A224J	C MYLAR	100V 0.22MF J	
C313	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C401	CMYE2D394J	C MYLAR	200V PU 0.39MF J	21"
C401	CMYE2D434J	C MYLAR	200V PU 0.43MF J	20"
C401	CMYE2D364J	C MYLAR	200V PU 0.36MF J	14"
C402	CEXF2C109V	C ELECTRO	160V RSS 1MF (6.3X11) TP	
C404	CMYH3C722H	C MYLAR	1.6KV BUP 7200PF H	21"
C404	CMYH3C692J	C MYLAR	1.6KV BUP 6900PF J	20"
C404	CMYH3C692J	C MYLAR	1.6KV BUP 6900PF J	14"
C405	CCXB3D271K	C CERA	2KV B 270PF K (T)	Only 21"
C406	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)	
C410	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
C411	CMYNI1J05K	C MYLAR (MKT)	63V 1MF K (7.5MM)	
C420	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP	
C421	CEXF2E330V	C ELECTRO	250V RSS 33MF (13X25) TP	
C501	CEXF1H478V	C ELECTRO	50V RSS 0.47MF (5X11) TP	
C502	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
C503	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP	
C504	CEXD1H229F	C ELECTRO	50V RND 2.2MF (5X11) TP	
C506	CEXD1H229F	C ELECTRO	50V RND 2.2MF (5X11) TP	
C507	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP	
C511	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP	
C512	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C513	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C514	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C515	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C516	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C517	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C520	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP	
C522	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP	
C523	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C524	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C601	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C602	CEXF1H108V	C ELECTRO	50V RSS 0.1MF (5X11) TP	
C605	CEXF1H108V	C ELECTRO	50V RSS 0.1MF (5X11) TP	Only U
C606	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)TP	
C607	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)TP	Only 21"
C611	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP	
C620	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C701	CZSL1H470J	C CERA	50V SL 47PF J (AXIAL)	
C702	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	
C703	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP	
C704	CEXF1C222V	C ELECTRO	16V RSS 2200MF (13X25) TP	
C706	CEXF1H478V	C ELECTRO	50V RSS 0.47MF (5X11) TP	
C713	CBZ1RC222M	C CERA	16V YSR 2200PF M (AXIAL)	
C801	CL1JB3104M	C LINE ACROSS	AC250V 0.1MF M ECQ-UV WRL	
C803	CCXF3A472Z	C CERA	1KV F 4700PF Z (T)	
C804	CCXF3A472Z	C CERA	1KV F 4700PF Z (T)	
C805	CEYN2G181P	C ELECTRO	400V LHS 180MF (25X35)	
C807	CMYU3C222J	C MYLAR	1.6KV BCP 2200PF J	
C809	CH1AF222M	C CERA AC	4KV 2200PF M KX DE1210	
C814	CCYR3A471K	C CERA	1.6KV R 470PF K 125 DE0705	
C815	CEXF2C101V	C ELECTRO	160V RSS 100MF (16X25) TP	
C816	CCXB2H471K	C CERA	500V B 470PF K (TAPPING)	
C818	CEXF2C101V	C ELECTRO	160V RSS 100MF (16X25) TP	
C819	CEXF2A100C	C ELECTRO	RUS 100V 10MF 5*11	
C820	CEXF1E102V	C ELECTRO	25V RSS 1000MF (13X20) TP	
C821	CEXF1E102V	C ELECTRO	25V RSS 1000MF (13X20) TP	

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
C822	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	
C823	CCXB2H471K	C CERA	500V B 470PF K (TAPPING)	
C824	CCXB2H471K	C CERA	500V B 470PF K (TAPPING)	
C825	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP	
C826	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	
C827	CEXF1C222V	C ELECTRO	16V RSS 2200MF (13X25) TP	
C828	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP	
C829	CEXF1H100V	C ELECTRO	50V RSS 10MF (5X11) TP	
C830	CEXF1C471V	C ELECTRO	16V RSS 470MF (10X12.5)TP	
C841	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)	
C842	CCXB3A102K	C CERA	1KV B 1000PF K (TAPPING)	
C850	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP	
C902	CMXL2E104K	C MYLAR	250V MEU 0.1MF K	
C905	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	
C906	CBXB3D102K	C CERA SEMI	2KV BL(N) 1000PF K (T)	
CC102	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
CC103	HQCK121JCA	C CHIP CERA	50V CH 120PF J 2012	
CC104	HQCK121JCA	C CHIP CERA	50V CH 120PF J 2012	
CC105	HQCK102JCA	C CHIP CERA	50V CH 1000PF J 2012	
CC108	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
CC109	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
CC110	HQCK240JCA	C CHIP CERA	50V CH 24PF J 2012	
CC118	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
CC412	HQCK160JCA	C CHIP CERA	50V CH 16PF J 2012	
CC501	HQCK101JCA	C CHIP CERA	50V CH 100PF J 2012	
CC504	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
CC505	HCBK472KCA	C CHIP CERA	50V X7R 4700PF K 2012	
CC506	HQCK102JCA	C CHIP CERA	50V CH 1000PF J 2012	
CC508	HCBK472KCA	C CHIP CERA	50V X7R 4700PF K 2012	
CC509	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
CC510	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
CC511	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
CC512	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
CC514	HCFK103ZCA	C CHIP CERA	50V Y5V 0.01MF Z 2012	
CC515	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
CC516	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
CC517	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
CC518	HCBK222KCA	C CHIP CERA	50V X7R 2200PF K 2012	
CC519	HCFK334ZCA	C CHIP CERA	50V Y5V 0.33MF Z 2012	
CC520	HQCK102JCA	C CHIP CERA	50V CH 1000PF J 2012	
CC521	HCBK472KCA	C CHIP CERA	50V X7R 4700PF K 2012	
CC522	HQCK102JCA	C CHIP CERA	50V CH 1000PF J 2012	
CC523	HQCK102JCA	C CHIP CERA	50V CH 1000PF J 2012	
CC524	HQCK102JCA	C CHIP CERA	50V CH 1000PF J 2012	
CC526	HCBK223KCA	C CHIP CERA	50V X7R 0.022MF K 2012	
CC533	HCFK103ZCA	C CHIP CERA	50V Y5V 0.01MF Z 2012	

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
CC534	HCFK334ZCA	C CHIP CERA	50V Y5V 0.33MF Z 2012	
CC612	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
CC613	HCFK103ZCA	C CHIP CERA	50V Y5V 0.01MF Z 2012	
CC701	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012	
CC702	HQCK300JCA	C CHIP CERA	50V CH 30PF J 2012	
CC703	HQCK180JCA	C CHIP CERA	50V CH 18PF J 2012	
CC705	HCBK472KCA	C CHIP CERA	50V X7R 4700PF K 2012	
CC707	HQCK820JCA	C CHIP CERA	50V CH 82PF J 2012	
CC708	HCBK472KCA	C CHIP CERA	50V X7R 4700PF K 2012	
CC709	HQCK220JCA	C CHIP CERA	50V CH 22PF J 2012	
CC722	HQCK102JCA	C CHIP CERA	50V CH 1000PF J 2012	
CC723	HQCK220JCA	C CHIP CERA	50V CH 22PF J 2012	
CC724	HQCK560JCA	C CHIP CERA	50V CH 56PF J 2012	
D101	D1N4148---	DIODE	1N4148 (TAPPING)	
D103	D1SS85TA---	DIODE	1SS85TA	
D105	DU2338---	DIODE ZENER	UZ-33B	
D106	D1N4148---	DIODE	1N4148 (TAPPING)	
D107	DMT2J5R1A-	DIODE ZENER	MTJ2J 5.1A (TAPPING)	
D108	D1SS85TA---	DIODE	1SS85TA	
D301	D1N4937G--	DIODE	1N4937G	
D303	D1N4937G--	DIODE	1N4937G	
D304	DBZK55C62-	DIODE ZENER	BZK55C62	
D402	D1N4937G--	DIODE	1N4937G	
D403	D1N4937G--	DIODE	1N4937G	
D404	DDG3-----	DIODE	DDG3	
D410	DMT2J5R1A-	DIODE ZENER	MTJ2J 5.1A (TAPPING)	
D450	D1N4148---	DIODE	1N4148 (TAPPING)	
D452	D1N4148---	DIODE	1N4148 (TAPPING)	
D506	DUZSR68M--	DIODE ZENER	UZ-5.6BM(TAPPING)	
D508	D1N4148---	DIODE	1N4148 (TAPPING)	
D509	D1N4148---	DIODE	1N4148 (TAPPING)	
D510	DUZSR68M--	DIODE ZENER	UZ-5.6BM(TAPPING)	
D512	D1N4148---	DIODE	1N4148 (TAPPING)	
D513	D1N4148---	DIODE	1N4148 (TAPPING)	
D514	D1N4148---	DIODE	1N4148 (TAPPING)	
D601	DUZSR68M--	DIODE ZENER	UZ-5.6BM(TAPPING)	
D603	DUZSR68M--	DIODE ZENER	UZ-5.6BM(TAPPING)	
D604	DUZSR68M--	DIODE ZENER	UZ-5.6BM(TAPPING)	
D620	D1N4148---	DIODE	1N4148 (TAPPING)	
D701	DU23R9B---	DIODE ZENER	UZ-3.9B	
D703	DMT2J5R1A-	DIODE ZENER	MTJ2J 5.1A (TAPPING)	
D706	DLH2PR----	LED BLOCK	LH-2P-R	
D720	D1N4148---	DIODE	1N4148 (TAPPING)	
D806	DRGP30J---	DIODE	RGP30J	
D808	DRGP15J---	DIODE	RGP15J	
D810	D1N4936GP-	DIODE	1N4936GP (TAPPING)	
D812	D1N4936GP-	DIODE	1N4936GP (TAPPING)	
D816	DUZ10BL---	DIODE ZENER	UZ-10BL	
D837	DLT2A05G--	DIODE	LT2A05G (TP)	
D838	DLT2A05G--	DIODE	LT2A05G (TP)	
D839	DLT2A05G--	DIODE	LT2A05G (TP)	
D840	DLT2A05G--	DIODE	LT2A05G (TP)	
D841	DRZ1155V1-	DIODE ZENER	RZ1155V1	
F801	5FSG84022L	FUSE GLASS TUBE	SEMKO TL 4A 250V MF51	
F801A	4857415001	CLIP FUSE	PFCS0000-0702	

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
F801B	4857415001	CLIP FUSE	PFCS0000-0702	
I301	PTA2SW7104	HEAT SINK ASS'Y	1TDA1771-- + 7174301011	
I301	1TDA1771--	IC VERTICAL	TDA1771	(R)
I301A	4857027104	HEAT SINK	SPCC T1.0+SN	
I301B	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFXN	
I501	1STV2238DQ	IC CHIP VIDEO	STV2238D	
I601	1TDA7267A-	IC AMP	TDA7267A	
I601A	4857031500	HEAT SINK	SPCC+SN T1.0	
I602	1TDA7267A-	IC AMP	TDA7267A	Only U
I701	1ST195EPMQ	IC CHIP MICOM OTP	ST92T195Q1/EPM	
I702	1AT24C16PC	IC	AT24C16-10PC	
I703	1KA7805---	IC REGULATOR	KA7805	
I704	1KRT30----	IC PREAMP	KRT30	
I801	4850M04710	MODULE POWER	DPM001T1A	(R)
I805	PTA2SW6904	HEAT SINK ASS'Y	1STV8131-- + 7174301011	
I805	1STV8131--	IC REGULATOR	STV8131	
I805A	4857026904	HEAT SINK	AL EX	
I805B	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFXN	
I901	PTB3SW1100	HEAT SINK ASS'Y	1TDA6103Q- + 7174301011	
I901	1TDA6103Q-	IC VIDEO	TDA6103Q	(R)
I901A	4857031100	HEAT SINK	A1050P-H24 T2.0	
I901B	7174301011	SCREW TAPPTITE	TT2 RND 3X10 MFXN	
JC001	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC002	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC003	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC004	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC005	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC006	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC007	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC008	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC009	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC010	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC011	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC012	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC013	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC014	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC015	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC016	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC017	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC018	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC019	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC020	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC021	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC022	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
JC023	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
L101	58N0000044	COIL VCO	TRF-V010	
L402	58H0000055	COIL H-LINEARITY	TRL-361A	14", 20", 21"
L511	5CP2100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
L701	5CP2100K02	COIL PEAKING	10UH K (AXIAL 3.5MM)	
L702	5CP2569K04	COIL PEAKING	5.6UH K (AXIAL 10.5MM)	
L800	58Q0000093	COIL DELAY LINE	RS208	
L801	5PLF24A4--	FILTER LINE	LF-24A4	
L802	5MC0000100	COIL BEAD	HC-3550	
L803	5MC0000100	COIL BEAD	HC-3550	

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
L805	58CX430599	COIL CHOKE	AZ-9004Y 940K TP	
L806	5CP2100K04	COIL PEAKING	10UH 10.5MM K (LAL04TB)	
L901	485923162S	CONN WAFER	YW025-03 (STICK)	
P401	4859240120	CONN WAFER	YFW500-06	
P401	4859240020	CONN WAFER	YFW500-05	
P401	4859240020	CONN WAFER	YFW500-05	
P601	485923162S	CONN WAFER	YW025-03 (STICK)	
P602	485923162S	CONN WAFER	YW025-03 (STICK)	
P901	4850709N02	CONNECTOR	YBNH250-09YBNT025+ULW=300	
PWC1	PTWASW2910	CORD POWER ASS'Y	4859901111+ HOUSING	(R)
Q101	TKTC3198Y-	TR	KTC3198Y	
Q105	TKTC3198Y-	TR	KTC3198Y	
Q401	TKTC3207--	TR	KTC3207 (TP)	
Q402	T2SD2499--	TR	2SD2499	(R)
Q503	TKTA1266Y-	TR	KTA1266Y (TP)	
Q505	TKTA1266Y-	TR	KTA1266Y (TP)	
Q506	TKTA1266Y-	TR	KTA1266Y (TP)	
Q601	TKTC3198Y-	TR	KTC3198Y	
Q620	TKTA1266Y-	TR	KTA1266Y (TP)	
Q701	TKTA1266Y-	TR	KTA1266Y (TP)	
Q702	TKTC3198Y-	TR	KTC3198Y	
Q703	TKTC3198Y-	TR	KTC3198Y	
Q705	TKTC3198Y-	TR	KTC3198Y	
Q710	TKTC3198Y-	TR	KTC3198Y	
Q801	PTA2SW7611	HEAT SINK ASS'Y	T2SK2677-- + 7174301211	(R)
Q801	T2SK2677--	FET	2SK2677	
Q801A	4857027611	HEAT SINK	AL EX BK	
Q801B	7174301211	SCREW TAPPTITE	TT2 RND 3X12 MFXN	
Q802	TKSA1013Y-	TR	KSA1013Y (TP)	(R)
R101	RD-42242J-	R CARBON FILM	1/4 2.4K OHM J	
R102	RD-42102J-	R CARBON FILM	1/4 1K OHM J	
R103	RD-42432J-	R CARBON FILM	1/4 4.3K OHM J	
R109	RD-42183J-	R CARBON FILM	1/4 18K OHM J	
R110	RD-42102J-	R CARBON FILM	1/4 1K OHM J	
R111	RD-42101J-	R CARBON FILM	1/4 100 OHM J	
R120	RD-42101J-	R CARBON FILM	1/4 100 OHM J	
R301	RD-22249J-	R CARBON FILM	1/2 2.4 OHM J	
R302	RN01B229JS	R METAL FILM	1W 2.2 OHM J SMALL	
R303	RN02B271JS	R METAL FILM	2W 270 OHM J SMALL	
R307	RN02B910JS	R METAL FILM	2W 91 OHM J SMALL	
R308	RN02B910JS	R METAL FILM	2W 91 OHM J SMALL	
R309	RN02B910JS	R METAL FILM	2W 91 OHM J SMALL	
R310	RN02B910JS	R METAL FILM	2W 91 OHM J SMALL	
R312	RN01B479JS	R METAL FILM	1W 4.7 OHM J SMALL	
R401	RN02B222JS	R METAL FILM	2W 2.2K OHM J SMALL	
R402	RS022103JS	R M-OXIDE FILM	2W 10K OHM J SMALL	
R403	RS012479J-	R M-OXIDE FILM	1W 4.7 OHM J (TAPPING)	
R404	RN02B222JS	R METAL FILM	2W 2.2K OHM J SMALL	
R406	RD-22472J-	R CARBON FILM	1/2 2.7K OHM J	
R407	RD-42102J-	R CARBON FILM	1/4 1K OHM J	
R408	RD-42102J-	R CARBON FILM	1/4 1K OHM J	
R409	RD-4Z561J-	R CARBON FILM	1/4 560 OHM J	
R410	RN01B132JS	R METAL FILM	1W 1.3K OHM J SMALL	
R501	RD-42101J-	R CARBON FILM	1/4 100 OHM J	

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
R502	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J	
R503	RN01B300JS	R METAL FILM	1W 30 OHM J SMALL	
R504	RD-42101J-	R CARBON FILM	1/4 100 OHM J	
R512	RD-4Z750J-	R CARBON FILM	1/4 75 OHM J	
R525	RD-4Z104J-	R CARBON FILM	1/4 100K OHM J	
R532	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J	
R601	RD-22271J-	R CARBON FILM	1/2 270 OHM J	
R611	RD-4Z362J-	R CARBON FILM	1/4 3.6K OHM J	
R612	RD-4Z511J-	R CARBON FILM	1/4 510 OHM J	
R613	RN02B129JS	R METAL FILM	2W 1.2 OHM J SMALL	
R614	RN02B129JS	R METAL FILM	2W 1.2 OHM J SMALL	
R615	RN02B182JS	R METAL FILM	2W 1.8K OHM J SMALL	
R715	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J	
R723	RD-4Z332J-	R CARBON FILM	1/4 3.3K OHM J	
R735	RD-4Z103J-	R CARBON FILM	1/4 10K OHM J	
R736	RD-4Z224J-	R CARBON FILM	1/4 220K OHM J	
R753	RD-4Z473J-	R CARBON FILM	1/4 47K OHM J	
R801	DEC140M290	POSISTOR	ECPC140M290	
R802	RX10B339JN	R CEMENT	10W 3.3 OHM J BENCH 4P	
R803	RD-4Z394J-	R CARBON FILM	1/4 390K OHM J	
R804	RD-4Z394J-	R CARBON FILM	1/4 390K OHM J	
R805	RS022129JS	R M-OXIDE FILM	2W 1.2 OHM J SMALL	
R806	RD-4Z363J-	R CARBON FILM	1/4 36K OHM J	
R807	RD-4Z561J-	R CARBON FILM	1/4 560 OHM J	
R808	RS022109JS	R M-OXIDE FILM	2W 1 OHM J SMALL	21"
R808	RS022159JS	R M-OXIDE FILM	2W 1.5 OHM J SMALL	20"
R808	RS022159JS	R M-OXIDE FILM	2W 1.5 OHM J SMALL	14"
R809	RD-4Z363J-	R CARBON FILM	1/4 36K OHM J	
R810	RD-4Z623J-	R CARBON FILM	1/4 62K OHM J	
R812	RC-22B25KP	R CARBON COMP	1/2 8.2M OHM K	
R819	RS022278JS	R M-OXIDE FILM	2W 0.27 OHM J SMALL	
R823	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J	
R824	RD-4Z101J-	R CARBON FILM	1/4 100 OHM J	
R834	RD-4Z392J-	R CARBON FILM	1/4 3.9K OHM J	
R850	RN02B180JS	R METAL FILM	2W 18 OHM J SMALL	
R901	RN01B124JS	R METAL FILM	1W 120K OHM J SMALL	
R902	RN01B124JS	R METAL FILM	1W 120K OHM J SMALL	
R903	RN01B124JS	R METAL FILM	1W 120K OHM J SMALL	
R910	RD-22152J-	R CARBON FILM	1/2 1.5K OHM J	
R911	RD-22152J-	R CARBON FILM	1/2 1.5K OHM J	
R912	RD-22152J-	R CARBON FILM	1/2 1.5K OHM J	
RC101	HRFT511JCA	R CHIP	1/10 510 OHM J 2012	
RC106	HRFT682JCA	R CHIP	1/10 6.8K OHM J 2012	
RC107	HRFT473JCA	R CHIP	1/10 47K OHM J 2012	
RC111	HRFT511JCA	R CHIP	1/10 510 OHM J 2012	
RC114	HRFT432JCA	R CHIP	1/10 4.3K OHM J 2012	
RC115	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
RC118	HRFT223JCA	R CHIP	1/10 22K OHM J 2012	
RC301	HRFT621JCA	R CHIP	1/10 620 OHM J 2012	21"
RC301	HRFT431JCA	R CHIP	1/10 4.3K OHM J 2012	20"
RC301	HRFT471JCA	R CHIP	1/10 470 OHM J 2012	14"
RC302	HRFT242JCA	R CHIP	1/10 2.4K OHM J 2012	
RC303	HRFT562JCA	R CHIP	1/10 5.6K OHM J 2012	
RC304	HRFT302JCA	R CHIP	1/10 3K OHM J 2012	21"
RC304	HRFT242JCA	R CHIP	1/10 2.4K OHM J 2012	20"

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
RC304	HRFT222JCA	R CHIP	1/10 2.2K OHM J 2012	14"
RC306	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012	
RC307	HRFT562JCA	R CHIP	1/10 5.6K OHM J 2012	
RC308	HRFT332JCA	R CHIP	1/10 3.3K OHM J 2012	
RC309	HRFT154JCA	R CHIP	1/10 150K OHM J 2012	
RC310	HRFT103JCA	R CHIP	1/10 10K OHM J 2012	
RC313	HRFT224JCA	R CHIP	1/10 220K OHM J 2012	
RC404	HRFT561JCA	R CHIP	1/10 560 OHM J 2012	
RC405	HRFT512JCA	R CHIP	1/10 5.1K OHM J 2012	21"
RC405	HRFT392JCA	R CHIP	1/10 3.9K OHM J 2012	20"
RC405	HRFT272JCA	R CHIP	1/10 2.7K OHM J 2012	14"
RC406	HRFT512JCA	R CHIP	1/10 5.1K OHM J 2012	Only 21"
RC408	HRFT103JCA	R CHIP	1/10 10K OHM J 2012	
RC419	HRFT152JCA	R CHIP	1/10 1.5K OHM J 2012	
RC420	HRFT394JCA	R CHIP	1/10 390K OHM J 2012	
RC501	HRFT750JCA	R CHIP	1/10 75 OHM J 2012	
RC503	HRFT750JCA	R CHIP	1/10 75 OHM J 2012	
RC504	HRFT750JCA	R CHIP	1/10 75 OHM J 2012	
RC505	HRFT750JCA	R CHIP	1/10 75 OHM J 2012	
RC506	HRFT101JCA	R CHIP	1/10 100 OHM J 2012	
RC507	HRFT103JCA	R CHIP	1/10 10K OHM J 2012	
RC508	HRFT103JCA	R CHIP	1/10 10K OHM J 2012	
RC509	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
RC510	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
RC511	HRFT470JCA	R CHIP	1/10 47 OHM J 2012	
RC512	HRFT123JCA	R CHIP	1/10 12K OHM J 2012	
RC513	HRFT103JCA	R CHIP	1/10 10K OHM J 2012	
RC514	HRFT151JCA	R CHIP	1/10 150 OHM J 2012	
RC515	HRFT000-CA	R CHIP	1/10 0 OHM 2012	
RC516	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
RC517	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
RC518	HRFT101JCA	R CHIP	1/10 100 OHM J 2012	
RC519	HRFT101JCA	R CHIP	1/10 100 OHM J 2012	
RC520	HRFT103JCA	R CHIP	1/10 10K OHM J 2012	
RC521	HRFT363JCA	R CHIP	1/10 36K OHM J 2012	
RC522	HRFT222JCA	R CHIP	1/10 2.2K OHM J 2012	
RC523	HRFT822JCA	R CHIP	1/10 8.2K OHM J 2012	
RC524	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
RC526	HRFT273JCA	R CHIP	1/10 27K OHM J 2012	
RC527	HRFT473JCA	R CHIP	1/10 47K OHM J 2012	
RC528	HRFT221JCA	R CHIP	1/10 220 OHM J 2012	
RC529	HRFT271JCA	R CHIP	1/10 270 OHM J 2012	
RC530	HRFT271JCA	R CHIP	1/10 270 OHM J 2012	
RC531	HRFT271JCA	R CHIP	1/10 270 OHM J 2012	
RC532	HRFT333JCA	R CHIP	1/10 33K OHM J 2012	
RC534	HRFT334JCA	R CHIP	1/10 330K OHM J 2012	
RC535	HRFT184JCA	R CHIP	1/10 180K OHM J 2012	
RC537	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
RC538	HRFT122JCA	R CHIP	1/10 1.2K OHM J 2012	
RC539	HRFT561JCA	R CHIP	1/10 560 OHM J 2012	
RC541	HRFT222JCA	R CHIP	1/10 2.2K OHM J 2012	
RC542	HRFT222JCA	R CHIP	1/10 2.2K OHM J 2012	
RC543	HRFT222JCA	R CHIP	1/10 2.2K OHM J 2012	
RC553	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
RC555	HRFT101JCA	R CHIP	1/10 100 OHM J 2012	
RC560	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012	

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
RC605	HRFT122JCA	R CHIP	1/10 1.2K OHM J 2012	
RC606	HRFT122JCA	R CHIP	1/10 1.2K OHM J 2012	
RC607	HRFT753JCA	R CHIP	1/10 75K OHM J 2012	
RC610	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
RC611	HRFT152JCA	R CHIP	1/10 1.5K OHM J 2012	
RC620	HRFT101JCA	R CHIP	1/10 100 OHM J 2012	
RC621	HRFT104JCA	R CHIP	1/10 100K OHM J 2012	
RC623	HRFT512JCA	R CHIP	1/10 5.1K OHM J 2012	
RC630	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
RC702	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
RC703	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
RC704	HRFT562JCA	R CHIP	1/10 5.6K OHM J 2012	
RC705	HRFT153JCA	R CHIP	1/10 15K OHM J 2012	
RC706	HRFT562JCA	R CHIP	1/10 5.6K OHM J 2012	
RC707	HRFT101JCA	R CHIP	1/10 100 OHM J 2012	
RC708	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
RC709	HRFT222JCA	R CHIP	1/10 2.2K OHM J 2012	
RC710	HRFT222JCA	R CHIP	1/10 2.2K OHM J 2012	
RC711	HRFT222JCA	R CHIP	1/10 2.2K OHM J 2012	
RC712	HRFT101JCA	R CHIP	1/10 100 OHM J 2012	
RC713	HRFT101JCA	R CHIP	1/10 100 OHM J 2012	
RC714	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
RC715	HRFT152JCA	R CHIP	1/10 1.5K OHM J 2012	
RC716	HRFT392JCA	R CHIP	1/10 3.9K OHM J 2012	
RC717	HRFT153JCA	R CHIP	1/10 15K OHM J 2012	
RC719	HRFT332JCA	R CHIP	1/10 3.3K OHM J 2012	
RC720	HRFT271JCA	R CHIP	1/10 270 OHM J 2012	
RC721	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
RC722	HRFT332JCA	R CHIP	1/10 3.3K OHM J 2012	
RC723	HRFT624JCA	R CHIP	1/10 620K OHM J 2012	
RC725	HRFT471JCA	R CHIP	1/10 470 OHM J 2012	
RC726	HRFT103JCA	R CHIP	1/10 10K OHM J 2012	
RC727	HRFT103JCA	R CHIP	1/10 10K OHM J 2012	
RC729	HRFT101JCA	R CHIP	1/10 100 OHM J 2012	
RC730	HRFT332JCA	R CHIP	1/10 3.3K OHM J 2012	
RC733	HRFT101JCA	R CHIP	1/10 100 OHM J 2012	
RC736	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
RC738	HRFT101JCA	R CHIP	1/10 100 OHM J 2012	
RC751	HRFT103JCA	R CHIP	1/10 10K OHM J 2012	
RC752	HRFT682JCA	R CHIP	1/10 6.8K OHM J 2012	
RC754	HRFT333JCA	R CHIP	1/10 33K OHM J 2012	
RC755	HRFT473JCA	R CHIP	1/10 47K OHM J 2012	
RC822	HRFT363JCA	R CHIP	1/10 36K OHM J 2012	
RC828	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
RC829	HRFT102JCA	R CHIP	1/10 1K OHM J 2012	
RC901	HRFT272JCA	R CHIP	1/10 2.7K OHM J 2012	
RC902	HRFT302JCA	R CHIP	1/10 3K OHM J 2012	
RC903	HRFT302JCA	R CHIP	1/10 3K OHM J 2012	
RC904	HRFT302JCA	R CHIP	1/10 3K OHM J 2012	
RC905	HRFT272JCA	R CHIP	1/10 2.7K OHM J 2012	
RC906	HRFT272JCA	R CHIP	1/10 2.7K OHM J 2012	
RC907	HRFT272JCA	R CHIP	1/10 2.7K OHM J 2012	
SCT1	4859303530	SOCKET CRT	PCS629-03C	PHILIPS
SCT1	4859303430	SOCKET CRT	PCS633A	ORION
SCT1	4859303430	SOCKET CRT	PCS633A	CPT
SF101	5PK7257M--	FILTER SAW	K7257M	

LOC	PART CODE	PART NAME	PART DESCRIPTION	REMARK
SF102	5PK9652M--	FILTER SAW	K9652M	
SJ01	4859110750	JACK PIN BOARD	PH-JB-9707A	
SJ02	4859109950	JACK PIN BOARD	PH-JB-9710A	
SW701	5S50101090	SW TACT	SKHV17910A	
SW702	5S50101090	SW TACT	SKHV17910A	
SW703	5S50101090	SW TACT	SKHV17910A	
SW704	5S50101090	SW TACT	SKHV17910A	
SW705	5S50101090	SW TACT	SKHV17910A	
SW801	5S40101146	SW POWER PUSH	SS-160-7-B	
T401	50D10A3---	TRANS DRIVE	TD-10A3	
T402	50H0000198	F8T	FSA37012M	®
T801	50M4242B4-	TRANS SMPS	TSM-4242B4	
U101	4859719930	TUNER VARACTOR	DT5-BF18D	®
X501	5XEX4R433B	CRYSTAL QUARTZ	HC-49U 4.43361M 15PPM TP	
X502	5XEX3R579B	CRYSTAL QUARTZ	HC-49U 3.57954M 15PPM TP	
X701	5XEX4R000C	CRYSTAL QUARTZ	HC-49U 4.0000MHZ (TP)	

■ Inch Different Parts List

LOC	INCH	PART CODE	PART NAME	PART DESCRIPTION	REMARK
C304	14	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP	
	20	CEXF1H220V	C ELECTRO	50V RSS 22MF (5X11) TP	
	21	CEXF1H100V	C ELECTRO	50V RSS 22MF (5X11) TP	
C401	14	CMYE2D334J	C MYLAR	200V PU 0.33MF J	
	20	CMYE2D434J	C MYLAR	200V PU 0.43MF J	
	21	CMYE2D394J	C MYLAR	200V PU 0.39MF J	
C404	14	CMYH3C692J	C MYLAR	1.6KV BUP 6900PF J	
	20	CMYH3C692J	C MYLAR	1.6KV BUP 6900PF J	
	21	CMYH3C722H	C MYLAR	1.6KV BUP 7200PF H	
C405	14	-	-	-	
	20	-	-	-	
	21	CCXB3D271K	C CERA	2KV B 270PF K (T)	
J008	14	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
	20	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	
	21	-	-	-	
L402	14	-	-	-	
	20	-	-	-	
	21	58H0000055	COIL H-LINEARITY	TRL-361A	
P401	14	4859240020	CONN WAFER	YFW500-05	
	20	4859240020	CONN WAFER	YFW500-05	
	21	4859240120	CONN WAFER	YFW500-05	
R401	14	-	-	-	
	20	-	-	-	
	21	RN02B222JS	R METAL FILM	2W 2.2K OHM J SMALL	
R404	14	-	-	-	
	20	-	-	-	
	21	RN02B222JS	R METAL FILM	2W 2.2K OHM J SMALL	
R808	14	RS02Z159JS	R M-OXIDE FILM	2W 1.5K OHM J SMALL	
	20	RS02Z159JS	R M-OXIDE FILM	2W 1.5K OHM J SMALL	
	21	RS02Z109JS	R M-OXIDE FILM	2W 1K OHM J SMALL	
RC301	14	HRFT471JCA	R CHIP	1/10 470 OHM J 2012	
	20	HRFT431JCA	R CHIP	1/10 430 OHM J 2012	
	21	HRFT621JCA	R CHIP	1/10 620 OHM J 2012	
RC304	14	HRFT222JCA	R CHIP	1/10 2.2K OHM J 2012	
	20	HRFT242JCA	R CHIP	1/10 2.4K OHM J 2012	
	21	HRFT302JCA	R CHIP	1/10 3K OHM J 2012	
RC405	14	HRFT392JCA	R CHIP	1/10 3.9K OHM J 2012	
	20	HRFT272JCA	R CHIP	1/10 2.7K OHM J 2012	
	21	HRFT512JCA	R CHIP	1/10 5.1K OHM J 2012	
RC406	14	-	-	-	
	20	-	-	-	
	21	HRFT512JCA	R CHIP	1/10 5.1K OHM J 2012	
SCT1	14	4859303430	SOCKET CRT	PCS633A	
	20	4859303430	SOCKET CRT	PCS633A	
	21	4859303530	SOCKET CRT	PCS629-03C	
V01	14	58D0000082	COIL DY	ODY-M1489	
	20	58D0000083	COIL DY	ODY-M2050	
	21	-	-	-	
V901	14	48A96414P4	CRT BARE	A34JLL90X (K)	
	20	48A96420P4	CRT BARE	A48JLL90X	
	21	4859625560	CRT	A51EFK155X01	

LOC	INCH	PART CODE	PART NAME	PART DESCRIPTION	REMARK
ZZ131	14	48519A4710	CRT GROUND NET	1401S-1015-1P	
	20	48519A5110	CRT GROUND NET	2001S-1015-1P	
	21	48519A5310	CRT GROUND NET	2101S-1015-1P	
ZZ132	14	58G0000084	COIL DEGAUSSING	DC-1450	
	20	58G0000086	COIL DEGAUSSING	DC-2050	
	21	58G0000074	COIL DEGAUSSING	DC-2070	

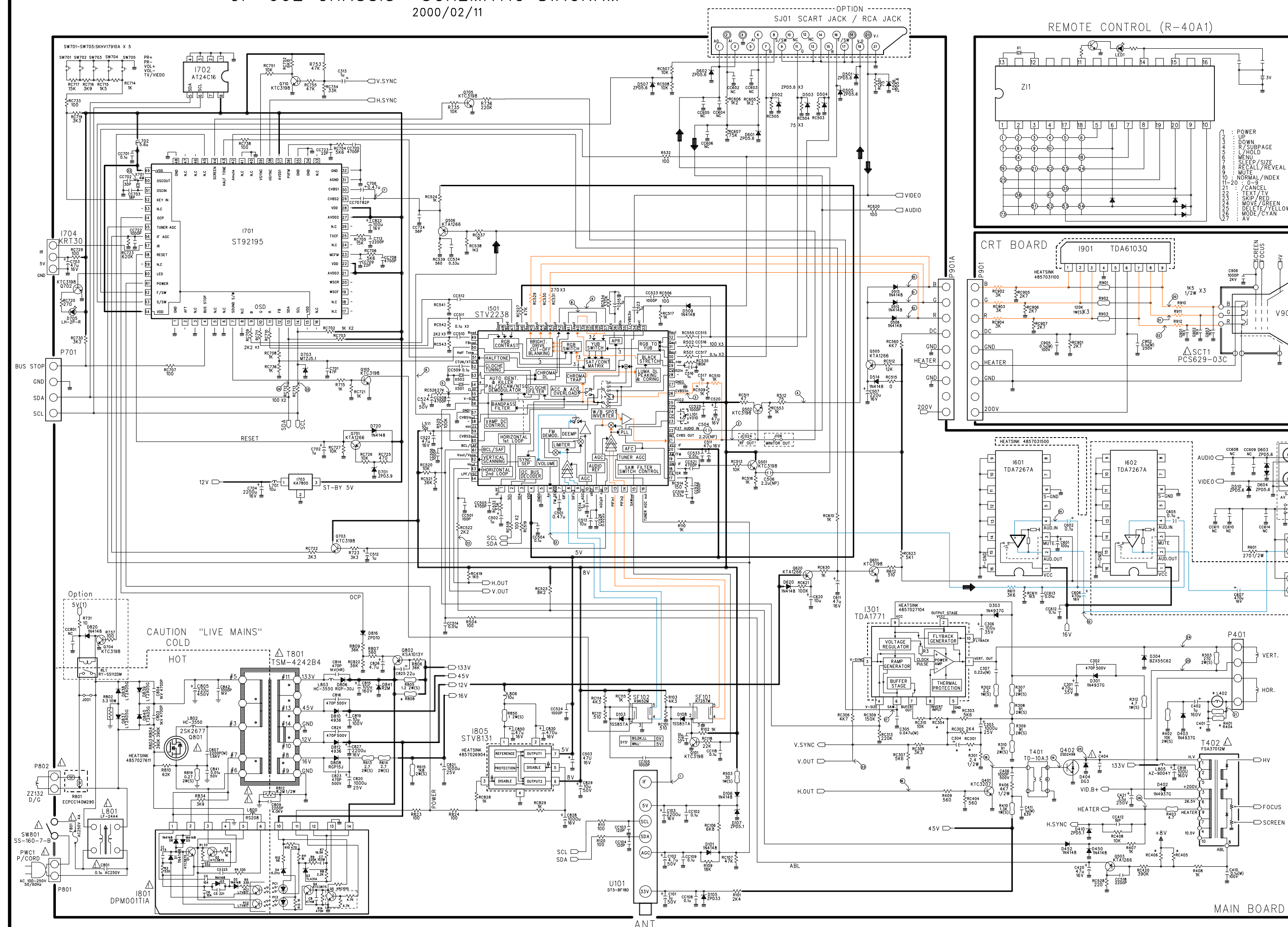
■ Cabinet Parts List

MDL/PARTS	REMOCON	COVER BACK A	CRT AS	MASK FRONT A	PCB MAIN MANUAL	BUTTON CTRL	BUTTON POWER
DTC-14V1TM	48B3740A01	PTBCSHA605	PTRTPWA605	PTFMSJA605	PTMPMSA605	4851931802	4854939103
DTC-14V3TM	48B3740A01	PTBCSHA635	PTRTPWA605	PTFMSJA635	PTMPMSA605	4851931402	4854940103
DTC-14V4TM	48B3740A01	PTBCSHA605	PTRTPWA605	PTFMSJA636	PTMPMSA605	4851934002	4854940803
DTC-14V5TM	48B3740A01	PTBCSHA605	PTRTPWA605	PTFMSJA637	PTMPMSA605	4851934302	4854943503
DTC-14U1TM	48B3740A01	PTBCSHA638	PTRTPWA605	PTFMSJA638	PTMPMSA638	4851931602	4854942703
DTC-20V1TM	48B3740A01	PTBCSHD217	PTRTPWD217	PTFMSJD217	PTMPMSD217	4851932002	4854939503
DTC-20V3TM	48B3740A01	PTBCSHD336	PTRTPWD217	PTFMSJD336	PTMPMSD217	4851933502	4854940003
DTC-20V4TM	48B3740A01	PTBCSHD217	PTRTPWD217	PTFMSJD337	PTMPMSD217	4851934702	4854941303
DTC-20V5TM	48B3740A01	PTBCSHD217	PTRTPWD217	PTFMSJD338	PTMPMSD217	4851933902	4854942403
DTC-20U1TM	48B3740A01	PTBCSHD217	PTRTPWD217	PTFMSJD343	PTMPMSD343	4851934202	4854943303
DTC-21V1TM	48B3740A01	PTBCSHD216	4859625560	PTFMSJD216	PTMPMSD216	4851932302	4854939403
DTC-21V3TM	48B3740A01	PTBCSHD339	4859625560	PTFMSJD339	PTMPMSD216	4851932502	4854940503
DTC-21V4TM	48B3740A01	PTBCSHD216	4859625560	PTFMSJD340	PTMPMSD216	4851930902	4854941403
DTC-21U1TM	48B3740A01	PTBCSHD344	4859625560	PTFMSJD344	PTMPMSD344	4851937302	4854943003
DTC-21U3TM	48B3740A01	PTBCSHD345	4859625560	PTFMSJD345	PTMPMSD345	4851933802	4854943003

 : Video
 : Audio

CP-002 CHASSIS SCHEMATIC DIAGRAM

2000/02/11



NOTE:

- NOTE:
1. RESISTANCE IS SHOWN IN OHM. K=1000, M=1000000
 2. UNLESS OTHERWISE NOTED IN SCHEMATIC ALL CAPACITOR VALUES ARE EXPRESSED IN μF
 3. VOLTAGES READ WITH "VTVM" FROM POINT INDICATED TO CHASSIS GROUND USING A COLOR BAR SIGNAL WITH ALL CONTROLS AT NORMAL LINE 230V AC. VOLTAGE READINGS SHOWN ARE NORMAL VALUES AND MAY VARY +20% EXCEPT H.V.
 4. THIS CIRCUIT DIAGRAM IS A STANDARD ONE CIRCUIT PRINTED MAY BE SUBJECT TO CHANGE FOR PRODUCT IMPROVEMENT WITHOUT PRIOR NOTICE

WARNING:

BEFORE SERVICING THE CHASSIS, READ "X-RAY RADIATION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" IN SERVICE MANUAL.

PRODUCT SAFETY NOTE
COMPONENTS MARKED WITH  ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET AND SHOULD BE REPLACED ONLY WITH TYPES IDENTICAL TO THOSE IN THE ORIGINAL OR SPECIFIED ONE IN THE PARTS LIST. DON'T DEGRADE THE SAFETY THROUGH IMPROPER SERVICING.

THE DIFFERENT PARTS OF SIZE

NO	LOC	14"	20"	21"
1	CRT Y901	ORION A34JLL90X(K)	CPT A48JLL90X	ORION A51EFK155X01
2	D/COIL	DC-1450	DC-2050	DC-2070
3	CRT G/A	1401S-	2001S-	2101S-
4	SC11	PCS633A	PCS633A	PCS629-03C
5	P401	YFWS500-05	YFWS500-05	YFWS500-06
6	L402	X	X	TRL-361A
7	J008	JUMPER	JUMPER	X
8	R808	2W 1.5	2W 1.5	2W 1.0
9	RC405	3.9K	2.7K	5.1K
10	RC406	X	X	5.1K
11	C401	0.36MF 200V	0.43MF 200V	0.39MF 200V
12	C404	6900P 1.6KV	6900P 1.6KV	7200P 1.6KV
13	C405	X	X	2KV 270P
14	R401	X	X	2W 2K2
15	R404	X	X	2W 2K2
16	RC301	470	430	620
17	RC304	2.2K	2.4K	3K
18	C304	22u	22u	10u
19	R808	1.5 2W	1.5 2W	1 2W

* WAVEFORMS

1. TEST EQUIPMENTS : DIGITAL OSCILLOSCOPE (Tektronix TDX 460)
2. TEST CONDITIONS : PAL-B/G FULL COLOR BAR (NORMAL 1)
1KHZ SINEWAVE(SOUND MAX)

