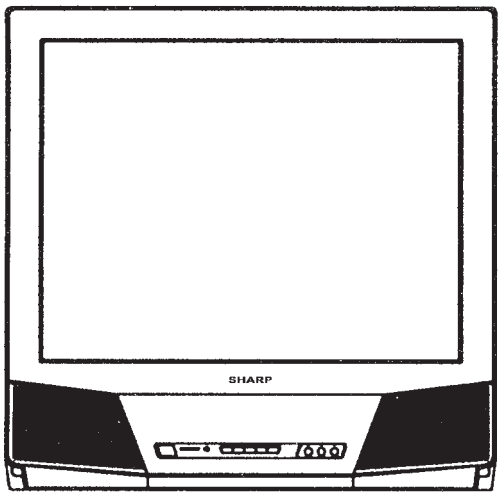
SHARP SERVICE MANUAL

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.

CONTENTS

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.

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.

ADJUSTMENT PRECAUTIONS

This model's setting are adjusted in two different ways: through the I^2C bus control and in the conventional analog manner. The adjustments via the I^2C 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 I^2C 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.

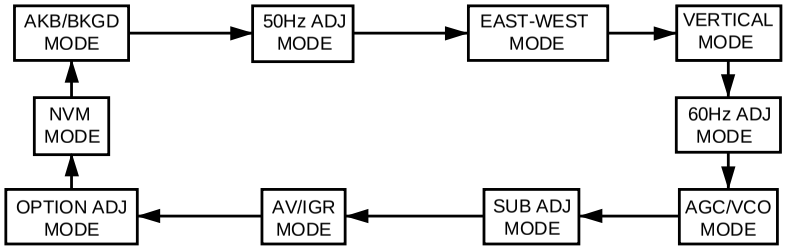
(1) Set the switch S1006 to the service mode position and turn on the main power switch. Initial values are automatically preset only when a new E^2PROM is used (judgement with the first 4 bytes).
(2) The initial data are preset as listed in page 5~6.
(3) Make sure the data need modify or not (Initial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

SERVICE MODE

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

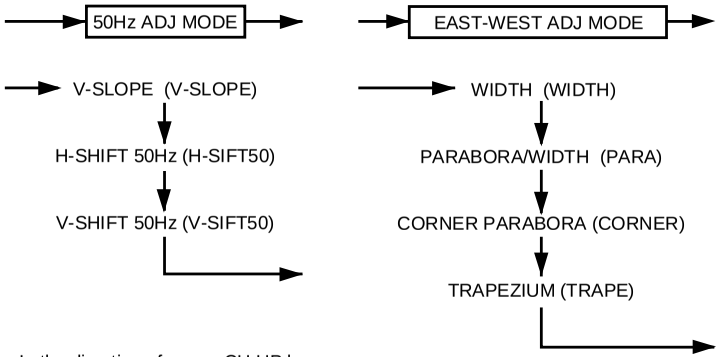


FORWARD: CH UP
REVERSE: CH DOWN

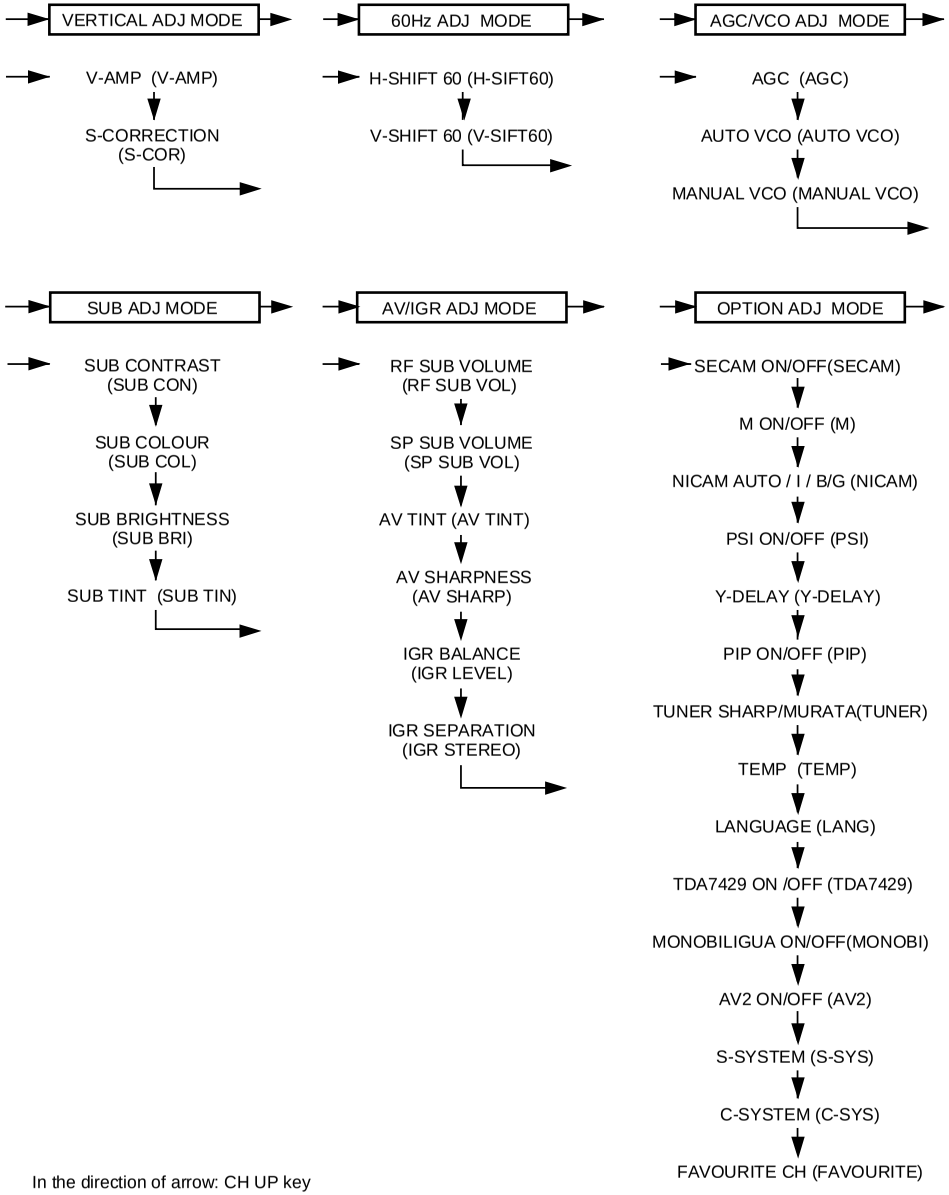
AKB/BKGD MODE

. WHITE POINT (G)
. WHITE POINT (B)
. AKB ON/OFF

KEY	UP	DOWN
WHITE-POINT(G)	2 KEY	5 KEY
WHITE-POINT(B)	3 KEY	6 KEY
AKB	8 KEY	ON/OFF



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

E²PROM 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		

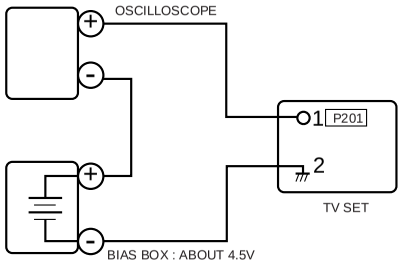
MCL1 (R/C CODE =117)			MCL2 (R/C CODE=169)		
CH-NO	Fv (MHz)	SOUND SYS	CH-NO	Fv (MHz)	SOUND SYS
40	663.25	AUTO	40	SKIP OFF FREE	
41	679.25	AUTO	41	SKIP OFF FREE	
42	174.95	AUTO	42	SKIP OFF FREE	
43	175.55	AUTO	43	SKIP OFF FREE	
44	SKIP OFF FREE		44	SKIP OFF FREE	
45	SKIP OFF FREE		45	SKIP OFF FREE	
↓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

SHIPPING SETTING IX3097CEN2

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

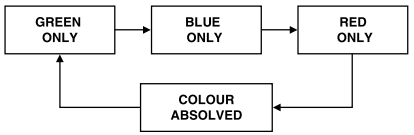
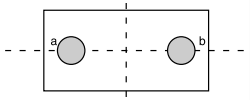
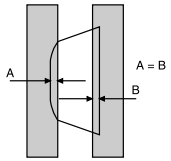
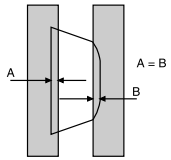
■ VCO, AND AGC ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
1	VCO ADJUSTMENT (I^2C 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^2C 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.	

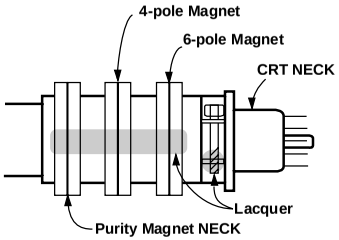
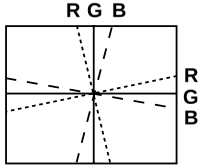
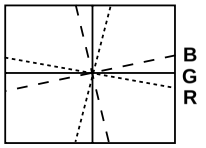
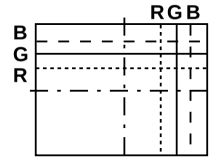
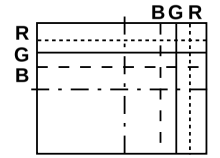
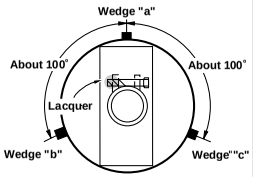
■ SOUND ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
1	RF SUB VOLUME (I^2C 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 impendence). 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. Tolerence: 1.76 Vp-p ± 0.10 Vp-p.	
2	SP SUB VOLUME (I^2C 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 ± 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.	

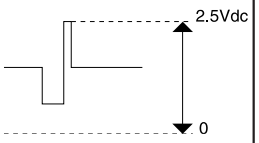
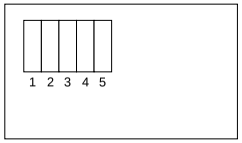
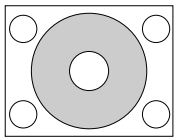
PURITY ADJUSTMENT

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 degausing 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. 	 **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 4**	 **Figure a**  **Figure b**  **Figure c**  **Figure d**  **Figure 3**

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

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
1	CRT Cut - OFF ADJ. (I^2C 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 ± 0.1Vdc.	* Before adjustment , make sure that this adjustment with the initial bus data "White Point (G)" & "White Point (B)" are 32.  **Figure 5**
2	White Balance ADJ. (I^2C 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^2C 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 ± 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**

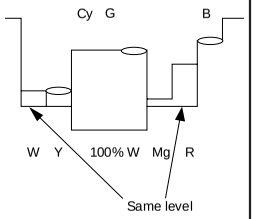
HORIZONTAL, VERTICAL, DEFLECTION LOOP ADJUSTMENT.

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
1	V-SLOPE ADJ. (I^2C 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: ± 1 SCANNING LINE
2	V-SHIFT 50 (I^2C BUS CONTROL) V-SHIFT 60 (I^2C 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. 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.	SPEC: ± 2mm
3	V-AMP (I^2C 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% ± 1.5 %
4	H-SHIFT 50 (I^2C BUS CONTROL) H-SHIFT 60 (I^2C 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. 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.	SPEC: ± 2mm

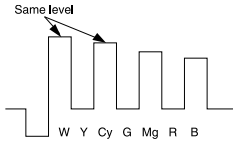
HORIZONTAL, VERTICAL, DEFLECTION LOOP ADJUSTMENT.

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
5	S-COR (I^2C 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

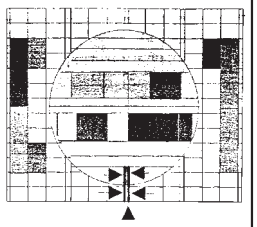
PAL CHROMA ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
1	SUB COLOUR ADJ. (I^2C 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^2C 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.

Y DELAY ADJUSTMENT

NO	ADJUSTMENT POINT	ADJUSTMENT CONDITION/PROCEDURE	WAVEFORM OR OTHERS
1	Y DELAY (I^2C 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.	 **Figure 10**

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 impendence. Make sure the output is as specified (1.0 Vp-p ± 3 dB) 3. Terminate the Audio output with a 10 Kohm impendence. Make sure the O/P is as specified (1.76 Vp-p ± 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)

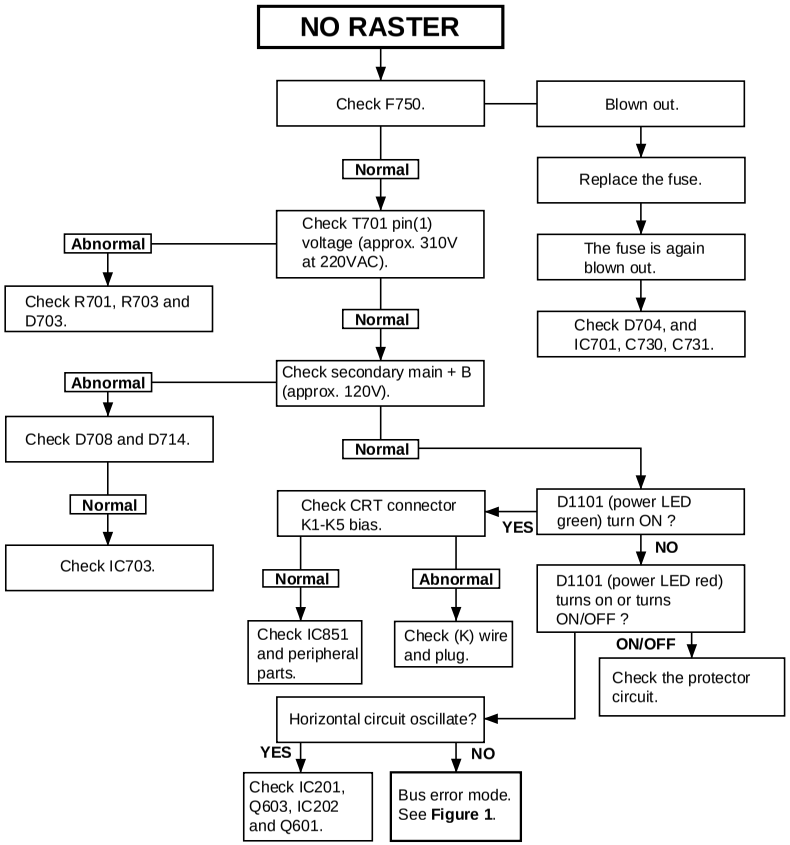
NO	CHECKING POINT	SETTING CONDITION	WAVEFORM OR OTHERS
1	CONTRAST	1. Receive the "MONOSCOPE PATTERN" signal. 2. Press the CH UP/DOWN key for PICTURE control setting with R/C, select the CONTRAST. 3. Increase or decrease the CONTRAST by using the VOLUME UP / DOWN key. 4. Check whether the CONTRAST is 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

NO RASTER



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.

E²PROM (S24C04A)
IC1002

1 chip IC (TDA8375)
IC201

Sound processor IC (TDA7429S)
IC302

PSI IC (TDA4671)
IC401

PLL (ST6HD64)
TU201

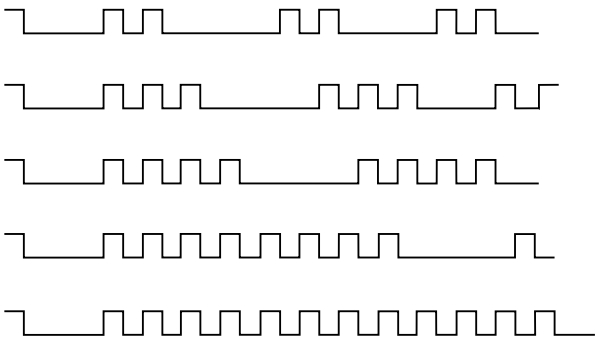
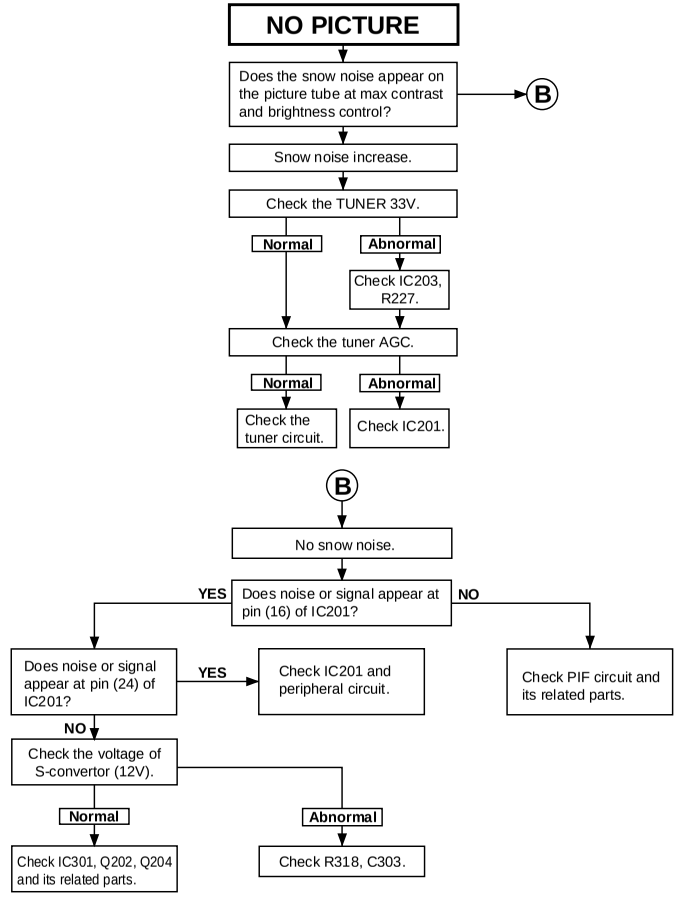
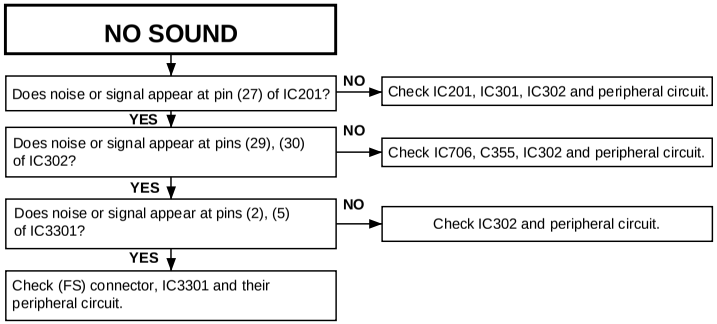


Figure 1

NO PICTURE



NO SOUND



NEITHER VERTICAL NOR HORIZONTAL SYNCHRONIZATION

Check IC201, C603, C604, C609 and R605.

DEFECTIVE VERTICAL AMP. AND VERTICAL LINEARITY

- Readjust vertical size.
- Vertical size is abnormal/non linearity.
- Check R503, R504 and R505.

NO VERTICAL SCAN

- Check IC501 bias.
  - Normal → Check R503, C502, R501, C503 and C501.
  - Abnormal → Check R638,R620 and R512.

NO SPECIFIC COLOUR

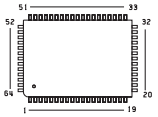
- Is some colour produced in B/W broadcast reception?
  - NO → Check IC201, R802, R803, R804 and R412.
  - YES → Is the white balance properly adjusted?
    - NO → Readjust the white balance.
    - YES →
      - The picture colour is cyan. → Check pins (2), (8) of IC851 and its adjacent circuit.
      - The picture colour is magenta. → Check pins (7), (3) of IC851 and its adjacent circuit.
      - The picture colour is yellow. → Check pins (1), (9) of IC851 and its adjacent circuit.

NO SPECIFIC COLOUR (NO COLOUR SYNCHRONIZATION)

- Check IC201 and bias control circuit.
  - Normal
    - (PAL/NTSC) → Check IC801,IC401, X801, X802, C802, C803 and C804.
    - (SECAM) → Check IC901 and its related parts.
  - Abnormal → Correct and change the wrong parts.

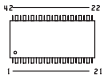
SOLID STATE DEVICE BASE DIAGRAM

TOP VIEW

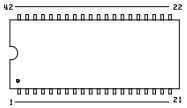


TDA8375

TDA4671



IX3097CE



TDA7429

TDA4665

FX0024CE

S24C04A1

SIDE VIEW

2SA1037
2SC2412

RC102M

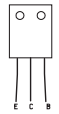
2SA1015
2SC1815

KIA7045P

2SK30AG

2SK583

2SC1906



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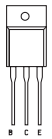
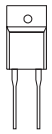
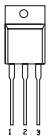


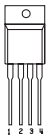
2SA1837
2SC4793



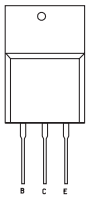
DX0355CE



KIA7812P
KIA7805P
KIA7808P



PQ12RD
PQ09RD
PQ05RD



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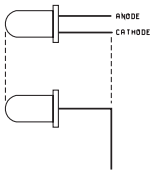

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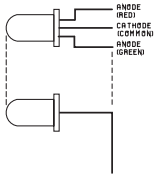

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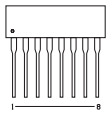
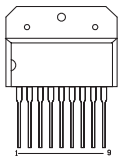


M51497L



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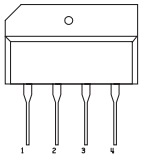
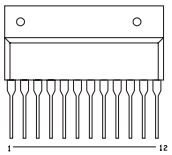
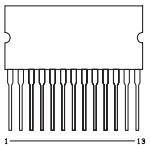


STR6656

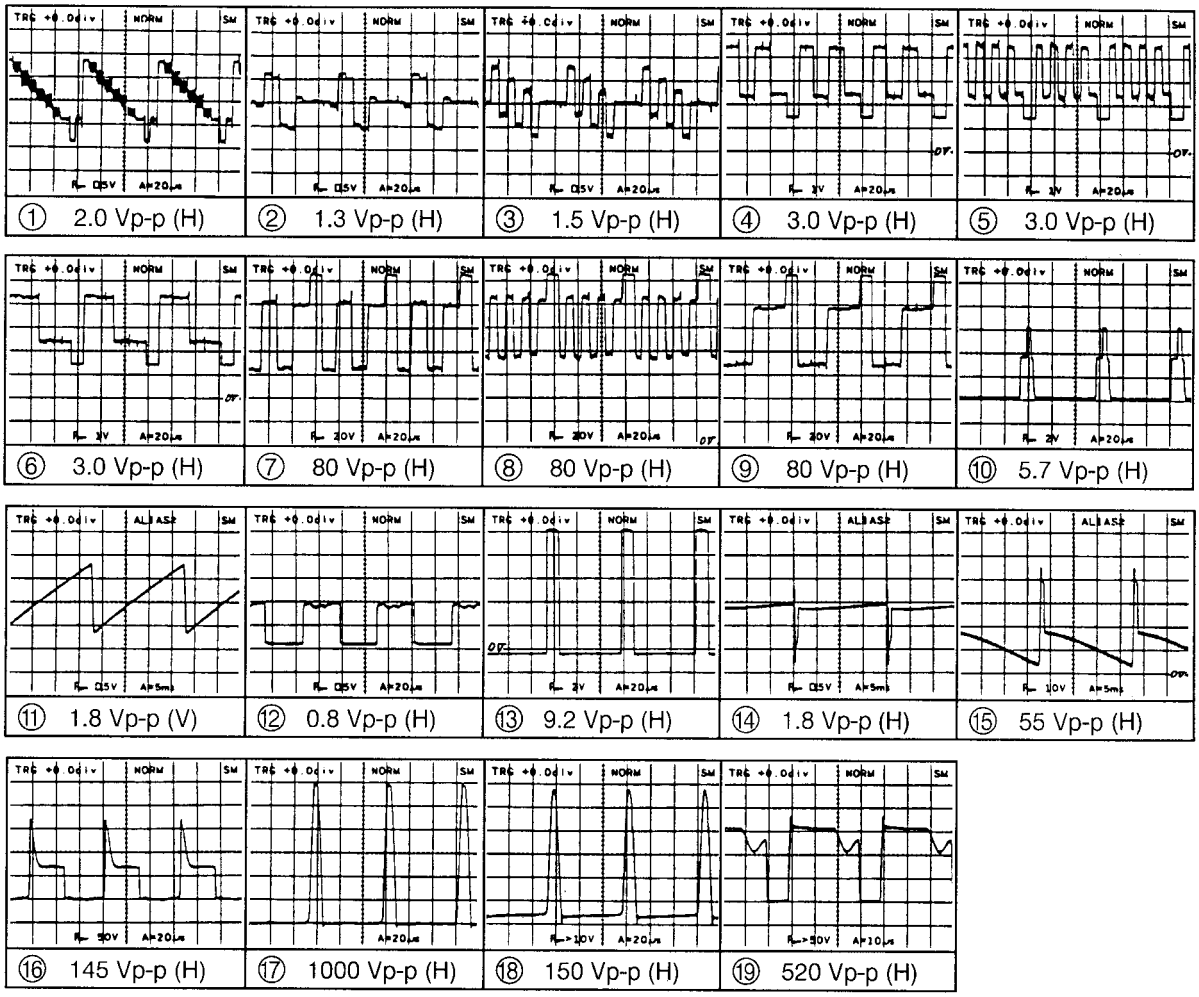


AN5275



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 MAINTANING 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 = μμF)

VOLTAGE MEASUREMENT CONDITIONS:

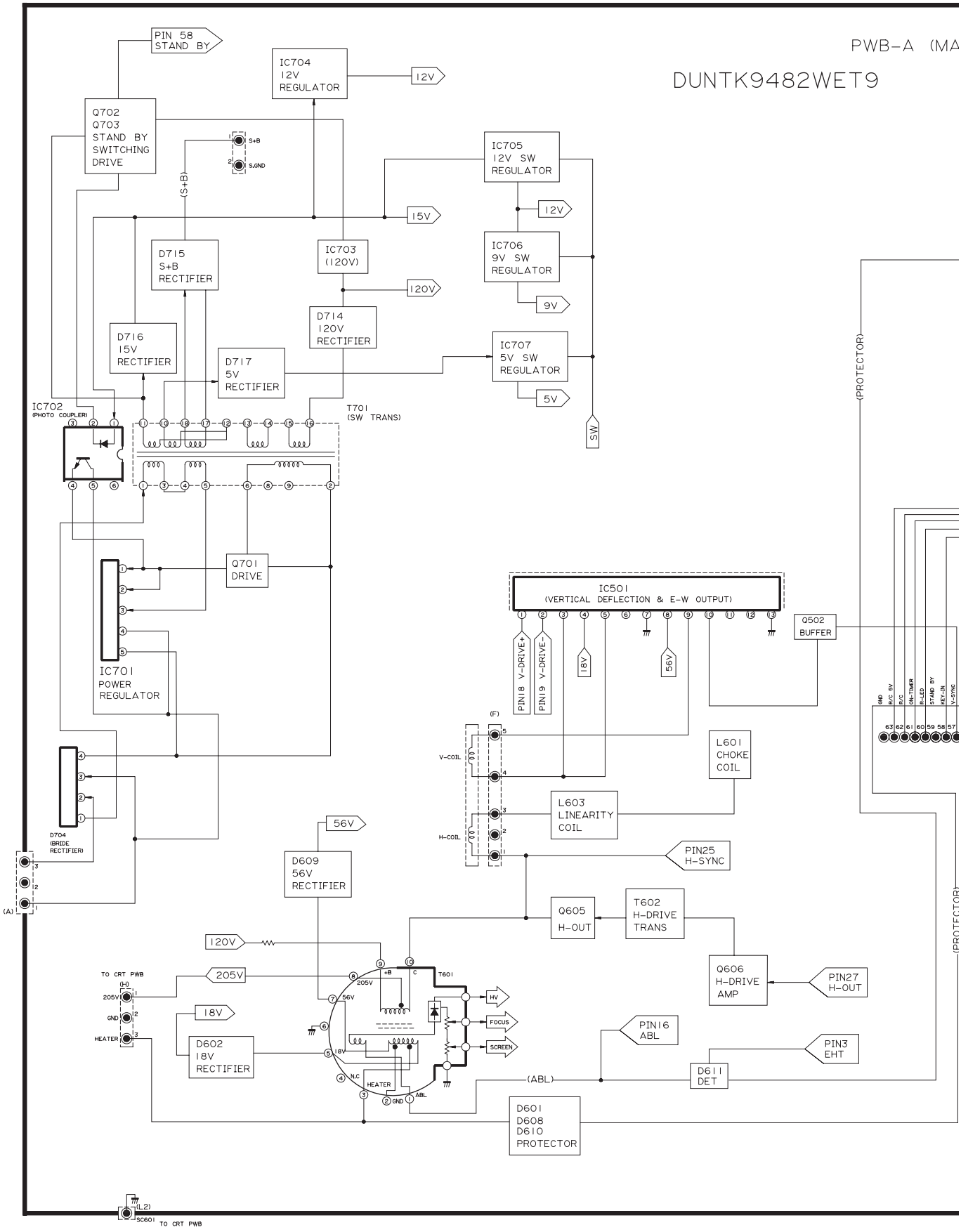
1. Voltage in parenthesis measured with no Signal.
2. Voltages without parenthesis measured with 3mV B & W or colour-Signal.
3. All the voltages in each point are measured with VTVM.

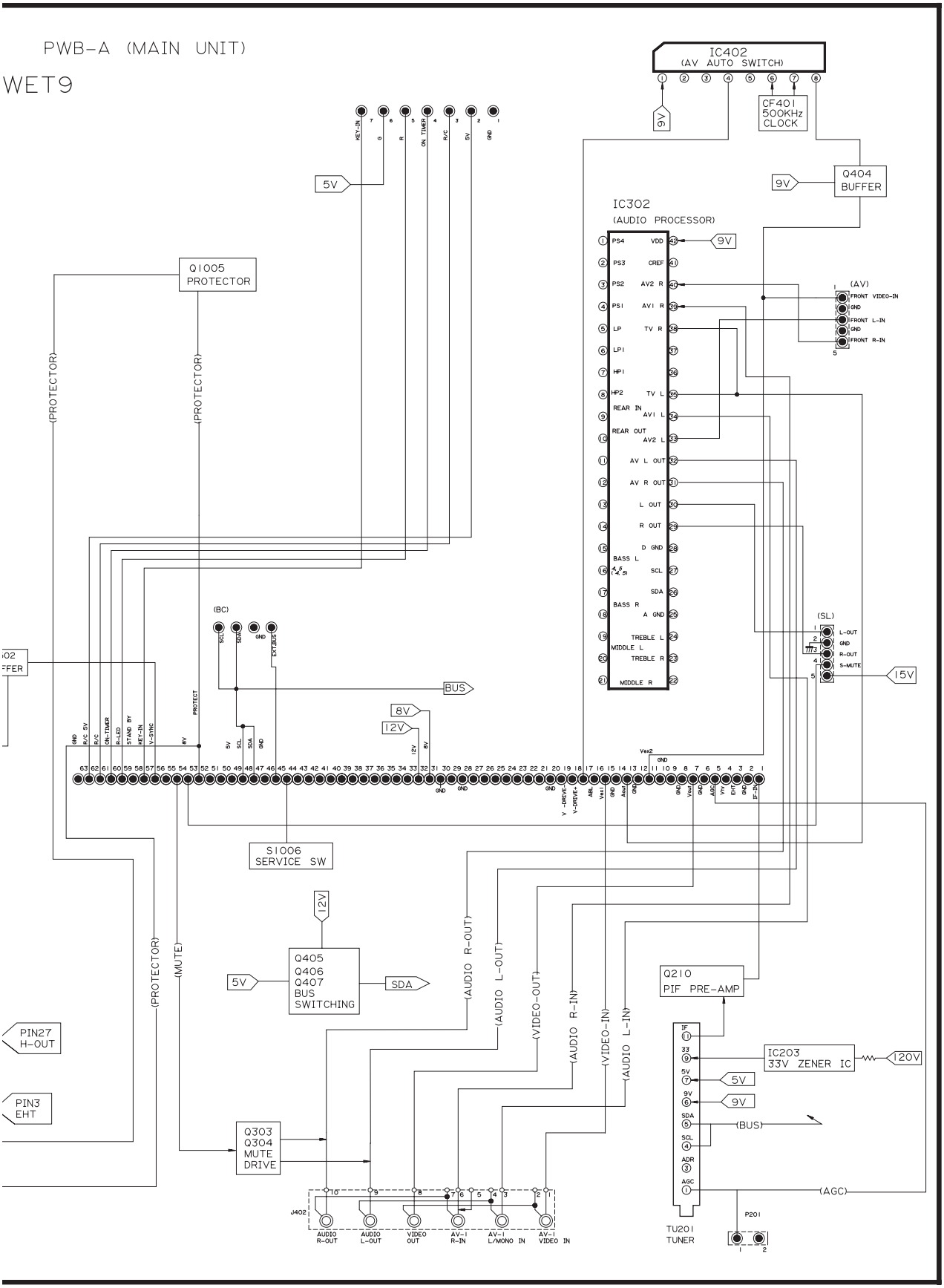
WAVEFORM MEASUREMENT CONDITIONS:

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

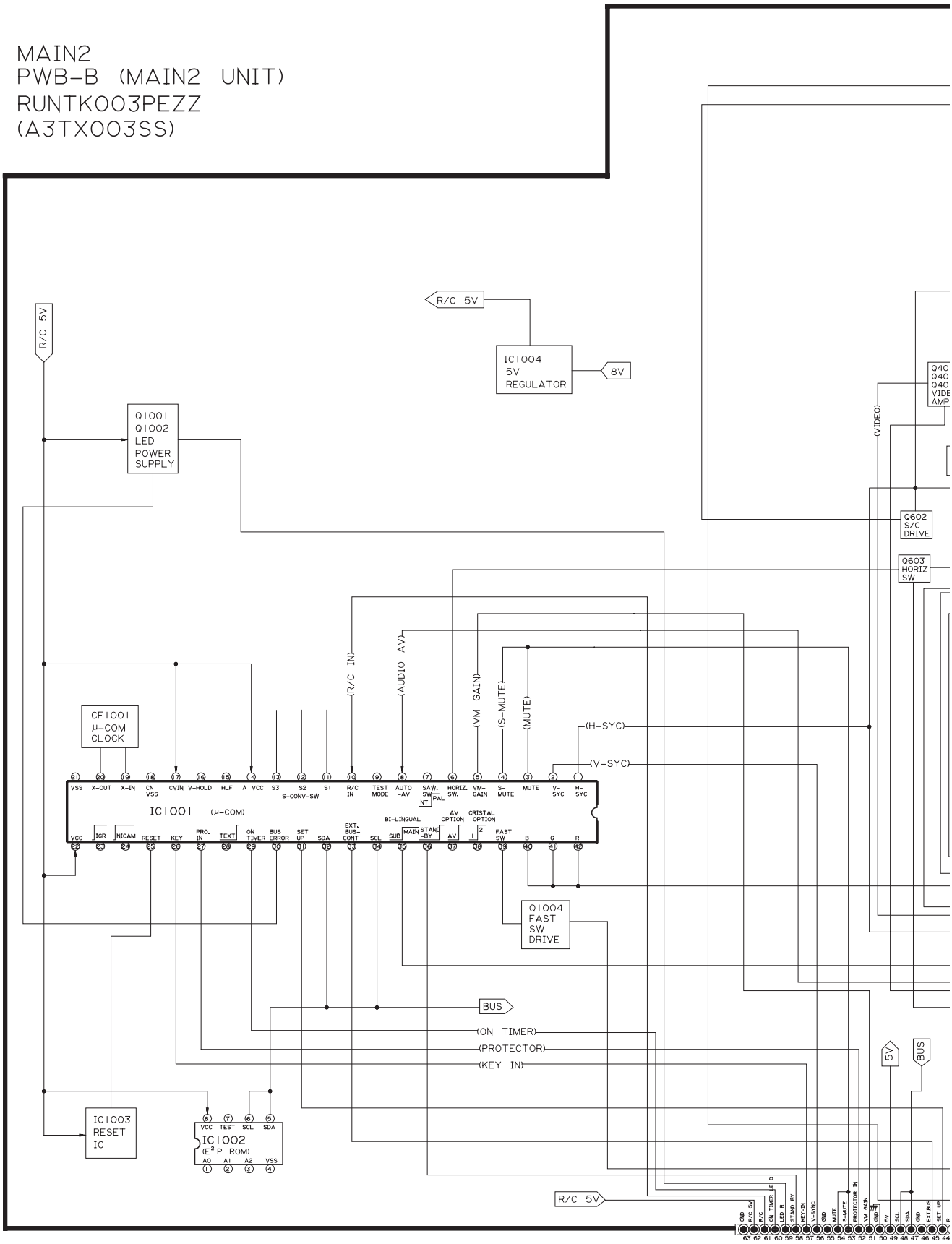
BLOCK DIAGRAM

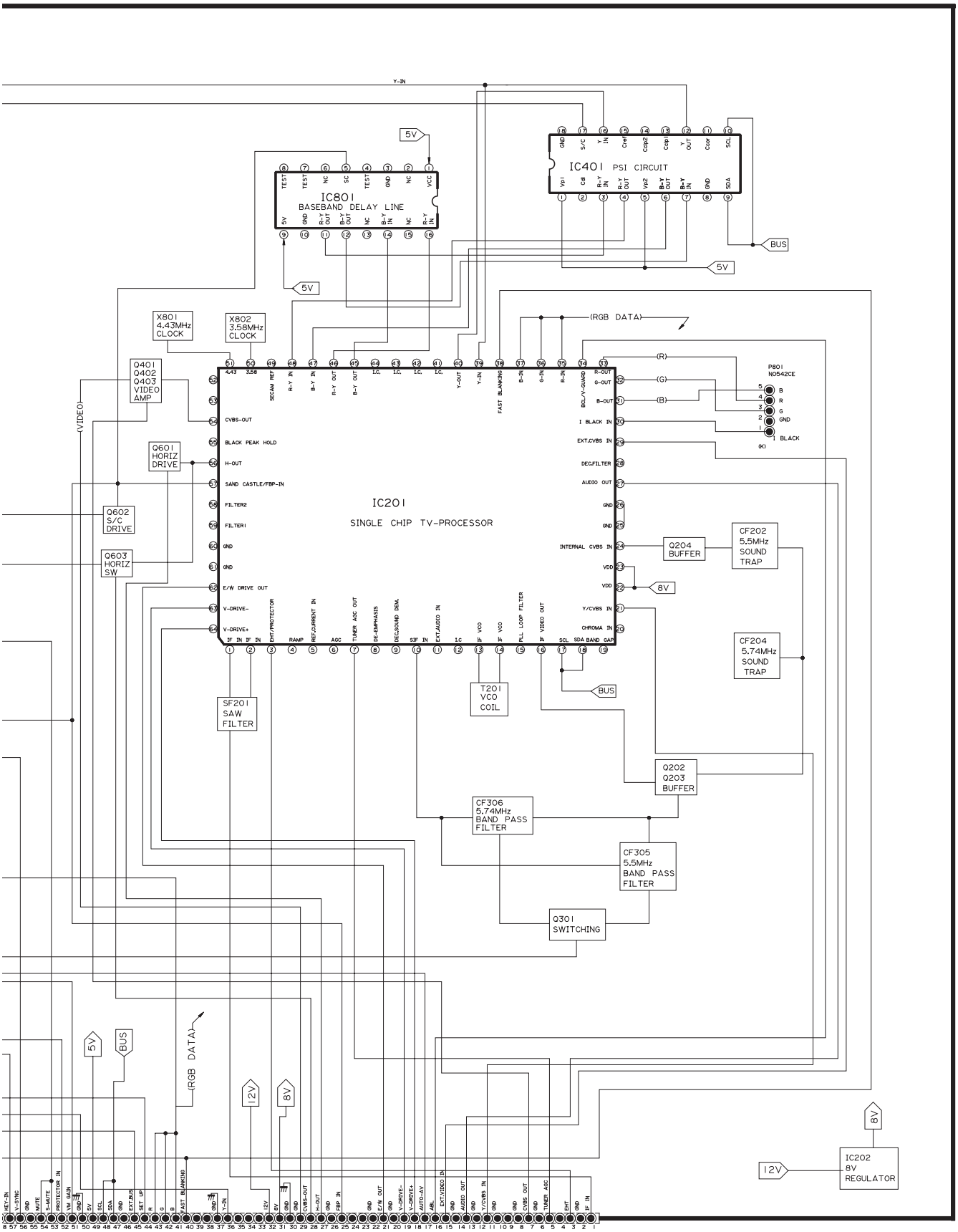
MAIN 1 UNIT BLOCK DIAGRAM



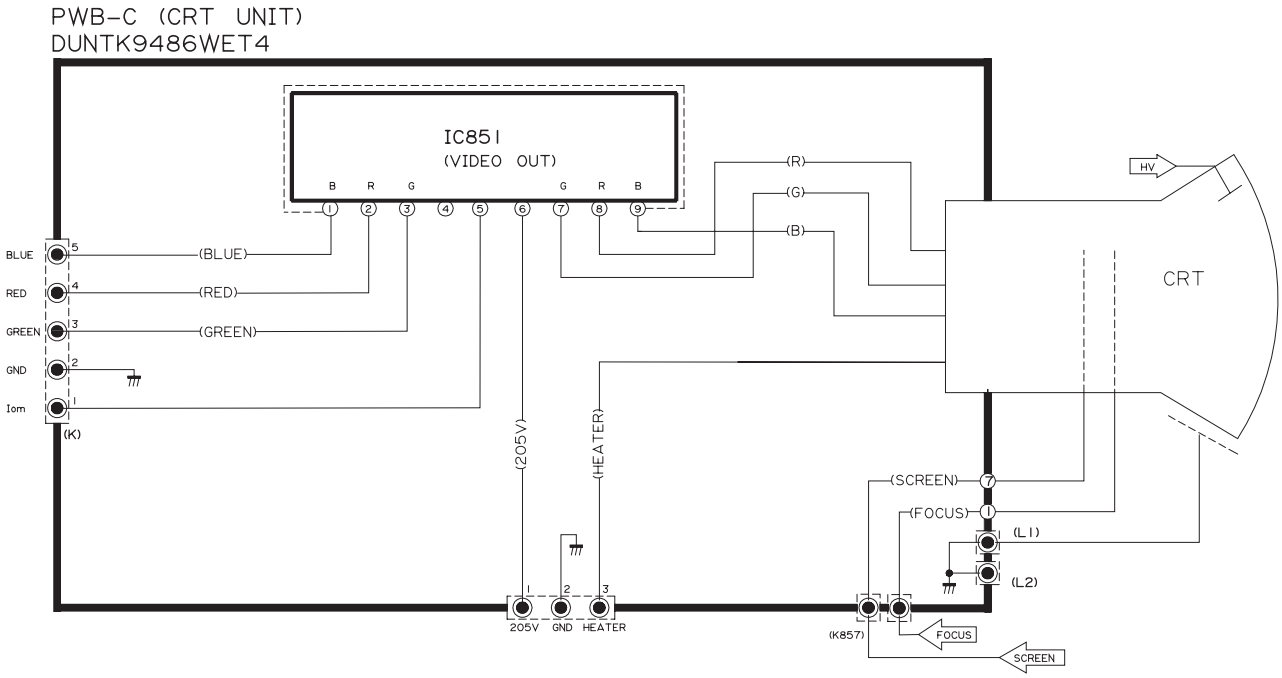

PWB-A (MAIN UNIT)
WET9
IC402
(AV AUTO SWITCH)
CF401
500KHz
CLOCK
9V
Q404
BUFFER
IC302
(AUDIO PROCESSOR)
Q1005
PROTECTOR
(PROTECTOR)
(AV)
FRONT VIDEO-IN
GND
FRONT L-IN
GND
FRONT R-IN
(SL)
L-OUT
GND
R-OUT
S-MUTE
15V
(BC)
SCL
SDA
GND
EXT BUS
BUS
8V
12V
PROTECT
S1006
SERVICE SW
Q405
Q406
Q407
BUS
SWITCHING
5V
SDA
(MUTE)
Q303
Q304
MUTE
DRIVE
Q210
PIF PRE-AMP
IC203
33V ZENER IC
120V
(AUDIO R-OUT)
(AUDIO L-OUT)
(VIDEO-OUT)
(AUDIO R-IN)
(VIDEO-IN)
(AUDIO L-IN)
PIN27
H-OUT
PIN3
EHT
J402
AUDIO R-OUT
AUDIO L-OUT
VIDEO OUT
AV-I R-IN
AV-I L/MONO IN
AV-I VIDEO IN
TU201
TUNER
P201
(AGC)

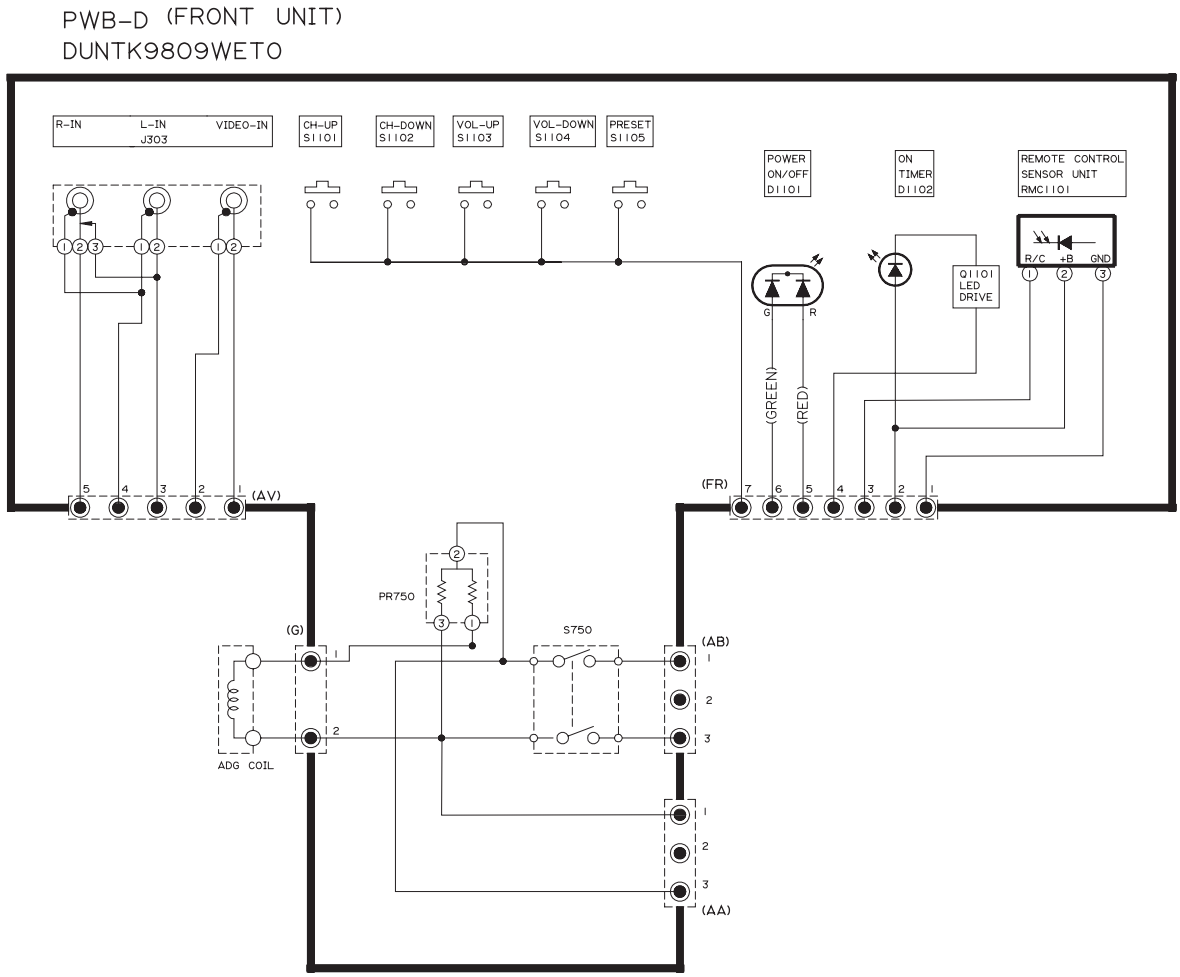
MAIN 2 UNIT BLOCK DIAGRAM



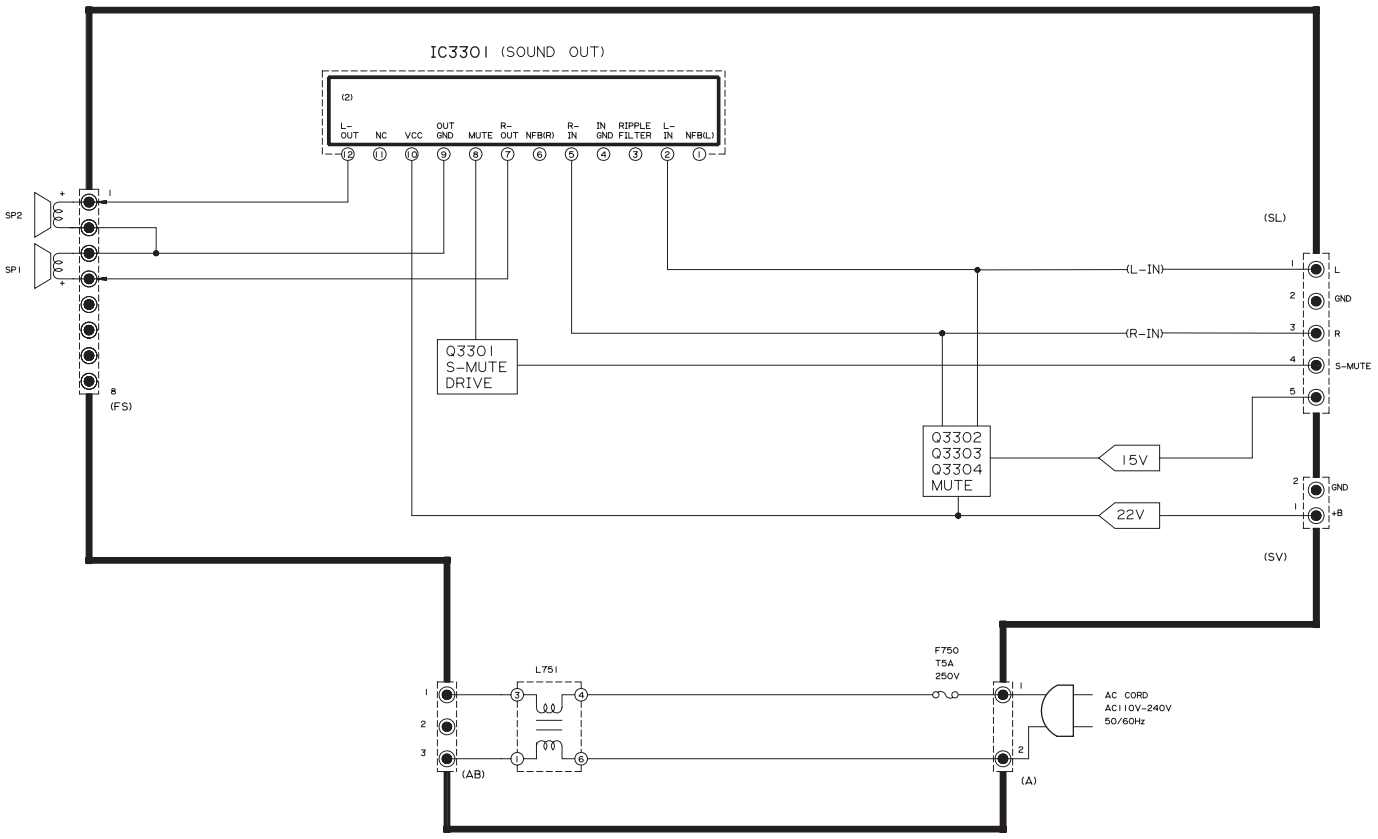

IC801
BASEBAND DELAY LINE
IC401 PSI CIRCUIT
IC201
SINGLE CHIP TV-PROCESSOR
X801 4.43MHz CLOCK
X802 3.58MHz CLOCK
Q401 Q402 Q403 VIDEO AMP
Q601 HORIZ DRIVE
Q602 S/C DRIVE
Q603 HORIZ SW
Q204 BUFFER
Q202 Q203 BUFFER
Q301 SWITCHING
CF202 5.5MHz SOUND TRAP
CF204 5.74MHz SOUND TRAP
CF306 5.74MHz BAND PASS FILTER
CF305 5.5MHz BAND PASS FILTER
SF201 SAW FILTER
T201 VCO COIL
IC202 8V REGULATOR
P801 N0542CE
5V
8V
12V
BUS
(RGB DATA)
(VIDEO)
Y-IN

CRT/FRONT/S-OUT UNIT BLOCK DIAGRAM

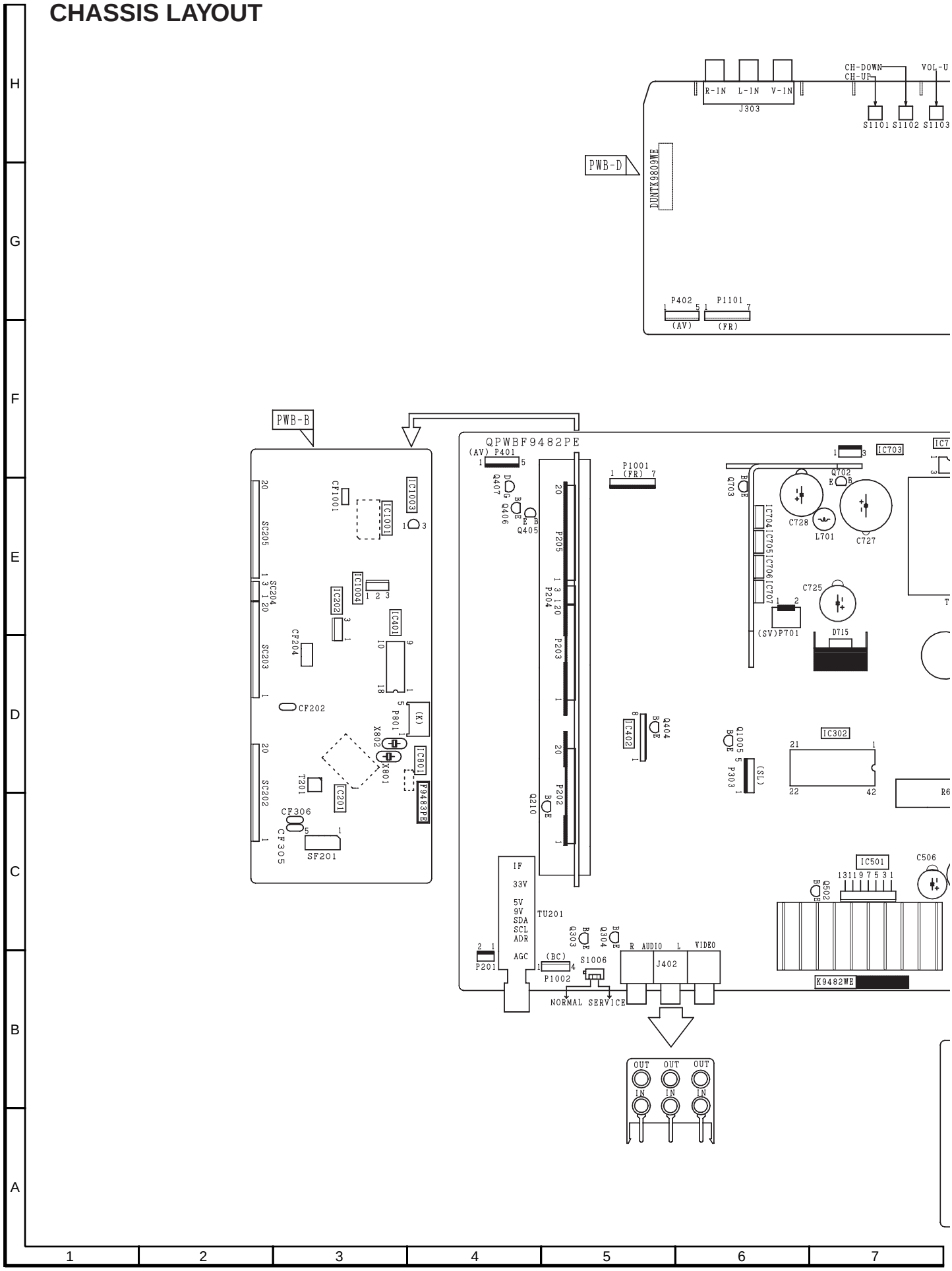


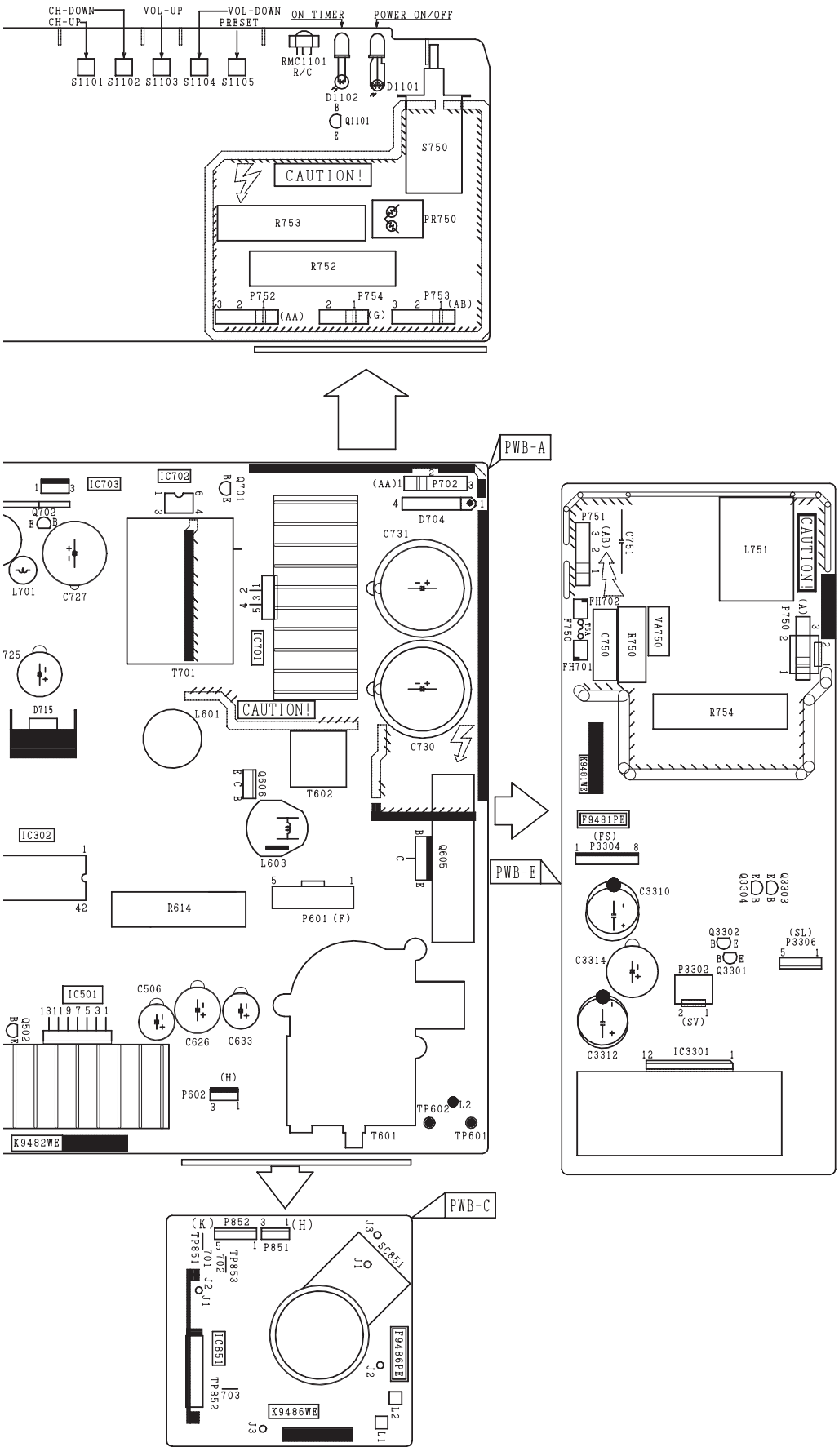


PWB-E (S-OUT UNIT)
DUNTK9481WET3



CHASSIS LAYOUT

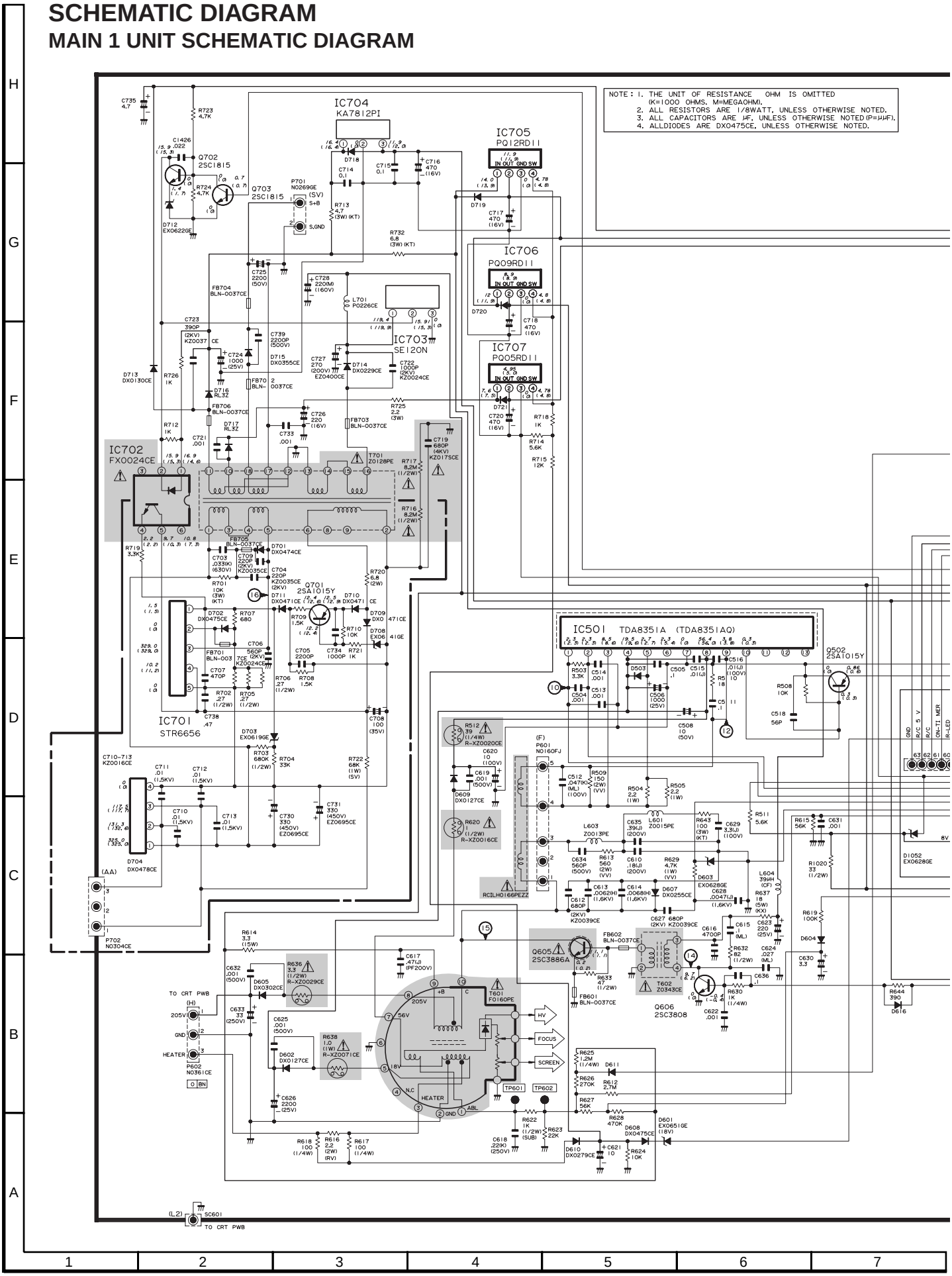


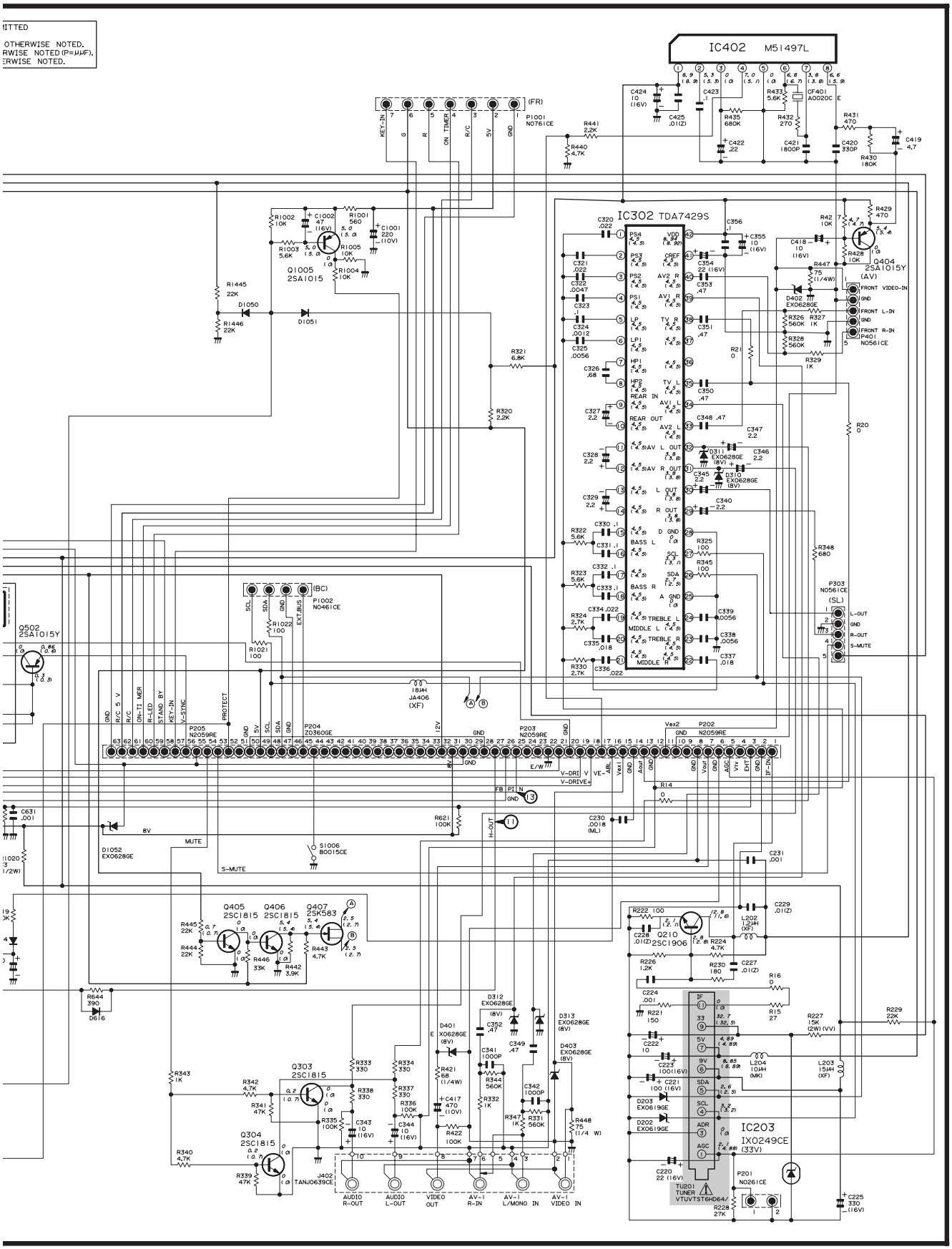


7	8	9	10	11	12	13

SCHEMATIC DIAGRAM

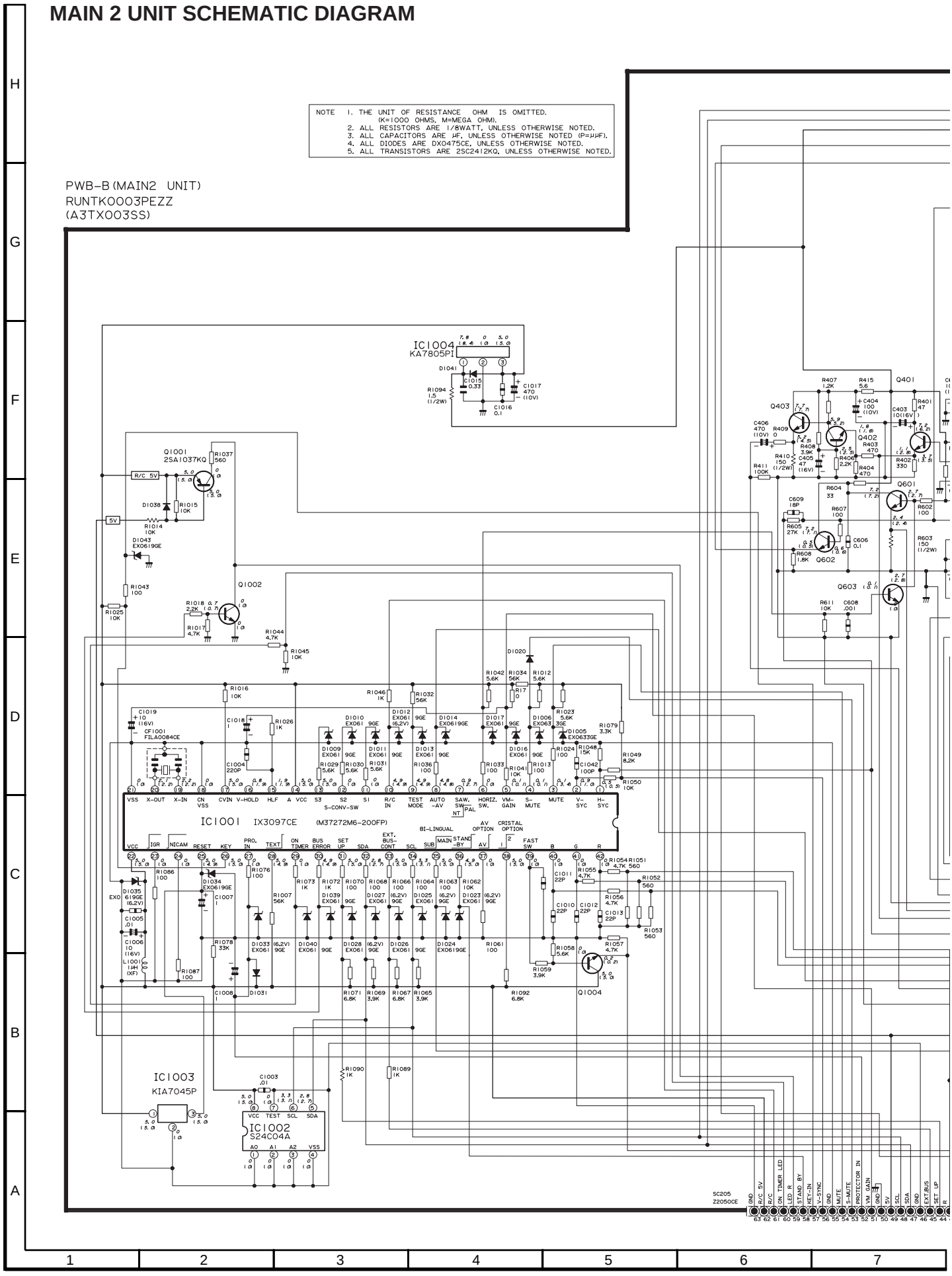
MAIN 1 UNIT SCHEMATIC DIAGRAM

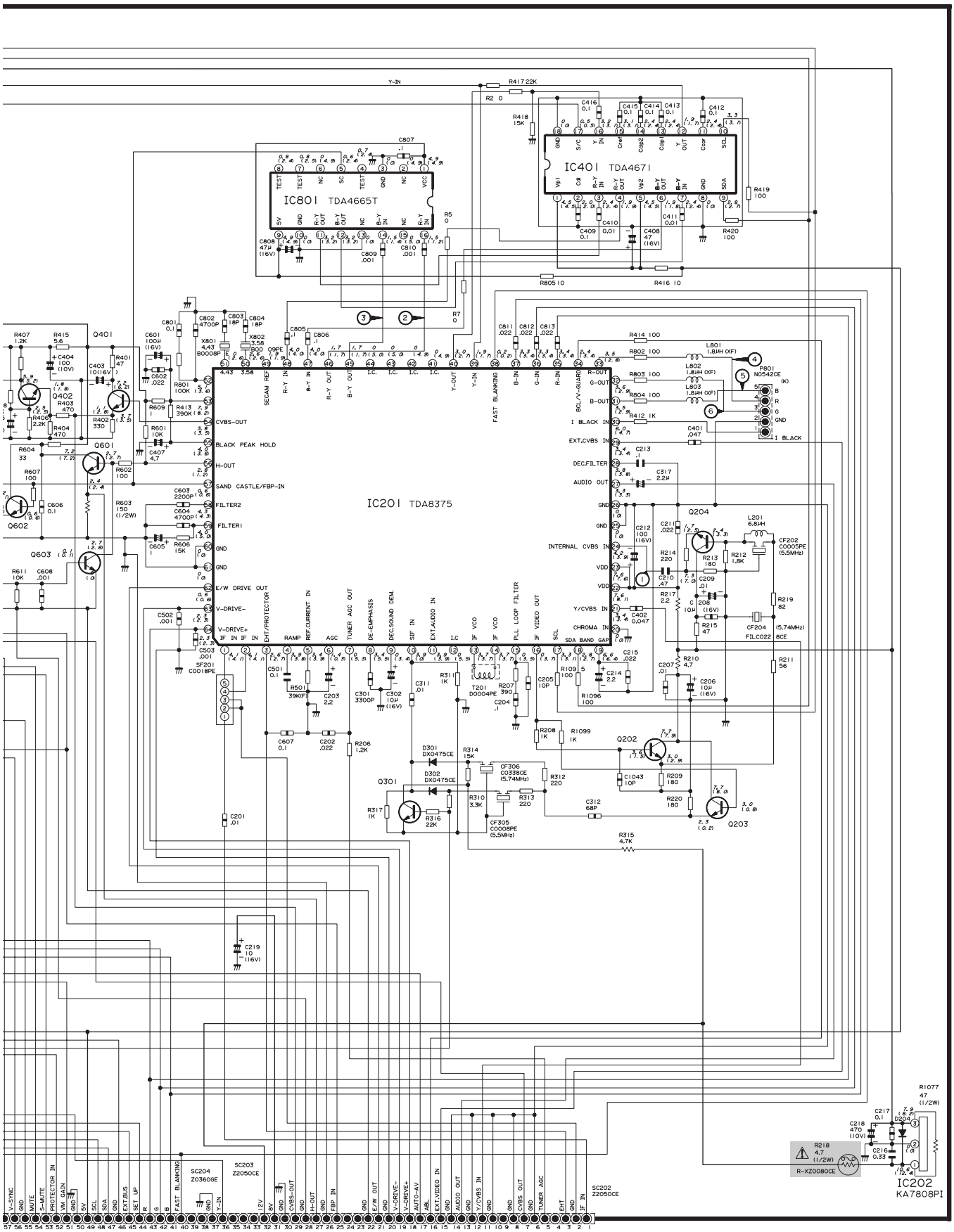




7	8	9	10	11	12	13

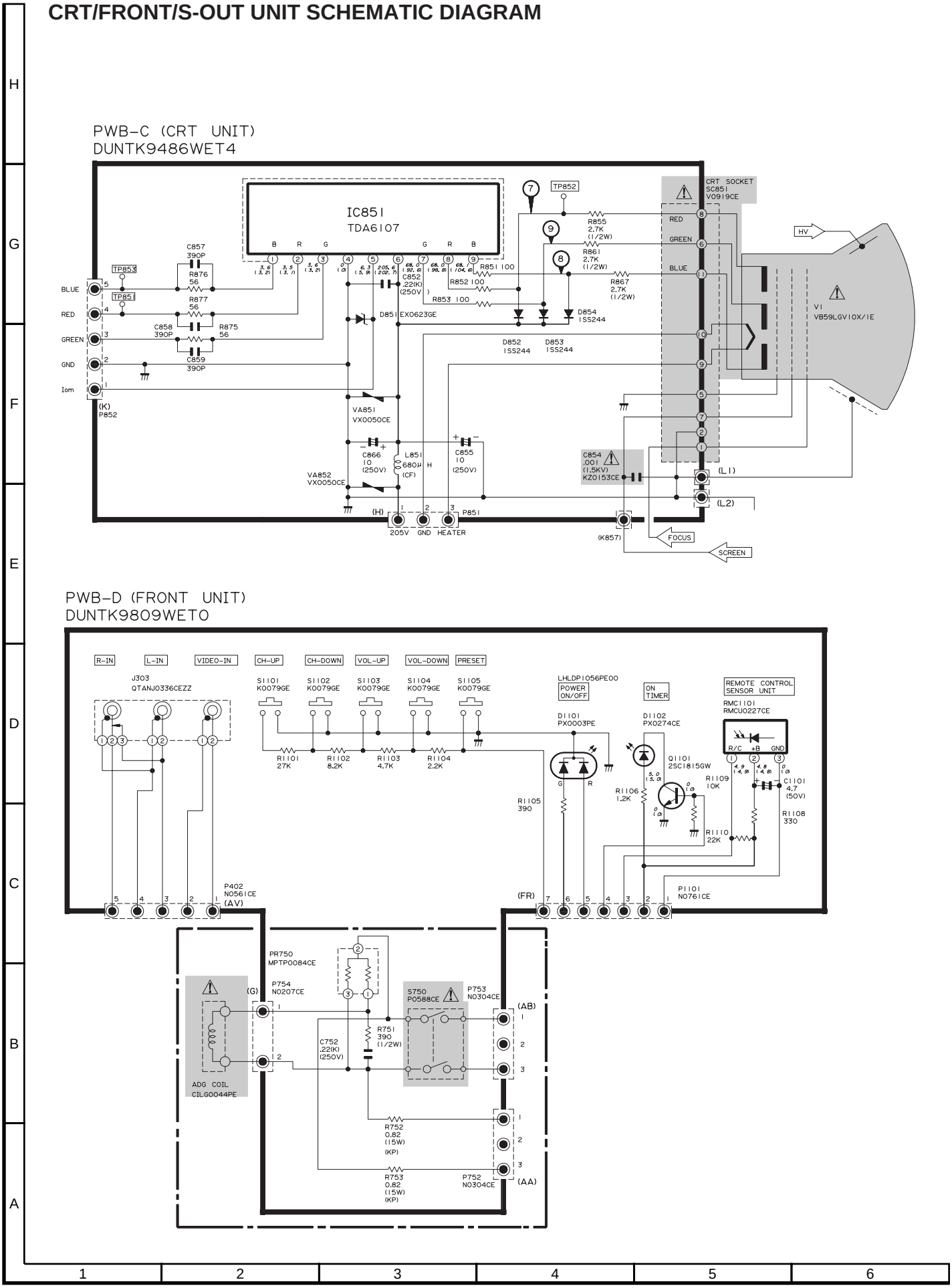
MAIN 2 UNIT SCHEMATIC DIAGRAM



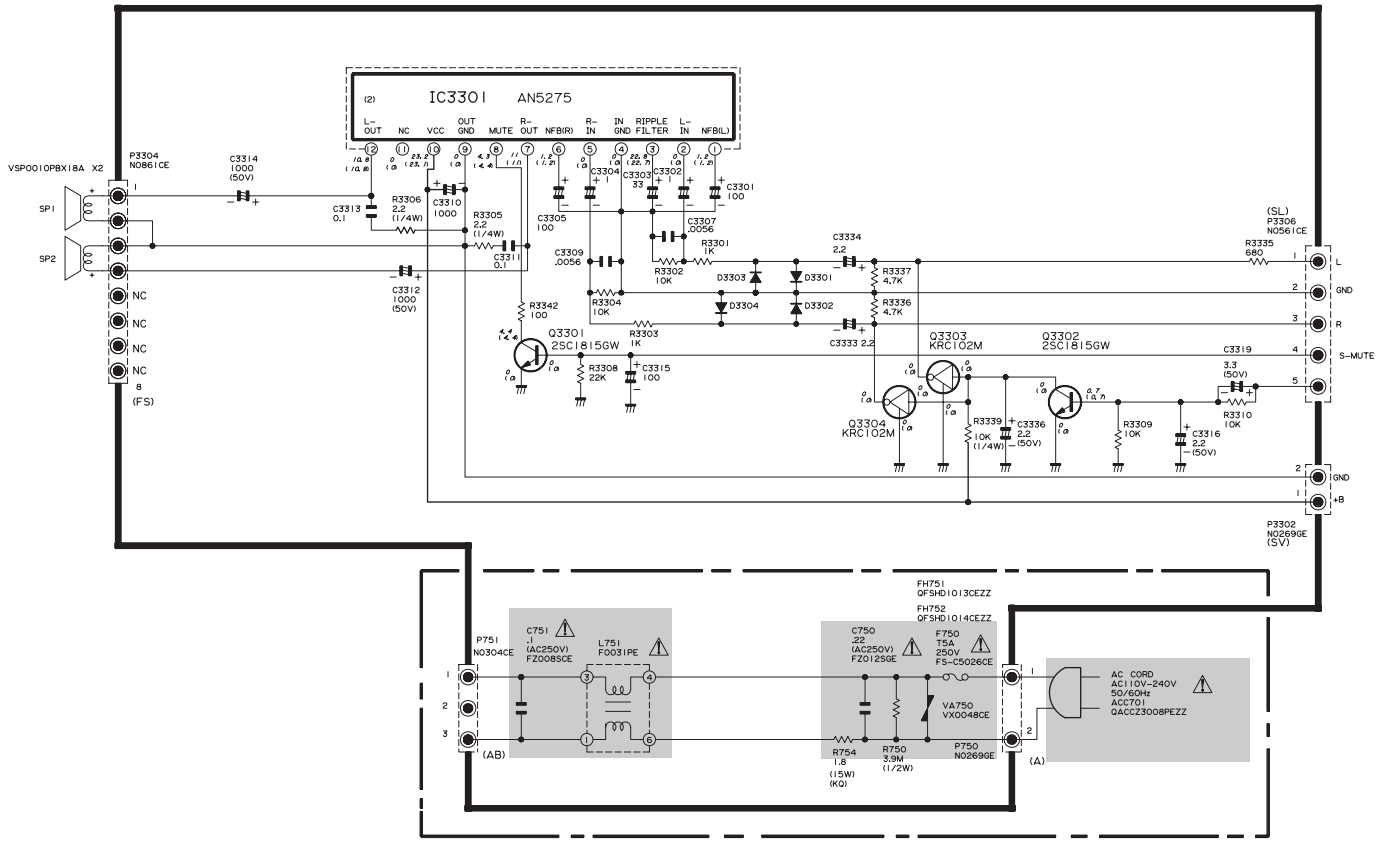


7	8	9	10	11	12	13

CRT/FRONT/S-OUT UNIT SCHEMATIC DIAGRAM



PWB-E (S-OUT UNIT)
DUNTK9481WET3

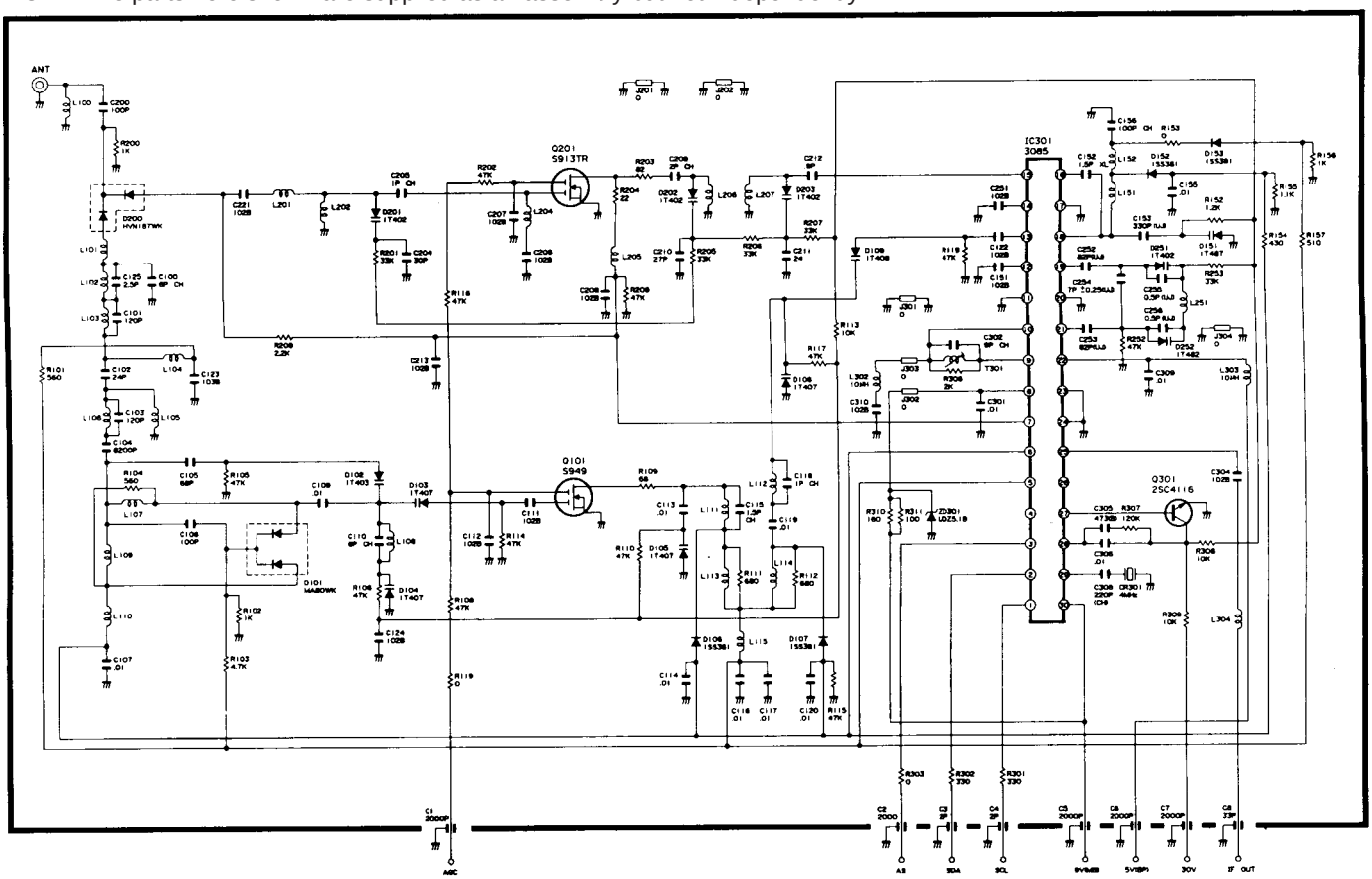


7	8	9	10	11	12

TUNER SCHEMATIC DIAGRAM

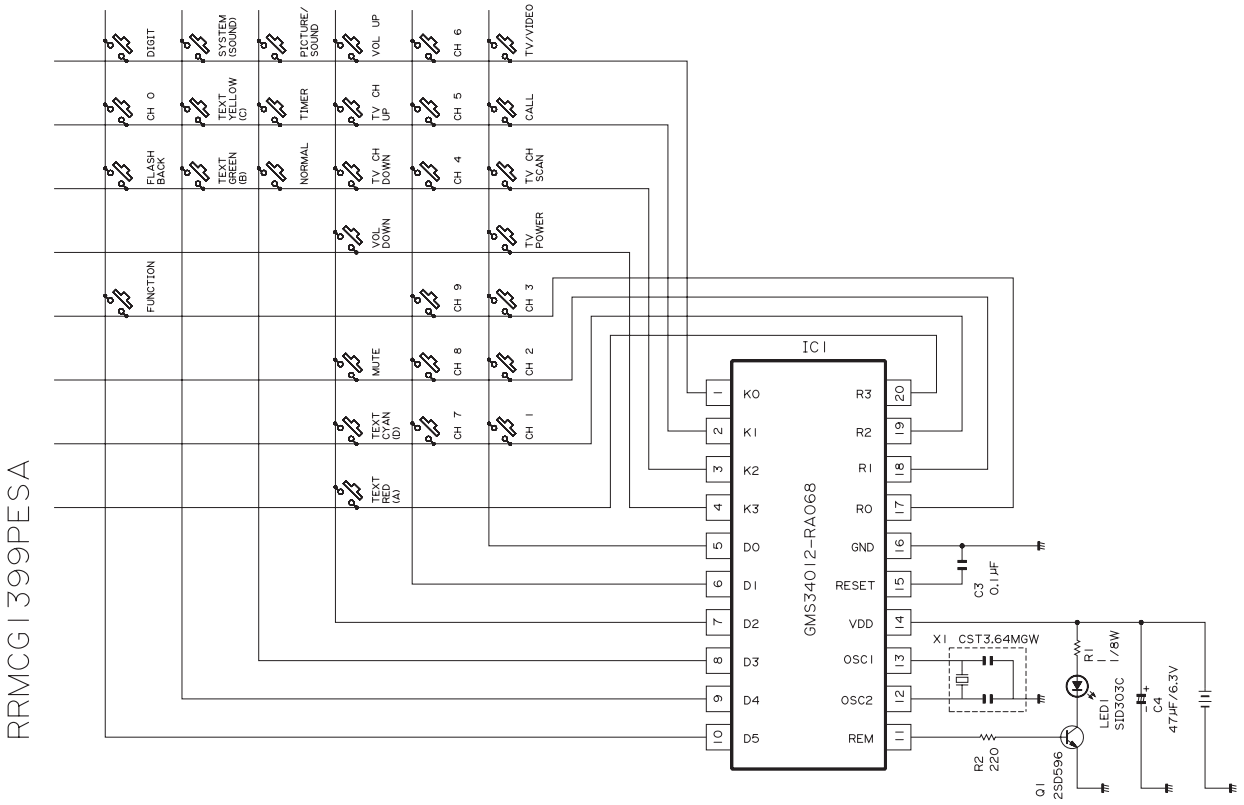
VTUVTST6HD64/

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



REMOTE CONTROL UNIT SCHEMATIC DIAGRAM

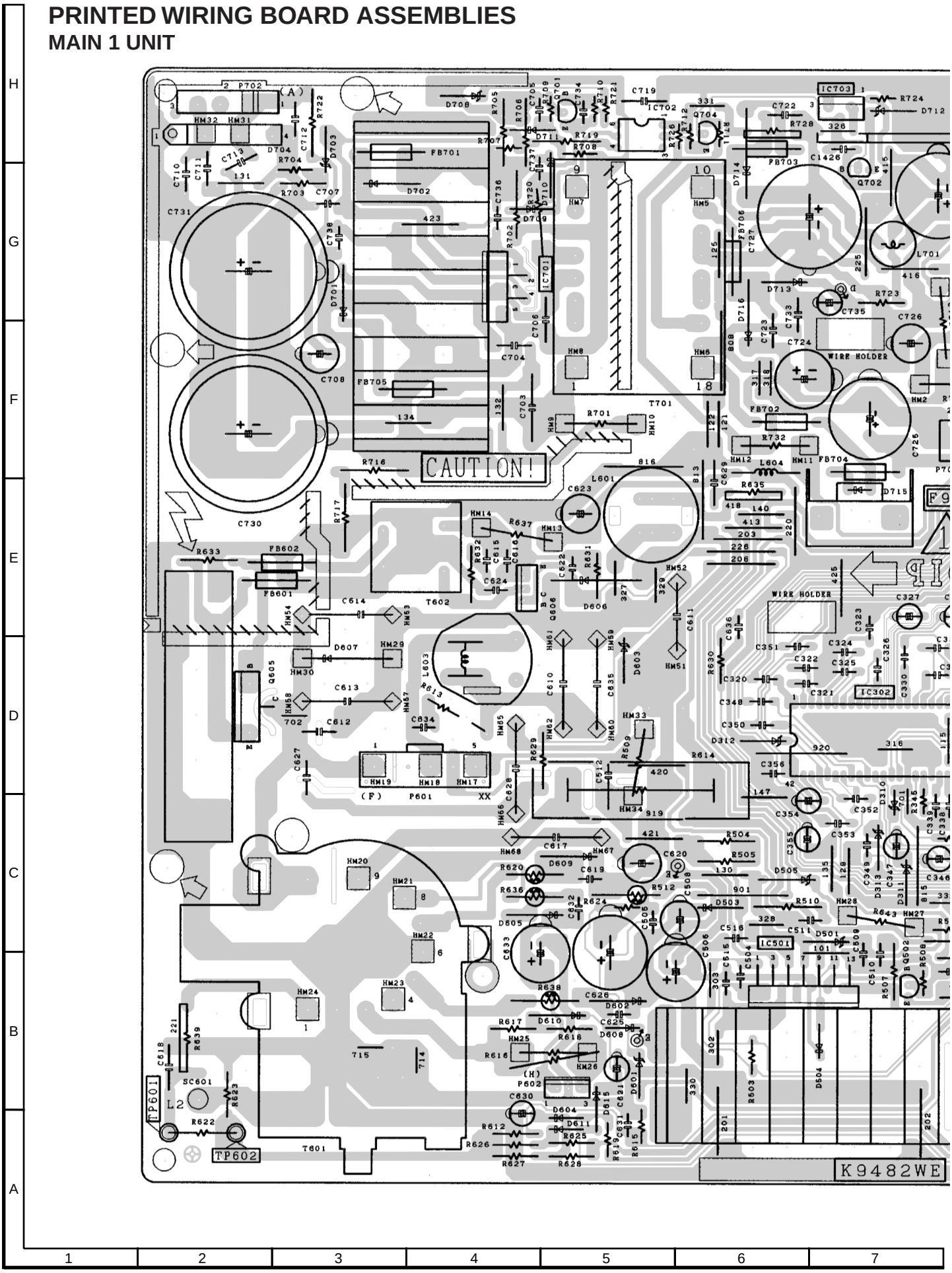
NOTE: The parts here shown are supplied as an assembly but not independently.



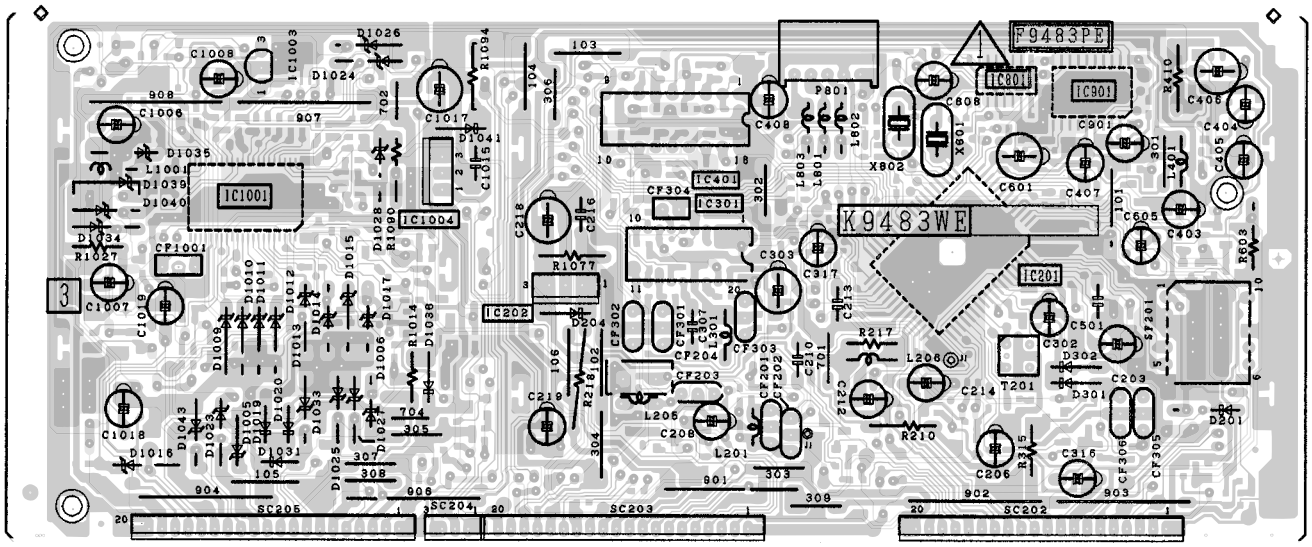
- M E M O -

PRINTED WIRING BOARD ASSEMBLIES

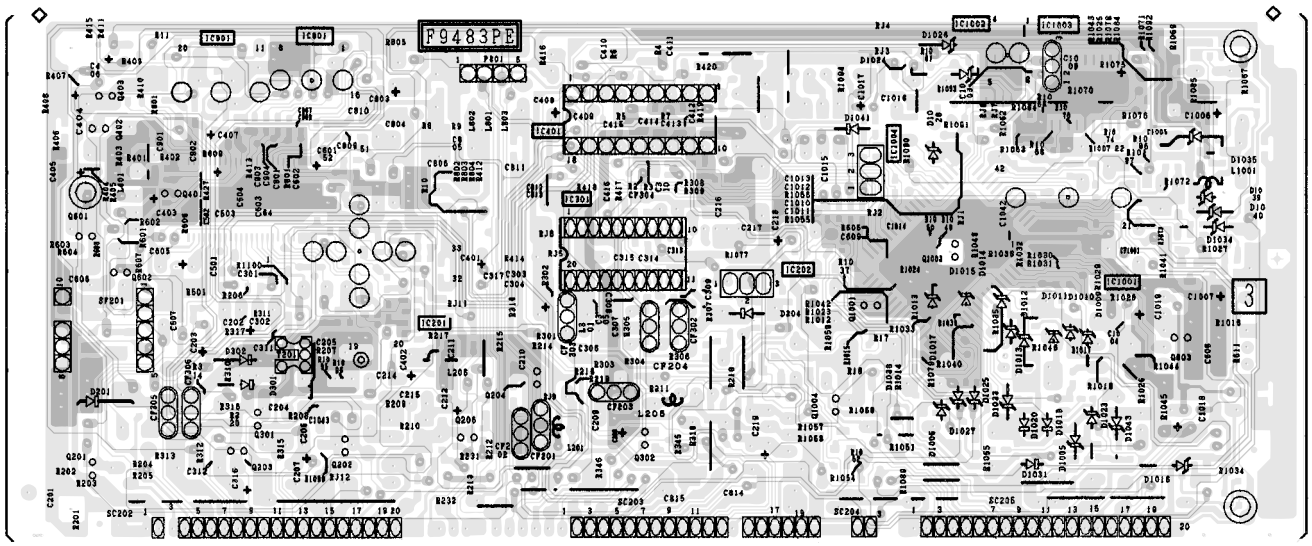
MAIN 1 UNIT



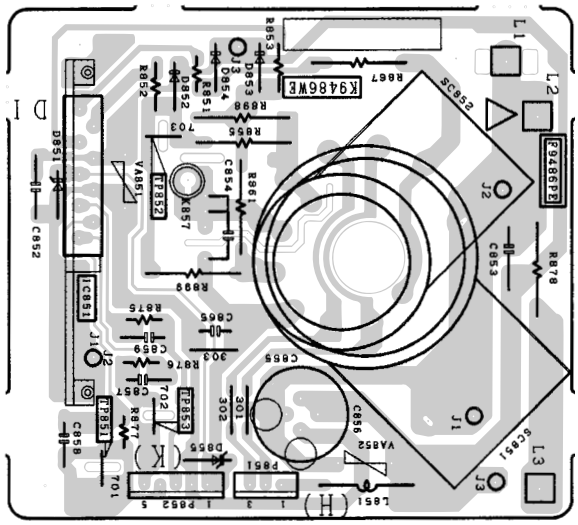
MAIN 2 UNIT (SIDE A)



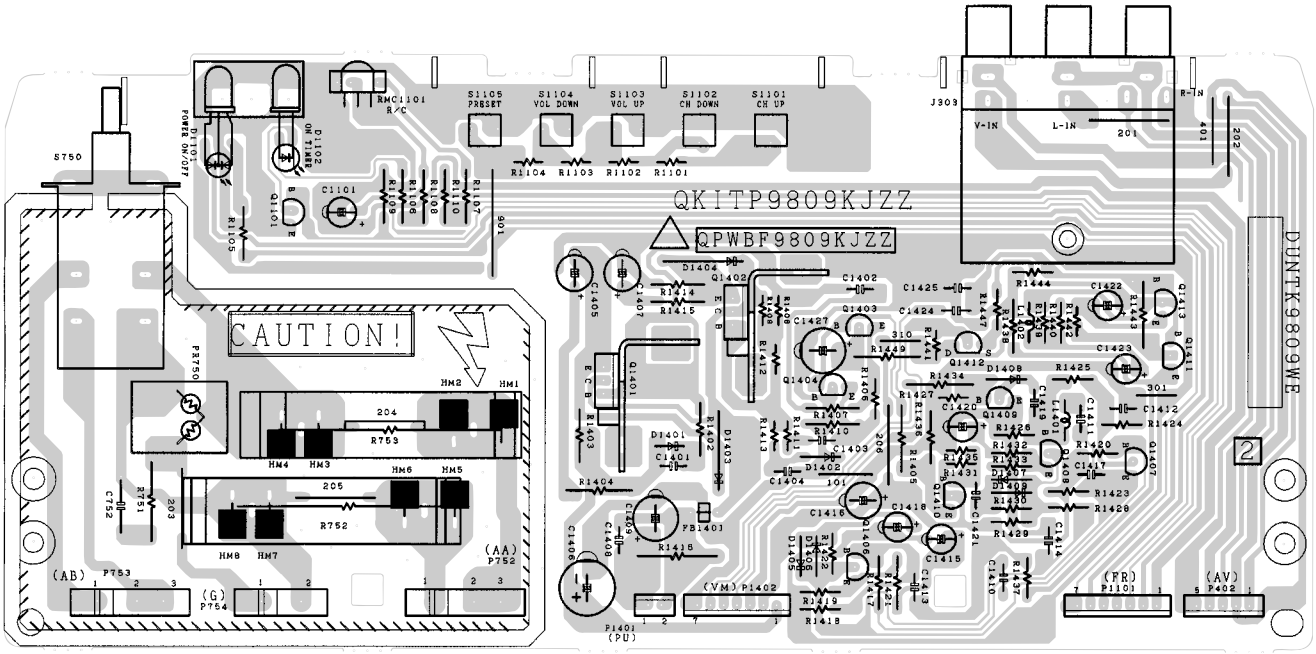
MAIN 2 UNIT (SIDE B)



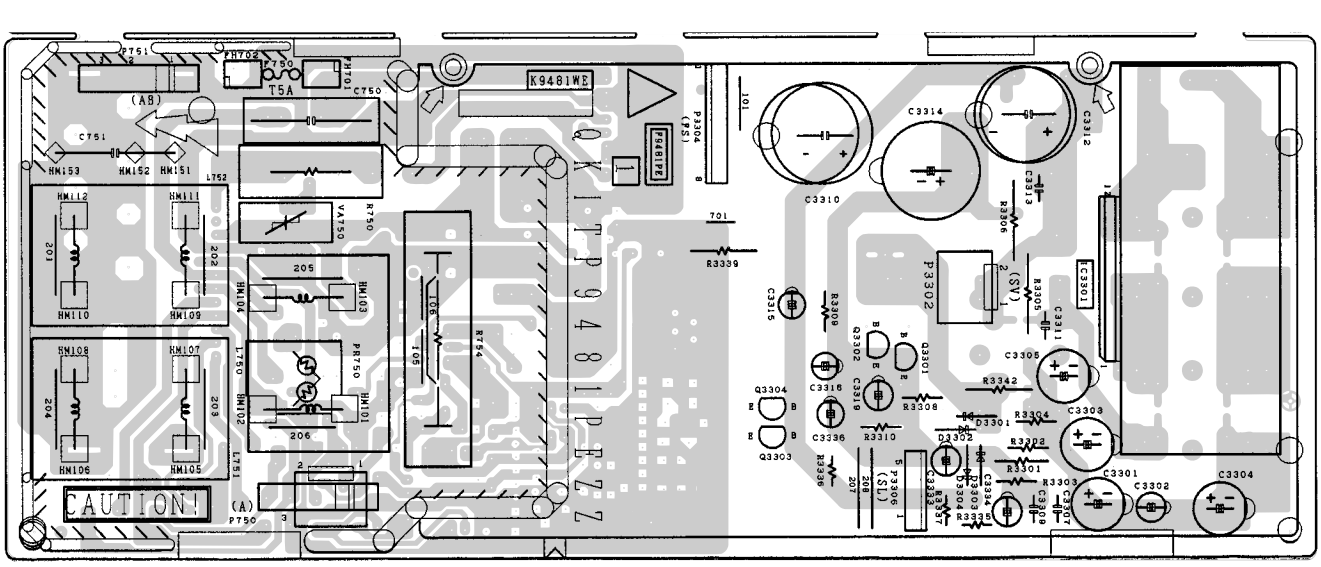
CRT UNIT



FRONT UNIT



S-OUT UNIT



7	8	9	10	11	12

- M E M O -

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
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
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
R1110	VRD-RA2BE223J	R	22k 1/8W Carbon	AA
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
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
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				
NOTE: THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT INDEPENDENTLY.				
⚠ 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
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				
(M-Poly.Film : Metalized Polypro Film)				
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

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Ref. No.	Part No.	★	Description	Code
C337	VCQYTA1HM183J	R	0.018 50V Mylar	AB
C338	VCQYTA1HM562J	R	5600p 50V Mylar	AA
C339	VCQYTA1HM562J	R	5600p 50V Mylar	AA
C340	VCEAGA1HW225M	R	2.2 50V Electrolytic	AB
C341	VCKYPA1HB102K	R	1000p 50V Ceramic	AA
C342	VCKYPA1HB102K	R	1000p 50V Ceramic	AA
C343	VCEAGA1CW106M	R	10 16V Electrolytic	AA
C344	VCEAGA1CW106M	R	10 16V Electrolytic	AA
C345	VCEAGA1HW225M	R	2.2 50V Electrolytic	AB
C346	VCEAGA1HW225M	R	2.2 50V Electrolytic	AB
C347	VCEAGA1HW225M	R	2.2 50V Electrolytic	AB
C348	VCFYFA1HA474J	R	0.47 50V M. Polypro	AC
C349	VCFYFA1HA474J	R	0.47 50V M. Polypro	AC
C350	VCFYFA1HA474J	R	0.47 50V M. Polypro	AC
C351	VCFYFA1HA474J	R	0.47 50V M. Polypro	AC
C352	VCFYFA1HA474J	R	0.47 50V M. Polypro	AC
C353	VCFYFA1HA474J	R	0.47 50V M. Polypro	AC
C354	VCEAGA1CW226M	R	22 16V Electrolytic	AB
C355	VCEAGA1CW106M	R	10 16V Electrolytic	AA
C356	VCFYFA1HA104J	R	0.1 50V M. Polypro	AA
C417	VCEAGA1AW477M	R	470 10V Electrolytic	AC
C418	VCEAGA1CW106M	R	10 16V Electrolytic	AA
C419	VCEAGA1HW475M	R	4.7 50V Electrolytic	AB
C420	VCKYPA1HB331K	R	330p 50V Ceramic	AA
C421	VCKYPA1HB182K	R	1800p 50V Ceramic	AA
C422	VCEAGA1HW224M	R	0.22 50V Electrolytic	AA
C423	VCFYFA1HA104J	R	0.1 50V M. Polypro	AA
C424	VCEAGA1CW106M	R	10 16V Electrolytic	AA
C425	VCKYPA1HF103Z	R	0.01 50V Ceramic	AA
C504	VCKYPA1HB102K	R	1000p 50V Ceramic	AA
C505	VCFYFA1HA104J	R	0.1 50V M. Polypro	AA
C506	VCEAGA1EW108M	R	1000 25V Electrolytic	AD
C508	VCEAGA1HW106M	R	10 50V Electrolytic	AC
C511	VCFYFA1HA104J	R	0.1 50V M. Polypro	AA
C512	VCQYSG2AA473K	R	0.047 100V Mylar	AC
C513	VCKYPA1HB102K	R	1000p 50V Ceramic	AA
C514	VCKYPA1HB102K	R	1000p 50V Ceramic	AA
C515	VCQYTA1HM103J	R	0.01 50V Mylar	AA
C516	VCFYAA2AA103J	R	0.01 100V	AF
C518	VCCCPA1HH560J	R	56p 50V Ceramic	AA
C610	VCFPPC2DB184J	R	0.18 200V M-Poly.Film	AD
C612	RC-KZ0039CEZZ	R	680p 2kV Ceramic	AB
C613	VCFPPD3CA622H	R	6200p 1600V M-Poly.Film	AE
C614	VCFPPD3CA682H	R	6800p 1600V M-Poly.Film	AE
C615	VCFYFA1HA104J	R	0.1 50V M. Polypro	AA
C616	VCKYPA1HB472K	R	4700p 50V Ceramic	AA
C617	VCFPPD2DB474J	R	0.47 200V M-Poly.Film	AE
C618	VCFYSB2EB224K	R	0.22 250V	AD
C619	VCKYPA2HB102K	R	1000p 500V Ceramic	AA
C620	VCEAGA2AW106M	R	10 100V Electrolytic	AC
C621	VCEAGA1HW106M	R	10 50V Electrolytic	AC
C622	VCKYPA1HB102K	R	1000p 50V Ceramic	AA
C623	VCEAGA1EW227M	R	220 25V Electrolytic	AC
C624	VCQYTA1HM273J	R	0.027 50V Mylar	AB
C625	VCKYPA2HB102K	R	1000p 500V Ceramic	AA
C626	VCEAGH1EW228M	R	2200 25V Electrolytic	AE
C627	RC-KZ0039CEZZ	R	680p 2kV Ceramic	AB
C628	VCFPPD3CA472J	R	4700p 1600V M-Poly.Film	AD
C629	VCFYAB2AA335J	R	3.3 100V	AL
C630	VCEAGA1HW335M	R	3.3 50V Electrolytic	AB
C631	VCKYPA1HB102K	R	1000p 50V Ceramic	AA
C632	VCKYPA2HB102K	R	1000p 500V Ceramic	AA
C633	VCEAGA2EW336M	R	33 250V Electrolytic	AD
C634	VCKYPA2HB561K	R	560p 500V Ceramic	AA
C635	VCFPPD2DB394J	R	0.39 200V M-Poly.Film	AE
C636	VCFYFA1HA104J	R	0.1 50V M. Polypro	AA
C703	VCQPSC2JA333K	R	0.033 630V	AB
C704	RC-KZ0035CEZZ	R	220p 2kV Ceramic	AB
C705	VCKYPA1HB222K	R	2200p 50V Ceramic	AA
C706	VCKYPH3DB561K	R	560p 2000V Ceramic	AC
C707	VCKYPA1HB471K	R	470p 50V Ceramic	AA
C708	VCEAGA1VW107M	R	100 35V Electrolytic	AC
C709	RC-KZ0035CEZZ	R	220p 2kV Ceramic	AB
C710	RC-KZ0016CEZZ	R	0.01 1.5kV Ceramic	AC
C711	RC-KZ0016CEZZ	R	0.01 1.5kV Ceramic	AC
C712	RC-KZ0016CEZZ	R	0.01 1.5kV Ceramic	AC
C713	RC-KZ0016CEZZ	R	0.01 1.5kV Ceramic	AC
C714	VCFYFA1HA104J	R	0.1 50V M. Polypro	AA
C715	VCFYFA1HA104J	R	0.1 50V M. Polypro	AA
C716	VCEAGA1CW477M	R	470 16V Electrolytic	AC
C717	VCEAGA1CW477M	R	470 16V Electrolytic	AC
C718	VCEAGA1CW477M	R	470 16V Electrolytic	AC
⚠ C719	RC-KZ017SCEZZ	R	680p 4kV Special	AD
C720	VCEAGA1CW477M	R	470 16V Electrolytic	AC
C721	VCKYPA2HB102K	R	1000p 500V Ceramic	AA
C722	RC-KZ0024CEZZ	R	1000p 2kV Ceramic	AC
C723	RC-KZ0037CEZZ	R	390p 2kV Ceramic	AB
C724	VCEAGA1EW108M	R	1000 25V Electrolytic	AD
C725	VCEAGH1HW228M	R	2200 50V Electrolytic	AG
C726	VCEAGA1CW227M	R	220 16V Electrolytic	AC
C727	RC-EZ0400CEZZ	R	270 200V Electrolytic	AM
C728	VCEAGW2CW227M	R	220 160V Electrolytic	AK
C730	RC-EZ0695CEZZ	R	330 450V Electrolytic	AW
C731	RC-EZ0695CEZZ	R	330 450V Electrolytic	AW
C733	VCKYD41HB102K	R	1000p 50V Ceramic	AA
C734	VCKYPA1HB102K	R	1000p 50V Ceramic	AA
C735	VCEAGA1HW475M	R	4.7 50V Electrolytic	AB
C738	VCFYFA1HA474J	R	0.47 50V M. Polypro	AC
C739	VCKYPA2HB222K	R	2200p 500V Ceramic	AA
C1001	VCEAGA1AW227M	R	220 10V Electrolytic	AB
C1002	VCEAGA1CW476M	R	47 16V Electrolytic	AB
C1426	VCQYTA1HM223J	R	0.022 50V Mylar	AA

RESISTORS

R15	VRD-RA2BE270J	R	27	1/8W	Carbon	AA
R221	VRD-RA2BE151J	R	150	1/8W	Carbon	AA
R222	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R224	VRD-RA2BE472J	R	4.7k	1/8W	Carbon	AA
R226	VRD-RA2BE122J	R	1.2k	1/8W	Carbon	AA
R227	VRS-VV3DB153J	R	15k	2W	Metal Oxide	AA
R228	VRD-RA2BE273J	R	27k	1/8W	Carbon	AA
R229	VRD-RA2BE223J	R	22k	1/8W	Carbon	AA
R230	VRD-RA2BE181J	R	180	1/8W	Carbon	AA
R320	VRD-RA2BE222J	R	2.2k	1/8W	Carbon	AA
R321	VRD-RA2BE682J	R	6.8k	1/8W	Carbon	AA
R322	VRD-RA2BE562J	R	5.6k	1/8W	Carbon	AA
R323	VRD-RA2BE562J	R	5.6k	1/8W	Carbon	AA
R324	VRD-RA2BE272J	R	2.7k	1/8W	Carbon	AA
R325	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R326	VRD-RA2BE564J	R	560k	1/8W	Carbon	AA
R327	VRD-RA2BE102J	R	1k	1/8W	Carbon	AA
R328	VRD-RA2BE564J	R	560k	1/8W	Carbon	AA
R329	VRD-RA2BE102J	R	1k	1/8W	Carbon	AA
R330	VRD-RA2BE272J	R	2.7k	1/8W	Carbon	AA
R331	VRD-RA2BE564J	R	560k	1/8W	Carbon	AA
R332	VRD-RA2BE102J	R	1k	1/8W	Carbon	AA
R333	VRD-RA2BE331J	R	330	1/8W	Carbon	AA
R334	VRD-RA2BE331J	R	330	1/8W	Carbon	AA
R335	VRD-RA2BE104J	R	100k	1/8W	Carbon	AA
R336	VRD-RA2BE104J	R	100k	1/8W	Carbon	AA
R337	VRD-RA2BE331J	R	330	1/8W	Carbon	AA
R338	VRD-RA2BE331J	R	330	1/8W	Carbon	AA
R339	VRD-RA2BE473J	R	47k	1/8W	Carbon	AA
R340	VRD-RA2BE472J	R	4.7k	1/8W	Carbon	AA
R341	VRD-RA2BE473J	R	47k	1/8W	Carbon	AA
R342	VRD-RA2BE472J	R	4.7k	1/8W	Carbon	AA
R343	VRD-RA2BE102J	R	1k	1/8W	Carbon	AA
R344	VRD-RA2BE564J	R	560k	1/8W	Carbon	AA
R345	VRD-RA2BE101J	R	100	1/8W	Carbon	AB
R347	VRD-RA2BE102J	R	1k	1/8W	Carbon	AA
R348	VRD-RA2BE681J	R	680	1/8W	Carbon	AA
R421	VRD-RA2EE680J	R	68	1/4W	Carbon	AA
R422	VRD-RA2BE104J	R	100k	1/8W	Carbon	AA
R427	VRD-RA2BE103J	R	10k	1/8W	Carbon	AA
R428	VRD-RA2BE103J	R	10k	1/8W	Carbon	AA
R429	VRD-RA2BE471J	R	470	1/8W	Carbon	AA
R430	VRD-RA2BE184J	R	180k	1/8W	Carbon	AA
R431	VRD-RA2BE471J	R	470	1/8W	Carbon	AA

Ref. No.	Part No.	★	Description	Code
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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
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

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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
DUNTK9483WEW4 MAIN 2 UNIT (Continude)				
D1005	RH-EX0633GEZZ	R	Zener, EX0633GE	AA
D1006	RH-EX0633GEZZ	R	Zener, EX0633GE	AA
D1009	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1010	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1011	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1012	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1013	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1014	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1016	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1017	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1020	RH-DX0475CEZZ	R	DX0475CE	AB
D1023	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1024	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1025	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1026	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1027	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1028	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1031	RH-DX0475CEZZ	R	DX0475CE	AB
D1033	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1034	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1035	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1038	RH-DX0475CEZZ	R	DX0475CE	AB
D1039	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1040	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
D1041	RH-DX0475CEZZ	R	DX0475CE	AB
D1043	RH-EX0619GEZZ	R	Zener, EX0619GE	AA
PACKAGED CIRCUITS				
X801	RCRSB0008PEZZ	R	Crystal	AH
X802	RCRSB0009PEZZ	R	Crystal	AL
COILS AND TRANSFORMER				
CF202	RFiLC0005PEZZ	R	Filter	AF
CF204	RFiLC0228CEZZ	R	Filter	AF
CF305	RFiLC0008PEZZ	R	Filter	AF
CF306	RFiLC0338CEZZ	R	Filter	AG
CF1001	RFiLA0084CEZZ	R	Filter	AE
L201	VP-XF6R8K0000	R	Peaking 6.8µH	AB
L801	VP-XF1R8K0000	R	Peaking 1.8µH	AB
L802	VP-XF1R8K0000	R	Peaking 1.8µH	AB
L803	VP-XF1R8K0000	R	Peaking 1.8µH	AB
L1001	VP-XF1R0K0000	R	Peaking 1µH	AB
SF201	RFiLC0018PEZZ	R	Filter	AL
T201	RCiLD0004PEZZ	R	Detection Coil	AF
CAPACITORS				
C201	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C202	VCKYCY1HF223Z	R	0.022 50V Ceramic	AB
C203	VCEAGA1HW225M	R	2.2 50V Electrolytic	AB
C204	VCKYCY1EF104Z	R	0.1 25V Ceramic	AA
C205	VCCCCY1HH100D	R	10p 50V Ceramic	AA
C206	VCEAGA1CW106M	R	10 16V Electrolytic	AA
C207	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C208	VCEAGA1CW106M	R	10 16V Electrolytic	AA
C209	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C210	VCFYFA1HA474J	R	0.47 50V M. Polypro	AC
C211	VCKYCY1HF223Z	R	0.022 50V Ceramic	AB
C212	VCEAGA1CW107M	R	100 16V Electrolytic	AB
C213	VCFYFA1HA104J	R	0.1 50V M. Polypro	AA
C214	VCEAGA1HW225M	R	2.2 50V Electrolytic	AB
C215	VCKYCY1HF223Z	R	0.022 50V Ceramic	AB
C216	VCFYFA1HA334J	R	0.33 50V M. Polypro	AB
C217	VCKYCY1EF104Z	R	0.1 25V Ceramic	AA
C218	VCEAGA1AW477M	R	470 10V Electrolytic	AC
C219	VCEAGA1CW106M	R	10 16V Electrolytic	AA
C301	VCKYCY1HB332K	R	3300p 50V Ceramic	AA
C302	VCEAGA1CW106M	R	10 16V Electrolytic	AA
C311	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C312	VCCCCY1HH680J	R	68p 50V Ceramic	AA
C317	VCEAGA1HW225M	R	2.2 50V Electrolytic	AB
C401	VCKYCY1HF473Z	R	0.047 50V Ceramic	AA
C402	VCKYCY1HF473Z	R	0.047 50V Ceramic	AA
C403	VCEAGA1CW106M	R	10 16V Electrolytic	AA

Ref. No.	Part No.	★	Description	Code
C404	VCEAGA1AW107M	R	100 10V Electrolytic	AB
C405	VCEAGA1CW476M	R	47 16V Electrolytic	AB
C406	VCEAGA1AW477M	R	470 10V Electrolytic	AC
C407	VCEAGA1HW475M	R	4.7 50V Electrolytic	AB
C408	VCEAGA1CW476M	R	47 16V Electrolytic	AB
C409	VCKYCY1EF104Z	R	0.1 25V Ceramic	AA
C410	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C411	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C412	VCKYCY1EF104Z	R	0.1 25V Ceramic	AA
C413	VCKYCY1EF104Z	R	0.1 25V Ceramic	AA
C414	VCKYCY1EF104Z	R	0.1 25V Ceramic	AA
C415	VCKYCY1EF104Z	R	0.1 25V Ceramic	AA
C416	VCKYCY1EF104Z	R	0.1 25V Ceramic	AA
C501	VCFYFA1HA104J	R	0.1 50V M. Polypro	AA
C502	VCKYCY1HB102K	R	1000p 50V Ceramic	AA
C503	VCKYCY1HB102K	R	1000p 50V Ceramic	AA
C601	VCEAGA1CW107M	R	100 16V Electrolytic	AB
C602	VCKYCY1HF223Z	R	0.022 50V Ceramic	AB
C603	VCKYCY1HB222K	R	2200p 50V Ceramic	AA
C604	VCKYCY1HB472K	R	4700p 50V Ceramic	AA
C605	VCEAGA1HW105M	R	1 50V Electrolytic	AC
C606	VCKYCY1EF104Z	R	0.1 25V Ceramic	AA
C607	VCKYCY1EF104Z	R	0.1 25V Ceramic	AA
C608	VCKYCY1HB102K	R	1000p 50V Ceramic	AA
C609	VCCCCY1HH180J	R	18p 50V Ceramic	AA
C801	VCKYCY1EF104Z	R	0.1 25V Ceramic	AA
C802	VCKYCY1HB472K	R	4700p 50V Ceramic	AA
C803	VCCCCY1HH180J	R	18p 50V Ceramic	AA
C804	VCCCCY1HH180J	R	18p 50V Ceramic	AA
C805	VCKYCY1EF104Z	R	0.1 25V Ceramic	AA
C806	VCKYCY1EF104Z	R	0.1 25V Ceramic	AA
C807	VCKYCY1EF104Z	R	0.1 25V Ceramic	AA
C808	VCEAGA1CW476M	R	47 16V Electrolytic	AB
C809	VCKYCY1HB102K	R	1000p 50V Ceramic	AA
C810	VCKYCY1HB102K	R	1000p 50V Ceramic	AA
C811	VCKYCY1HF223Z	R	0.022 50V Ceramic	AB
C812	VCKYCY1HF223Z	R	0.022 50V Ceramic	AB
C813	VCKYCY1HF223Z	R	0.022 50V Ceramic	AB
C1003	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C1004	VCKYCY1HB221K	R	220p 50V Ceramic	AA
C1005	VCKYCY1HF103Z	R	0.01 50V Ceramic	AA
C1006	VCEAGA1CW106M	R	10 16V Electrolytic	AA
C1007	VCEAGA1HW105M	R	1 50V Electrolytic	AC
C1008	VCEAGA1HW105M	R	1 50V Electrolytic	AC
C1010	VCCCCY1HH220J	R	22p 50V Ceramic	AA
C1011	VCCCCY1HH220J	R	22p 50V Ceramic	AA
C1012	VCCCCY1HH220J	R	22p 50V Ceramic	AA
C1013	VCCCCY1HH220J	R	22p 50V Ceramic	AA
C1015	VCFYFA1HA334J	R	0.33 50V M. Polypro	AB
C1016	VCKYCY1EF104Z	R	0.1 25V Ceramic	AA
C1017	VCEAGA1AW477M	R	470 10V Electrolytic	AC
C1018	VCEAGA1HW105M	R	1 50V Electrolytic	AC
C1019	VCEAGA1CW106M	R	10 16V Electrolytic	AA
C1042	VCCCCY1HH101J	R	100p 50V Ceramic	AA
C1043	VCCCCY1HH100D	R	10p 50V Ceramic	AA
RESISTORS				
R2	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
R5	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
R7	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
R17	VRS-CY1JF000J	R	0 1/16W Metal Oxide	AA
R206	VRS-CY1JF122J	R	1.2k 1/16W Metal Oxide	AA
R207	VRS-CY1JF391J	R	390 1/16W Metal Oxide	AA
R208	VRS-CY1JF102J	R	1k 1/16W Metal Oxide	AA
R209	VRS-CY1JF181J	R	180 1/16W Metal Oxide	AA
R210	VRD-RA2BE4R7J	R	4.7 1/8W Carbon	AA
R211	VRS-CY1JF560J	R	56 1/16W Metal Oxide	AA
R212	VRS-CY1JF182J	R	1.8k 1/16W Metal Oxide	AA
R213	VRS-CY1JF181J	R	180 1/16W Metal Oxide	AA
R214	VRS-CY1JF221J	R	220 1/16W Metal Oxide	AA
R215	VRS-CY1JF470J	R	47 1/16W Metal Oxide	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 (Continude)				
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
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 (Continude)

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

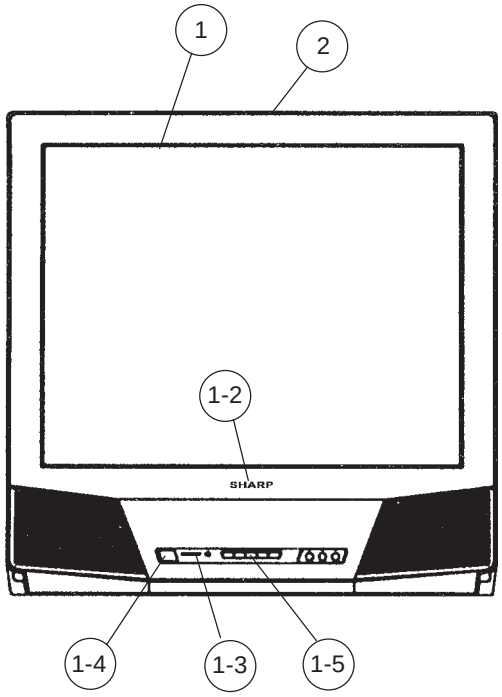
	QACCZ3008PEZZ	R	AC Cord	AN
	QCNW-2193PEZZ	R	Connecting Cord	AK
	RRMCG1399PESA		Infrared R-C	
	TiNS-0096KJZZ		Instruction Book	

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	



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