

# 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

✓ **Caution** In this Service Manual, some parts can be changed for improving, their performance without notice in the parts list. So, if you need the latest parts information, please refer to PPL (Parts Price List) in Service information Center (<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
	<ul style="list-style-type: none"> <li>- . CHILD Lock (CH Lock)</li> <li>- . 16 : 9 MODE</li> <li>- . ZOOM MODE</li> <li>- . Blue Back (ON/OFF)</li> <li>- . Local Key Menu Control</li> <li>- . Arrow puzzle Game</li> <li>- . Monitor out</li> <li>- . Simple SCART</li> <li>- . Twitter Speaker</li> </ul>	<ul style="list-style-type: none"> <li>- . CHILD Lock (Security code Lock)</li> <li>- . OSD MESH</li> <li>- . 16 : 9 MODE</li> <li>- . ZOOM MODE</li> <li>- . Blue Back (ON/OFF)</li> <li>- . Local Key Control Menu Control</li> <li>- . Monitor out</li> <li>- . Simple SCART</li> <li>- . Twitter Speaker</li> <li>- . TELETEXT : 8 PAGE TELETEXT TOP/FLOF MODE</li> </ul>

**DAEWOO ELECTRONICS CO., LTD**

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

JAN. 2000

DAEWOO

# Important Service Notes

## 1. X-ray Radiation Precaution

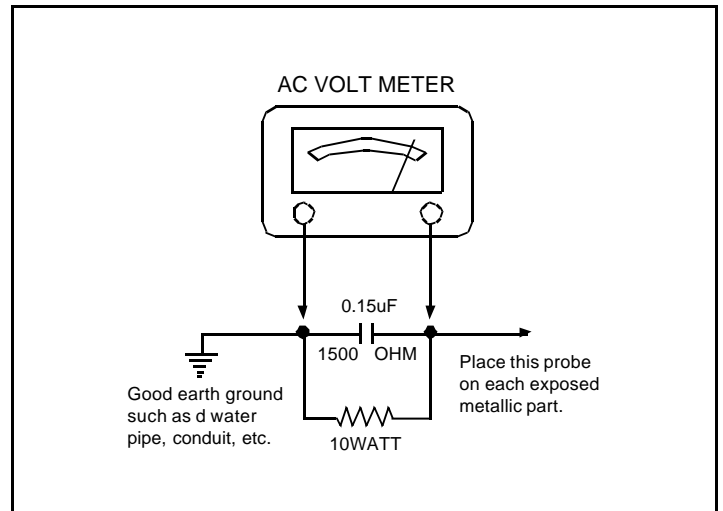
- 1) Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is 25.5kv(20"/21") & 23.5kv(14") at zero beam current (minimum brightness) under a 120V/220V 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 a 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 milliamperes 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.

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# ■ Alignment Instructions

## 1. AFT

- 1) Set a signal Generator with
  - RF FREQUENCY = 38.9MHz, 34.2MHz (L)
  - RF OUTPUT LEVEL =  $80 \pm 5$ 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.

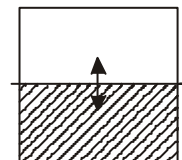
## 5. FOCUS

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

## 6. GEOMETRY

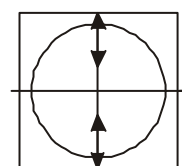
### 6.1 VERTICAL CENTER

- 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.



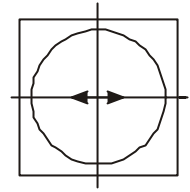
### 6.2 VERTICAL SIZE

- \* 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.

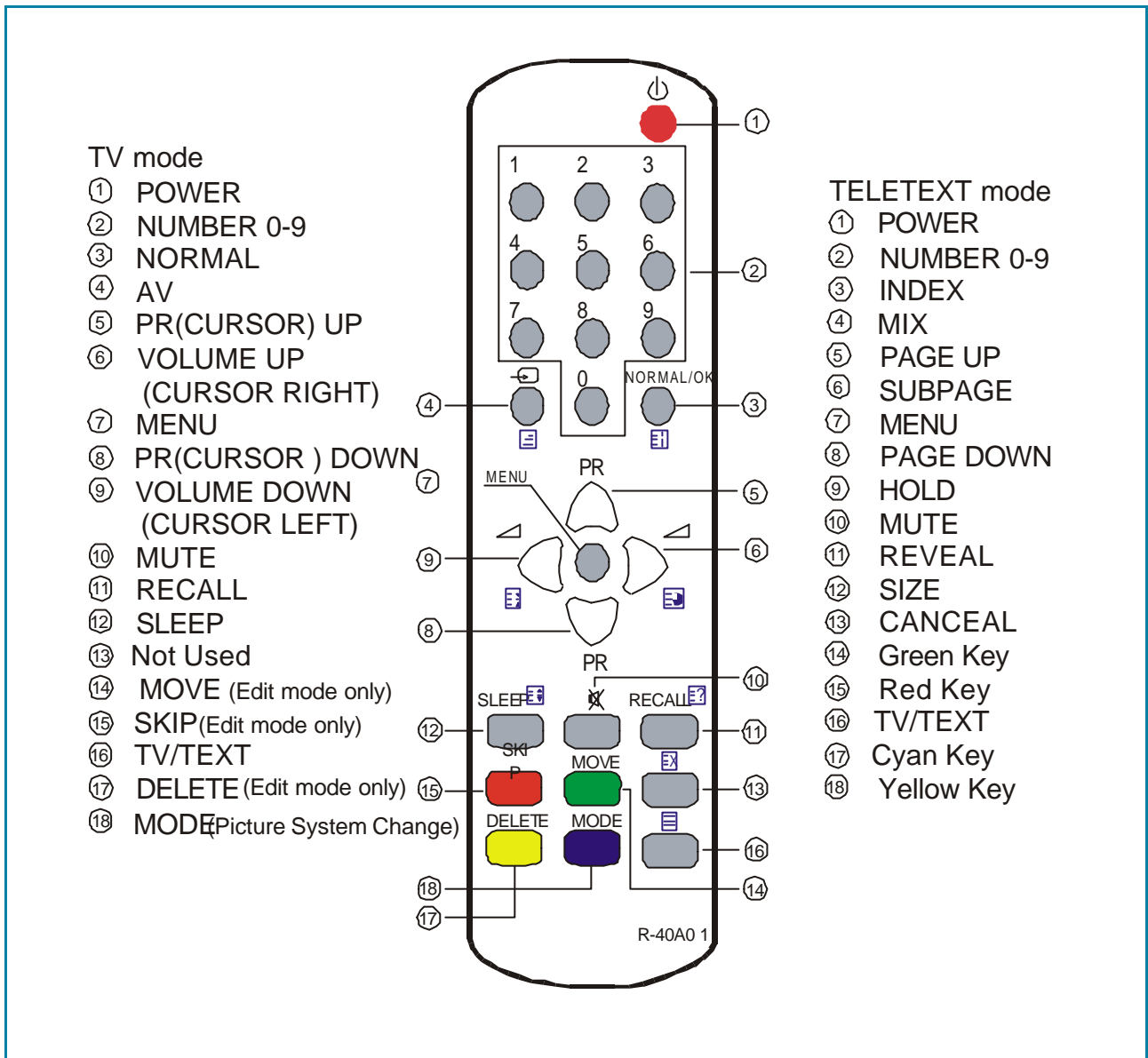


### 7. DATA PRESET(D.P) ADJUSTMENTS

- 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!".



\* How to enter "Service Mode" with user remote.

1. Select CH number 91.
2. Adjust sharpness to minimum.
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







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	HRFT204JCA	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	FBT	FA37012M	®
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**

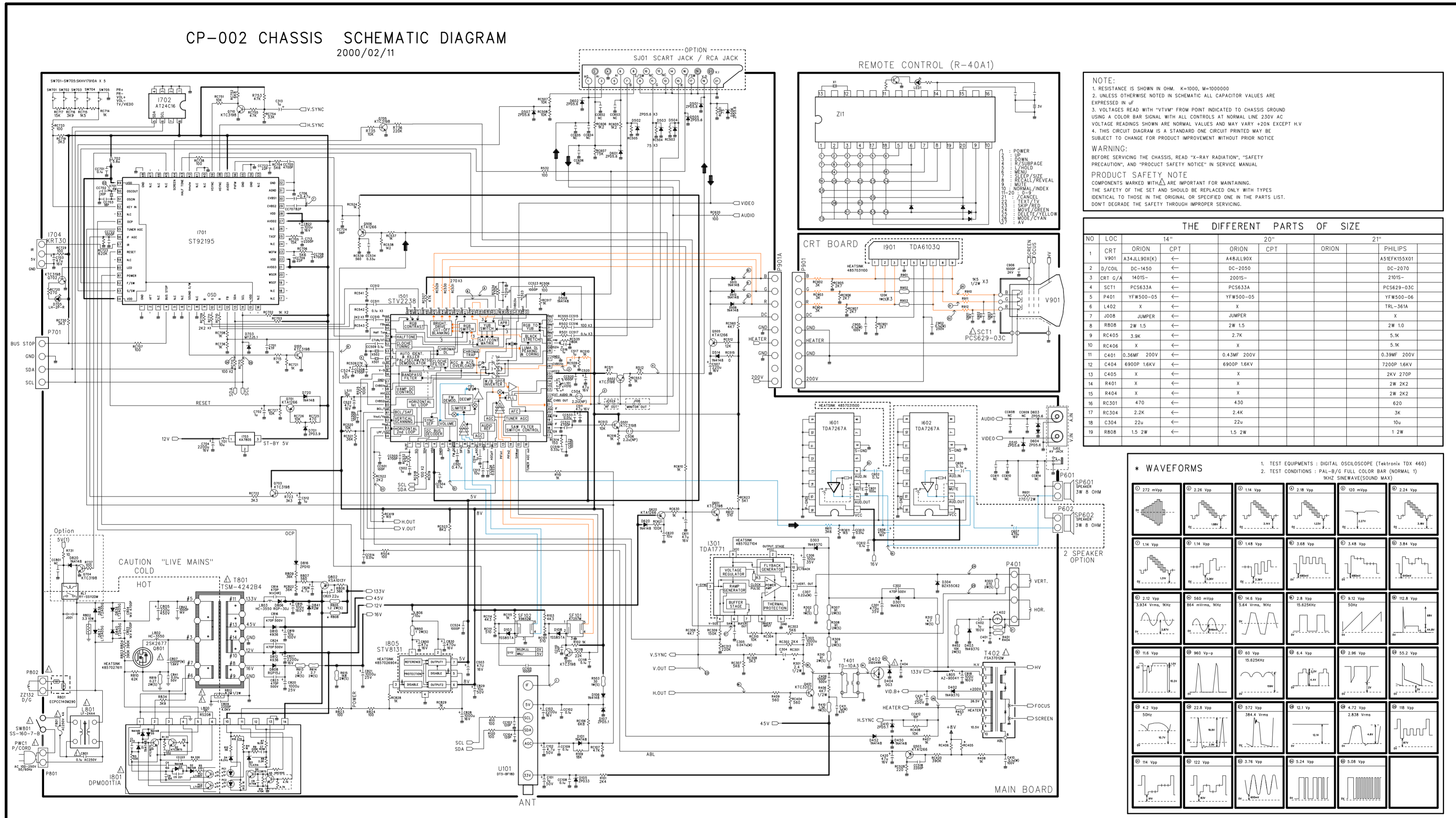
MDL/PARTS	REMOCON	COVER BACK A	CRT AS	MASK FRONT A	PCB MAIN MANUAL	BUTTON CTRL	BUTTON POWER
DTC-14V1TM	48B3740A01	PTBCSHA605	PTRTPWA605	PTFMSJA605	PTMPMSA605	4851931802	4854939103
DTC-14V3TM	48B3740A01	PTBCSHA635	PTRTPWA605	PTFMSJA635	PTMPMSA605	4851931402	4854940103
DTC-14V4TM	48B3740A01	PTBCSHA605	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:**  
 1. RESISTANCE IS SHOWN IN OHM. K=1000, M=1000000  
 2. UNLESS OTHERWISE NOTED IN SCHEMATIC ALL CAPACITOR VALUES ARE EXPRESSED IN  $\mu$ F  
 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  $\pm 20\%$  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 PRECAUTIONS", AND "PRODUCT SAFETY NOTICE" IN SERVICE MANUAL

**PRODUCT SAFETY NOTE**  
 COMPONENTS MARKED WITH  $\Delta$  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	ORION A34JL90X(K)	ORION A48JL90X	PHILIPS A5EFK155X01
2	D/COIL	DC-1450	DC-2050	DC-2070
3	CRT G/V	1401S	2001S	2101S
4	SCT1	PC5633A	PC5633A	PC5629-03C
5	P401	YFW500-05	YFW500-05	YF#500-06
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

