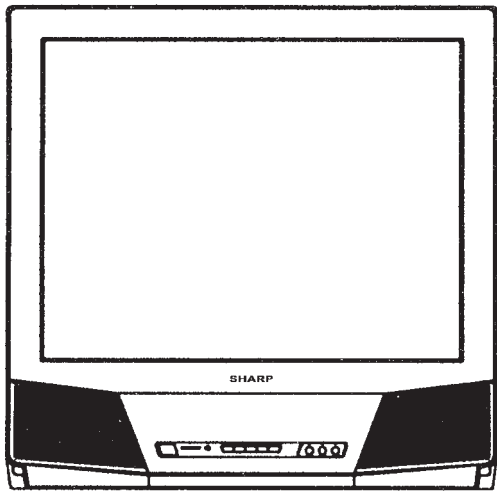


SHARP SERVICE MANUAL

SY8A725WG3///



COLOUR TELEVISION
Chassis No. SS-1

MODEL **25WG3**

In the interests of user-safety (Required by safety regulations in some countries) the set should be restored to its original condition and only parts identical to those specified be used.

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WARNING

The chassis in this receiver is partially hot. Use an isolation transformer between the line cord plug and power receptacle, when servicing this chassis.
To prevent electric shock, do not remove cover. No user-serviceable parts inside. Refer servicing to qualified service personnel.

SHARP CORPORATION

FEATURE

- PAL B/G, AV NTSC System
- Auto Search Tuning System
- 100-CH Program Memory
- AV Stereo sound
- High Contrast Picture (Black Stretch Circuit)
- CATV (Hyper Band) Ready<Used Frequency Synthesizer Tuner>
- 7 Mode Surround system
- Picture Signal Improvement Circuit
- 2 Language OSD
- On Timer/ Sleep Timer/ Reminder Timer
- Picture Noise Reduction Circuit
- Blue Back Noise Mute
- Front AV-In & Rear AV-In/Out Terminals

SPECIFICATIONS

Convergence.....	Self Convergence System
Focus	Bi-Potential, Uni-Potential Electrostatic
Sweep Deflection	Magnetic
Intermediate Frequency	
Picture IF Carrier	38.9 MHz
Sound IF Carrier	33.16/33.4 MHz
Colour Sub-Carrier	34.47 MHz
Power Input	AC 110-240V, 50/60Hz (Auto)
Power Consumption	130W
Audio Power Output Rating	7.5 W x 2(Max)
Speaker	
Size	10 cm Round x 2pcs.
Voice Coil Impedance	8 ohm at 400 Hz
Aerial Input Impedance	75 ohm Unbalanced
Receiving Channels	
PAL-B/G	
VHF	E2(44.25MHz) thru E12(463.25 MHz)
UHF	E21(471.25 MHz) thru E69(863.25 MHz)
Dimensions (Approx.)	574.0 (W) x 564.5 (H) x 499.0 (D) mm
Weight (Approx.)	28 kg
Cabinet Material	Plastics

Specifications are subject to change without notice.

ADJUSTMENT PRECAUTIONS

This model's setting are adjusted in two different ways: through the I²C bus control and in the conventional analog manner. The adjustments via the I²C bus control include preset-only items and variable data.

1. Calling the service mode by the microprocessor.

- (1) Set the switch S1006 to the service mode position, and the microprocessor is put service mode. (Adjustment through the I²C bus control)
- (2) Press the CH UP key on the remote controller to get ready to select the mode one by one.
- (3) Press the CH DOWN key on the remote controller to select the modes reversely one by one.
- (4) Using the VOLUME UP/ VOLUME DOWN key on the remote controller, the data can be modified.
- (5) Set the switch S1006 to the normal mode (OFF) position, and the microprocessor is put out of the service mode.

2. Factory Presettings.

- (1) Set the switch S1006 to the service mode position and turn on the main power switch. Initial values are automatically preset only when a new E²PROM is used (judgement with the first 4 bytes).
- (2) The initial data are preset as listed in page 5~6.
- (3) Make sure the data need modify or not (Initial data).

IMPORTANT

Note: Once the chassis has been put together and ready to be POWER ON for the FIRST TIME, make sure to set the switch S1006 to the service mode position first and then turn on the main power switch (See 2-(1) above).

IMPORTANT SERVICE NOTES

Maintenance and repair of this receiver should be done by qualified service personnel only.

SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

When servicing the high voltage system, remove static charge from it by connecting a 10k ohm Resistor in series with an insulated wire (such as a test probe) between picture tube dag and 2nd anode lead. (AC line cord should be disconnected from AC outlet.)

1. Picture tube in this receiver employs integral implosion protection.
2. Replace with tube of the same type number for continued safety.
3. Do not lift picture tube by the neck.
4. Handle the picture tube only when wearing shatterproof goggles and after discharging the high voltage completely.

X-RAY

This receiver is designed so that any X-Ray radiation is kept to an absolute minimum. Since certain malfunctions or servicing many produce potentially hazardous radiation with prolonged exposure at close range, the following precautions should be observed:

1. When repairing the circuit, be sure not to increase the high voltage to more than 32.0 kV (at beam 0μA) for the set.
2. To keep the set in a normal operation, be sure to make it function on 29.0 ± 1.5kV (at beam 1300μA) in the case of the set. The set has been factory-Adjusted to the above mentioned high voltage.
3. Do not substitute a picture tube with unauthorized types and/or brands which may cause excess X-Ray radiation.

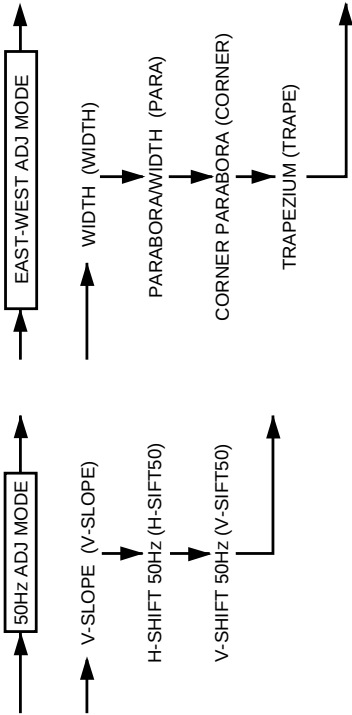
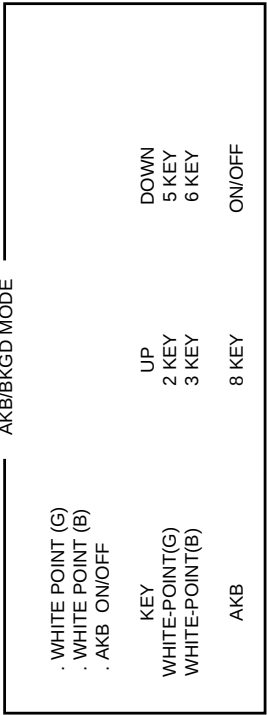
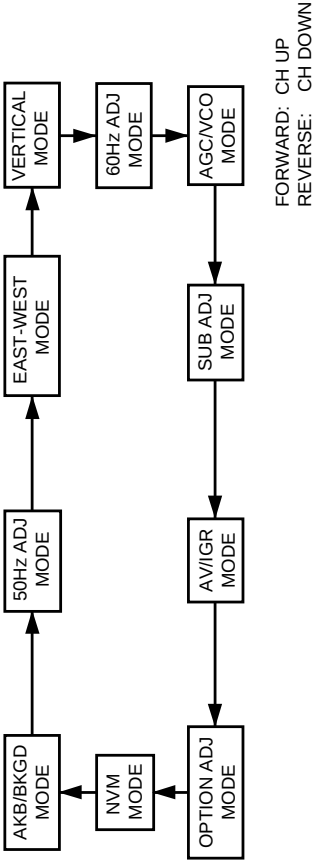
BEFORE RETURNING THE RECEIVER

Before returning the receiver to the user, perform the following safety checks.

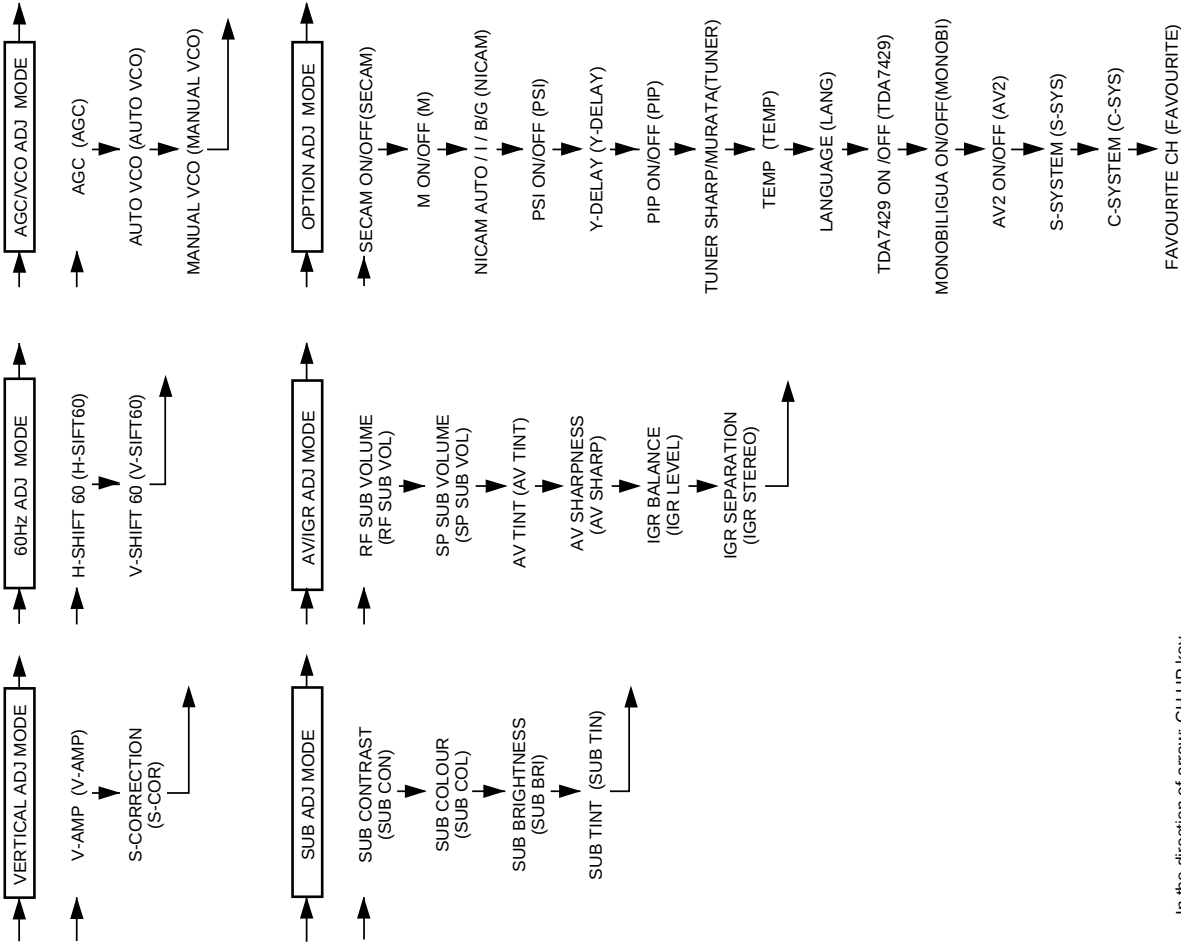
1. Inspect all lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective device such as non-metallic control knobs, insulating fishpapers, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators etc.

SERVICE MODE

1.) In the Service Mode, Key is used to select the mode in the following order.



In the direction of arrow: CH UP key
In the opposite direction : CH DOWN key
* The character in parentheses appear on the on-screen display.



In the direction of arrow: CH UP key
In the opposite direction: CH DOWN key
* The character in parentheses appear on the on-screen display.

INITIAL SETTING OF E²PROM

E ² PROM ITEMS	DATA LENGTH	INITIAL DATA	REMARK
AKB	ON/OFF	ON	
WHITE POINT (R)	0~ 63	32	
WHITE POINT (G)	0~ 63	32	
WHITE POINT (B)	0~ 63	32	
V-SLOPE	0~ 63	25	
H-SHIFT 50Hz	0~ 63	25(TV)	
V-SHIFT 50Hz	0~ 63	32 (TV)	
WIDTH	0~ 63	48	
PARA	0~ 63	36	
CORNER	0~ 63	28	
TRAP	0~ 63	32	
V-AMP	0~ 63	17	
S-COR	0~ 63	15	
H-SHIFT 60Hz	0~ 63	31(TV)	
V-SHIFT 60Hz	0~ 63	26(TV)	
AGC	0~ 63	15	
AUTO VCO	0~127	NG 55	
MANUAL VCO	0~127	55	
SUB-CONTRAST	0~ 63	63	
SUB COLOUR	0~ 63	19	
SUB BRIGHT	0~ 63	31	
SUB TINT	0~ 63	27	
RF SUB VOLUME	0~ 63	35	
SP SUB VOLUME	0~ 63	55	
AV TINT	0~ 63	00	
AV SHARP	0~ 63	00	
IGR LEVEL	0~10	05	
IGR STEREO	0~ 31	24	
SECAM	ON/OFF	ON	
M	ON/OFF	ON	
NICAM	AUTO/BG/I	AUTO	
PSI	ON/OFF	ON	
Y-DELAY	0~ 15	09(TV), 09(AV)	
PIP	ON/OFF	OFF	
TUNER	SHARP/MURATA	SHARP	
TEMP	0~1	0	
LANG	ON/OFF	ON	
TDA7429	ON/OFF	ON	
MONOBI	ON/OFF	ON	
AV2	ON/OFF	ON	
S-SYS	ON/OFF	ON	
C-SYS	ON/OFF	ON	
FAVOURITE CH	ON/OFF	ON	
NVM	-	-	

MCL1 & MCL2 CHANNEL SETTING

1). In service mode, After execute select POS 1, setting the following data in E²PROM.

MCL1 (R/C CODE =117)			MCL2 (R/C CODE=169)		
CH-NO	Fv (MHz)	SOUND SYS	CH-NO	Fv (MHz)	SOUND SYS
1	48.25	AUTO	1	46.25	AUTO
2	62.25	AUTO	2	64.25	AUTO
3	77.25	AUTO	3	86.25	AUTO
4	175.25	AUTO	4	95.25	AUTO
5	182.25	AUTO	5	138.25	AUTO
6	183.25	AUTO	6	175.25	AUTO
7	191.25	AUTO	7	182.25	AUTO
8	196.25	AUTO	8	189.25	AUTO
9	210.25	AUTO	9	196.25	AUTO
10	224.25	AUTO	10	209.25	AUTO
11	471.25	AUTO	11	216.25	AUTO
12	487.25	AUTO	12	SKIP OFF FREE	
13	503.25	AUTO	13	SKIP OFF FREE	
14	575.25	AUTO	14	SKIP OFF FREE	
15	599.25	AUTO	15	SKIP OFF FREE	
16	621.25	4.5 M	16	SKIP OFF FREE	
17	639.25	AUTO	17	SKIP OFF FREE	
18	703.25	AUTO	18	527.25	AUTO
19	735.25	AUTO	19	847.25	AUTO
20	767.25	AUTO	20	48.25	AUTO
21	815.25	AUTO	21	175.25	AUTO
22	855.25	AUTO	22	210.25	AUTO
23	855.25	AUTO	23	224.25	AUTO
24	55.25	4.5 M	24	575.25	AUTO
25	83.25	4.5 M	25	599.25	AUTO
26	183.25	4.5 M	26	767.25	AUTO
27	193.25	4.5 M	27	183.25	4.5 M
28	217.25	4.5 M	28	193.25	4.5 M
29	471.25	4.5 M	29	112.25	AUTO
30	477.25	4.5 M	30	168.25	AUTO
31	693.25	4.5 M	31	SKIP OFF FREE	
32	SKIP OFF FREE		32	294.25	AUTO
33	112.25	AUTO	33	463.25	AUTO
34	169.25	AUTO	34	174.95	AUTO
35	SKIP OFF FREE		35	175.55	AUTO
36	294.25	AUTO	36	SKIP OFF FREE	
37	463.25	AUTO	37	SKIP OFF FREE	
38	SKIP OFF FREE		38	SKIP OFF FREE	
39	647.25	AUTO	39	SKIP OFF FREE	

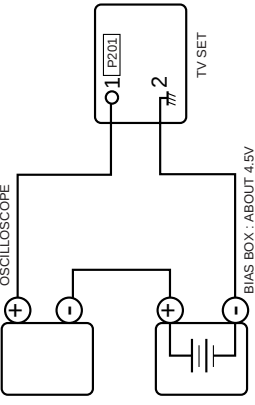
SHIPPING SETTING IX3097CEN2

MCL1 (R/C CODE =117)			MCL2 (R/C CODE=169)		
CH-NO	Fv (MHz)	SOUND SYS	CH-NO	Fv (MHz)	SOUND SYS
40	663.25	AUTO	40	SKIP OFF	FREE
41	679.25	AUTO	41	SKIP OFF	FREE
42	174.95	AUTO	42	SKIP OFF	FREE
43	175.55	AUTO	43	SKIP OFF	FREE
44	SKIP OFF	FREE	44	SKIP OFF	FREE
45	SKIP OFF	FREE	45	SKIP OFF	FREE
↓	SKIP OFF	FREE	↓	SKIP OFF	FREE
99	SKIP OFF	FREE	99	SKIP OFF	FREE

NO	ITEMS	SETTING 1	SETTING 2		
1	SKIP POS 0	ON	->		
2	SKIP POS 1 ~99	OFF	->		
3	AFT	ON	->		
4	COLOUR SYSTEM	AUTO	->		
5	SOUND SYSTEM	BG	BG		
6	IGR FORCE FM	OFF	->		
7	IGR STEREO	STEREO	->		
8	IGR BILINGUAL	MAIN	->		
9	NICAM FORCE FM	OFF	->		
10	NICAM BILINGUAL	M1	->		
11	LAST POWER	ON	->		
12	LAST TV/AV	TV	->		
13	DIGIT	2 DIGIT	->		
14	LANGUAGE	ENGLISH	THAI		
15	BLUE BACK	ON	->		
16	AV SELECT ON/OFF	OFF	->		
17	AV SELECT STD/GAME	STD	->		
18	LAST POSITION	1	->		
19	LAST FB POSITION	1	->		
20	VOLUME	0 (MIN)	->		
21	BALANCE	0 (L,R)	->		
22	BASS	0	->		
23	MIDDLE	0	->		
24	TREBLE	0	->		
25	SURROUND	OFF	->		
26	CONTRAST	63	->		
27	COLOUR	31	->		
28	BRIGHTNESS	31	->		
29	TINT	31	->		
30	SHARPNESS	31	->		
31	TIMER	CLEAR	->		
32	SAVE	OFF	->		
33	PICTURE NR	OFF	->		
34	INSET TINT	31	->		
35	PIP DISPLAY POS	SE	->		
36	PIP SIZE	L	->		
37	PIP LAST POS	1	->		
38	PIP LAST TV/AV	TV	->		
39	FREEZE	OFF	->		
40	MONORAL BILINGUAL	S 1	->		

SERVICE ADJUSTMENT

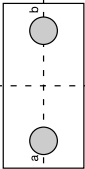
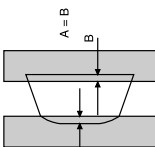
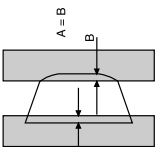
VCO, AND AGC ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
1	VCO ADJUSTMENT (I ² C BUS CONTROL)	1. Receive E-10CH (210.25MHz) "PAL COLOUR BAR" signal. 2. Call "AUTO VCO" in SERVICE mode. If the Channel frequency displays on screen is 210.20MHz, skip (3), (4) & (5) steps. 3. Press FUNCTION button to call "DIRECT FREQ IN". 4. Push "2", "1", "0", "2", "0". 5. Then Press FUNCTION again. 6. Press Volume UP to run "AUTO VCO". Once finishing, "OK" message display on screen.	Signal Strength: 60 ~ 70 dB
2	AGC ADJUSTMENT (I ² C BUS CONTROL)	7. Receive E-12CH (PAL COLOR BAR) signal. Signal strength : 57 ± 1 dB (75ohm open) 8. Connect the oscilloscope to P201 (Tuner's AGC Terminal) as shown in Figure 1.  Figure 1 9. Call "AGC" in SERVICE mode. 10. Increase or decrease "AGC" by using Volume so that obtain the highest Voltage. 11. Press Volume slowly in the opposite direction until the voltage drops 0.1V ~ 0.3V lower than the highest level. 12. Change the antenna input signal to 63 ~ 67dBμV, and make sure there is no noise. 13. Turn up the input signal to 90 ~ 95 dBμV to be sure that there is no cross modulation beat.	

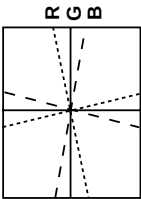
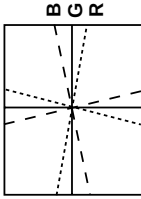
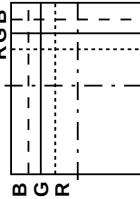
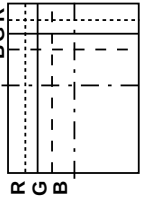
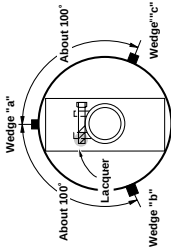
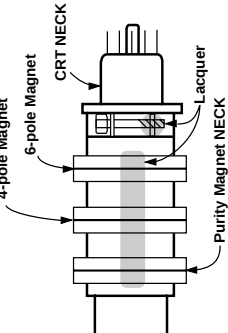
SOUND ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
1	RF SUB VOLUME (I ² C BUS CONTROL)	1. Receive "PAL COLOUR BAR" signal. Audio signal: 400 Hz, 100% modulated (50kHz dev.) 2. Connect the Oscilloscope to the Audio Out (L or R) terminal. (Terminate with 10k ohm impedance). 3. Call the "RF SUB VOL" in SERVICE mode. 4. Increase or decrease "RF SUB VOL" by using Volume UP/DOWN key, so that the 400Hz sine wave be 1.76Vp-p. Tolerance: 1.76 Vp-p $\pm$ 0.10 Vp-p.	
2	SP SUB VOLUME (I ² C BUS CONTROL)	5. Receive "COLOUR BAR" signal. Audio signal: 400Hz, 100%modulation. (50kHz dev.) 6. Connect Dummy load* to P3304. 7. Connect VTVM's probe to the P3304. (1 R, 2 GND, 3 GND, 4 L, 5 NIL, 6 NIL, 7 NIL, 8 NIL) 8. Call the "SP SUB VOL" in the SERVICE mode. 9. Increase or decrease "SP SUB VOL" by using Volume UP/DOWN key, so that the VTVM should read the value*.	*Note : Terminated 8 ohm to get 7.75 $\pm$ 0.1Vrms. (L Channel)
3	NOISE MUTE CHECKING	10. Receive the 400Hz modulated signal. 11. Turn up the volume control to Maximum and make sure the sound is heard from the speakers. Then put the unit in the no-signal state. 12. Be sure that the sound mute is effective. 13. Finally turn down the volume control to minimum.	

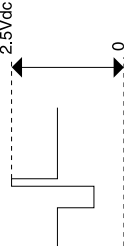
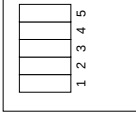
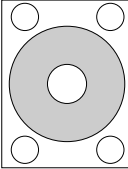
PURITY ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
1	PURITY ADJ.	1. Receive the GREEN -ONLY signal. Adjust the beam current to ~800µA. 2. Orient the raster rotation to 0 eastward. 3. Degauss the CRT enough with the degaussing coil. 4. Maintain the purity magnet at the zero magnetic field and keep the static convergence roughly adjusted. 5. Observe the points a, b, as shown in Fig.2-1 through the microscope. Adjust the landings to A rank requirement. 6. Tighten up the deflection coil screws. Tightening torque : 108N ± 20N (11Kgf ± 2Kgf) 7. Make sure the CRT corners landing meet the A rank requirements. If not, stick the magnet sheet to correct it. Note: This adjustment must be done after warming up the unit for 30 minutes or longer with a beam current over 1000µA. Note: Set the service mode by service switch (S 1006) then press factory process R/C RGB key to change to green only. * For the following colour press colour key to change. GREEN ONLY BLUE ONLY RED ONLY COLOUR ABSOLVED	 Figure 2-1  Figure 2-2 Rank A (On the right of CRT)  Figure 2-3 Rank A (On the left of CRT) Text Key "R.G.Cy" Key can be directly use to change to other colours screen.

CONVERGENCE ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
1	CONVERGENCE ADJ. (To be done after the purity adjustment.)	1. Receive the "CROSSHATCH PATTERN" signal. 2. Using the remote controller, call NORMAL mode. (Static convergence) 1. Turn the 4 - pole magnet to a proper opening angle in order to superpose the blue and red colours. 2. Turn the 6 - pole magnet to a proper opening angle in order to superpose the green colour over the blue and red colours. (Dynamic convergence) 1. Adjust the convergence on the fringes of the screen in the following steps. a) Fig. a : Drive the wedge at point "a" and swing the deflection coil upward. b) Fig. b : Drive the wedge at point "a" and "b" and swing the deflection coil downward. c) Fig. c : Drive the "c" wedge deeper and swing the deflection coil rightward. d) Fig. d : Drive the "b" wedge deeper and swing the deflection coil leftward. 2. Fix all the wedges on the CRT and apply glass tape over them. 3. Apply lacquer to the deflection yoke lock screw, magnet unit (purity 4 - pole, 6 - pole magnets) and magnet unit lock screw. Finally received the Red - only and Blue - only signals to make sure there is no other colours on the screen.	 Figure a  Figure b  Figure c  Figure d  Figure 3  Figure 4

CUT OFF , WHITE BALANCE, SUB - BRIGHT, & FOCUS ADJUSTMENT.

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
1	CRT Cut - OFF ADJ. (I ² C BUS CONTROL)	1. Switch TV to VIDEO MODE, Blue Back: OFF, Without Video Signal. 2. Connect the oscilloscope to TP851. (Use a 10:1 probe) Range: 500mV/div Sweep Time: 5ms/div Press "DC" mode 3. Using the remote controller, call NORMAL mode. 4. Adjust Screen VR so that the tip of signal reach 2.5Vdc $\pm$ 0.1Vdc.	 Figure 5
2	White Balance ADJ. (I ² C BUS CONTROL)	5. Receive the MONOSCOPE PATTERN signal. 6. Call the "BKGD" in SERVICE mode. 7. Adjust "White Point (G)", "White Point (B)" data to have a colour temperature of 12300k (White) Note.	Note : White Point (G) UP " 2 " KEY DOWN " 5 " KEY White Point (B) UP " 3 " KEY DOWN " 6 " KEY As the above data can be UP / DOWN. *12300k x=272 y=275 (Minolta Colour Analyzer CA-100)
3	SUB- BRIGHT ADJ. (I ² C BUS CONTROL)	8. Receive the "CROSSHATCH PATTERN" Signal. 9. Call the "SUB BRI" in SERVICE mode. 10. Adjust the "SUB-BRI" bus data, so that the No. 2 line inside the window area will disappear. Note: Before starting this adjustment, warm up the unit for 30 minutes or longer at a beam current of 1200 ~ 1300μA.	 Figure 6
4	BEAM CURRENT CHECK	11. Receive the "MONOSCOPE PATTERN" Signal. 12. Press P-NORMAL key. 13. Connect the DC Milliammeter between TP601 (-) and TP602 (+). (Full Scale: 3.0 mA Range). 14. Beam current Must be 1200 $\pm$ 100μA.	
5	FOCUS ADJ.	1. Receive the "MONOSCOPE PATTERN" signal. 2. Using the remote control, call NORMAL mode. 3. Adjust the FOCUS control so that the shaded area of screen be in optimal focus.	 Figure 7

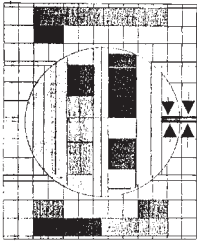
HORIZONTAL, VERTICAL, DEFLECTION LOOP ADJUSTMENT.

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
1	V-SLOPE ADJ. (I ² C BUS CONTROL)	1. Receive the "MONOSCOPE PATTERN" signal. 2. Call the "V-SLOPE" in SERVICE mode. 3. Increase or decrease "V-SLOPE" by using Volume key so that the center line of picture matches with the edge of blanking line.	SPEC: $\pm$ 1 SCANNING LINE
2	V-SHIFT 50 (I ² C BUS CONTROL)	1. Receive the 50Hz "MONOSCOPE PATTERN" signal. 2. Call the "V-SIFT 50" in SERVICE mode. 3. Increase or decrease the "V-SIFT 50" by using Volume UP/DOWN key to adjust or align the screen center with the CRT's geometrical center.	SPEC: $\pm$ 2mm
	V-SHIFT 60 (I ² C BUS CONTROL)	4. Receive the 60 Hz "MONOSCOPE PATTERN" signal. 5. Call the "V-SIFT 60" in SERVICE mode. 6. Increase or decrease the "V-SIFT 60" by using Volume UP/DOWN key to adjust or align the screen center with the CRT's geometrical center.	
3	V-AMP (I ² C BUS CONTROL)	1. Receive the "MONOSCOPE PATTERN" signal. 2. Call the "V-AMP" in SERVICE mode. 3. Increase or decrease the "V-AMP" by using the volume UP/DOWN key to adjust the Vertical size until it is 8.5% overscan.	OVER SCAN: 8.5% $\pm$ 1.5 %
4	H-SHIFT 50 (I ² C BUS CONTROL)	1. Receive the 50Hz "MONOSCOPE PATTERN" signal. 2. Call the "H-SIFT 50" IN SERVICE MODE. 3. Increase or decrease the "H-SIFT 50" by using the Volume UP/DOWN key to adjust or align the left, and right sides of screen are equal overscan size.	SPEC: $\pm$ 2mm
	H-SHIFT 60 (I ² C BUS CONTROL)	4. Receive the 60Hz "MONOSCOPE PATTERN" signal. 5. Call the "H-SIFT 60" IN SERVICE MODE. 6. Increase or decrease the "H-SIFT 60" by using the Volume UP/DOWN key to adjust or align the left and right sides of screen are equal overscan size.	

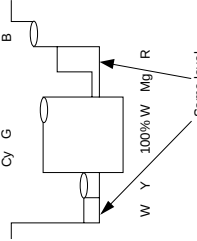
HORIZONTAL, VERTICAL, DEFLECTION LOOP ADJUSTMENT.

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
5	S-COR (I ² C BUS CONTROL)	1. Receive the "CROSSHATCH PATTERN" signal. 2. Call the "S-COR" IN SERVICE mode. 3. Increase or decrease the "S-COR" by using the Volume UP/DOWN key to get the best LINEARITY. 4. Adjustment with S-COR: OVERALL VERTICAL LINEARITY. 5. Readjust the "V-AMP" to make the overscan 8.5%. Readjust or align "V-SIFT" to match the screen center with the CRT's geometrical center.	V-LINEARITY: ± 5% Max

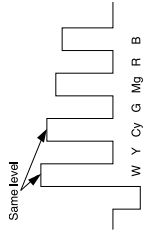
Y DELAY ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
1	Y DELAY (I ² C DATA)	(1) Receive the PAL B/G PHILIPS pattern signal. (2) Switch on service mode then press channel up/down key to select Y DELAY mode. (3) Press volume up/down key to select a suitable number so that luminance delay similar to color delay, shown as fig. 10. (4) The Y DELAY data is between 6~8. (5) Switch off the service mode.	 same distance Figure 10

PAL CHROMA ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
1	SUB COLOUR ADJ. (I ² C BUS CONTROL)	1. Receive the "PAL Color Bar" signal. 2. Using remote controller, call NORMAL mode. 3. Connect the oscilloscope to TP852 (Red cathode). Range: 20 V/Div (Using 10:1 Probe) Sweep: 20 μ sec/Div 4. Using the R/C call "SUB COL" adjustment mode. Adj SUB-COL bus data, so that the 75% White & Red portions of PAL Color Bar be at the same level. 5. Clear the adjustment mode.	 Figure 8

NTSC CHROMA ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
1	AV-TINT (I ² C BUS CONTROL)	1. Receive the AV NTSC 3.58 Colour Bar signal. 2. Connect the oscilloscope to TP853. Range: 500mV/Div Sweep time: 20 μ sec/Div 3. Set the "SUB-TIN" mode at service mode. Adjust the "SUB TIN" bus data so that the FIRST AND SECOND portions of the colour Bar are SAME level shown in Figure 9.	 Figure 9 Note: Be sure that AV TINT set to 00 at SERVICE mode.

OPTION ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
1	SECAM SETTING	1. Call "SECAM" in SERVICE mode. 2. Switch the "SECAM" by using the Volume UP/DOWN key to "OFF".	
2	M SETTING	1. Call "M" in SERVICE mode. 2. Switch the "M" by using the Volume UP/DOWN key to "OFF".	
3	S-SYS SETTING	1. Call "S-SYS" in SERVICE mode. 2. Switch the "S-SYS" by using the Volume UP/DOWN key to "OFF".	
4	C-SYS SETTING	1. Call "C-SYS" in SERVICE mode. 2. Switch the "C-SYS" by using the Volume UP/DOWN key to "OFF".	

■ A/V INPUT/OUTPUT CHECKING

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
1	VIDEO & AUDIO OUTPUT CHECKING	1. Receive the "PAL COLOUR BAR" signal (100% White Color Bar Sound 400 Hz 100% Modulation) 2. Terminate the Video output with a 75 ohm impedance. Make sure the output is as specified (1.0 Vp-p $\pm$ 3 dB) 3. Terminate the Audio output with a 10 Kohm impedance. Make sure the O/P is as specified (1.76 Vp-p $\pm$ 3 dB).	
2	VIDEO & AUDIO INPUT CHECKING	1. Using the TV/AV key on the remote controller, make sure that the modes change in order of TV, AV1, AV2 & TV again and that the video & audio output are according to the input terminal for each mode.	
3	AUTO SELECT	1. Connect Video signal to FRONT AV (AV2). 2. Make sure Channel switch from other channel to AV2 automatically.	

■ PROTECTOR OPERATION CHECKING

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
1	BEAM PROTECTOR	1. Receive the "MONOSCOPE PATTERN" signal. 2. Set CONTRAST MAX. 3. Set BRIGHT MAX. 4. While the R or B or G Cathode short to ground, make sure the protector ON and switch to standby mode.	

■ PROTECTOR OPERATION CHECKING

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
2	H, V PROTECTOR	1. Receive the "MONOSCOPE PATTERN" signal. 2. Connect output of Bias Box to D601 cathode (D608). 3. Set voltage of Bias Box to 20V and make sure the protector is work.	
3	OTHER PROTECTOR	1. Once finish rectified Electrolytic Capacitor short testing in + B line, check all possible damaged components on +B line.	

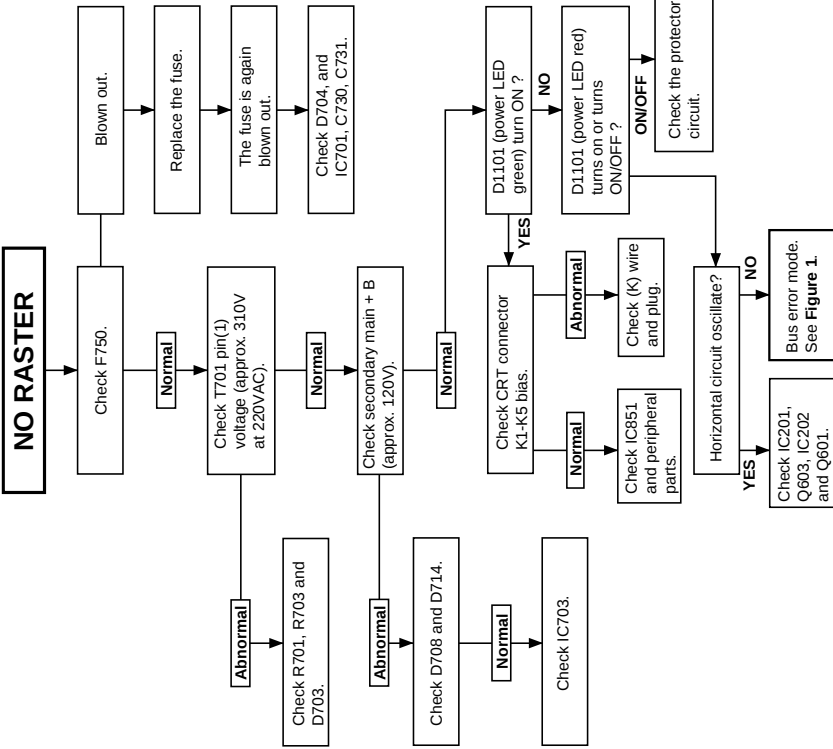
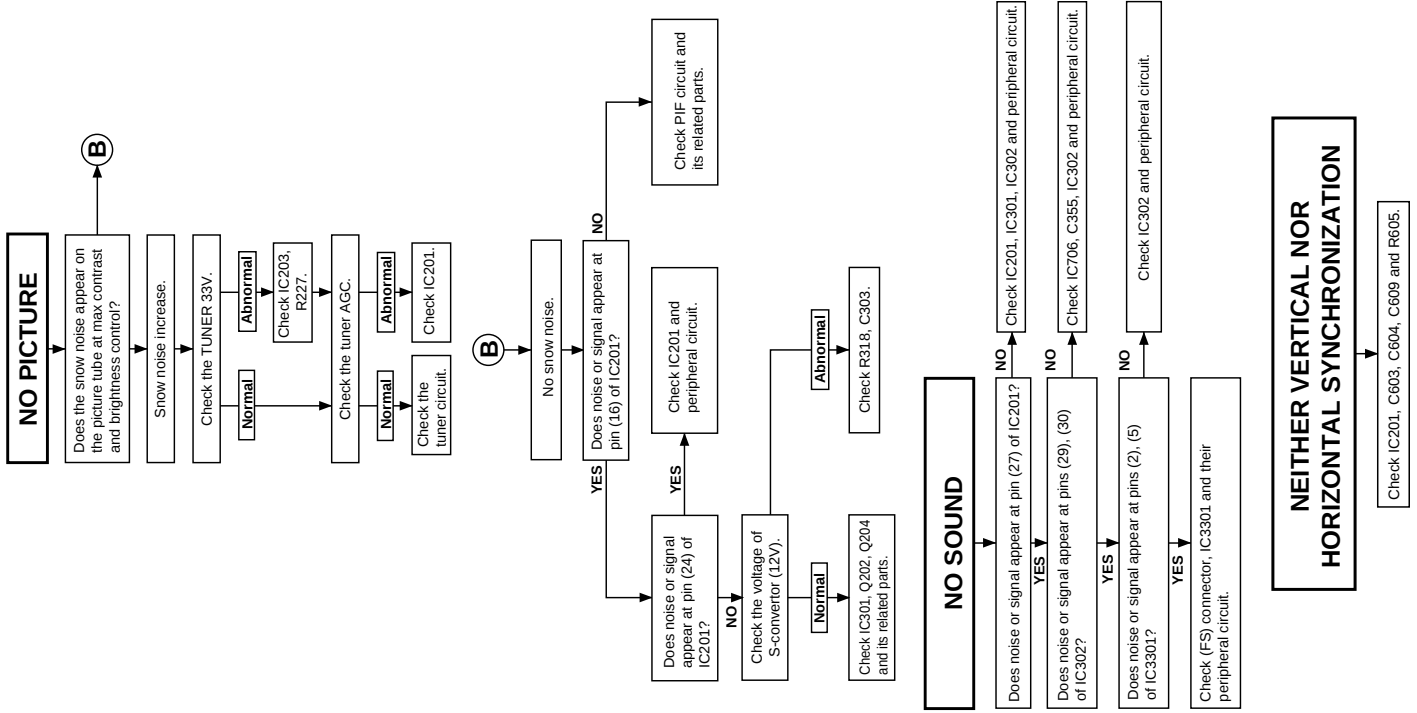
■ CHECKING OPERATION (VIDEO & AUDIO)

NO	CHECKING POINT	SETTING CONDITION	WAVEFORM OR OTHERS
1	CONTRAST	1. Receive the "MONOSCOPE PATTERN" signal. 2. Press the CH UP/DOWN key for PICTURE control setting with R/C, select the CONTRAST. 3. Increase or decrease the CONTRAST by using the VOLUME UP / DOWN key. 4. Check whether the CONTRAST is OK or not.	
2	COLOUR	1. Receive the "COLOUR BAR PATTERN" signal. 2. Press the CH UP / DOWN key for PICTURE control setting with the R/C, select the COLOUR. 3. Increase or decrease the COLOUR by using the VOLUME UP / DOWN key. 4. Check whether the COLOUR is OK or not.	
3	BRIGHTNESS	1. Receive the "MONOSCOPE PATTERN" signal. 2. Press the CH UP / DOWN key for PICTURE control setting with the R/C, select the BRIGHTNESS . 3. Increase or decrease the BRIGHTNESS by using the VOLUME UP / DOWN key. 4. Check whether the BRIGHTNESS is OK or not.	
4	SHARPNESS	1. Receive the "MONOSCOPE PATTERN" signal. 2. Press the CH UP / DOWN key for PICTURE control setting with the R/C, select the SHARPNESS. 3. Increase or decrease the SHARPNESS by using the VOLUME UP / DOWN key. 4. Check whether the SHARPNESS is OK or not.	
5	WHITE TEMP	1. Receive the "MONOSCOPE PATTERN" signal. 2. Press the CH UP / DOWN key for PICTURE control setting with the R/C, select WHITE TEMP. 3. Increase or decrease the WHITE TEMP by using the VOLUME UP / DOWN key. 4. Check whether the WHITE TEMP is OK or not.	

CHECKING OPERATION (VIDEO & AUDIO)

NO	CHECKING POINT	SETTING CONDITION	WAVEFORM OR OTHERS
6	NORMAL	1. Receive the "COLOUR BAR PATTERN" signal. 2. Press NORMAL key to set the picture condition to normal . When the NORMAL key is pressed, all the initial picture control settings will be preset to normal setting as listed below: Contrast: MAX. Colour: CENTER Brightness: CENTER Tint: CENTER Sharpness: CENTER	If nothing is display mean contrast, colour, bright, tint, sharpness are all in normal setting.
7	CH COLOUR DISPLAY	All Ch (1~99) will have an OSD display of the channel number in green colour under AFT ON condition.	
8	BASS	1. Receive the MUSIC SOUND SIGNAL. 2. Press the CH UP / DOWN key for SOUND control setting with the R/C, select the BASS. 3. Increase or decrease the BASS by using the VOLUME UP / DOWN key. 4. Check whether the BASS (low frequency) is OK or not.	
9	MIDDLE	1. Receive the MUSIC SOUND SIGNAL. 2. Press the CH UP / DOWN key for SOUND control setting with the R/C, select the MIDDLE. 3. Increase or decrease the MIDDLE by using the VOLUME UP / DOWN key. 4. Check whether the MIDDLE (MIDDLE frequency) is OK or not.	
10	TREBLE	1. Receive the MUSIC SOUND SIGNAL. 2. Press the CH UP / DOWN key for SOUND control setting with the R/C, select the TREBLE. 3. Increase or decrease the TREBLE by using the VOLUME UP / DOWN key. 4. Check whether the TREBLE (HIGH frequency) is OK or not.	
11	BALANCE	1. Receive the MUSIC SOUND SIGNAL. 2. Press the CH UP / DOWN key for SOUND control setting with the R/C, select the BALANCE. 3. Increase or decrease the left or right speaker BALANCE by using the VOLUME UP / DOWN key. 4. Check whether the BALANCE of left and right speakers is OK or not.	
12	NORMAL	1. Receive the MUSIC SOUND SIGNAL. 2. Press NORMAL key to set the sound condition to normal . When the NORMAL key is pressed, all the initial sound control settings will be preset to normal setting as listed below: BASS: CENTER MIDDLE: CENTER TREBLE: CENTER BALANCE: CENTER	If nothing is display mean contrast, colour, bright, tint, sharpness are all in normal setting.
13	SURROUND	1. Receive the MUSIC SOUND SIGNAL. 2. Press the CH UP / DOWN key for SURROUND control setting with the R/C. 3. Press Volume Up to switch Surround Mode as follows, MOVIE/DISCO/POP/ROCK/CLASSIC/SPORTS/SIMULATED/OFF. 4. Make sure each mode is working properly.	
14	COLOUR SYSTEM	1. Receive the "PAL COLOUR BAR PATTERN" signal. Press the SYSTEM key to set the COLOUR SYSTEM MODE to AUTO mode. Check whether the colour of the PAL Colour Bar signal is OK or not. 2. Receive the "NTSC 4.43 COLOUR BAR" signal. Press the SYSTEM key to set the COLOUR SYSTEM mode to AUTO mode. Check whether the colour of the N4.43 Colour Bar signal is OK or not. 3. Receive the "NTSC 3.58 COLOUR BAR" signal. Press the SYSTEM key to set the COLOUR SYSTEM mode to AUTO mode. Check whether the colour of the N3.58 Colour Bar signal is OK or not.	
15	FUNCTION	1. Press FUNCTION key to select each mode as follows, SAVE/ AV SELECT/NR/BLUE BACK/OSD. 2. Press Volume Up to switch each mode, make sure each mode is working properly.	
16	NOISE MUTE CHECKING	1. Receive "PAL COLOUR BAR" signal. 2. Turn up the volume control to maximum, make sure the sound is heard from the speakers. Then put the unit in no signal state. 3. Be sure that the sound mute is effective. 4. Finally turn down the volume of CTV to minimum.	
17	BILINGUAL	1. Receive "DUAL SOUND" signal. 2. Press CH UP/DOWN key for SOUND control setting with the R/C, select BILINGUAL. 3. Press VOLUME UP/DOWN to select SOUND 1 & SOUND 2. 4. Check whether SOUND 1 & SOUND 2 are okay separately or not.	

TROUBLESHOOTING



If bus error happen, the LED RED (pin (30) of IC1001 low) indicator starts flashing and the power is turned off.
The power key is still effective.

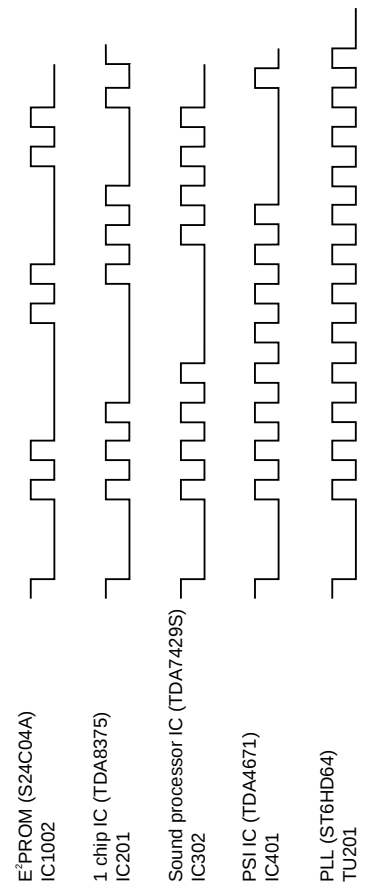
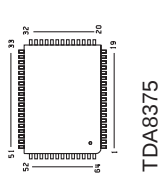


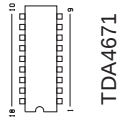
Figure 1

SOLID STATE DEVICE BASE DIAGRAM

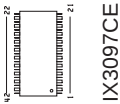
TOP VIEW



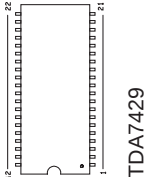
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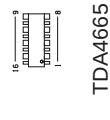
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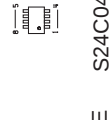
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TDA7429

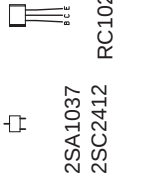


TDA4665



FX0024CE S24C04A1

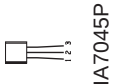
SIDE VIEW



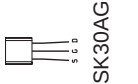
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RC102M



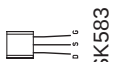
2SA1015
2SC1815



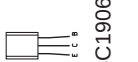
KIA7045P



2SK30AG



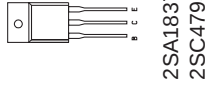
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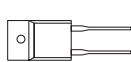
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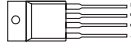
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2SA1837
DX0355CE
2SC4793



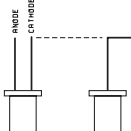
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KIA7805P
KIA7808P



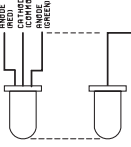
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PQ09RD
PQ05RD



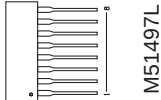
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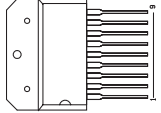
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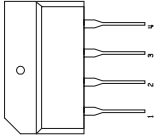
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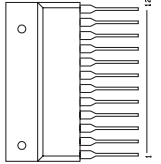
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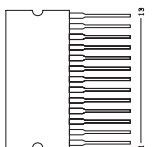
TDA6107



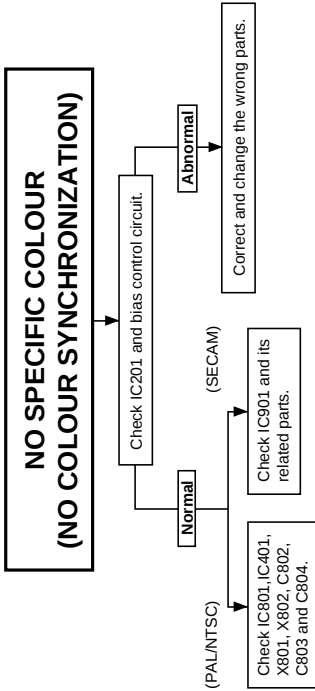
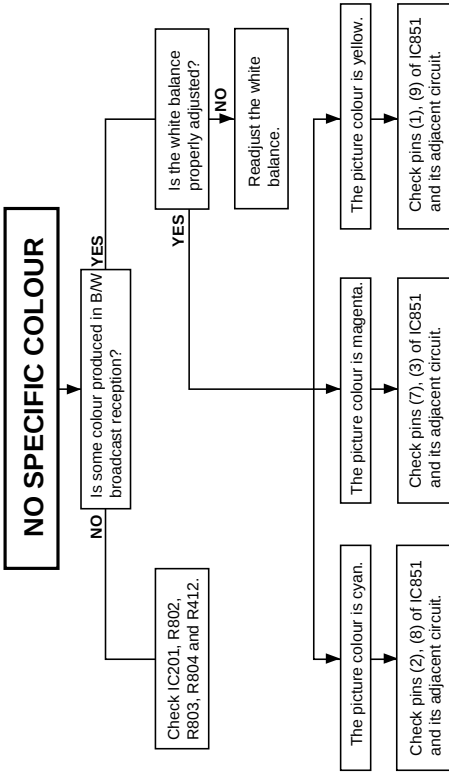
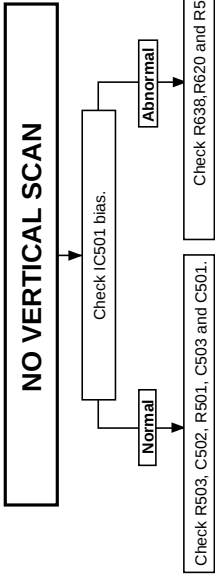
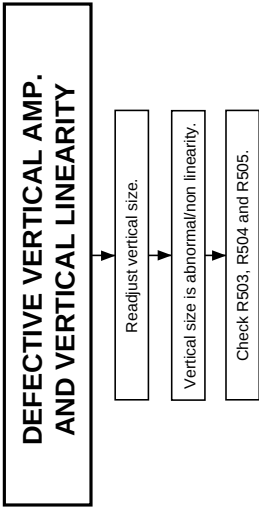
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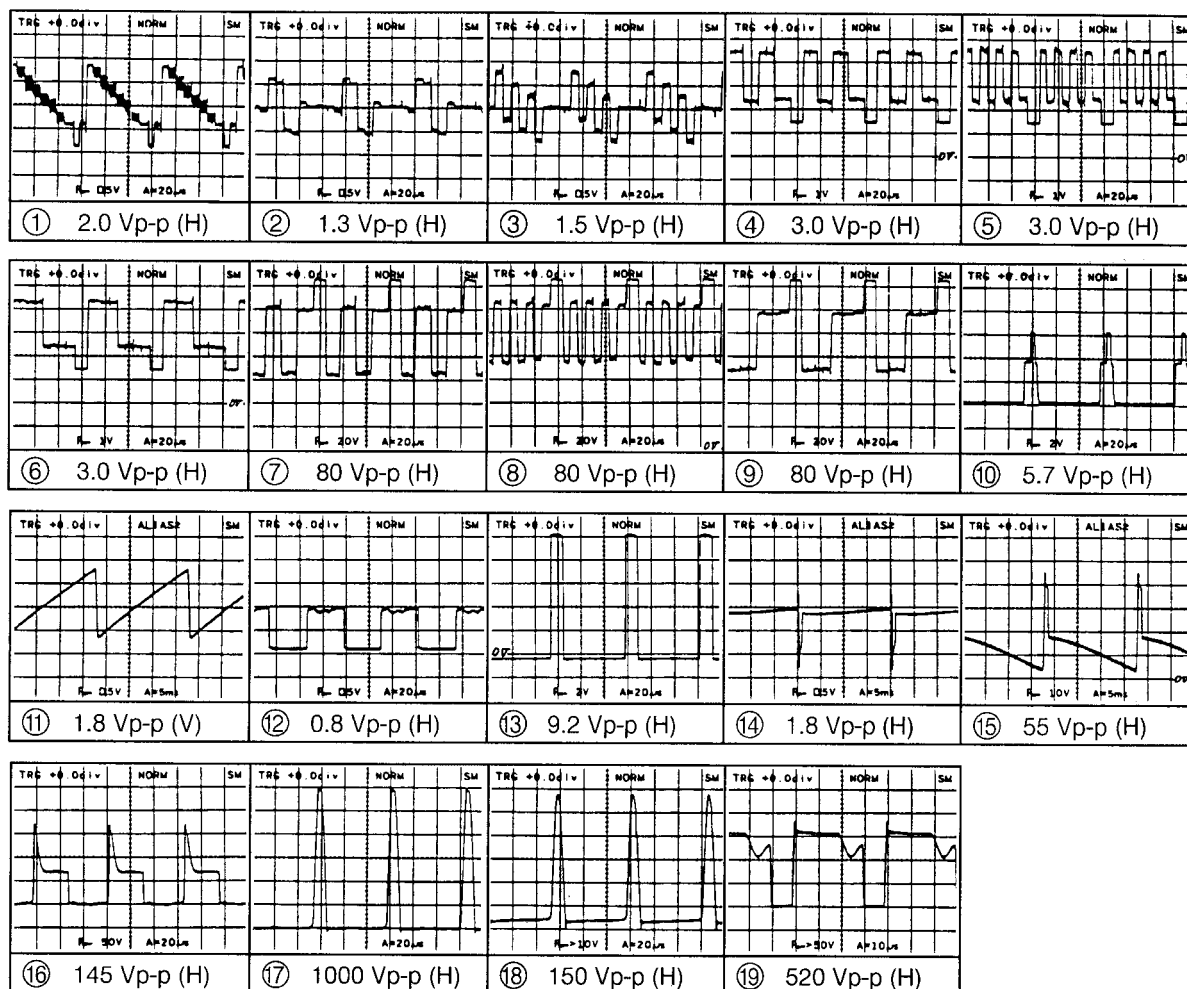
AN5275



TDA8351



WAVEFORMS



DESCRIPTION OF SCHEMATIC DIAGRAM

SAFETY NOTES:

1. DISCONNECT THE AC PLUG FROM THE AC OUTLET BEFORE REPLACING PARTS.
2. SEMICONDUCTOR HEAT SINKS SHOULD BE REGARDED AS POTENTIAL SHOCK HAZARDS WHEN THE CHASSIS IS OPERATING.

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠" () ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

SERVICE PRECAUTION:

THE AREA ENCLOSED BY THIS LINE (— — —) IS DIRECTLY CONNECTED WITH AC MAINS VOLTAGE.

WHEN SERVICING THE AREA, CONNECT AN ISOLATING TRANSFORMER BETWEEN TV RECEIVER AND AC LINE TO ELIMINATE HAZARD OF ELECTRIC SHOCK.

NOTES:

1. The unit of resistance "ohm" is omitted (K: 1000 ohms M = Meg ohm).
2. All resistors are 1/8 watt, unless otherwise noted.
3. All capacitors μF , unless otherwise noted. ($P = \mu\mu F$)

VOLTAGE MEASUREMENT CONDITIONS:

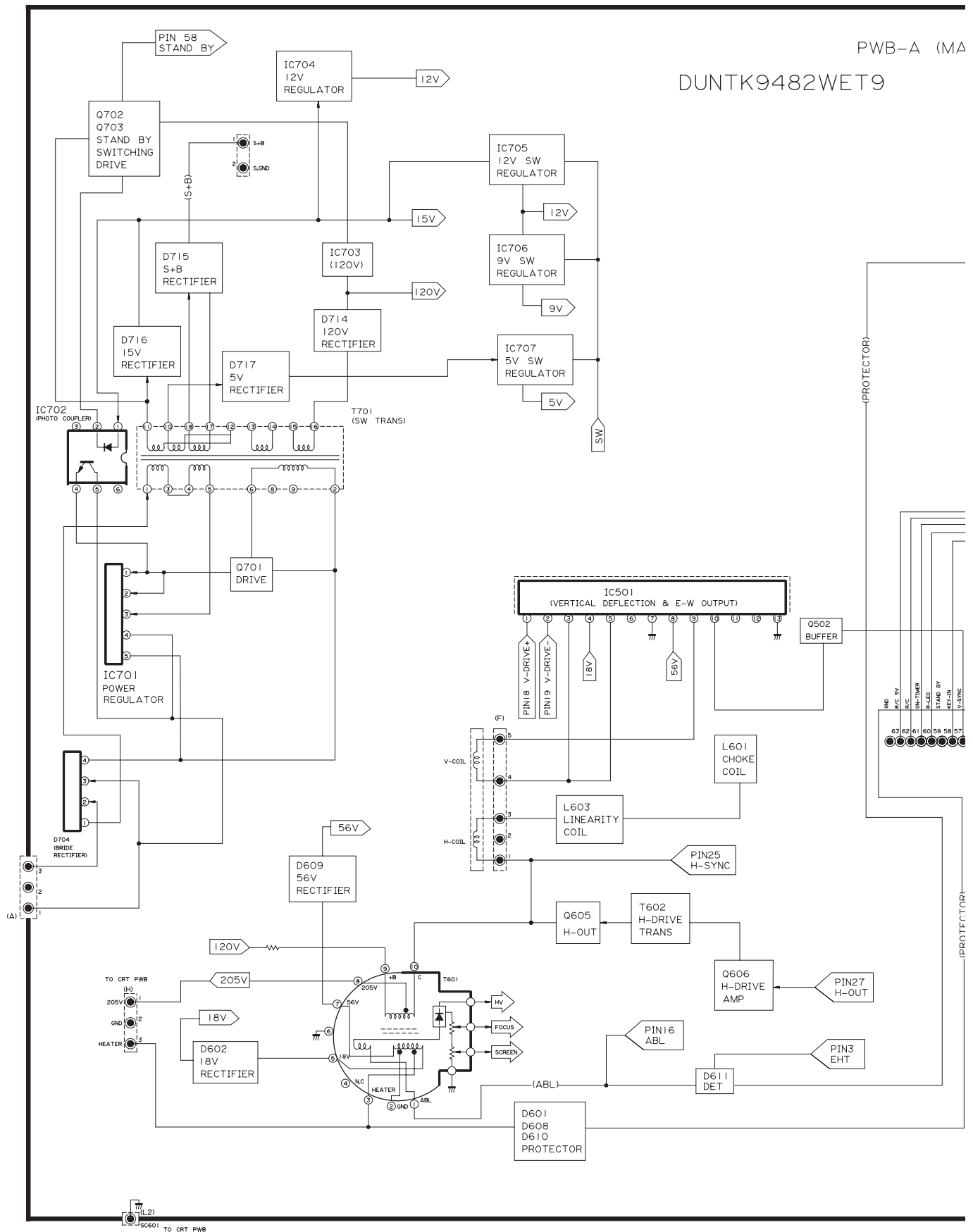
1. Voltage in parenthesis measured with no Signal.
2. Voltages without parenthesis measured with 3mV B & W or colour-Signal.
3. All the voltages in each point are measured with VTVM.

WAVEFORM MEASUREMENT CONDITIONS:

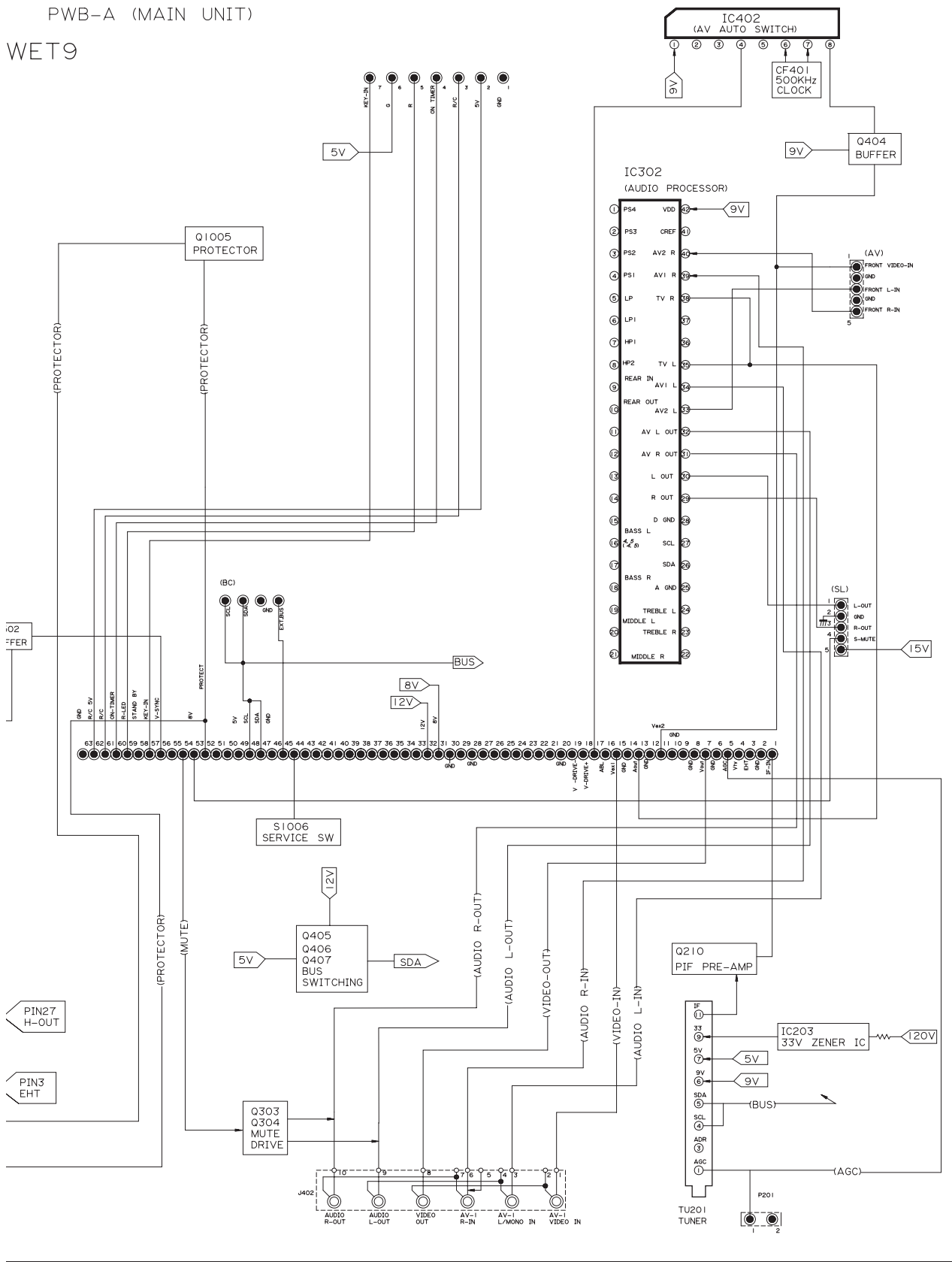
1. Colour bar generator signal of 1.0V peak to peak applied pin (24) of IC201.
2. Approximately 4.0 V AGC bias.

BLOCK DIAGRAM

MAIN 1 UNIT BLOCK DIAGRAM

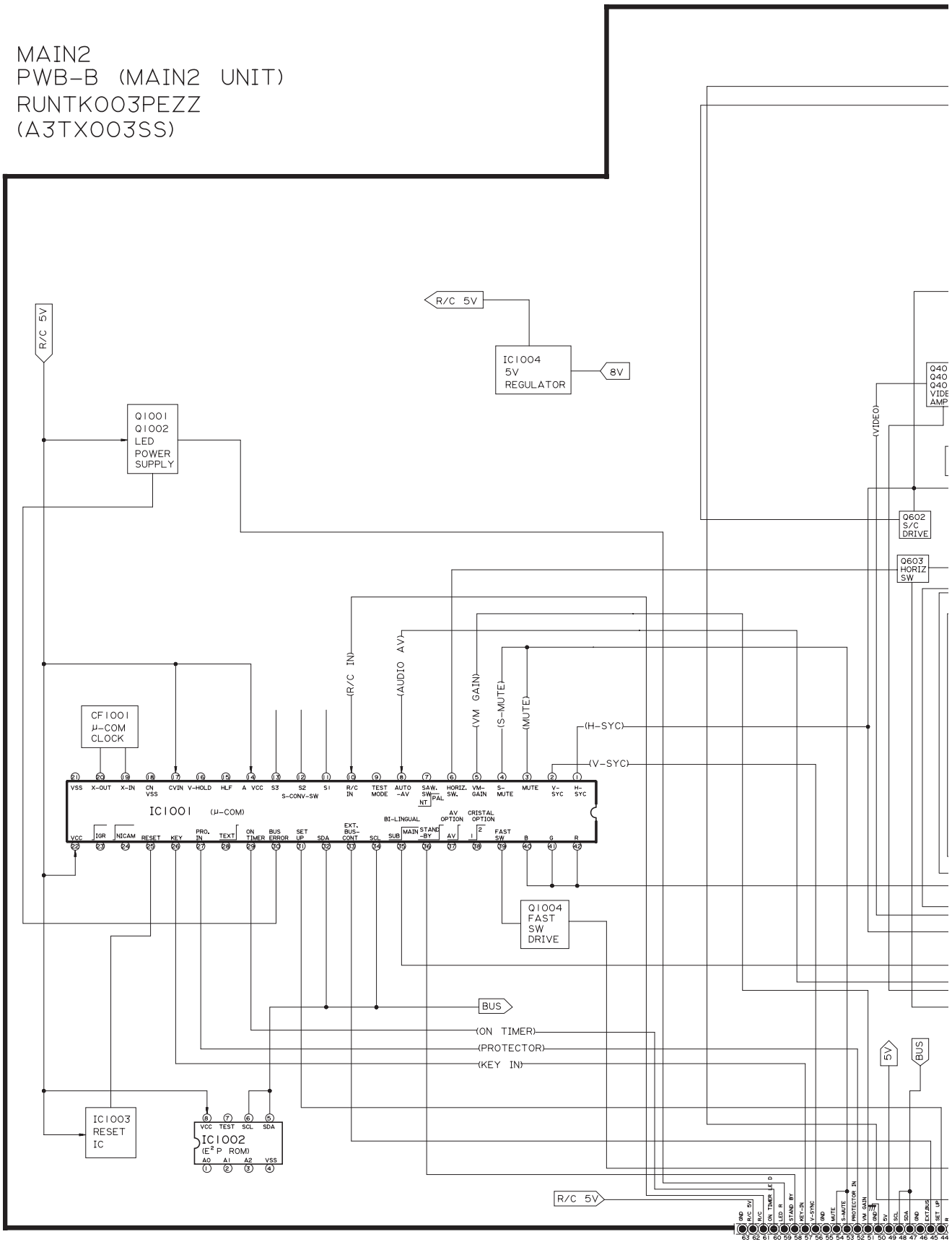


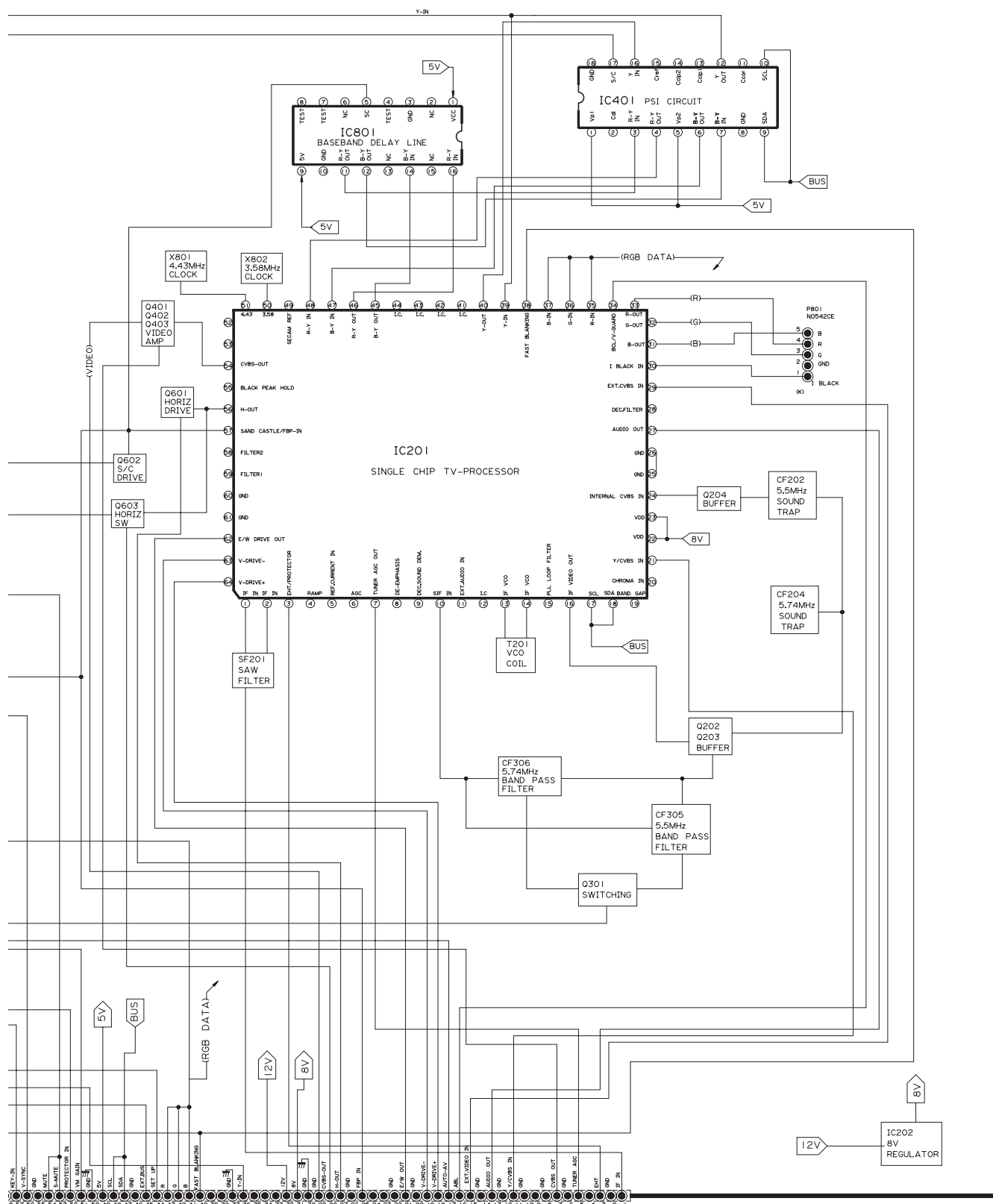
PWB-A (MAIN UNIT)
WET9



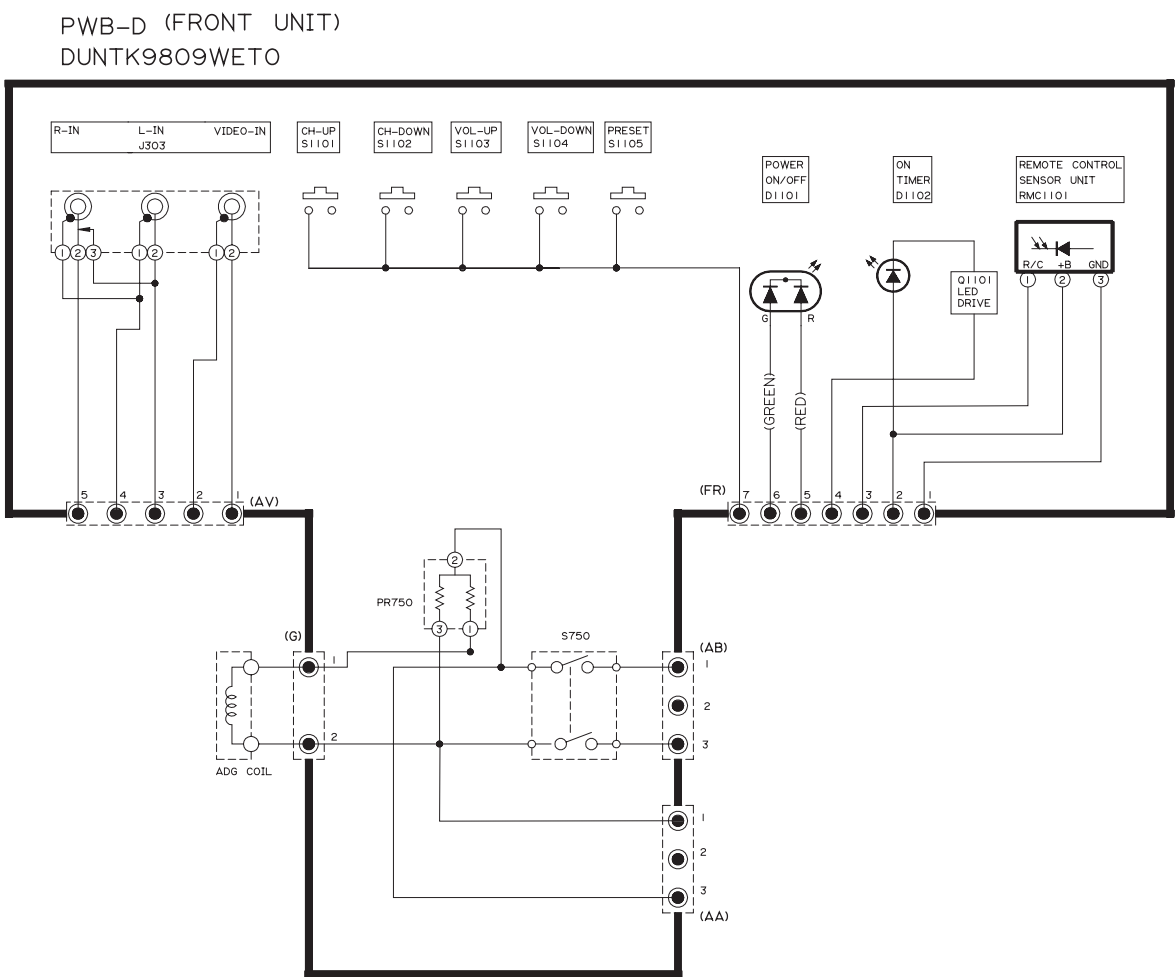
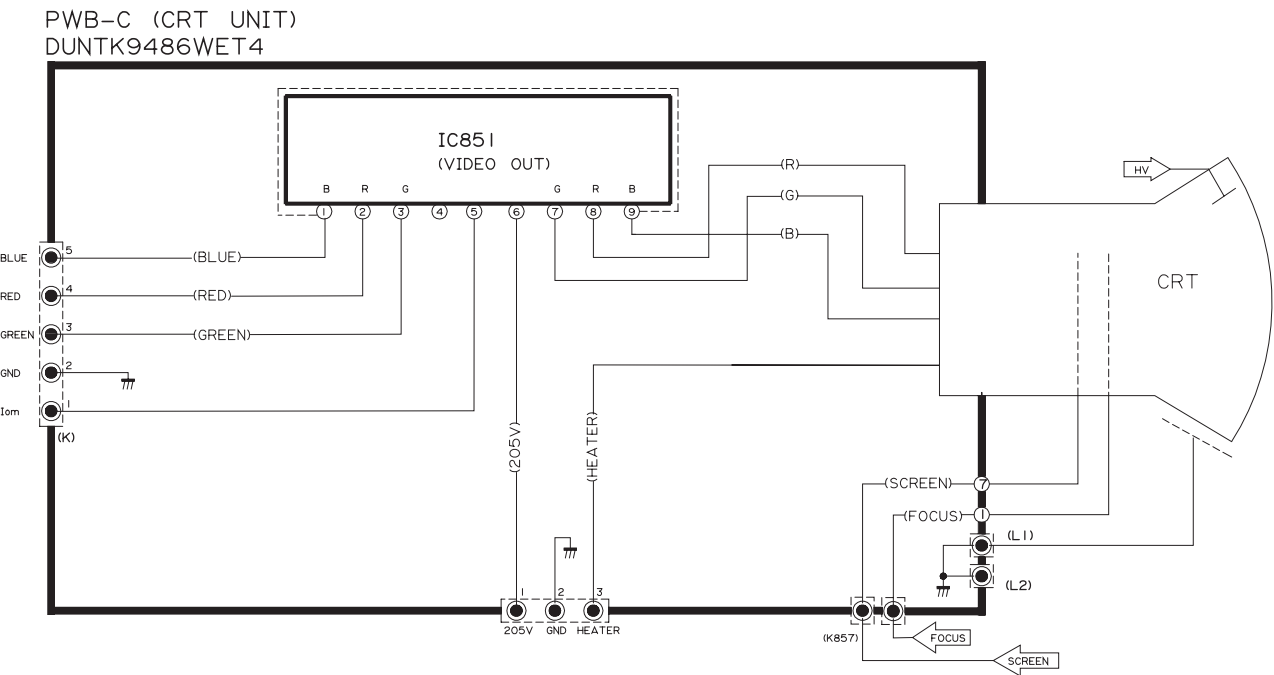
MAIN 2 UNIT BLOCK DIAGRAM

MAIN2
PWB-B (MAIN2 UNIT)
RUNTK003PEZZ
(A3TX003SS)

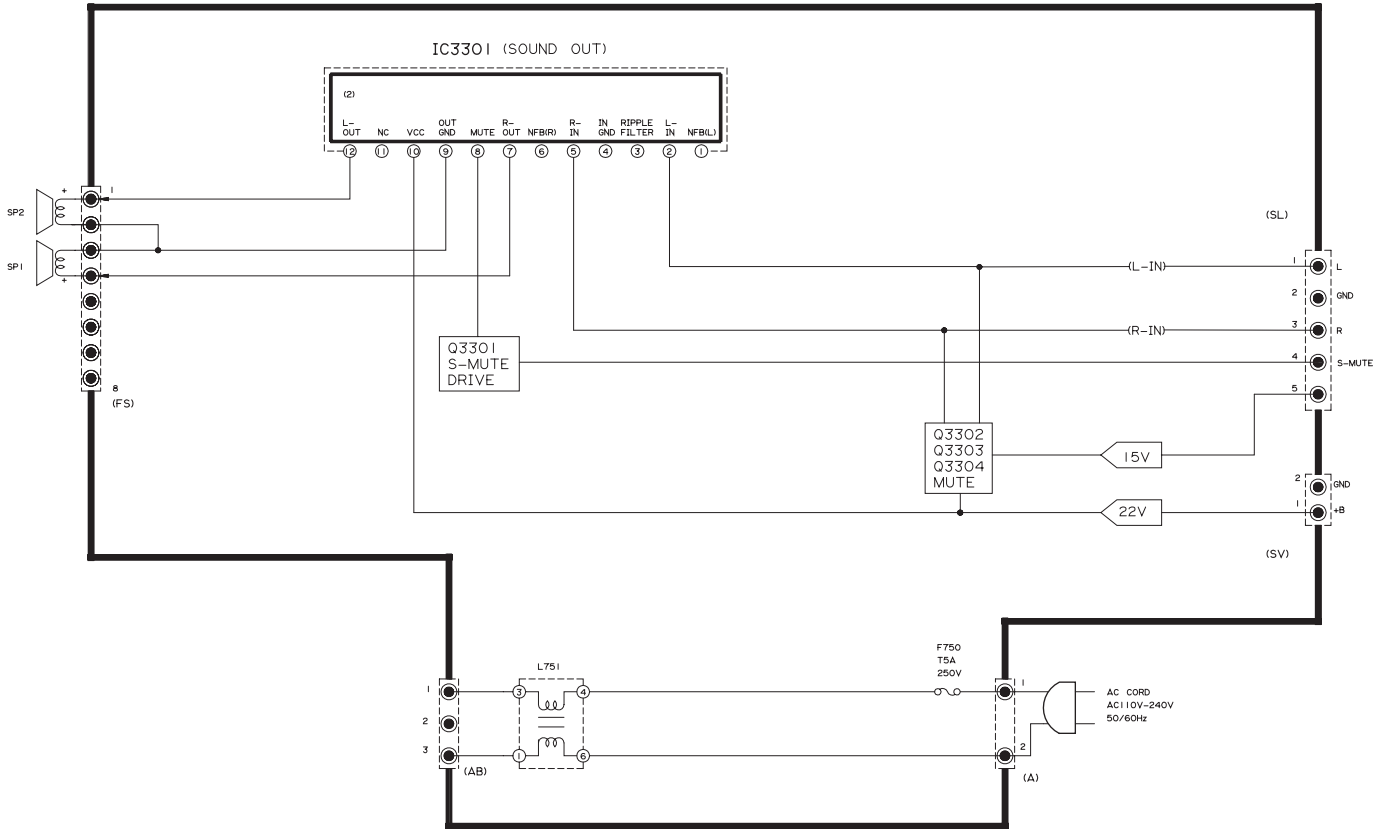




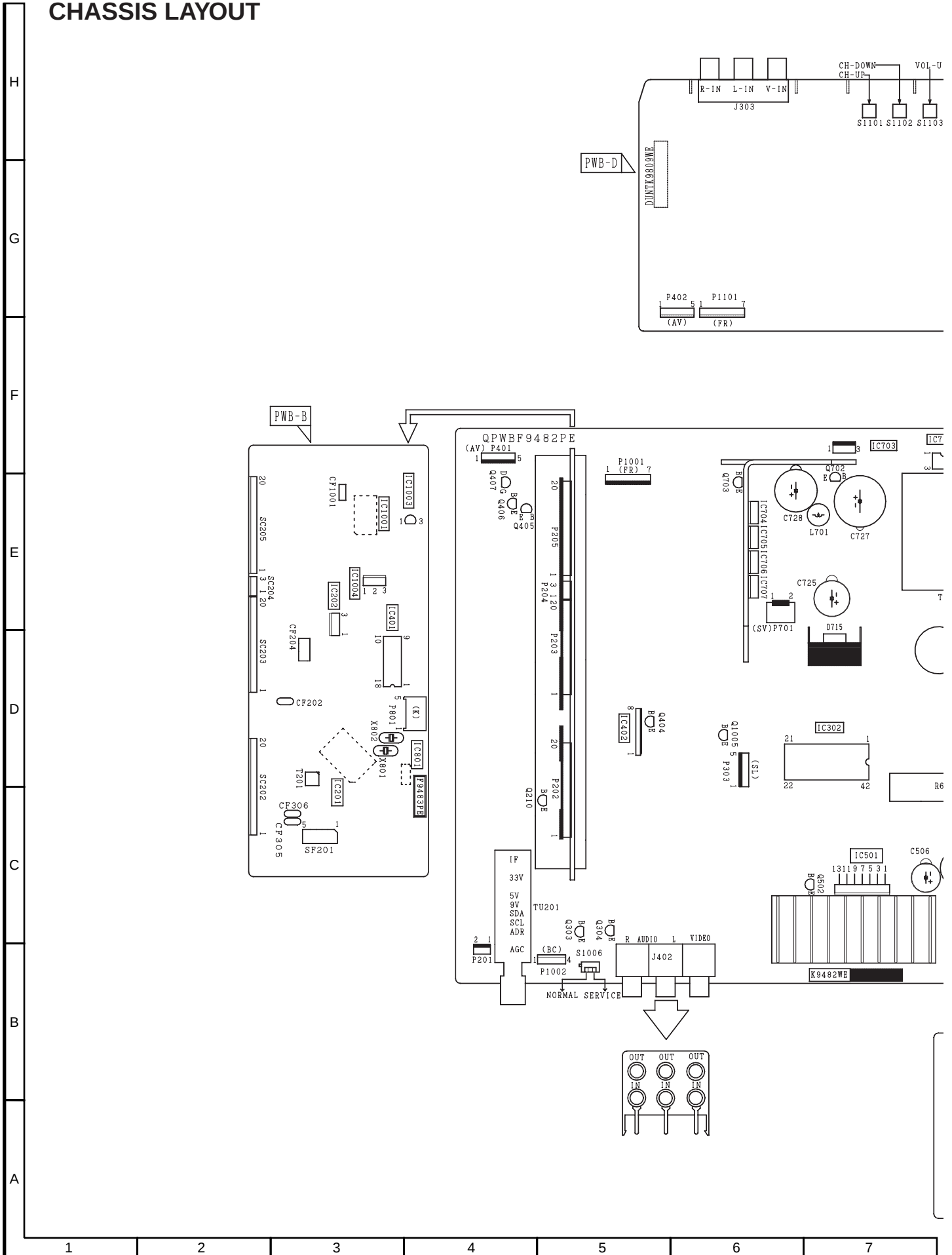
CRT/FRONT/S-OUT UNIT BLOCK DIAGRAM

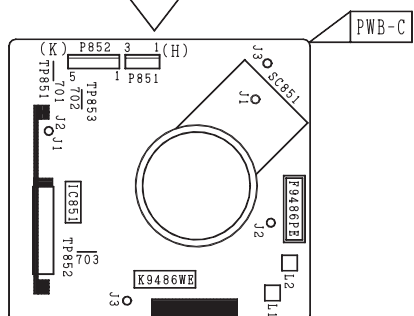
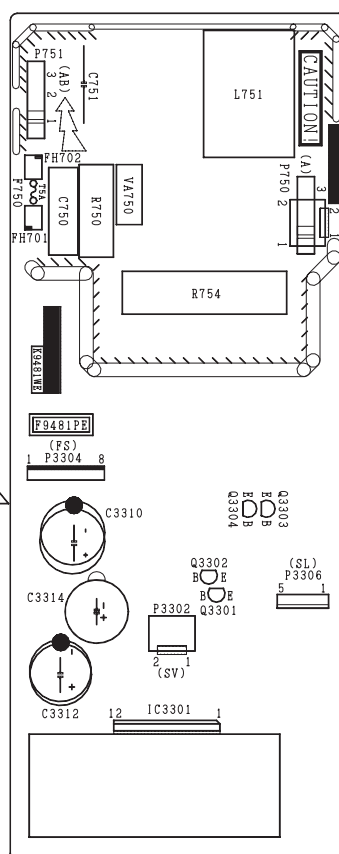
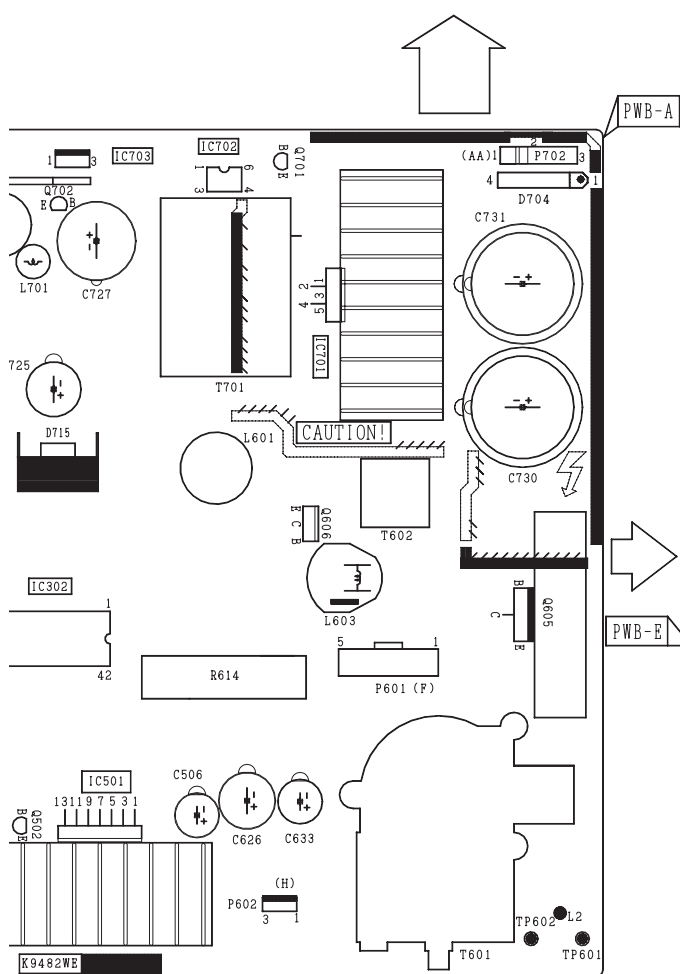
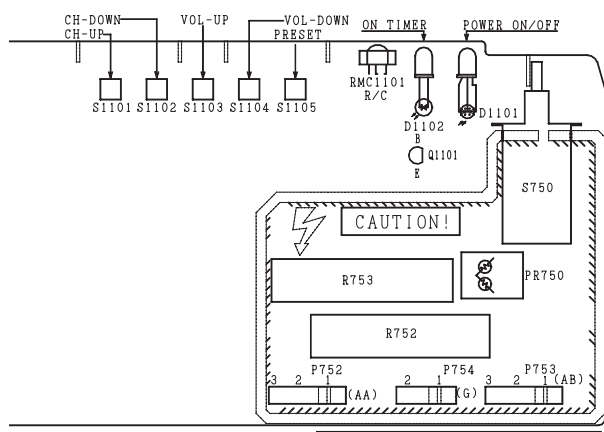


PWB-E (S-OUT UNIT)
DUNTK9481WET3



CHASSIS LAYOUT

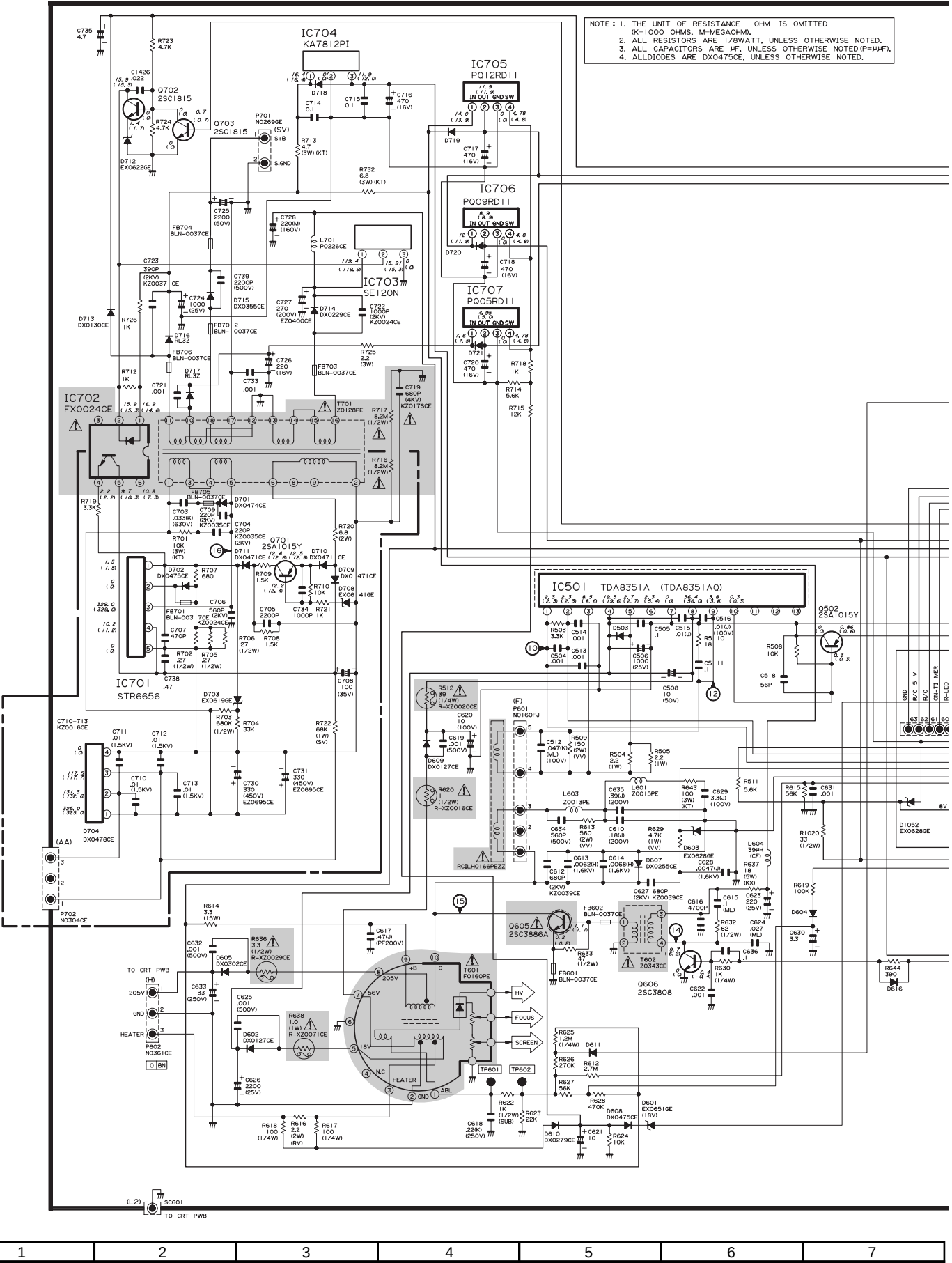


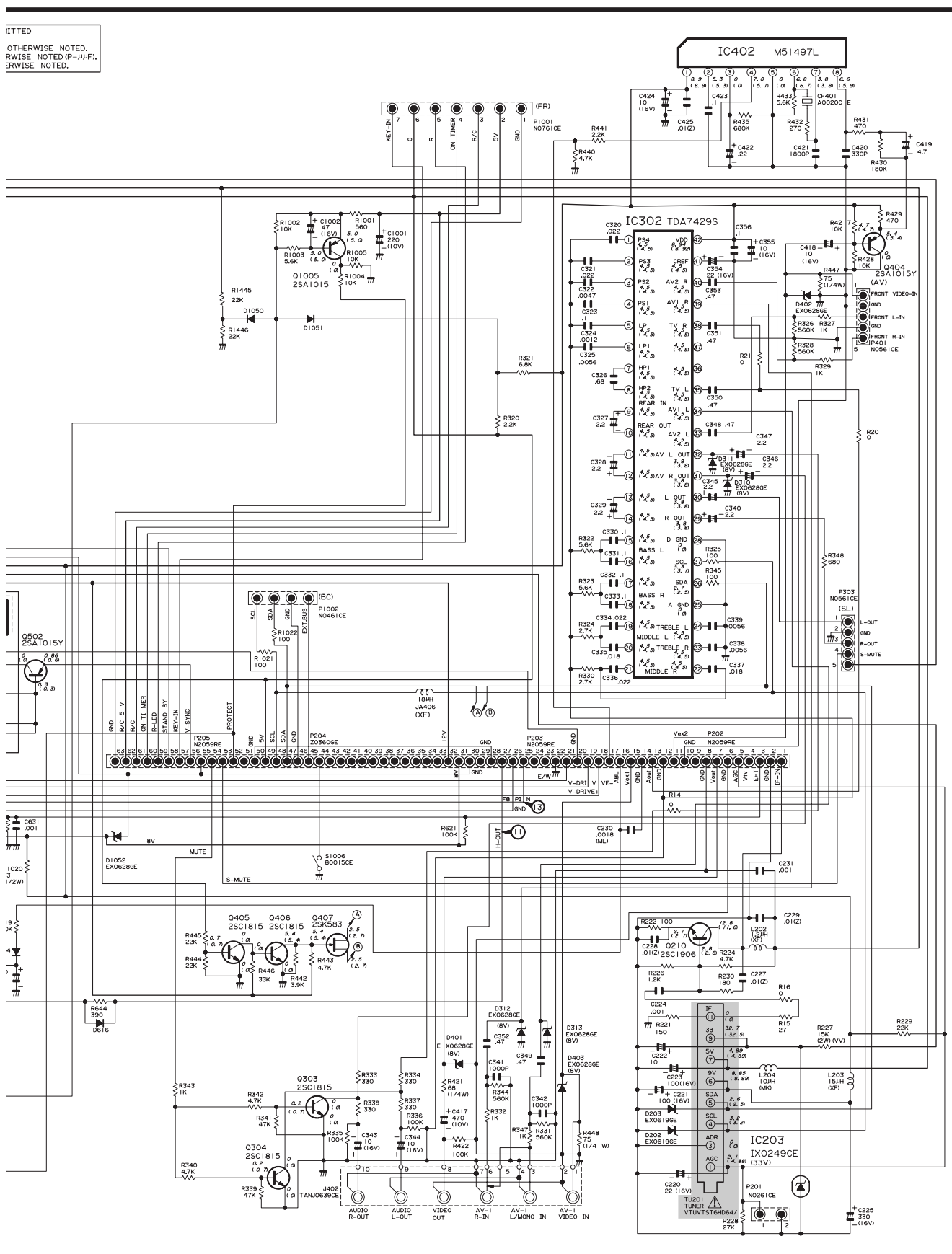


7	8	9	10	11	12	13
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SCHEMATIC DIAGRAM

MAIN 1 UNIT SCHEMATIC DIAGRAM

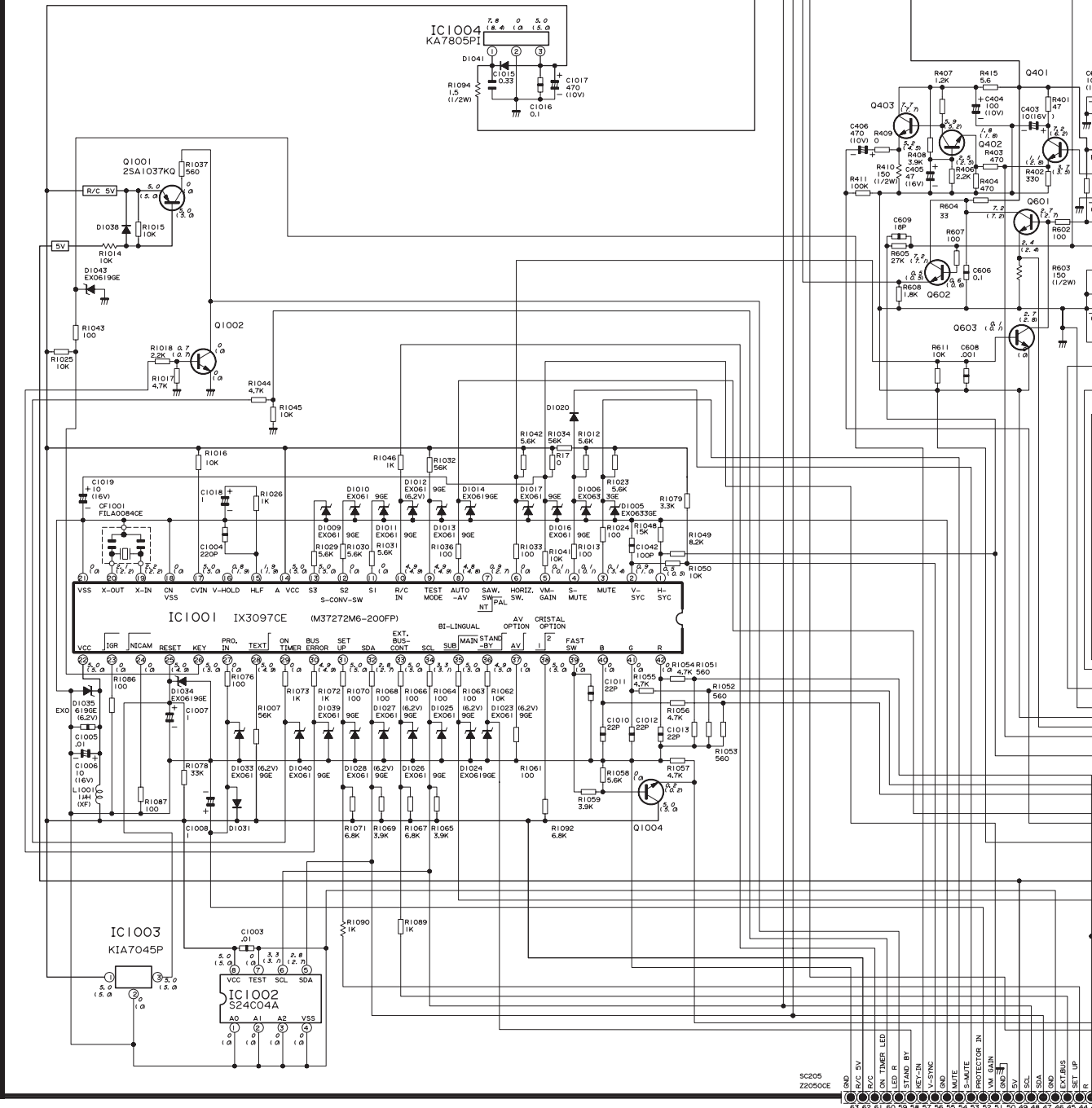




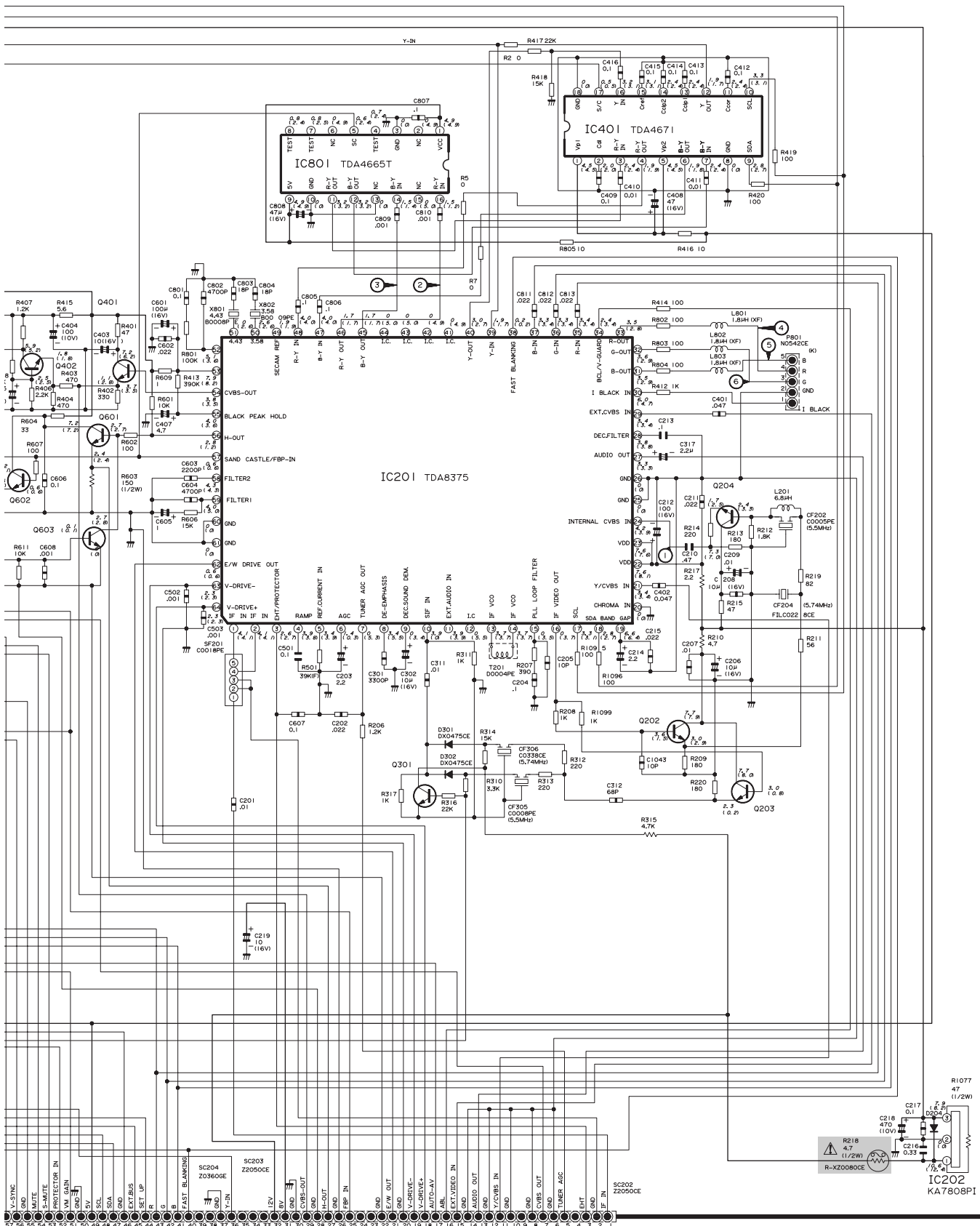
MAIN 2 UNIT SCHEMATIC DIAGRAM

- NOTE 1. THE UNIT OF RESISTANCE OHM IS OMITTED.
2. ALL RESISTORS ARE 1/8WATT, UNLESS OTHERWISE NOTED.
3. ALL CAPACITORS ARE μ F, UNLESS OTHERWISE NOTED (P= μ HF).
4. ALL DIODES ARE DX0475CE, UNLESS OTHERWISE NOTED.
5. ALL TRANSISTORS ARE 25C2412KQ, UNLESS OTHERWISE NOTED.

PWB-B (MAIN2 UNIT)
RUNTK0003PEZZ
(A3TX003SS)

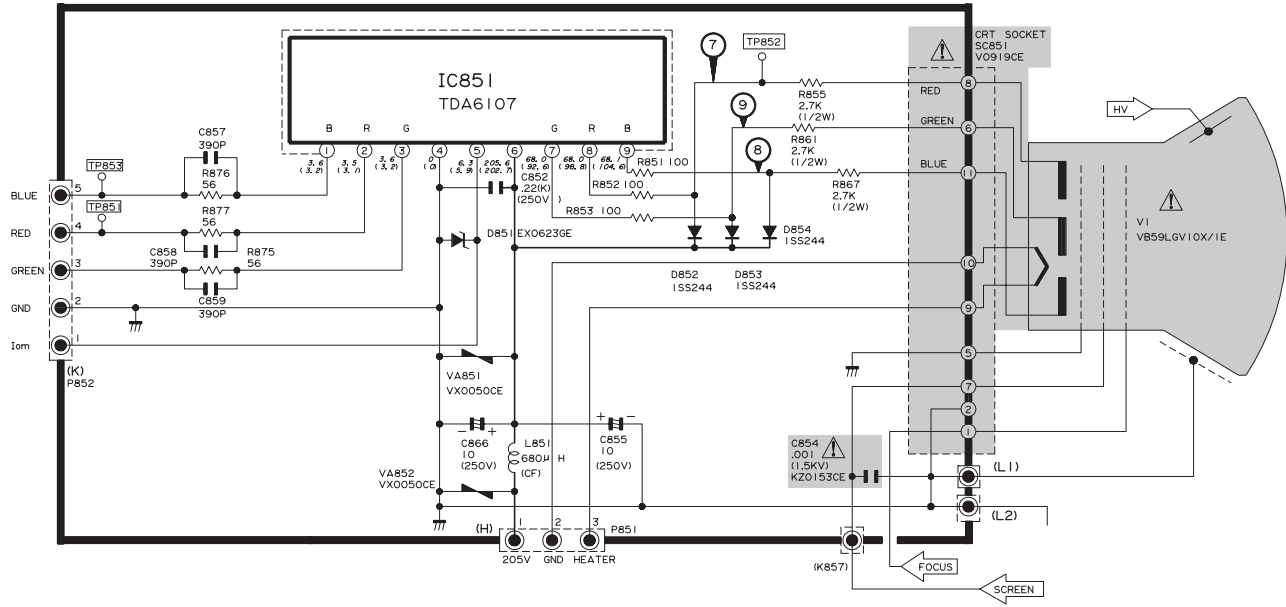


SC205
Z2050CE
63 62 61 60 59 58 57 56 55 54 53 52 51 50 49 48 47 46 45 44

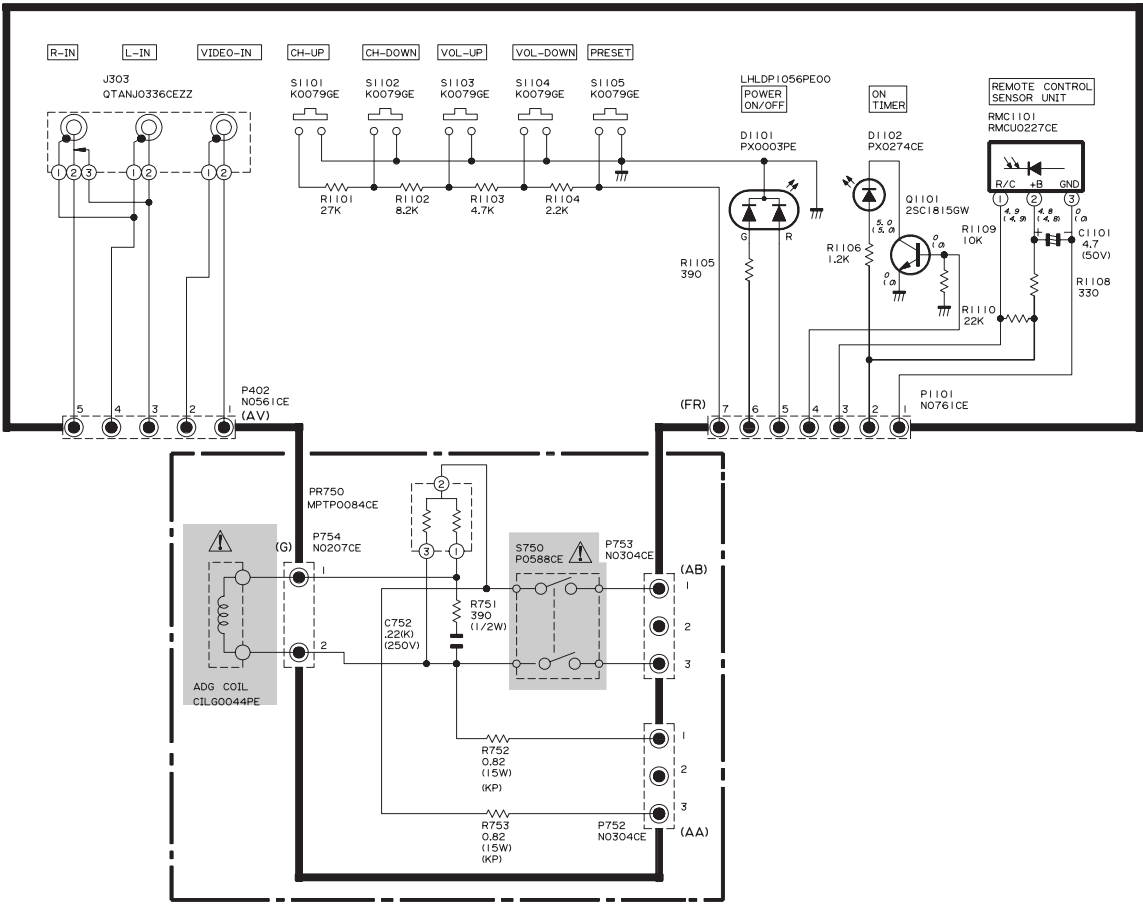


CRT/FRONT/S-OUT UNIT SCHEMATIC DIAGRAM

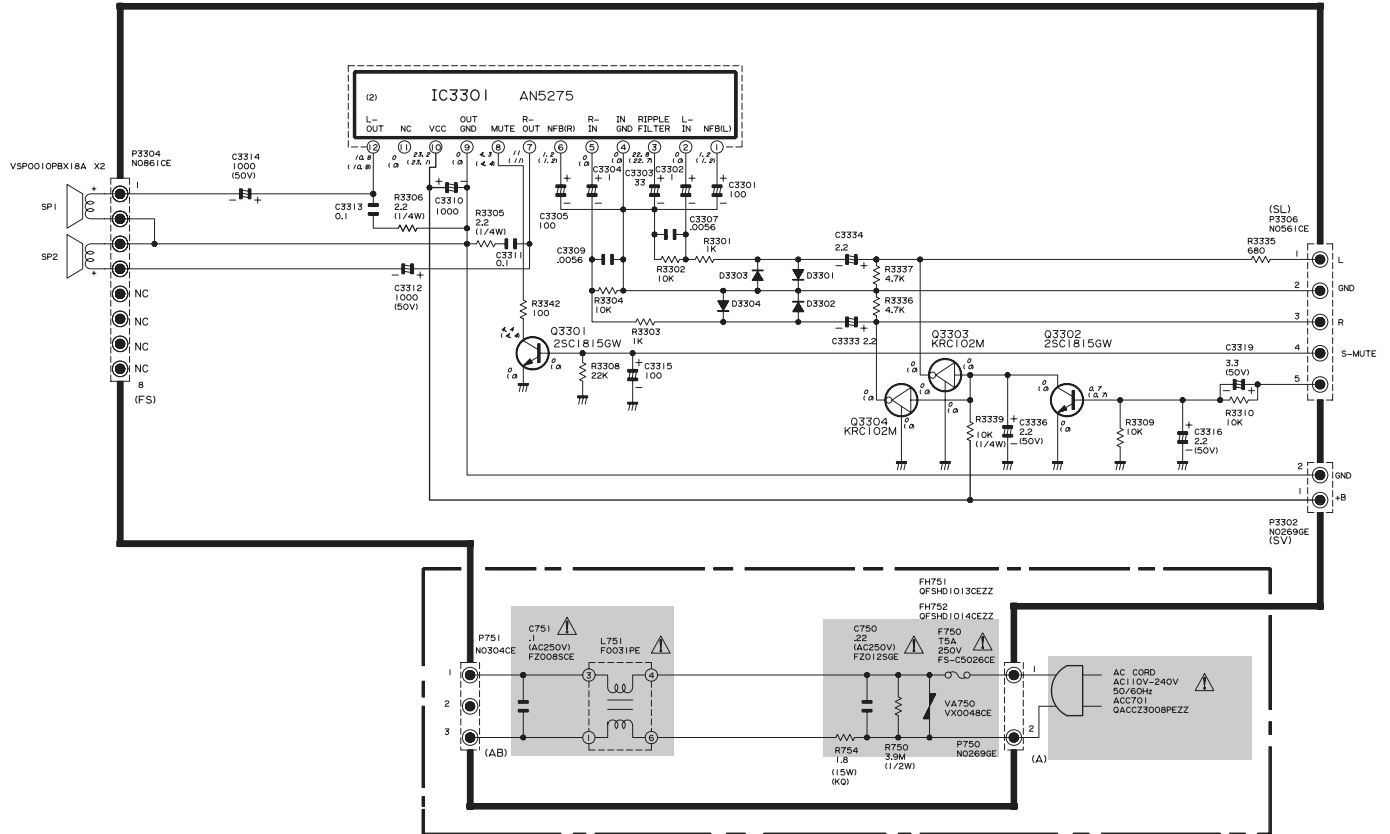
PWB-C (CRT UNIT)
DUNTK9486WET4



PWB-D (FRONT UNIT)
DUNTK9809WETO



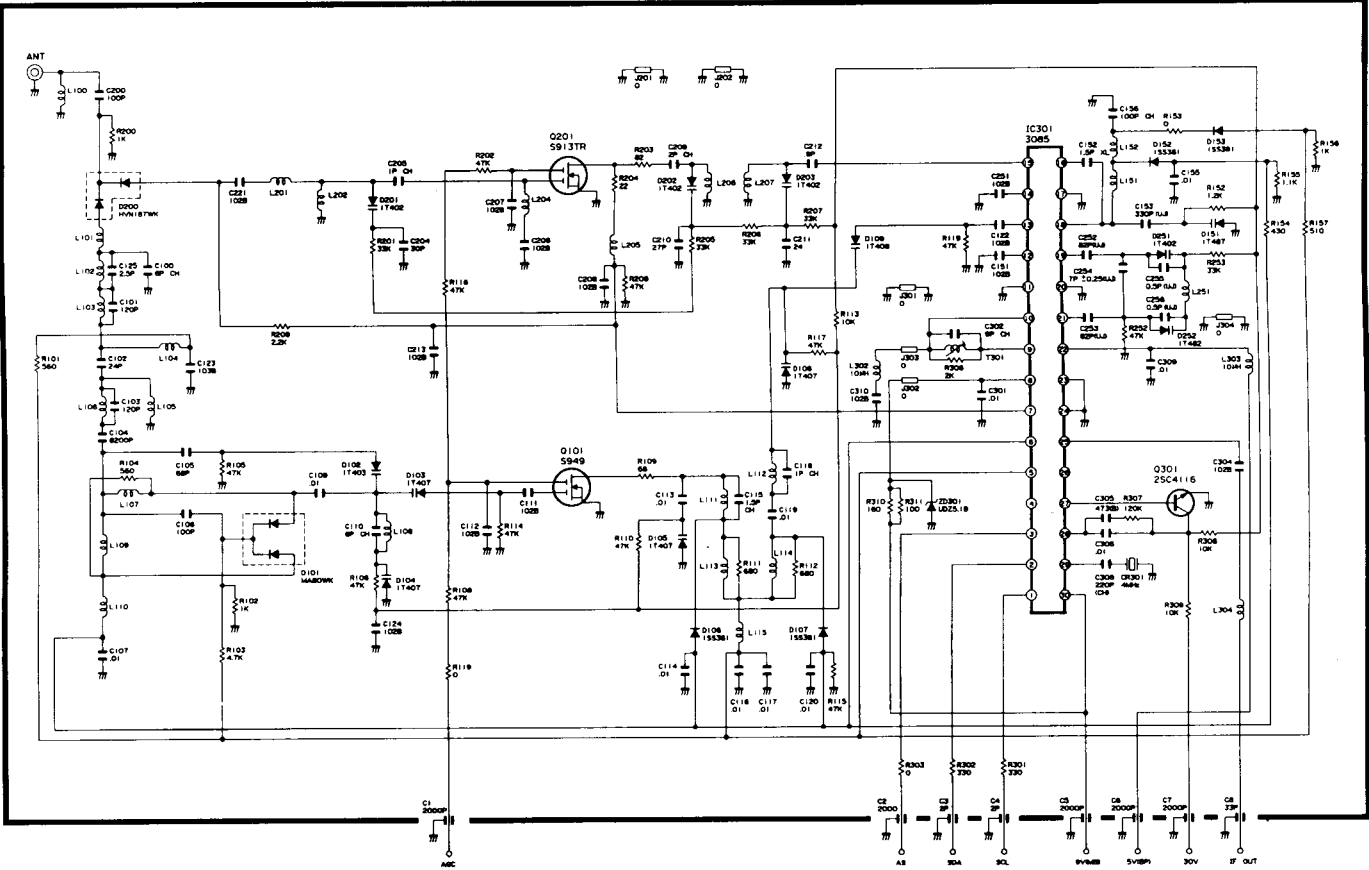
PWB-E (S-OUT UNIT)
DUNTK9481WET3



TUNER SCHEMATIC DIAGRAM

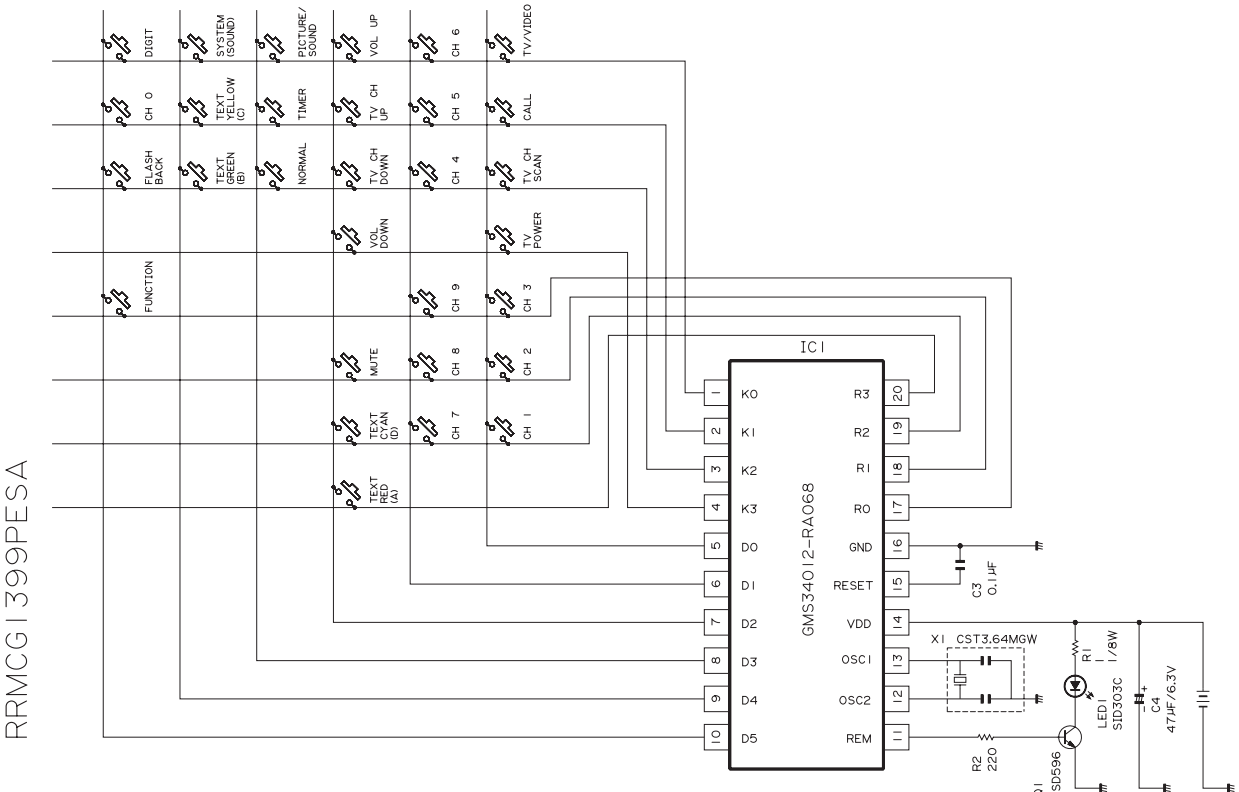
VTUVTST6HD64/

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



REMOTE CONTROL UNIT SCHEMATIC DIAGRAM

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

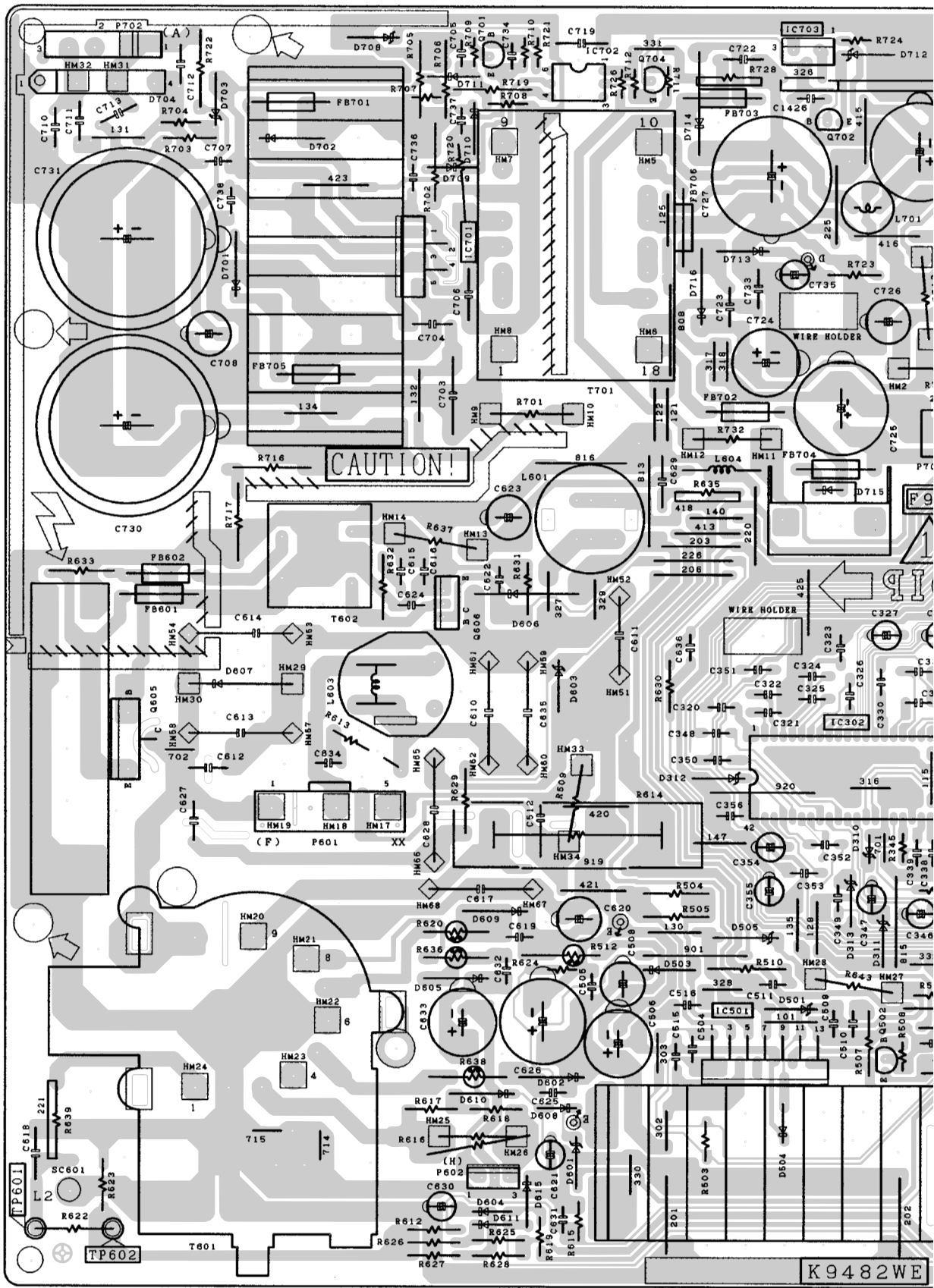


RRMCG1399PESA

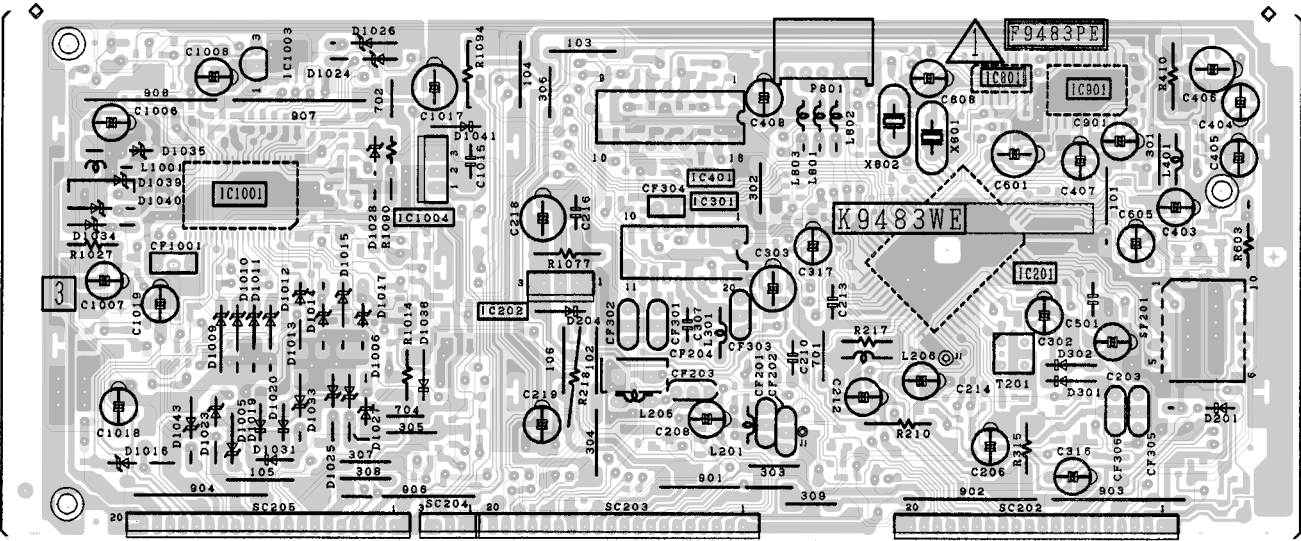
- M E M O -

This image shows a full page of white paper with horizontal dashed lines, typical of primary-ruled notebook paper. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

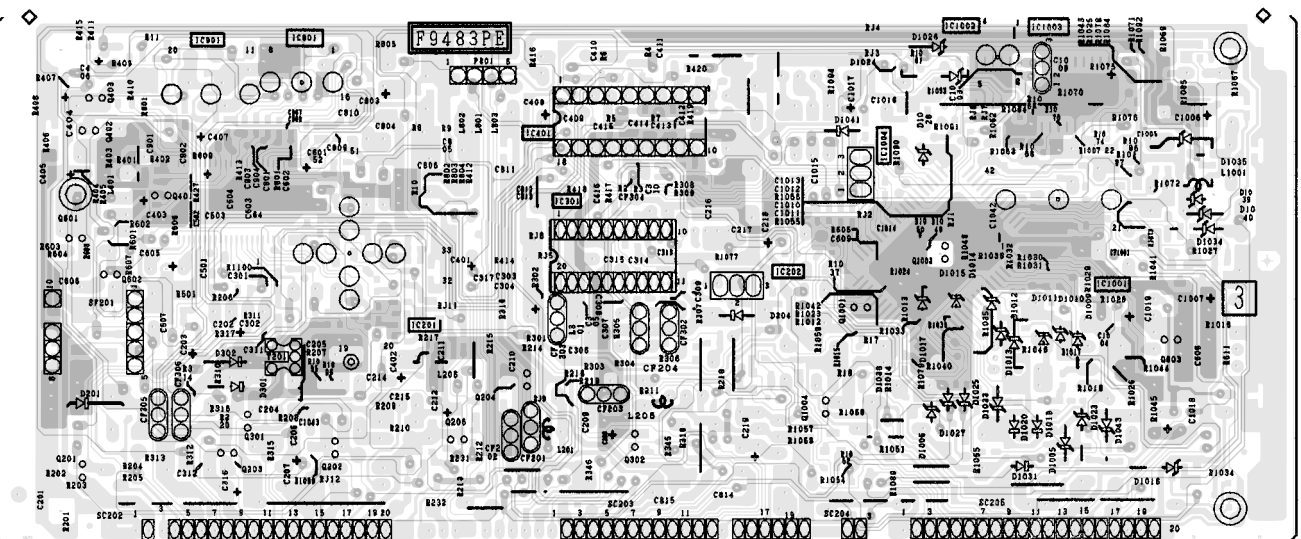
PRINTED WIRING BOARD ASSEMBLIES
MAIN 1 UNIT



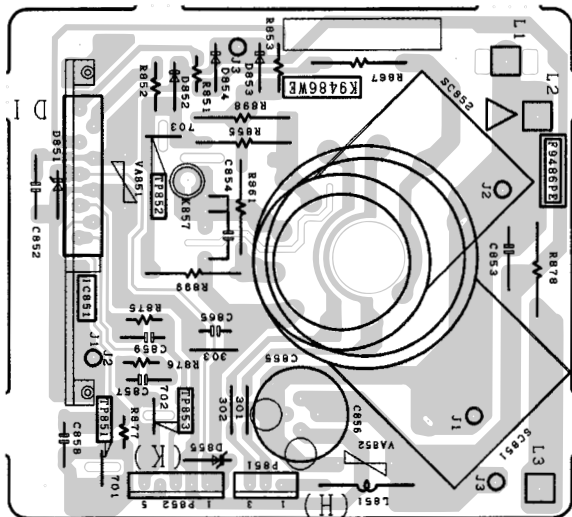
MAIN 2 UNIT (SIDE A)



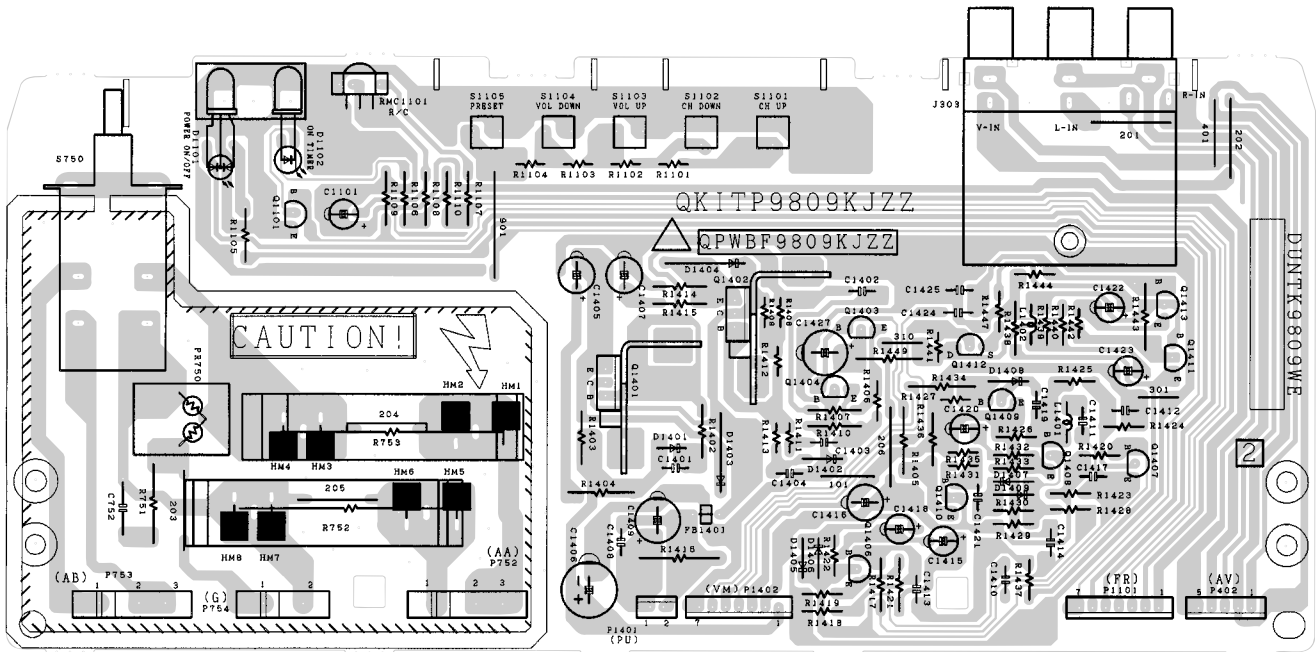
MAIN 2 UNIT (SIDE B)



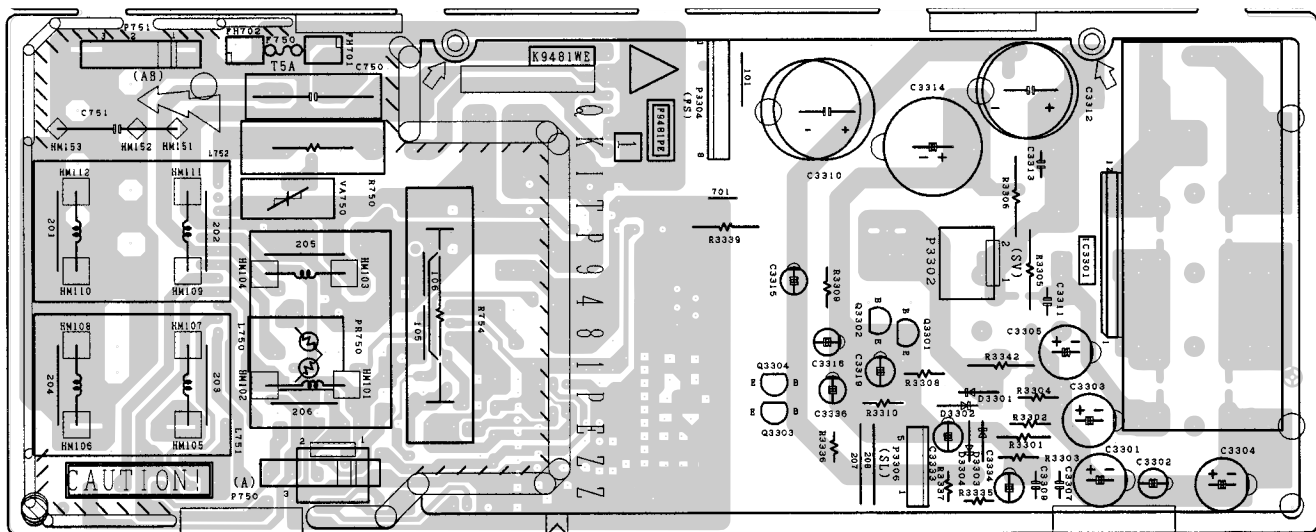
CRT UNIT



FRONT UNIT



S-OUT UNIT



- M E M O -

[illegible]

PARTS LIST

PARTS REPLACEMENT

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

" HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

- | | |
|------------------------|-----------------------|
| 1. MODEL NUMBER | 2. REF. NO. |
| 3. PART NO. | 4. DESCRIPTION |

MARK★: SAFETY PARTS-DELIVERY SECTION.

Ref. No.	Part No.	★	Description	Code
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PICTURE TUBE

△ V1	VB59LGV10X/1E	R	Picture Tube	CR
△	RCILG0044PEZZ	R	Degaussing Coil	AX
△	RCILH0166PEZZ	R	Deflection Yoke	BQ
	PMAGF3003CEZZ	R	P-Magnet	AK
	PMAGG3002CEZZ	R	Magnet, x2	AC
	PSPAG0003PEZZ	R	Wedge(Gum), x3	AD
	QEARC2501KJZZ		Ground Strap	
	LHLDW0003PEKZ	R	ADG Coil Holder, x4	AB

PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

DUNTK9809WET0	-	Front Unit	—
DUNTK9481WET3	-	S-Out Unit	—
DUNTK9482WET9	-	Main 1 Unit	—
DUNTK9483WEW4	-	Main 2 Unit	—
DUNTK9486WET4	-	CRT Unit	—

DUNTK9809WET0 FRONT UNIT

TRANSISTOR

Q1101	VS2SC1815GW-1	R	2SC1815GW	AB
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DIODES

D1101	RH-PX0003PEZZ	R	LED, Power ON/OFF	AF
D1102	RH-PX0274CEZZ	R	LED, ON Timer	AC
PR750	RMPTP0084CEZZ	R	Packaged Circuit	AM

CAPACITORS

C752	VCFYSB2EB224K	R	0.22 250V	AD
C1101	VCEAGA1HW475M	R	4.7 50V Electrolytic	AB

RESISTORS

R751	VRD-RM2HD391J	R	390 1/2W Carbon	AA
R752	VRW-KP41CR82K	R	0.82 15W Cement	AG
R753	VRW-KP41CR82K	R	0.82 15W Cement	AG
R1101	VRD-RA2BE273J	R	27k 1/8W Carbon	AA
R1102	VRD-RA2BE822J	R	8.2k 1/8W Carbon	AA
R1103	VRD-RA2BE472J	R	4.7k 1/8W Carbon	AA
R1104	VRD-RA2BE222J	R	2.2k 1/8W Carbon	AA
R1105	VRD-RA2BE391J	R	390 1/8W Carbon	AA
R1106	VRD-RA2BE122J	R	1.2k 1/8W Carbon	AA
R1108	VRD-RA2BE331J	R	330 1/8W Carbon	AA
R1109	VRD-RA2BE103J	R	10k 1/8W Carbon	AA

Ref. No.	Part No.	★	Description	Code
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R1110	VRD-RA2BE223J	R	22k 1/8W Carbon	AA
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SWITCHES

△ S750	QSW-P0588CEZZ	R	Switch, Power	AP
S1101	QSW-K0079GEZZ	R	Switch, CH-Up	AB
S1102	QSW-K0079GEZZ	R	Switch, CH-Down	AB
S1103	QSW-K0079GEZZ	R	Switch, VOL-Up	AB
S1104	QSW-K0079GEZZ	R	Switch, VOL-Down	AB
S1105	QSW-K0079GEZZ	R	Switch, Preset	AB

MISCELLANEOUS PARTS

J303	QTANJ0336CEZZ		Jack	
P402	QPLGN0561CEZZ	R	Plug, 5 Pin	AB
P752	QPLGN0304CEZZ	R	Plug, 3 Pin	AB
P753	QPLGN0304CEZZ	R	Plug, 3 Pin	AB
P754	QPLGN0207CEZZ	R	Plug, 2 Pin	AA
P1101	QPLGN0761CEZZ	R	Plug, 7 Pin	AD
RMC1101	RRMCU0227CEZZ	R	Remote Control Sensor Unit	AK

DUNTK9481WET3 S-OUT UNIT

INTEGRATED CIRCUIT

IC3301	VHiAN5275//-1	R	AN5275	AP
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TRANSISTORS

Q3301	VS2SC1815GW-1	R	2SC1815GW	AB
Q3302	VS2SC1815GW-1	R	2SC1815GW	AB
Q3303	VSKRC102M//-1	R	KRC102M	AA
Q3304	VSKRC102M//-1	R	KRC102M	AA

DIODES AND VARISTOR

D3301	RH-DX0475CEZZ	R	DX0475CE	AB
D3302	RH-DX0475CEZZ	R	DX0475CE	AB
D3303	RH-DX0475CEZZ	R	DX0475CE	AB
D3304	RH-DX0475CEZZ	R	DX0475CE	AB
△ VA750	RH-VX0048CEZZ	R	Varistor, VX0048CE	AE

COIL

△ L751	RCILF0031PEZZ	R	Coil	AR
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CAPACITORS

△ C750	RC-FZ012SGEZZ	R	0.22 AC250V	AE
△ C751	RC-FZ008SCEZZ	R	0.1 AC250V	AE
C3301	VCEAGA1HW107M	R	100 50V Electrolytic	AC
C3302	VCEAGA1HW105M	R	1 50V Electrolytic	AC
C3303	VCEAGA1HW336M	R	33 50V Electrolytic	AB
C3304	VCEAGA1HW105M	R	1 50V Electrolytic	AC
C3305	VCEAGA1HW107M	R	100 50V Electrolytic	AC
C3307	VCKYPA1HB562K	R	5600p 50V Ceramic	AA
C3309	VCKYPA1HB562K	R	5600p 50V Ceramic	AA
C3310	VCEAGH1HW108M	R	1000 50V Electrolytic	AE
C3311	VCQYTA1HM104J	R	0.1 50V Mylar	AA
C3312	VCEAGH1HW108M	R	1000 50V Electrolytic	AE
C3313	VCQYTA1HM104J	R	0.1 50V Mylar	AA
C3314	VCEAGH1HW108M	R	1000 50V Electrolytic	AE
C3315	VCEAGA1HW107M	R	100 50V Electrolytic	AC
C3316	VCEAGA1HW225M	R	2.2 50V Electrolytic	AB
C3319	VCEAGA1HW335M	R	3.3 50V Electrolytic	AB
C3333	VCEAGA1HW225M	R	2.2 50V Electrolytic	AB
C3334	VCEAGA1HW225M	R	2.2 50V Electrolytic	AB
C3336	VCEAGA1HW225M	R	2.2 50V Electrolytic	AB

RESISTORS

△ R750	VRC-UA2HG395K	R	3.9M 1/2W Solid	AA
△ R754	VRW-KQ41C1R8K	R	1.8 15W Cement	AG
R3301	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R3302	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R3303	VRD-RA2BE102J	R	1k 1/8W Carbon	AA
R3304	VRD-RA2BE103J	R	10k 1/8W Carbon	AA
R3305	VRD-RA2EE2R2J	R	2.2 1/4W Carbon	AA
R3306	VRD-RA2EE2R2J	R	2.2 1/4W Carbon	AA
R3308	VRD-RA2BE223J	R	22k 1/8W Carbon	AA

Ref. No.	Part No.	★	Description	Code
DUNTK9481WET3 S-OUT UNIT (Continude)				
R3309	VRD-RA2BE103J	R 10k	1/8W Carbon	AA
R3310	VRD-RA2BE103J	R 10k	1/8W Carbon	AA
R3335	VRD-RA2BE681J	R 680	1/8W Carbon	AA
R3336	VRD-RA2BE472J	R 4.7k	1/8W Carbon	AA
R3337	VRD-RA2BE472J	R 4.7k	1/8W Carbon	AA
R3339	VRD-RA2EE103J	R 10k	1/4W Carbon	AA
R3342	VRD-RA2BE101J	R 100	1/8W Carbon	AB
MISCELLANEOUS PARTS				
⚠ ACC701	QACCZ3008PEZZ	R	AC Power Cord	AN
⚠ FH751	QFSHD1013CEZZ	R	Fuse Holder	AC
⚠ FH752	QFSHD1014CEZZ	R	Fuse Holder	AC
⚠ F750	QFS-C5026CEZZ	R	Fuse, T5A 250V	AE
P750	QPLGN0269GEZZ	R	Plug, 2 Pin	AB
P751	QPLGN0304CEZZ	R	Plug, 3 Pin	AB
P3302	QPLGN0269GEZZ	R	Plug, 2 Pin	AB
P3304	QPLGN0861CEZZ	R	Plug, 8 Pin	AC
P3306	QPLGN0561CEZZ	R	Plug, 5 Pin	AB
SP1	VSP0010PBX18A		Speaker	
SP2	VSP0010PBX18A		Speaker	
	PRDAR0266PEFW		Heat Sink, for IC3301	
DUNTK9482WET9 MAIN 1 UNIT				
TUNER				
<i>NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT INDEPENDENTLY.</i>				
⚠ TU201	VTUVTST6HD64/	R	Tuner	BF
INTEGRATED CIRCUITS				
IC203	RH-IX0249CEZZ	R	IX0249CE	AE
IC302	VHiTDA7429S-1	R	TDA7429S	AG
IC402	VHiM51497L/-1	R	M51497L	AL
IC501	VHiTDA8351A-1	R	TDA8351A	AT
IC701	VHiSTR6656/-1	R	STR6656	AZ
IC703	VHiSE120N// -1	R	SE120N	AG
IC704	VHiKA7812Pi-1	R	KA7812Pi	AE
IC705	VHiPQ12RD11-1	R	PQ12RD11	AG
IC706	VHiPQ09RD11-1	R	PQ09RD11	AG
IC707	VHiPQ05RD11-1	R	PQ05RD11	AG
TRANSISTORS				
Q210	VS2SC1906//1E	R	2SC1906	AC
Q303	VS2SC1815GW-1	R	2SC1815	AB
Q304	VS2SC1815GW-1	R	2SC1815	AB
Q404	VS2SA1015Y/1E	R	2SA1015Y	AC
Q405	VS2SC1815GW-1	R	2SC1815	AB
Q406	VS2SC1815GW-1	R	2SC1815	AB
Q407	VS2SK583///-1	R	2SK583	AE
Q502	VS2SA1015Y/1E	R	2SA1015Y	AC
⚠ Q605	VS2SC3886A/1E	R	2SC3886A	AP
Q606	VS2SC3808// -1	R	2SC3808	AH
Q701	VS2SA1015Y/1E	R	2SA1015Y	AC
Q702	VS2SC1815GW-1	R	2SC1815	AB
Q703	VS2SC1815GW-1	R	2SC1815	AB
Q1005	VS2SA1015Y/1E	R	2SA1015Y	AC
DIODES				
D202	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D203	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D310	RH-EX0628GEZZ	R	Zener, EX0628GE	AC
D311	RH-EX0628GEZZ	R	Zener, EX0628GE	AC
D312	RH-EX0628GEZZ	R	Zener, EX0628GE	AC
D313	RH-EX0628GEZZ	R	Zener, EX0628GE	AC
D401	RH-EX0628GEZZ	R	Zener, EX0628GE	AC
D402	RH-EX0628GEZZ	R	Zener, EX0628GE	AC
D403	RH-EX0628GEZZ	R	Zener, EX0628GE	AC
D503	RH-DX0475CEZZ	R	DX0475CE	AB
D601	RH-EX0651GEZZ	R	Zener, EX0651GE	AB
D602	RH-DX0127CEZZ	R	DX0127CE	AC
D603	RH-EX0628GEZZ	R	Zener, EX0628GE	AC

Ref. No.	Part No.	★	Description	Code
D604	RH-DX0475CEZZ	R	DX0475CE	AB
D605	RH-DX0302CEZZ	R	DX0302CE	AC
D607	RH-DX0255CEZZ	R	DX0255CE	AC
D608	RH-DX0475CEZZ	R	DX0475CE	AB
D609	RH-DX0127CEZZ	R	DX0127CE	AC
D610	RH-DX0279CEZZ	R	DX0279CE	AB
D611	RH-DX0475CEZZ	R	DX0475CE	AB
D616	RH-DX0475CEZZ	R	DX0475CE	AB
D701	RH-DX0474CEZZ	R	DX0474CE	AE
D702	RH-DX0475CEZZ	R	DX0475CE	AB
D703	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D704	RH-DX0478CEZZ	R	DX0478CE	AL
D708	RH-EX0641GEZZ	R	Zener, EX0641GE	AA
D709	RH-DX0471CEZZ	R	DX0471CE	AE
D710	RH-DX0471CEZZ	R	DX0471CE	AE
D711	RH-DX0471CEZZ	R	DX0471CE	AE
D712	RH-EX0622GEZZ	R	Zener, EX0622GE	AA
D713	RH-DX0130CEZZ	R	DX0130CE	AE
D714	RH-DX0229CEZZ	R	DX0229CE	AF
D715	RH-DX0355CEZZ	R	DX0355CE	AF
D716	VHDRL3Z///-1	R	RL3Z	AE
D717	VHDRL3Z///-1	R	RL3Z	AE
D718	RH-DX0475CEZZ	R	DX0475CE	AB
D719	RH-DX0475CEZZ	R	DX0475CE	AB
D720	RH-DX0475CEZZ	R	DX0475CE	AB
D721	RH-DX0475CEZZ	R	DX0475CE	AB
D1050	RH-DX0475CEZZ	R	DX0475CE	AB
D1051	RH-DX0475CEZZ	R	DX0475CE	AB
D1052	RH-EX0628GEZZ	R	Zener, EX0628GE	AC
⚠ IC702	RH-FX0024CEZZ	R	PC113L	AG
COILS AND TRANSFORMERS				
CF401	RFILA0020CEZZ	R	Filter	AD
JA406	VP-XF180K0000	R	Peaking 18μH	AB
L202	VP-XF1R2K0000	R	Peaking 1.2μH	AB
L203	VP-XF150K0000	R	Peaking 15μH	AB
L204	VP-MK100K0000	R	Peaking 10μH	AB
L601	RCILZ0015PEZZ	R	Coil	AL
L603	RCILZ0013PEZZ	R	Coil	AM
L604	VP-CF390K0000	R	Peaking 39μH	AB
L701	RCILP0226CEZZ	R	Coil	AD
⚠ T601	RTRNF0160PEZZ	R	H-Volt Transformer	BE
⚠ T602	RTRNZ0343CEZZ	R	Transformer	AG
⚠ T701	RTRNZ0128PEZZ	R	Transformer	AX
CAPACITORS				
<i>(M-Poly.Film : Metalized Polypro Film)</i>				
C220	VCEAGA1CW226M	R 22	16V Electrolytic	AB
C221	VCEAGA1CW107M	R 100	16V Electrolytic	AB
C222	VCEAGA1HW106M	R 10	50V Electrolytic	AC
C223	VCEAGA1CW107M	R 100	16V Electrolytic	AB
C224	VCKYPA1HB102K	R 1000p	50V Ceramic	AA
C225	VCEAGA1CW337M	R 330	16V Electrolytic	AC
C227	VCKYPA1HF103Z	R 0.01	50V Ceramic	AA
C228	VCKYPA1HF103Z	R 0.01	50V Ceramic	AA
C229	VCKYPA1HF103Z	R 0.01	50V Ceramic	AA
C230	VCQYTA1HM182J	R 1800p	50V Mylar	AA
C231	VCKYD41HB102K	R 1000p	50V Ceramic	AA
C320	VCQYTA1HM223J	R 0.022	50V Mylar	AA
C321	VCQYTA1HM223J	R 0.022	50V Mylar	AA
C322	VCQYTA1HM472J	R 4700p	50V Mylar	AB
C323	VCFYFA1HA104J	R 0.1	50V M. Polypro	AA
C324	VCQYTA1HM122J	R 1200p	50V Mylar	AA
C325	VCQYTA1HM562J	R 5600p	50V Mylar	AA
C326	VCFYFA1HA684J	R 0.68	50V M. Polypro	AD
C327	VCEAGA1HW225M	R 2.2	50V Electrolytic	AB
C328	VCEAGA1HW225M	R 2.2	50V Electrolytic	AB
C329	VCEAGA1HW225M	R 2.2	50V Electrolytic	AB
C330	VCFYFA1HA104J	R 0.1	50V M. Polypro	AA
C331	VCFYFA1HA104J	R 0.1	50V M. Polypro	AA
C332	VCFYFA1HA104J	R 0.1	50V M. Polypro	AA
C333	VCFYFA1HA104J	R 0.1	50V M. Polypro	AA
C334	VCQYTA1HM223J	R 0.022	50V Mylar	AA
C335	VCQYTA1HM183J	R 0.018	50V Mylar	AB
C336	VCQYTA1HM223J	R 0.022	50V Mylar	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
DUNTK9482WET9 MAIN 1 UNIT (Continue)									
C337	VCQYTA1HM183J	R 0.018	50V Mylar	AB	C710	RC-KZ0016CEZZ	R 0.01	1.5kV Ceramic	AC
C338	VCQYTA1HM562J	R 5600p	50V Mylar	AA	C711	RC-KZ0016CEZZ	R 0.01	1.5kV Ceramic	AC
C339	VCQYTA1HM562J	R 5600p	50V Mylar	AA	C712	RC-KZ0016CEZZ	R 0.01	1.5kV Ceramic	AC
C340	VCEAGA1HW225M	R 2.2	50V Electrolytic	AB	C713	RC-KZ0016CEZZ	R 0.01	1.5kV Ceramic	AC
C341	VCKYPA1HB102K	R 1000p	50V Ceramic	AA	C714	VCFYFA1HA104J	R 0.1	50V M. Polypro	AA
C342	VCKYPA1HB102K	R 1000p	50V Ceramic	AA	C715	VCFYFA1HA104J	R 0.1	50V M. Polypro	AA
C343	VCEAGA1CW106M	R 10	16V Electrolytic	AA	C716	VCEAGA1CW477M	R 470	16V Electrolytic	AC
C344	VCEAGA1CW106M	R 10	16V Electrolytic	AA	C717	VCEAGA1CW477M	R 470	16V Electrolytic	AC
C345	VCEAGA1HW225M	R 2.2	50V Electrolytic	AB	C718	VCEAGA1CW477M	R 470	16V Electrolytic	AC
C346	VCEAGA1HW225M	R 2.2	50V Electrolytic	AB	△ C719	RC-KZ017SCEZZ	R 680p	4kV Special	AD
C347	VCEAGA1HW225M	R 2.2	50V Electrolytic	AB	C720	VCEAGA1CW477M	R 470	16V Electrolytic	AC
C348	VCFYFA1HA474J	R 0.47	50V M. Polypro	AC	C721	VCKYPA2HB102K	R 1000p	500V Ceramic	AA
C349	VCFYFA1HA474J	R 0.47	50V M. Polypro	AC	C722	RC-KZ0024CEZZ	R 1000p	2kV Ceramic	AC
C350	VCFYFA1HA474J	R 0.47	50V M. Polypro	AC	C723	RC-KZ0037CEZZ	R 390p	2kV Ceramic	AB
C351	VCFYFA1HA474J	R 0.47	50V M. Polypro	AC	C724	VCEAGA1EW108M	R 1000	25V Electrolytic	AD
C352	VCFYFA1HA474J	R 0.47	50V M. Polypro	AC	C725	VCEAGH1HW228M	R 2200	50V Electrolytic	AG
C353	VCFYFA1HA474J	R 0.47	50V M. Polypro	AC	C726	VCEAGA1CW227M	R 220	16V Electrolytic	AC
C354	VCEAGA1CW226M	R 22	16V Electrolytic	AB	C727	RC-EZ0400CEZZ	R 270	200V Electrolytic	AM
C355	VCEAGA1CW106M	R 10	16V Electrolytic	AA	C728	VCEAGW2CW227M	R 220	160V Electrolytic	AK
C356	VCFYFA1HA104J	R 0.1	50V M. Polypro	AA	C730	RC-EZ0695CEZZ	R 330	450V Electrolytic	AW
C417	VCEAGA1AW477M	R 470	10V Electrolytic	AC	C731	RC-EZ0695CEZZ	R 330	450V Electrolytic	AW
C418	VCEAGA1CW106M	R 10	16V Electrolytic	AA	C733	VCKYD41HB102K	R 1000p	50V Ceramic	AA
C419	VCEAGA1HW475M	R 4.7	50V Electrolytic	AB	C734	VCKYPA1HB102K	R 1000p	50V Ceramic	AA
C420	VCKYPA1HB331K	R 330p	50V Ceramic	AA	C735	VCEAGA1HW475M	R 4.7	50V Electrolytic	AB
C421	VCKYPA1HB182K	R 1800p	50V Ceramic	AA	C738	VCFYFA1HA474J	R 0.47	50V M. Polypro	AC
C422	VCEAGA1HW224M	R 0.22	50V Electrolytic	AA	C739	VCKYPA2HB222K	R 2200p	500V Ceramic	AA
C423	VCFYFA1HA104J	R 0.1	50V M. Polypro	AA	C1001	VCEAGA1AW227M	R 220	10V Electrolytic	AB
C424	VCEAGA1CW106M	R 10	16V Electrolytic	AA	C1002	VCEAGA1CW476M	R 47	16V Electrolytic	AB
C425	VCKYPA1HF103Z	R 0.01	50V Ceramic	AA	C1426	VCQYTA1HM223J	R 0.022	50V Mylar	AA
C504	VCKYPA1HB102K	R 1000p	50V Ceramic	AA	RESISTORS				
C505	VCFYFA1HA104J	R 0.1	50V M. Polypro	AA	R15	VRD-RA2BE270J	R 27	1/8W Carbon	AA
C506	VCEAGA1EW108M	R 1000	25V Electrolytic	AD	R221	VRD-RA2BE151J	R 150	1/8W Carbon	AA
C508	VCEAGA1HW106M	R 10	50V Electrolytic	AC	R222	VRD-RA2BE101J	R 100	1/8W Carbon	AB
C511	VCFYFA1HA104J	R 0.1	50V M. Polypro	AA	R224	VRD-RA2BE472J	R 4.7k	1/8W Carbon	AA
C512	VCQYSG2AA473K	R 0.047	100V Mylar	AC	R226	VRD-RA2BE122J	R 1.2k	1/8W Carbon	AA
C513	VCKYPA1HB102K	R 1000p	50V Ceramic	AA	R227	VRS-VV3DB153J	R 15k	2W Metal Oxide	AA
C514	VCKYPA1HB102K	R 1000p	50V Ceramic	AA	R228	VRD-RA2BE273J	R 27k	1/8W Carbon	AA
C515	VCQYTA1HM103J	R 0.01	50V Mylar	AA	R229	VRD-RA2BE223J	R 22k	1/8W Carbon	AA
C516	VCFYAA2AA103J	R 0.01	100V	AF	R230	VRD-RA2BE181J	R 180	1/8W Carbon	AA
C518	VCCCPA1HH560J	R 56p	50V Ceramic	AA	R320	VRD-RA2BE222J	R 2.2k	1/8W Carbon	AA
C610	VCFPFC2DB184J	R 0.18	200V M-Poly.Film	AD	R321	VRD-RA2BE682J	R 6.8k	1/8W Carbon	AA
C612	RC-KZ0039CEZZ	R 680p	2kV Ceramic	AB	R322	VRD-RA2BE562J	R 5.6k	1/8W Carbon	AA
C613	VCFPDP3CA622H	R 6200p	1600V M-Poly.Film	AE	R323	VRD-RA2BE562J	R 5.6k	1/8W Carbon	AA
C614	VCFPDP3CA682H	R 6800p	1600V M-Poly.Film	AE	R324	VRD-RA2BE272J	R 2.7k	1/8W Carbon	AA
C615	VCFYFA1HA104J	R 0.1	50V M. Polypro	AA	R325	VRD-RA2BE101J	R 100	1/8W Carbon	AB
C616	VCKYPA1HB472K	R 4700p	50V Ceramic	AA	R326	VRD-RA2BE564J	R 560k	1/8W Carbon	AA
C617	VCFPDP2DB474J	R 0.47	200V M-Poly.Film	AE	R327	VRD-RA2BE102J	R 1k	1/8W Carbon	AA
C618	VCFYB2EB224K	R 0.22	250V	AD	R328	VRD-RA2BE564J	R 560k	1/8W Carbon	AA
C619	VCKYPA2HB102K	R 1000p	500V Ceramic	AA	R329	VRD-RA2BE102J	R 1k	1/8W Carbon	AA
C620	VCEAGA2AW106M	R 10	100V Electrolytic	AC	R330	VRD-RA2BE272J	R 2.7k	1/8W Carbon	AA
C621	VCEAGA1HW106M	R 10	50V Electrolytic	AC	R331	VRD-RA2BE564J	R 560k	1/8W Carbon	AA
C622	VCKYPA1HB102K	R 1000p	50V Ceramic	AA	R332	VRD-RA2BE102J	R 1k	1/8W Carbon	AA
C623	VCEAGA1EW227M	R 220	25V Electrolytic	AC	R333	VRD-RA2BE331J	R 330	1/8W Carbon	AA
C624	VCQYTA1HM273J	R 0.027	50V Mylar	AB	R334	VRD-RA2BE331J	R 330	1/8W Carbon	AA
C625	VCKYPA2HB102K	R 1000p	500V Ceramic	AA	R335	VRD-RA2BE104J	R 100k	1/8W Carbon	AA
C626	VCEAGH1EW228M	R 2200	25V Electrolytic	AE	R336	VRD-RA2BE104J	R 100k	1/8W Carbon	AA
C627	RC-KZ0039CEZZ	R 680p	2kV Ceramic	AB	R337	VRD-RA2BE331J	R 330	1/8W Carbon	AA
C628	VCFPDP3CA472J	R 4700p	1600V M-Poly.Film	AD	R338	VRD-RA2BE331J	R 330	1/8W Carbon	AA
C629	VCFYAB2AA335J	R 3.3	100V	AL	R339	VRD-RA2BE473J	R 47k	1/8W Carbon	AA
C630	VCEAGA1HW335M	R 3.3	50V Electrolytic	AB	R340	VRD-RA2BE472J	R 4.7k	1/8W Carbon	AA
C631	VCKYPA1HB102K	R 1000p	50V Ceramic	AA	R341	VRD-RA2BE473J	R 47k	1/8W Carbon	AA
C632	VCKYPA2HB102K	R 1000p	500V Ceramic	AA	R342	VRD-RA2BE472J	R 4.7k	1/8W Carbon	AA
C633	VCEAGA2EW336M	R 33	250V Electrolytic	AD	R343	VRD-RA2BE102J	R 1k	1/8W Carbon	AA
C634	VCKYPA2HB561K	R 560p	500V Ceramic	AA	R344	VRD-RA2BE564J	R 560k	1/8W Carbon	AA
C635	VCFPDP2DB394J	R 0.39	200V M-Poly.Film	AE	R345	VRD-RA2BE101J	R 100	1/8W Carbon	AB
C636	VCFYFA1HA104J	R 0.1	50V M. Polypro	AA	R347	VRD-RA2BE102J	R 1k	1/8W Carbon	AA
C703	VCQPSC2JA333K	R 0.033	630V	AB	R348	VRD-RA2BE681J	R 680	1/8W Carbon	AA
C704	RC-KZ0035CEZZ	R 220p	2kV Ceramic	AB	R421	VRD-RA2EE680J	R 68	1/4W Carbon	AA
C705	VCKYPA1HB222K	R 2200p	50V Ceramic	AA	R422	VRD-RA2BE104J	R 100k	1/8W Carbon	AA
C706	VCKYPH3DB561K	R 560p	2000V Ceramic	AC	R427	VRD-RA2BE103J	R 10k	1/8W Carbon	AA
C707	VCKYPA1HB471K	R 470p	50V Ceramic	AA	R428	VRD-RA2BE103J	R 10k	1/8W Carbon	AA
C708	VCEAGA1VW107M	R 100	35V Electrolytic	AC	R429	VRD-RA2BE471J	R 470	1/8W Carbon	AA
C709	RC-KZ0035CEZZ	R 220p	2kV Ceramic	AB	R430	VRD-RA2BE184J	R 180k	1/8W Carbon	AA
					R431	VRD-RA2BE471J	R 470	1/8W Carbon	AA

Ref. No.	Part No.	★	Description	Code
DUNTK9482WET9 MAIN 1 UNIT (Continue)				
R432	VRD-RA2BE271J	R 270	1/8W Carbon	AA
R433	VRD-RA2BE562J	R 5.6k	1/8W Carbon	AA
R435	VRD-RA2BE684J	R 680k	1/8W Carbon	AA
R440	VRD-RA2BE472J	R 4.7k	1/8W Carbon	AA
R441	VRD-RA2BE222J	R 2.2k	1/8W Carbon	AA
R442	VRD-RA2BE392J	R 3.9k	1/8W Carbon	AA
R443	VRD-RA2BE472J	R 4.7k	1/8W Carbon	AA
R444	VRD-RA2BE223J	R 22k	1/8W Carbon	AA
R445	VRD-RA2BE223J	R 22k	1/8W Carbon	AA
R446	VRD-RA2BE333J	R 33k	1/8W Carbon	AA
R447	VRD-RA2EE750J	R 75	1/4W Carbon	AA
R448	VRD-RA2EE750J	R 75	1/4W Carbon	AA
R503	VRD-RA2BE332J	R 3.3k	1/8W Carbon	AA
R504	VRN-VV3AB2R2J	R 2.2	1W Metal Film	AA
R505	VRN-VV3AB2R2J	R 2.2	1W Metal Film	AA
R508	VRD-RA2BE103J	R 10k	1/8W Carbon	AA
R509	VRS-VV3DB151J	R 150	2W Metal Oxide	AA
R510	VRD-RA2BE180J	R 18	1/8W Carbon	AA
R511	VRD-RA2BE562J	R 5.6k	1/8W Carbon	AA
⚠ R512	RR-XZ0020CEZZ	R 39	1/4W Fuse Resistor	AB
R612	VRD-RA2BE275J	R 2.7M	1/8W Carbon	AA
R613	VRS-VV3DB561J	R 560	2W Metal Oxide	AA
R614	VRW-KQ41C3R3K	R 3.3	15W Cement	AG
R615	VRD-RA2BE563J	R 56k	1/8W Carbon	AA
R616	VRN-RV3DB2R2J	R 2.2	2W Metal Film	AB
R617	VRD-RA2EE101J	R 100	1/4W Carbon	AA
R618	VRD-RA2EE101J	R 100	1/4W Carbon	AA
R619	VRD-RA2BE104J	R 100k	1/8W Carbon	AA
⚠ R620	RR-XZ0016CEZZ	R 1	1/2W Fuse Resistor	AB
R621	VRD-RA2BE104J	R 100k	1/8W Carbon	AA
R622	VRS-SU2HB102J	R 1k	1/2W Metal Oxide	AA
R623	VRD-RA2BE223J	R 22k	1/8W Carbon	AA
R624	VRD-RA2BE103J	R 10k	1/8W Carbon	AA
R625	VRD-RA2EE125J	R 1.2M	1/4W Carbon	AA
R626	VRD-RA2BE274J	R 270k	1/8W Carbon	AA
R627	VRD-RA2BE563J	R 56k	1/8W Carbon	AA
R628	VRD-RA2BE474J	R 470k	1/8W Carbon	AA
R629	VRS-VV3AB472J	R 4.7k	1W Metal Oxide	AA
R630	VRD-RA2EE102J	R 1k	1/4W Carbon	AA
R632	VRD-RM2HD820J	R 82	1/2W Carbon	AA
R633	VRD-RM2HD470J	R 47	1/2W Carbon	AA
⚠ R636	RR-XZ0029CEZZ	R 3.3	1/2W Fuse Resistor	AB
R637	VRW-KX3HC180J	R 18	5W Cement	AE
⚠ R638	RR-XZ0071CEZZ	R 1	1W Fuse Resistor	AC
R643	VRS-KT3LB101J	R 100	3W Metal Oxide	AC
R644	VRD-RA2BE391J	R 390	1/8W Carbon	AA
R701	VRS-KT3LB103J	R 10k	3W Metal Oxide	AF
R702	VRN-SV2HBR27J	R 0.27	1/2W Metal Film	AB
R703	VRD-RM2HD684J	R 680k	1/2W Carbon	AA
R704	VRD-RA2BE333J	R 33k	1/8W Carbon	AA
R705	VRN-SV2HBR27J	R 0.27	1/2W Metal Film	AB
R706	VRN-SV2HBR27J	R 0.27	1/2W Metal Film	AB
R707	VRD-RA2BE681J	R 680	1/8W Carbon	AA
R708	VRD-RA2BE152J	R 1.5k	1/8W Carbon	AA
R709	VRD-RA2BE152J	R 1.5k	1/8W Carbon	AA
R710	VRD-RA2BE103J	R 10k	1/8W Carbon	AA
R712	VRD-RA2BE102J	R 1k	1/8W Carbon	AA
R713	VRN-KT3LB4R7J	R 4.7	3W Metal Film	AG
R714	VRD-RA2BE562J	R 5.6k	1/8W Carbon	AA
R715	VRD-RA2BE123J	R 12k	1/8W Carbon	AA
⚠ R716	VRC-UA2HG825K	R 8.2M	1/2W Solid	AA
⚠ R717	VRC-UA2HG825K	R 8.2M	1/2W Solid	AA
R718	VRD-RA2BE102J	R 1k	1/8W Carbon	AA
R719	VRD-RA2BE332J	R 3.3k	1/8W Carbon	AA
R720	VRN-VV3DB6R8J	R 6.8	2W Metal Film	AB
R721	VRD-RA2BE102J	R 1k	1/8W Carbon	AA
R722	VRS-SV3AB683J	R 68k	1W Metal Oxide	AA
R723	VRD-RA2BE472J	R 4.7k	1/8W Carbon	AA
R724	VRD-RA2BE472J	R 4.7k	1/8W Carbon	AA
R725	VRN-KT3LB2R2J	R 2.2	3W Metal Film	AF
R726	VRD-RA2BE102J	R 1k	1/8W Carbon	AA
R732	VRN-KT3LB6R8J	R 6.8	3W Metal Film	AG
R1001	VRD-RA2BE561J	R 560	1/8W Carbon	AA

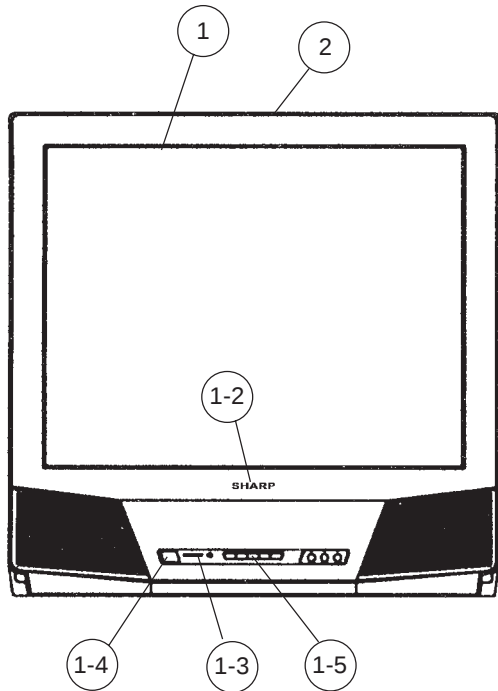
Ref. No.	Part No.	★	Description	Code
R1002	VRD-RA2BE103J	R 10k	1/8W Carbon	AA
R1003	VRD-RA2BE562J	R 5.6k	1/8W Carbon	AA
R1004	VRD-RA2BE103J	R 10k	1/8W Carbon	AA
R1005	VRD-RA2BE103J	R 10k	1/8W Carbon	AA
R1020	VRD-RM2HD330J	R 33	1/2W Carbon	AA
R1021	VRD-RA2BE101J	R 100	1/8W Carbon	AB
R1022	VRD-RA2BE101J	R 100	1/8W Carbon	AB
R1445	VRD-RA2BE223J	R 22k	1/8W Carbon	AA
R1446	VRD-RA2BE223J	R 22k	1/8W Carbon	AA
MISCELLANEOUS PARTS				
FB601	RBLN-0037CEZZ	R Balun		AB
FB602	RBLN-0037CEZZ	R Balun		AB
FB701	RBLN-0037CEZZ	R Balun		AB
FB702	RBLN-0037CEZZ	R Balun		AB
FB703	RBLN-0037CEZZ	R Balun		AB
FB704	RBLN-0037CEZZ	R Balun		AB
FB705	RBLN-0037CEZZ	R Balun		AB
FB706	RBLN-0037CEZZ	R Balun		AB
J402	QTANJ0639CEZZ	R Terminal, Audio/Video		AL
P201	QPLGN0261CEZZ	R Plug, 2 Pin		AB
P202	QPLGN2059REZZ	R Plug, 20 Pin		AE
P203	QPLGN2059REZZ	R Plug, 20 Pin		AE
P204	QPLGZ0360GEZZ	R Plug, 3 Pin		AB
P205	QPLGN2059REZZ	R Plug, 20 Pin		AE
P303	QPLGN0561CEZZ	R Plug, 5 Pin		AB
P401	QPLGN0561CEZZ	R Plug, 5 Pin		AB
P601	QPLGN0160FJZZ	R Plug, 5 Pin		AD
P602	QPLGN0361CEZZ	R Plug, 3 Pin		AB
P701	QPLGN0269GEZZ	R Plug, 2 Pin		AB
P702	QPLGN0304CEZZ	R Plug, 3 Pin		AB
P1001	QPLGN0761CEZZ	R Plug, 7 Pin		AD
P1002	QPLGN0461CEZZ	R Plug, 4 Pin		AB
S1006	QSW-B0015CEZZ	R Switch, Normal/Service		AC
SC601	QTiPM0083CEZZ	R Tip		AB
	PRDAR0244PEFW	R Heat Sink, for IC501		AN
	PRDAR0245PEFW	R Heat Sink, for Q605		AH
	PRDAR0246PEFW	R Heat Sink, for IC701		AN
	PRDAR0250PEFW	R Heat Sink, for IC704/705/706/707		AM
	PRDAR0253PEFW	R Heat Sink, for D715		AE
DUNTK9483WEW4 MAIN 2 UNIT				
INTEGRATED CIRCUITS				
IC201	VHITDA8375A-3	R TDA8375		BA
IC202	VHIKA7808Pi-1	R KA7808PI		AF
IC401	VHITDA4671/-1	R TDA4671		AZ
IC801	VHITDA4665T-1	R TDA4665T		AN
IC1001	RH-IX3097CEN2	R IX3097CE		BA
IC1002	VHIS24C04A/-1	R S24C04A		AL
IC1003	VHIKIA7045P-1	R KIA7045P		AD
IC1004	VHIKA7805Pi-1	R KA7805PI		AE
TRANSISTORS				
Q202	VS2SC2412KQ-1	R 2SC2412KQ		AA
Q203	VS2SC2412KQ-1	R 2SC2412KQ		AA
Q204	VS2SC2412KQ-1	R 2SC2412KQ		AA
Q301	VS2SC2412KQ-1	R 2SC2412KQ		AA
Q401	VS2SC2412KQ-1	R 2SC2412KQ		AA
Q402	VS2SC2412KQ-1	R 2SC2412KQ		AA
Q403	VS2SC2412KQ-1	R 2SC2412KQ		AA
Q601	VS2SC2412KQ-1	R 2SC2412KQ		AA
Q602	VS2SC2412KQ-1	R 2SC2412KQ		AA
Q603	VS2SC2412KQ-1	R 2SC2412KQ		AA
Q1001	VS2SA1037KQ-1	R 2SA1037KQ		AA
Q1002	VS2SC2412KQ-1	R 2SC2412KQ		AA
Q1004	VS2SC2412KQ-1	R 2SC2412KQ		AA
DIODES				
D204	RH-DX0475CEZZ	R DX0475CE		AB
D301	RH-DX0475CEZZ	R DX0475CE		AB
D302	RH-DX0475CEZZ	R DX0475CE		AB

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
DUNTK9483WEW4 MAIN 2 UNIT (Continude)					C404	VCEAGA1AW107M	R 100	10V Electrolytic	AB
D1005	RH-EX0633GEZZ	R	Zener, EX0633GE	AA	C405	VCEAGA1CW476M	R 47	16V Electrolytic	AB
D1006	RH-EX0633GEZZ	R	Zener, EX0633GE	AA	C406	VCEAGA1AW477M	R 470	10V Electrolytic	AC
D1009	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C407	VCEAGA1HW475M	R 4.7	50V Electrolytic	AB
D1010	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C408	VCEAGA1CW476M	R 47	16V Electrolytic	AB
D1011	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C409	VCKYCY1EF104Z	R 0.1	25V Ceramic	AA
D1012	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C410	VCKYCY1HF103Z	R 0.01	50V Ceramic	AA
D1013	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C411	VCKYCY1HF103Z	R 0.01	50V Ceramic	AA
D1014	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C412	VCKYCY1EF104Z	R 0.1	25V Ceramic	AA
D1016	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C413	VCKYCY1EF104Z	R 0.1	25V Ceramic	AA
D1017	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C414	VCKYCY1EF104Z	R 0.1	25V Ceramic	AA
D1020	RH-DX0475CEZZ	R	DX0475CE	AB	C415	VCKYCY1EF104Z	R 0.1	25V Ceramic	AA
D1023	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C416	VCKYCY1EF104Z	R 0.1	25V Ceramic	AA
D1024	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C501	VCYFA1HA104J	R 0.1	50V M. Polypro	AA
D1025	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C502	VCKYCY1HB102K	R 1000p	50V Ceramic	AA
D1026	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C503	VCKYCY1HB102K	R 1000p	50V Ceramic	AA
D1027	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C601	VCEAGA1CW107M	R 100	16V Electrolytic	AB
D1028	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C602	VCKYCY1HF223Z	R 0.022	50V Ceramic	AB
D1031	RH-DX0475CEZZ	R	DX0475CE	AB	C603	VCKYCY1HB222K	R 2200p	50V Ceramic	AA
D1033	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C604	VCKYCY1HB472K	R 4700p	50V Ceramic	AA
D1034	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C605	VCEAGA1HW105M	R 1	50V Electrolytic	AC
D1035	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C606	VCKYCY1EF104Z	R 0.1	25V Ceramic	AA
D1038	RH-DX0475CEZZ	R	DX0475CE	AB	C607	VCKYCY1EF104Z	R 0.1	25V Ceramic	AA
D1039	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C608	VCKYCY1HB102K	R 1000p	50V Ceramic	AA
D1040	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C609	VCCCCY1HH180J	R 18p	50V Ceramic	AA
D1041	RH-DX0475CEZZ	R	DX0475CE	AB	C801	VCKYCY1EF104Z	R 0.1	25V Ceramic	AA
D1043	RH-EX0619GEZZ	R	Zener, EX0619GE	AA	C802	VCKYCY1HB472K	R 4700p	50V Ceramic	AA
PACKAGED CIRCUITS					C803	VCCCCY1HH180J	R 18p	50V Ceramic	AA
X801	RCRSB0008PEZZ	R	Crystal	AH	C804	VCCCCY1HH180J	R 18p	50V Ceramic	AA
X802	RCRSB0009PEZZ	R	Crystal	AL	C805	VCKYCY1EF104Z	R 0.1	25V Ceramic	AA
COILS AND TRANSFORMER					C806	VCKYCY1EF104Z	R 0.1	25V Ceramic	AA
CF202	RFILC0005PEZZ	R	Filter	AF	C807	VCKYCY1EF104Z	R 0.1	25V Ceramic	AA
CF204	RFILC0228CEZZ	R	Filter	AF	C808	VCEAGA1CW476M	R 47	16V Electrolytic	AB
CF305	RFILC0008PEZZ	R	Filter	AF	C809	VCKYCY1HB102K	R 1000p	50V Ceramic	AA
CF306	RFILC0338CEZZ	R	Filter	AG	C810	VCKYCY1HB102K	R 1000p	50V Ceramic	AA
CF1001	RFILA0084CEZZ	R	Filter	AE	C811	VCKYCY1HF223Z	R 0.022	50V Ceramic	AB
L201	VP-XF6R8K0000	R	Peaking 6.8μH	AB	C812	VCKYCY1HF223Z	R 0.022	50V Ceramic	AB
L801	VP-XF1R8K0000	R	Peaking 1.8μH	AB	C813	VCKYCY1HF223Z	R 0.022	50V Ceramic	AB
L802	VP-XF1R8K0000	R	Peaking 1.8μH	AB	C1003	VCKYCY1HF103Z	R 0.01	50V Ceramic	AA
L803	VP-XF1R8K0000	R	Peaking 1.8μH	AB	C1004	VCKYCY1HB221K	R 220p	50V Ceramic	AA
L1001	VP-XF1R0K0000	R	Peaking 1μH	AB	C1005	VCKYCY1HF103Z	R 0.01	50V Ceramic	AA
SF201	RFILC0018PEZZ	R	Filter	AL	C1006	VCEAGA1CW106M	R 10	16V Electrolytic	AA
T201	RCILD0004PEZZ	R	Detection Coil	AF	C1007	VCEAGA1HW105M	R 1	50V Electrolytic	AC
CAPACITORS					C1008	VCEAGA1HW105M	R 1	50V Electrolytic	AC
C201	VCKYCY1HF103Z	R 0.01	50V Ceramic	AA	C1010	VCCCCY1HH220J	R 22p	50V Ceramic	AA
C202	VCKYCY1HF223Z	R 0.022	50V Ceramic	AB	C1011	VCCCCY1HH220J	R 22p	50V Ceramic	AA
C203	VCEAGA1HW225M	R 2.2	50V Electrolytic	AB	C1012	VCCCCY1HH220J	R 22p	50V Ceramic	AA
C204	VCKYCY1EF104Z	R 0.1	25V Ceramic	AA	C1013	VCCCCY1HH220J	R 22p	50V Ceramic	AA
C205	VCCCCY1HH100D	R 10p	50V Ceramic	AA	C1015	VCYFA1HA334J	R 0.33	50V M. Polypro	AB
C206	VCEAGA1CW106M	R 10	16V Electrolytic	AA	C1016	VCKYCY1EF104Z	R 0.1	25V Ceramic	AA
C207	VCKYCY1HF103Z	R 0.01	50V Ceramic	AA	C1017	VCEAGA1AW477M	R 470	10V Electrolytic	AC
C208	VCEAGA1CW106M	R 10	16V Electrolytic	AA	C1018	VCEAGA1HW105M	R 1	50V Electrolytic	AC
C209	VCKYCY1HF103Z	R 0.01	50V Ceramic	AA	C1019	VCEAGA1CW106M	R 10	16V Electrolytic	AA
C210	VCYFA1HA474J	R 0.47	50V M. Polypro	AC	C1042	VCCCCY1HH101J	R 100p	50V Ceramic	AA
C211	VCKYCY1HF223Z	R 0.022	50V Ceramic	AB	C1043	VCCCCY1HH100D	R 10p	50V Ceramic	AA
C212	VCEAGA1CW107M	R 100	16V Electrolytic	AB	RESISTORS				
C213	VCYFA1HA104J	R 0.1	50V M. Polypro	AA	R2	VRS-CY1JF000J	R 0	1/16W Metal Oxide	AA
C214	VCEAGA1HW225M	R 2.2	50V Electrolytic	AB	R5	VRS-CY1JF000J	R 0	1/16W Metal Oxide	AA
C215	VCKYCY1HF223Z	R 0.022	50V Ceramic	AB	R7	VRS-CY1JF000J	R 0	1/16W Metal Oxide	AA
C216	VCYFA1HA334J	R 0.33	50V M. Polypro	AB	R17	VRS-CY1JF000J	R 0	1/16W Metal Oxide	AA
C217	VCKYCY1EF104Z	R 0.1	25V Ceramic	AA	R206	VRS-CY1JF122J	R 1.2k	1/16W Metal Oxide	AA
C218	VCEAGA1AW477M	R 470	10V Electrolytic	AC	R207	VRS-CY1JF391J	R 390	1/16W Metal Oxide	AA
C219	VCEAGA1CW106M	R 10	16V Electrolytic	AA	R208	VRS-CY1JF102J	R 1k	1/16W Metal Oxide	AA
C301	VCKYCY1HB332K	R 3300p	50V Ceramic	AA	R209	VRS-CY1JF181J	R 180	1/16W Metal Oxide	AA
C302	VCEAGA1CW106M	R 10	16V Electrolytic	AA	R210	VRD-RA2BE4R7J	R 4.7	1/8W Carbon	AA
C311	VCKYCY1HF103Z	R 0.01	50V Ceramic	AA	R211	VRS-CY1JF560J	R 56	1/16W Metal Oxide	AA
C312	VCCCCY1HH680J	R 68p	50V Ceramic	AA	R212	VRS-CY1JF182J	R 1.8k	1/16W Metal Oxide	AA
C317	VCEAGA1HW225M	R 2.2	50V Electrolytic	AB	R213	VRS-CY1JF181J	R 180	1/16W Metal Oxide	AA
C401	VCKYCY1HF473Z	R 0.047	50V Ceramic	AA	R214	VRS-CY1JF221J	R 220	1/16W Metal Oxide	AA
C402	VCKYCY1HF473Z	R 0.047	50V Ceramic	AA	R215	VRS-CY1JF470J	R 47	1/16W Metal Oxide	AA
C403	VCEAGA1CW106M	R 10	16V Electrolytic	AA	R217	VRD-RA2BE2R2J	R 2.2	1/8W Carbon	AA
					⚠ R218	RR-XZ0080CEZZ	R 4.7	1/2W Fuse Resistor	AB
					R219	VRS-CY1JF820J	R 82	1/16W Metal Oxide	AA
					R220	VRS-CY1JF181J	R 180	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
DUNTK9483WEW4 MAIN 2 UNIT (Continue)				
R310	VRS-CY1JF332J	R 3.3k	1/16W Metal Oxide	AA
R311	VRS-CY1JF102J	R 1k	1/16W Metal Oxide	AA
R312	VRS-CY1JF221J	R 220	1/16W Metal Oxide	AA
R313	VRS-CY1JF221J	R 220	1/16W Metal Oxide	AA
R314	VRS-CY1JF153J	R 15k	1/16W Metal Oxide	AA
R315	VRD-RA2BE472J	R 4.7k	1/8W Carbon	AA
R316	VRS-CY1JF223J	R 22k	1/16W Metal Oxide	AA
R317	VRS-CY1JF102J	R 1k	1/16W Metal Oxide	AA
R401	VRS-CY1JF470J	R 47	1/16W Metal Oxide	AA
R402	VRS-CY1JF331J	R 330	1/16W Metal Oxide	AA
R403	VRS-CY1JF471J	R 470	1/16W Metal Oxide	AA
R404	VRS-CY1JF471J	R 470	1/16W Metal Oxide	AA
R406	VRS-CY1JF222J	R 2.2k	1/16W Metal Oxide	AA
R407	VRS-CY1JF122J	R 1.2k	1/16W Metal Oxide	AA
R408	VRS-CY1JF392J	R 3.9k	1/16W Metal Oxide	AA
R409	VRS-CY1JF000J	R 0	1/16W Metal Oxide	AA
R410	VRD-RM2HD151J	R 150	1/2W Carbon	AA
R411	VRS-CY1JF104J	R 100k	1/16W Metal Oxide	AA
R412	VRS-CY1JF102J	R 1k	1/16W Metal Oxide	AA
R413	VRS-CY1JF394J	R 390k	1/16W Metal Oxide	AA
R414	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R415	VRS-CY1JF5R6J	R 5.6	1/16W Metal Oxide	AA
R416	VRS-CY1JF100J	R 10	1/16W Metal Oxide	AA
R417	VRS-CY1JF223J	R 22k	1/16W Metal Oxide	AA
R418	VRS-CY1JF153J	R 15k	1/16W Metal Oxide	AA
R419	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R420	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R501	VRS-CY1JF393F	R 39k	1/16W Metal Oxide	AA
R601	VRS-CY1JF103J	R 10k	1/16W Metal Oxide	AA
R602	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R603	VRD-RM2HD151J	R 150	1/2W Carbon	AA
R604	VRS-CY1JF330J	R 33	1/16W Metal Oxide	AA
R605	VRS-CY1JF273J	R 27k	1/16W Metal Oxide	AA
R606	VRS-CY1JF153J	R 15k	1/16W Metal Oxide	AA
R607	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R608	VRS-CY1JF182J	R 1.8k	1/16W Metal Oxide	AA
R609	VRS-CY1JF1R0J	R 1	1/16W Metal Oxide	AA
R611	VRS-CY1JF103J	R 10k	1/16W Metal Oxide	AA
R801	VRS-CY1JF104J	R 100k	1/16W Metal Oxide	AA
R802	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R803	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R804	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R805	VRS-CY1JF100J	R 10	1/16W Metal Oxide	AA
R1007	VRS-CY1JF563J	R 56k	1/16W Metal Oxide	AA
R1012	VRS-CY1JF562J	R 5.6k	1/16W Metal Oxide	AA
R1013	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R1014	VRD-RA2BE103J	R 10k	1/8W Carbon	AA
R1015	VRS-CY1JF103J	R 10k	1/16W Metal Oxide	AA
R1016	VRS-CY1JF103J	R 10k	1/16W Metal Oxide	AA
R1017	VRS-CY1JF472J	R 4.7k	1/16W Metal Oxide	AA
R1018	VRS-CY1JF222J	R 2.2k	1/16W Metal Oxide	AA
R1023	VRS-CY1JF562J	R 5.6k	1/16W Metal Oxide	AA
R1024	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R1025	VRS-CY1JF103J	R 10k	1/16W Metal Oxide	AA
R1026	VRS-CY1JF102J	R 1k	1/16W Metal Oxide	AA
R1029	VRS-CY1JF562J	R 5.6k	1/16W Metal Oxide	AA
R1030	VRS-CY1JF562J	R 5.6k	1/16W Metal Oxide	AA
R1031	VRS-CY1JF562J	R 5.6k	1/16W Metal Oxide	AA
R1032	VRS-CY1JF563J	R 56k	1/16W Metal Oxide	AA
R1033	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R1034	VRS-CY1JF563J	R 56k	1/16W Metal Oxide	AA
R1036	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R1037	VRS-CY1JF561J	R 560	1/16W Metal Oxide	AA
R1041	VRS-CY1JF103J	R 10k	1/16W Metal Oxide	AA
R1042	VRS-CY1JF562J	R 5.6k	1/16W Metal Oxide	AA
R1043	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R1044	VRS-CY1JF472J	R 4.7k	1/16W Metal Oxide	AA
R1045	VRS-CY1JF103J	R 10k	1/16W Metal Oxide	AA
R1046	VRS-CY1JF102J	R 1k	1/16W Metal Oxide	AA
R1048	VRS-CY1JF153J	R 15k	1/16W Metal Oxide	AA
R1049	VRS-CY1JF822J	R 8.2k	1/16W Metal Oxide	AA
R1050	VRS-CY1JF103J	R 10k	1/16W Metal Oxide	AA
R1051	VRS-CY1JF561J	R 560	1/16W Metal Oxide	AA

Ref. No.	Part No.	★	Description	Code
R1052	VRS-CY1JF561J	R 560	1/16W Metal Oxide	AA
R1053	VRS-CY1JF561J	R 560	1/16W Metal Oxide	AA
R1054	VRS-CY1JF472J	R 4.7k	1/16W Metal Oxide	AA
R1055	VRS-CY1JF472J	R 4.7k	1/16W Metal Oxide	AA
R1056	VRS-CY1JF472J	R 4.7k	1/16W Metal Oxide	AA
R1057	VRS-CY1JF472J	R 4.7k	1/16W Metal Oxide	AA
R1058	VRS-CY1JF562J	R 5.6k	1/16W Metal Oxide	AA
R1059	VRS-CY1JF392J	R 3.9k	1/16W Metal Oxide	AA
R1061	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R1062	VRS-CY1JF103J	R 10k	1/16W Metal Oxide	AA
R1063	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R1064	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R1065	VRS-CY1JF392J	R 3.9k	1/16W Metal Oxide	AA
R1066	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R1067	VRS-CY1JF682J	R 6.8k	1/16W Metal Oxide	AA
R1068	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R1069	VRS-CY1JF392J	R 3.9k	1/16W Metal Oxide	AA
R1070	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R1071	VRS-CY1JF682J	R 6.8k	1/16W Metal Oxide	AA
R1072	VRS-CY1JF102J	R 1k	1/16W Metal Oxide	AA
R1073	VRS-CY1JF102J	R 1k	1/16W Metal Oxide	AA
R1076	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R1077	VRD-RM2HD470J	R 47	1/2W Carbon	AA
R1078	VRS-CY1JF333J	R 33k	1/16W Metal Oxide	AA
R1079	VRS-CY1JF332J	R 3.3k	1/16W Metal Oxide	AA
R1086	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R1087	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R1089	VRS-CY1JF102J	R 1k	1/16W Metal Oxide	AA
R1090	VRD-RA2BE102J	R 1k	1/8W Carbon	AA
R1092	VRS-CY1JF682J	R 6.8k	1/16W Metal Oxide	AA
R1094	VRD-RM2HD1R5J	R 1.5	1/2W Carbon	AA
R1095	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R1096	VRS-CY1JF101J	R 100	1/16W Metal Oxide	AA
R1099	VRS-CY1JF102J	R 1k	1/16W Metal Oxide	AA
MISCELLANEOUS PARTS				
P801	QPLGN0542CEZZ	R Plug, 5 Pin		AB
SC202	QSOCZ2050CEZZ	R Socket, 20 Pin		AF
SC203	QSOCZ2050CEZZ	R Socket, 20 Pin		AF
SC204	QSOCZ0360GEZZ	R Socket, 20 Pin		AC
SC205	QSOCZ2050CEZZ	R Socket, 3 Pin		AF
SLD201	PSLDM0254PEFW	R Shield		AE
SLD202	PSLDM0255PEFW	R Shield		AD
SLD1001	PSLDM0244PEFW	R Shield		AD
SLD1002	PSLDM0245PEFW	R Shield		AD
DUNTK9486WET4 CRT UNIT				
INTEGRATED CIRCUIT				
IC851	VHITDA6107Q-1	R TDA6107Q		AP
DIODES AND VARISTORS				
D851	RH-EX0623GEZZ	R Zener, EX0623GE		AA
D852	VHD1SS244/-1	R 1SS244		AB
D853	VHD1SS244/-1	R 1SS244		AB
D854	VHD1SS244/-1	R 1SS244		AB
VA851	RH-VX0050CEZZ	R Varistor, VX0050CE		AE
VA852	RH-VX0050CEZZ	R Varistor, VX0050CE		AE
COIL				
L851	VP-CF681K0000	R Peaking 680μH		AB
CAPACITORS				
C852	VCFYSB2EB224K	R 0.22 250V		AD
△ C854	RC-KZ0153CEZZ	R 0.001 1.5kV		AB
C855	VCEAGA2EW106M	R 10 250V Electrolytic		AC
C857	VCKYPA1HB391K	R 390p 50V Ceramic		AA
C858	VCKYPA1HB391K	R 390p 50V Ceramic		AA
C859	VCKYPA1HB391K	R 390p 50V Ceramic		AA
C866	VCEAGA2EW106M	R 10 250V Electrolytic		AC

Ref. No.	Part No.	★	Description	Code
DUNTK9486WET4 CRT UNIT (Continue)				
RESISTORS				
R851	VRD-RA2BE101J	R 100	1/8W Carbon	AB
R852	VRD-RA2BE101J	R 100	1/8W Carbon	AB
R853	VRD-RA2BE101J	R 100	1/8W Carbon	AB
R855	VRD-RM2HD272J	R 2.7k	1/2W Carbon	AA
R861	VRD-RM2HD272J	R 2.7k	1/2W Carbon	AA
R867	VRD-RM2HD272J	R 2.7k	1/2W Carbon	AA
R875	VRD-RA2BE560J	R 56	1/8W Carbon	AA
R876	VRD-RA2BE560J	R 56	1/8W Carbon	AA
R877	VRD-RA2BE560J	R 56	1/8W Carbon	AA
MISCELLANEOUS PARTS				
P851	QPLGN0361CEZZ	R Plug, 3 Pin		AB
P852	QPLGN0561CEZZ	R Plug, 5 Pin		AB
⚠ SC851	QSOCV0919CEZZ	R Socket, 9 Pin		AH
TP851	QTIPM0083CEZZ	R Tip		AB
TP852	QTIPM0083CEZZ	R Tip		AB
TP853	QTIPM0083CEZZ	R Tip		AB
	PRDAR0248PEFW	R Heat Sink, for IC851		AF
MISCELLANEOUS PARTS				
CN402	QCNW-0024PEZZ		Connecting Cord	
CN752	QCNW-0022PEZZ		Connecting Cord	
CN753	QCNW-0023PEZZ		Connecting Cord	
CN851	QCNW-2187PEZZ	R	Connecting Cord	AG
CN852	QCNW-0020PEZZ		Connecting Cord	
CN1101	QCNW-0025PEZZ	R	Connecting Cord	AF
CN3302	QCNW-2222PEZZ	R	Connecting Cord	AK
CN3306	QCNW-2224PEZZ	R	Connecting Cord	AH
SUPPLIED ACCESSORIES				
	QACCZ3008PEZZ	R	AC Cord	AN
	QCNW-2193PEZZ	R	Connecting Cord	AK
	RRMCG1399PESA		Infrared R-C	
	TINS-0096KJZZ		Instruction Book	
PACKING PARTS (NOT REPLACEMENT ITEM)				
	SPAKC0090KJZZ	-	Packing Case	—
	SPAKP0008KJZZ	-	Wrapping Paper	—
	SPAKX0061KJZZ	-	Packing Add.	—
	SPAKX0062KJZZ	-	Packing Add.	—
	SSAKA0230CEZZ	-	Polyethylene Bag	—
CABINET PARTS				
1	CCABA0060WEA0		Front Cabinet Ass'y	
1-1	Not Available	-	Front Cabinet (Not Replacement Item)	—
1-2	HBDGB3119CESA	R	Badge, SHARP	AG
1-3	HDECQ0025KJSA		LED Cover, R/C	
1-4	JBTN-0032KJSA		Power Button	
1-5	JBTN-0033KJSA		Control Button	
2	CCABB0039WEA0		Rear Cabinet Ass'y	
2-1	Not Available	-	Rear Cabinet (Not Replacement Item)	—
2-2	HiNDP0014KJZZ		A/V Indicator	

Ref. No.	Part No.	★	Description	Code
				



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