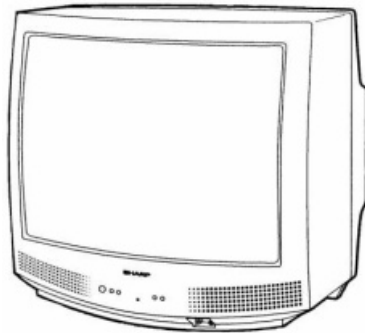


# SHARP SERVICE MANUAL

S40Y525RM100N



## COLOR TELEVISION

Chassis No. SN-91

MODEL **25RM100N**

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 should be used.

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### ELECTRICAL SPECIFICATIONS

POWER INPUT ..... 120 V AC 60 Hz  
 POWER RATING ..... 105 W  
 PICTURE SIZE ..... 2,032cm<sup>2</sup> (315sq inch)  
 CONVERGENCE ..... Magnetic  
 SWEEP DEFLECTION ..... Magnetic  
 FOCUS ..... Hi-Bi-Potential Electrostatic  
 INTERMEDIATE FREQUENCIES  
 Picture IF Carrier Frequency ..... 45.75 MHz  
 Sound IF Carrier Frequency ..... 41.25 MHz  
 Color Sub-Carrier Frequency ..... 42.17 MHz  
 (Nominal)  
 AUDIO POWER ..... 1.3W (at 10% distortion and  
 Dual CH Operate)

SPEAKER  
 SIZE ..... 8 cm (Round)  
 VOICE COIL IMPEDANCE ..... 32 ohm at 400 Hz  
 ANTENNA INPUT IMPEDANCE  
 VHF/UHF ..... 75 ohm Unbalanced  
 TUNING RANGES  
 VHF-Channels ..... 2 thru 13  
 UHF-Channels ..... 14 thru 69  
 CATV Channels ..... 1 thru 125  
 (EIA, Channel Plan U.S.A.)

**Specifications are subject to change without prior notice.**

**SHARP CORPORATION**

This document has been published to be used for after sales service only.

The contents are subject to change without notice.

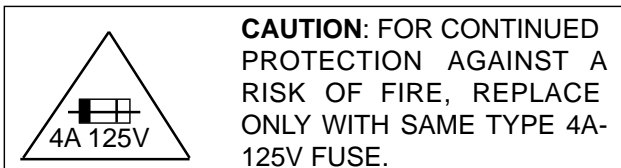
## IMPORTANT SERVICE SAFETY PRECAUTION

- Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:

### WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.
3. Semiconductor heat sinks are potential shock hazards when the chassis is operating.
4. The chassis in this receiver has two ground systems which are separated by insulating material. The non-isolated (hot) ground system is for the B+ voltage regulator circuit and the horizontal output circuit. The isolated ground system is for the low B+ DC voltages and the secondary circuit of the high voltage transformer.

To prevent electrical shock use an isolation transformer between the line cord and power receptacle, when servicing this chassis.



### SERVICING OF HIGH VOLTAGE SYSTEM AND PICTURE TUBE

**When servicing the high voltage system, remove the static charge by connecting a 10k ohm resistor in series with an insulated wire (such as a test probe) between the picture tube ground and the 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 anode completely.

### X-RADIATION AND HIGH VOLTAGE LIMITS

1. Be sure all service personnel are aware of the procedures and instructions covering X-radiation. The only potential source of X-ray in current solid state TV receivers is the picture tube. However, the picture tube does not emit measurable X-Ray radiation, if the high voltage is as specified in the "High Voltage Check" instructions.  
It is only when high voltage is excessive that X-radiation is capable of penetrating the shell of the picture tube including the lead in the glass material. The important precaution is to keep the high voltage below the maximum level specified.
2. It is essential that servicemen have available at all times an accurate high voltage meter. The calibration of this meter should be checked periodically.
3. High voltage should always be kept at the rated value no higher. Operation at higher voltages may cause a failure of the picture tube or high voltage circuitry and;also, under certain conditions, may produce radiation in exceeding of desirable levels.
4. When the high voltage regulator is operating properly there is no possibility of an X-radiation problem. Every time a color chassis is serviced, the brightness should be tested while monitoring the high voltage with a meter to be certain that the high voltage does not exceed the specified value and that it is regulating correctly.
5. Do not use a picture tube other than that specified or make unrecommended circuit modifications to the high voltage circuitry.
6. When trouble shooting and taking test measurements on a receiver with excessive high voltage, avoid being unnecessarily close to the receiver.  
Do not operate the receiver longer than is necessary to locate the cause of excessive voltage.

# IMPORTANT SERVICE SAFETY PRECAUTION

## (Continued)

### BEFORE RETURNING THE RECEIVER

#### (Fire & Shock Hazard)

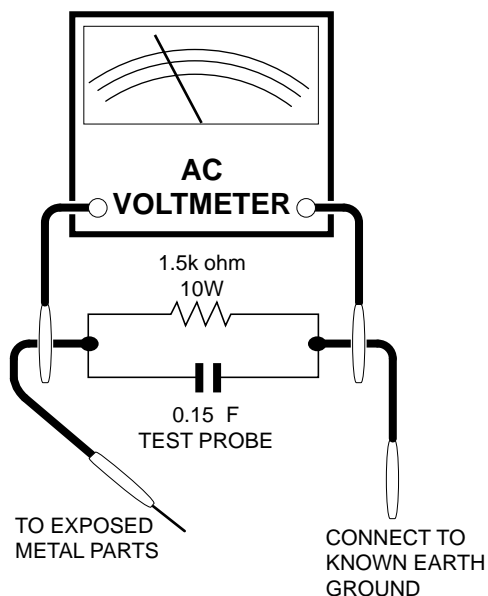
Before returning the receiver to the user, perform the following safety checks.

1. Inspect all lead dress to make certain that leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacity networks, mechanical insulators and etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.
  - Plug the AC cord directly into a 120 volt AC outlet, (Do not use an isolation transformer for this test).
  - Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to earth ground.
  - Use an AC voltmeter having with 5000 ohm per volt, or higher, sensitivity to measure the AC voltage drop across the resistor.

- Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon and etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC line cord plug connection reversed. (If necessary, a non-polarized adapter plug must be used only for the purpose of completing these check.)

Any current measured must not exceed 0.5 milliamp. Any measurements not within the limits outlined above indicate of a potential shock hazard and corrective action must be taken before returning the instrument to the customer.



### SAFETY NOTICE

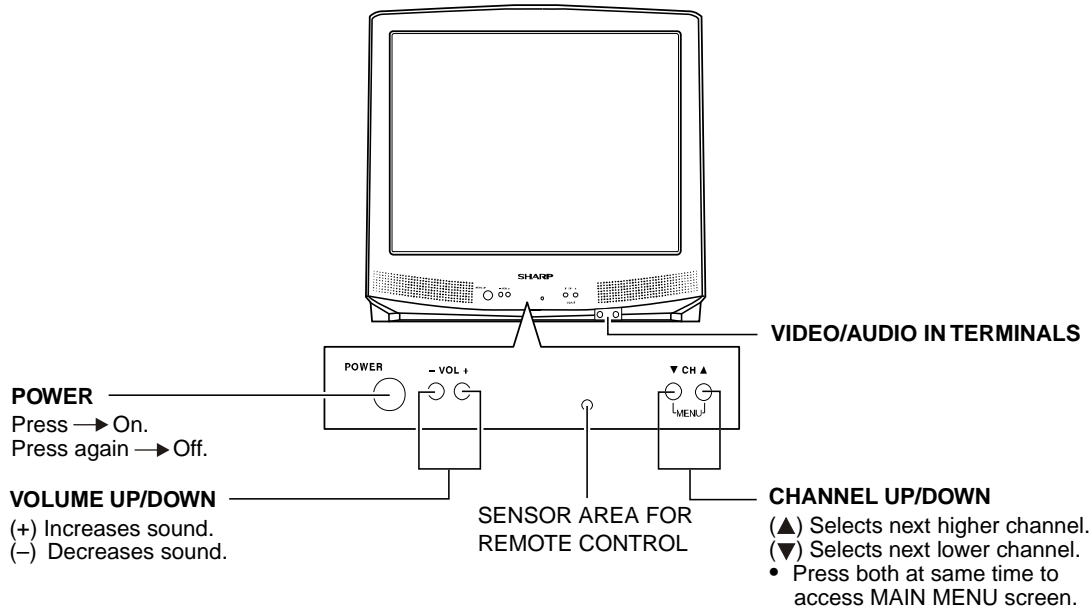
Many electrical and mechanical parts in television receivers have special safety-related characteristics. These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc.

Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠" and shaded areas in the Replacement Parts Lists and Schematic Diagrams.

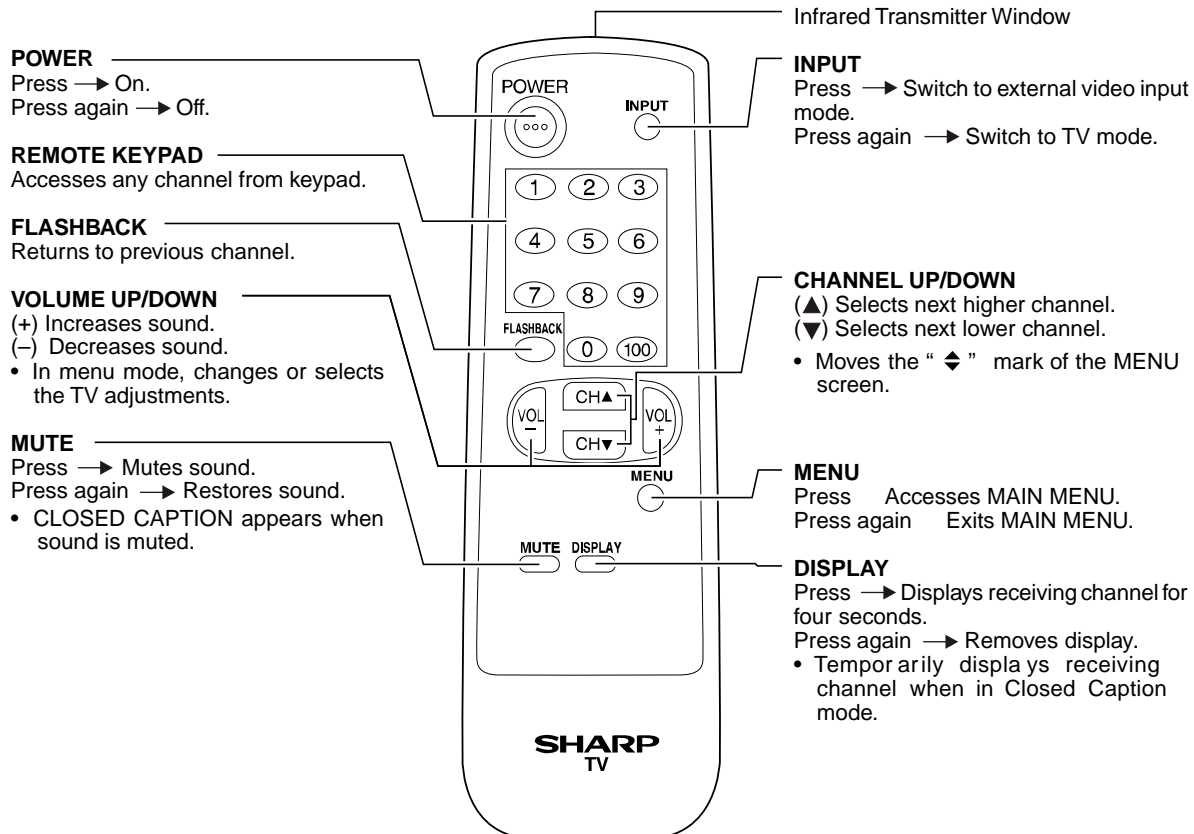
For continued protection, replacement parts must be identical to those used in the original circuit. The use of substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire, X-radiation or other hazards.

# LOCATION OF USER'S CONTROL

## Front Panel



## Basic Remote Control Functions



# INSTALLATION AND SERVICE INSTRUCTIONS

- Note:** (1) When performing any adjustments to resistor controls and transformers use non-metallic screwdrivers or TV alignment tools.  
 (2) Before performing adjustments, the TV set must be on at least 15 minutes.

## CIRCUIT PROTECTION

The receiver is protected by a 4.0A fuse (F701), mounted on PWB-A, wired into one side of the AC line input.

## X-RADIATION PROTECTOR CIRCUIT TEST

**After service has been performed on the horizontal deflection system, high voltage system, B+ system, test the X-Radiation protection circuit to ascertain proper operation as follows:**

1. Apply 120V AC using a variac transformer for accurate input voltage.
2. Allow for warm up and adjust all customer controls for normal picture and sound.
3. Receive a good local channel.
4. Connect a digital voltmeter to TP653 and make sure that the voltmeter reads  $11.2 \pm 0.6V$ .
5. Apply external 13.8V DC at TP653 by using an external DC supply, TV must shut off.
6. To reset the protector, unplug the AC cord and make a short circuit between TP651 and TP652. Now make sure that normal picture appears on the screen.
7. If the operation of the horizontal oscillator does not stop in step 5, the circuit must be repaired before the set is returned to the customer.

## HIGH VOLTAGE CHECK

**High voltage is not adjustable but must be checked to verify that the receiver is operating within safe and efficient design limitations as specified checks should be as follows:**

1. Connect an accurate high voltage meter between ground and anode of picture tube.
2. Operate receiver for at least 15 minutes at 120V AC line voltage, with a strong air signal or a properly tuned in test signal.
3. Enter the service mode and select the service adjustment "S19" and Bus data "01" (Y-mute on).
4. The voltage should be approximately, 28.7kV (at zero beam).

If a correct reading cannot be obtained, check circuitry for malfunctioning components. After the voltage test, make Y-mute off to the normal mode.

For adjustments of this model, the bus data is converted to various analog signals by the D/A converter circuit.

**Note:** There are still a few analog adjustments in this series such as focus and master screen voltage. Follow the steps below whenever the service adjustment is required. See "Table-B" to determine, if service adjustments are required.

### 1. Service mode

Before putting unit into the service mode, check that customer adjustments are in the normal mode. Use the reset function in the video adjustment menu to ensure customer controls are in their proper (reset) position.

### 2. Service number selection

Once in the service mode, press the Ch-up or Ch-down button on the remote controller or at the set. The service adjustment number will vary in increments of one, from "S01" to "OP2".

### 3. Data number selection

Press the Vol-up or down button to adjust the data number.

### To enter the service mode and exit service mode.

While pressing the Vol-up and Ch-up buttons at the same time, plug the AC cord into a wall socket. Now the TV set is switched on and enters the service mode.

To exit the service mode, turn the television off by pressing the power button.

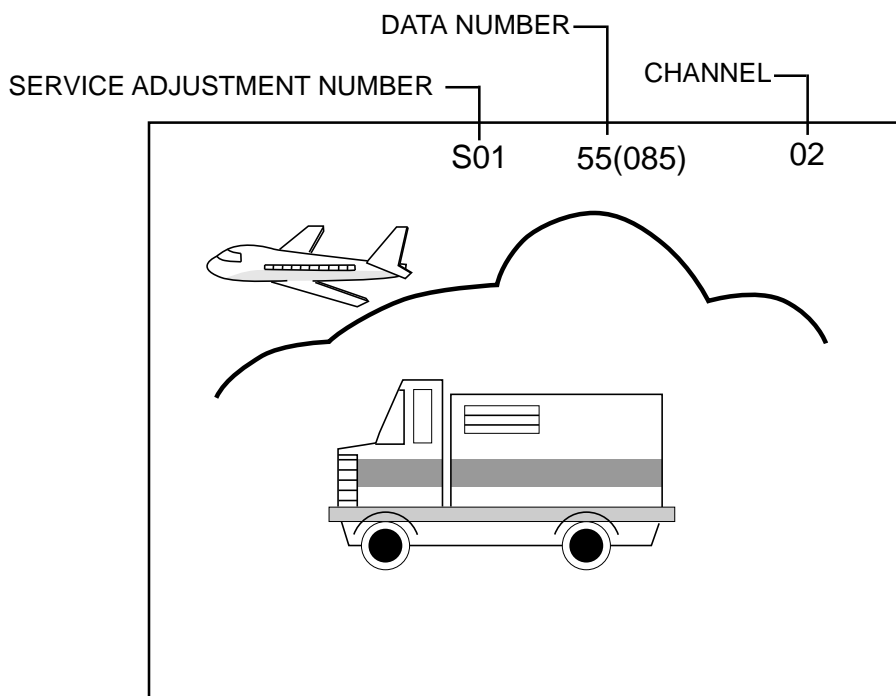


Figure A.

SERVICE NUMBER	ADJUSTMENT ITEM	DATA		ADJUSTMENT CONTENTS
		INITIAL VALUE	RANGE	
S01	PICTURE	55	00-7F	
S02	TINT	46	00-7F	
S03	COLOR	32	00-7F	
S04	BRIGHTNESS	40	00-7F	
S05	SHARPNESS	24	00-3F	Must be set to "28"
S06	VERTICAL PHASE	00	00-07	Must be set to "00"
S07	HORIZONTAL PHASE	12	00-1F	
S08	RF-AGC	23	00-3F	
S09	VERTICAL AMP	20	00-3F	
S10	VCO	2C	00-7F	
S11	R CUT-OFF	00	00-FF	
S12	G CUT -OFF	00	00-FF	
S13	B CUT-OFF	00	00-FF	
S14	G GAIN	7F	00-FF	
S15	B GAIN	7F	00-FF	
S16	TRAP(3.58MHz)	00	00 or 01	Must be set to "00"
S17	BALANCE	20	00-3F	Must be set to "20"
S18	C.C.POSITION	17	00-7F	
S19	Y-MUTE	00	00,01,03	00= NORMAL, 01= No Y, 03= No VERTICAL
S20	ENERGY SAVE OFFSET	20	00-3F	Must be set to "23"
S21	D.D.E. OFFSET	03	00-1F	Must be set to "03"
S22	OSD SETUP	00	00-03	Must be set to "00"
S23	TUNER SETUP	00	00,01	Must be set to "00"
OP1	OPTION 1	00	00-FF	Must be set to "B0"
OP2	OPTION 2	00	00-FF	Must be set to "04"

Table - A

Holding down both the Vol-up/CH-down buttons on the TV set at service mode for more than 2 seconds will automatically write the above initial values into IC2101.

PART REPLACED	ADJUSTMENT		NOTES
	NECESSARY	UNNECESSARY	
IC2001		X	Data is stored in IC2101.
IC201	X		The adjustment is needed to compensate for characteristics of parts including IC201 and MTS level (M01).
IC2101	X		Holding down both the Vol-up/CH-down buttons on the TV set in the service mode for more than 2 seconds will automatically write the above initial values into IC2101. Then perform a complete adjustment.
CRT	X		Adjust items related to picture tube only.

Table - B

## ■ SERVICE ADJUSTMENT

### VCO Adjustment

1. Connect a digital voltmeter between pin (44) of IC201 and ground.
2. Receive a good local channel.
3. Enter the service mode and select the service adjustment "S10".
4. Adjust the data so that digital voltmeter reads 2.2V.
5. Adjustment is completed, remove the voltmeter, return to "normal" mode.

### RF AGC Adjustment

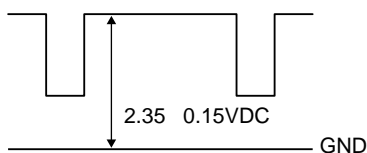
1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S08".
3. Set the data value to point where no noise or beat appears.
4. Select another channel to confirm that no noise or beat appears.

**Note 1 :** You will have to come out of the service mode to select another channel.

**Note 2 :** Setting the data to "00" will produce a black raster.

### Screen Adjustment

1. Connect a oscilloscope between TP854 and GND on the CRT Unit.
2. Receive a good local channel.
3. Enter the service mode and select the service adjustment "S03" and set the data value to "00" to set the color level to minimum. (Record original data code under adjustment "S03" before changing) You may skip this step, if you selected a B/W picture or monoscope pattern.
4. Select the service adjustment "S19" and adjust the data value to "01", this turn off the luminance signal (Y-mute).
5. Select the service adjustment "S04" and adjust data value to obtain 2.35 volts on the oscilloscope screen.



**Figure B.**

6. Adjust the master screen control until the raster darkens to the point where raster is barely seen.
7. Adjust the service adjustments "S11" red, "S12" green and "S13" blue to obtain a good grey scale with normal whites at low brightness level.
8. Select the service adjustment "S19" and reset data to "00". Select the service adjustment "S03" and reset data to obtain normal color level.
9. Remove oscilloscope, and reset the master screen control to obtain normal brightness range.

### White Balance Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S03" and set to "00" (minimum color)(Record original data code under adjustment "S03" before changing). "S03" does not have to be adjusted, if you selected a B/W picture or monoscope pattern.
3. Alternately adjust service adjustment data of "S14" and "S15" until a good grey scale with normal whites is obtained.
4. Select the service adjustment "S03" and adjust data to obtain normal color level.

### Sub-Picture Adjustment

1. Receive a good local channel.
2. Make sure the customer picture control is set to maximum.
3. Enter the service mode and select the service adjustment "S01".
4. Adjust the data value to achieve normal contrast range.

### Sub-Tint Adjustment

1. Receive a good local channel.
2. Set customer tint control to center of it's range.
3. Enter the service mode and select the service adjustment "S02".
4. Adjust "S02" data value to obtain normal flesh tones.

### Sub-Color Adjustment

1. Receive a good local channel.
2. Make sure the customer color control is set to center position .
3. Enter the service mode and select service adjustment "S03".
4. Adjust "S03" data value to obtain normal color level.



## Sub-Brightness Adjustment

1. Receive a good local channel.
2. Make sure the customer brightness control is set to center position.
3. Enter the service mode and select the service adjustment "S04".
4. Adjust "S04" data value to obtain normal brightness level.

## Vertical-Size Adjustments

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S09".
3. While observing the top and bottom of the screen, adjust "S09" data value to proper vertical size.

## Vertical Phase Adjustment

1. Enter the service mode and select the service adjustment "S06".
2. Adjust data value to "00".

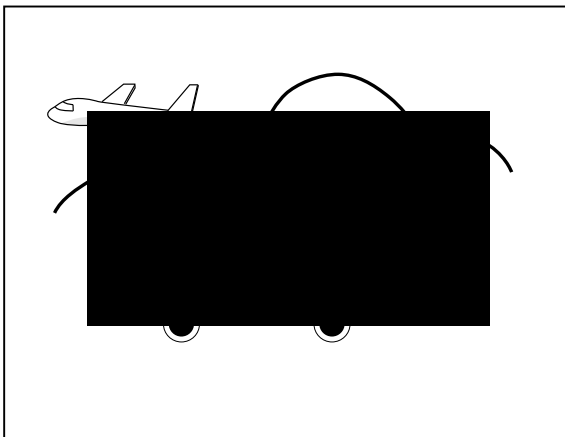
**Note:** This must be set "00" when changed data retrace line will appear.

## Horizontal Position Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S07".
3. Adjust "S07" data value so that picture is centered.

## Caption Position Adjustment (Horizontal)

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S18".
3. A black text box appears on the screen. (see **Figure C** below)
4. Adjust "S18" data value so that text box is positioned in the center of the screen.



**Figure C.**

## 3.58MHz Trap Adjustment

1. Receive a good local channel.
2. Enter the service mode and select the service adjustment "S16".
3. This is a two position adjustment, "00" is ON, "01" is OFF.
4. For this Model should be adjusted as "00"

## Sharpness and Audio Balance Adjustments

1. Receive a good local channel.
2. Enter the service mode and select the service adjustments "S05" for sharpness and "S17" for balance.
  - **Sharpness adjustment**
  - 3. Adjust data value to "28"(center of data range) for sharpness adjustment.
  - **Audio balance adjustment**
  - 4. Adjust data value to "20"(center of data range) for Audio balance adjustment.

## Energy save offset Adjustment

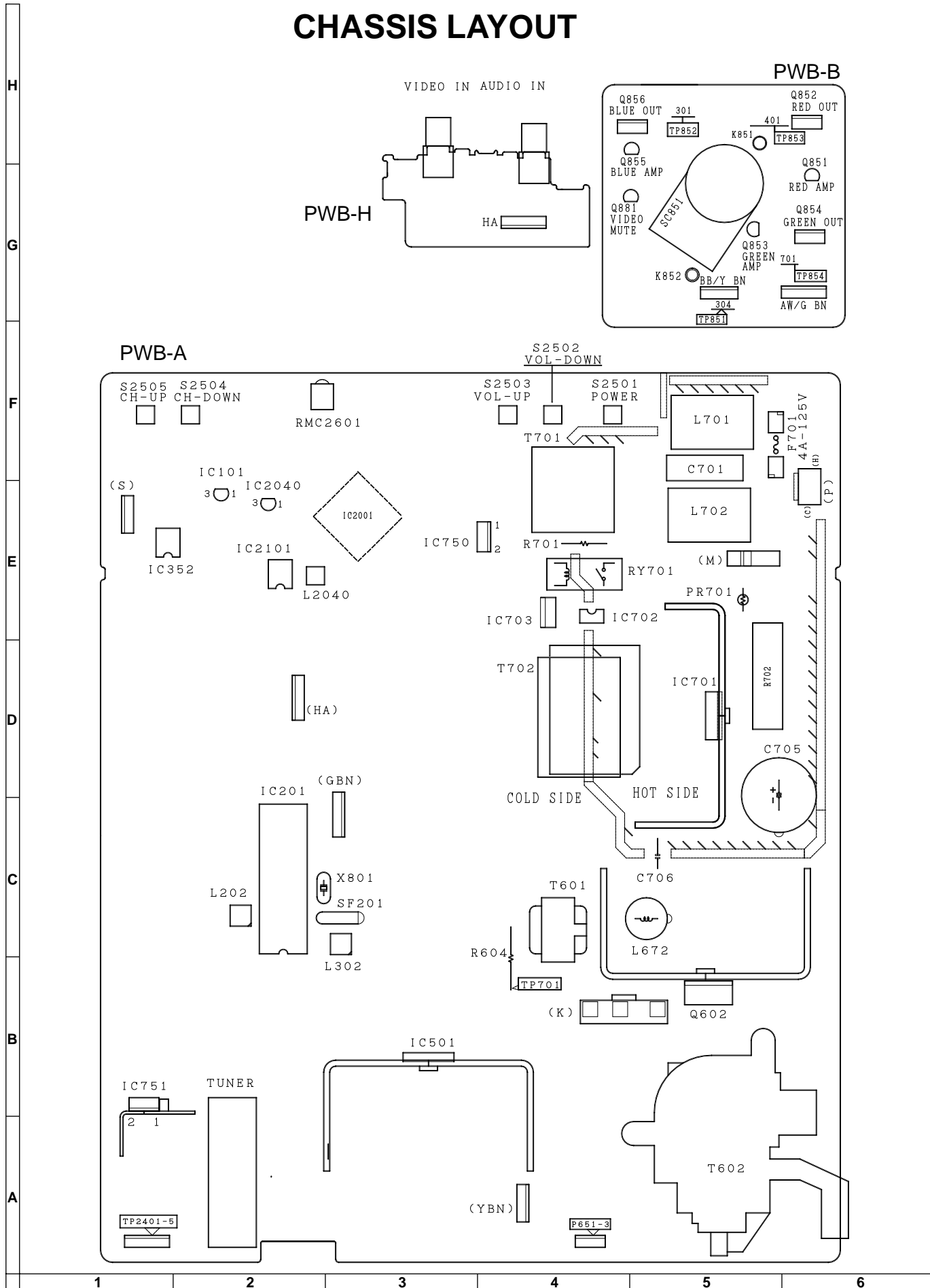
1. Enter the service mode and select the service adjustment "S20".
  2. Adjust data value to "23".
- Note :** This position is used to preset the level for the energy save function.

## Other Adjustments

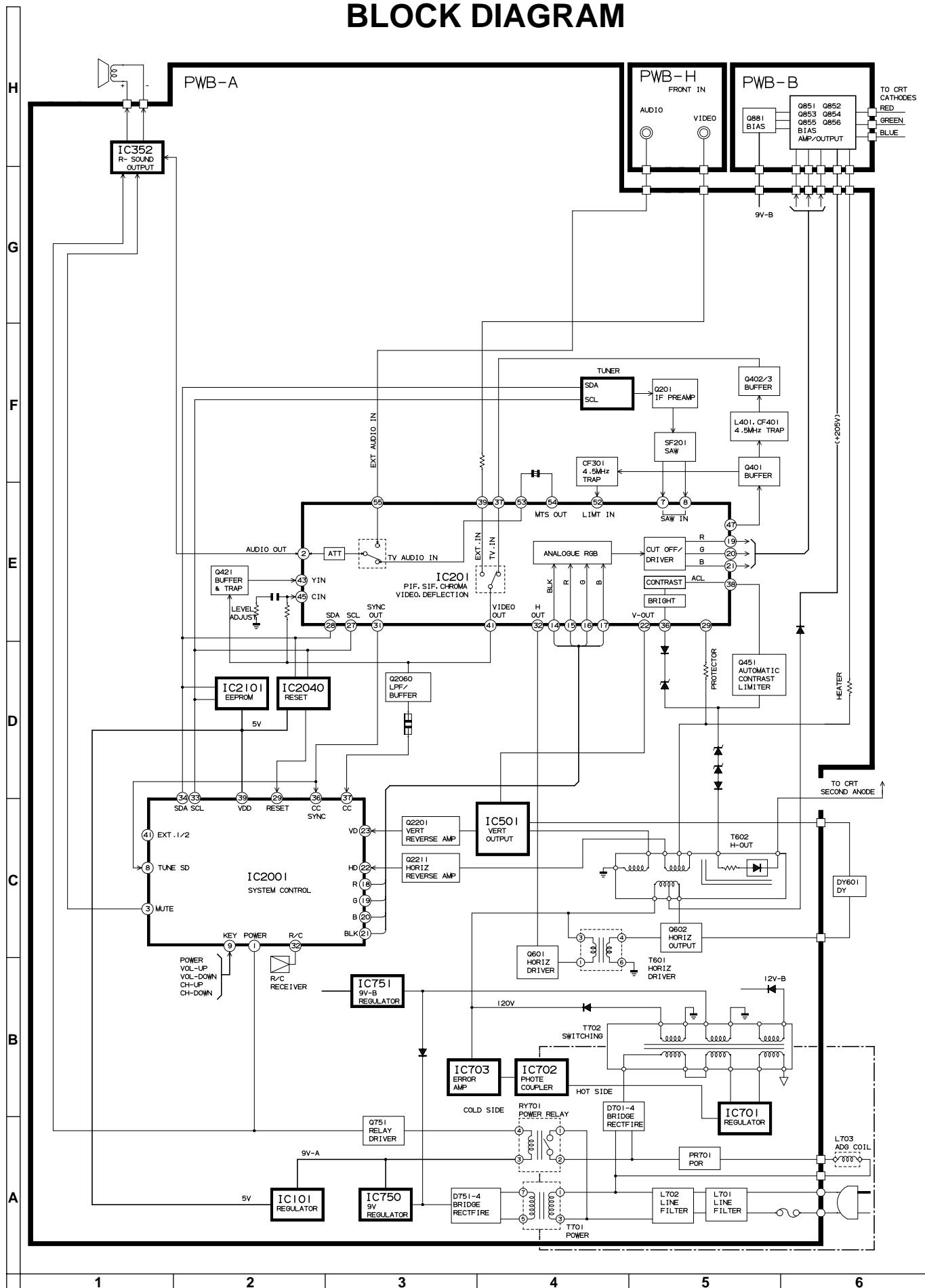
1. Enter the service mode.
2. Adjust the following data values as listed below.

S21	"03"	DDE OFFSET
S22	"00"	OSD SETUP
S23	"00"	TUNER SETUP

# CHASSIS LAYOUT



# BLOCK DIAGRAM



# DESCRIPTION OF SCHEMATIC DIAGRAM

**NOTES:**


1. The unit of resistance "ohm" is omitted.  
( $K=k\Omega=1000\Omega$ ,  $M=M\Omega$ )
2. All resistors are 1/16 watt, unless otherwise noted.
3. All capacitors are  $\mu F$ , unless otherwise noted.  
( $P=pF=\mu\mu F$ )
4. (G) indicates  $\pm 2\%$  tolerance may be used.
5.  $\#$  indicates line isolated ground.

**VOLTAGE MEASUREMENT CONDITIONS:**

1. All DC voltages are measured with DVM connected between points indicated and chassis ground, line voltageset at 120VAC and all controlsset for normal picture unless otherwise indicated.
2. All voltages measured with 1000 $\mu V$  B & W or Color signal.

**WAVEFORM MEASUREMENT CONDITIONS:**

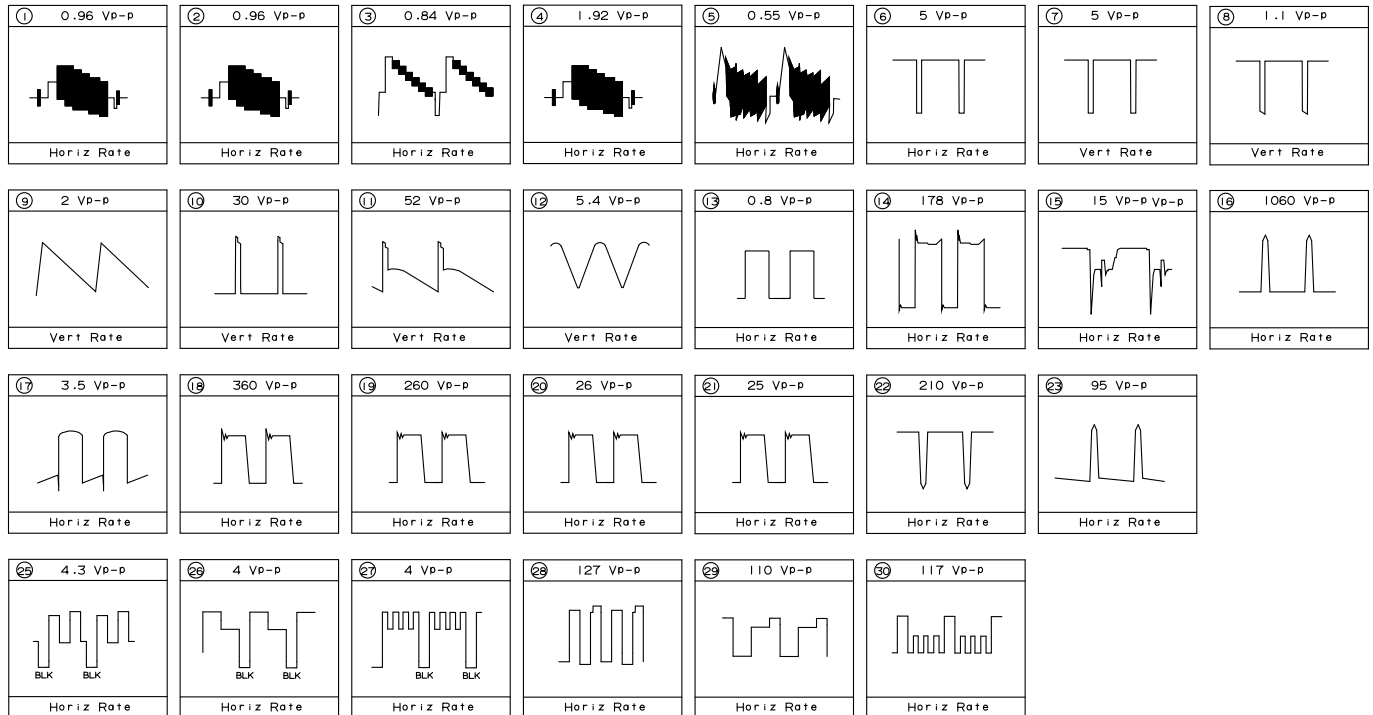
1. Photographs taken on a standard gated color bar signal, the tint setting adjusted for proper color. The wave shapes at the red, green and blue cathodes of the picture tube depend on the tint, color level and picture control.
2.  $\odot$  indicates waveform check points (See chart, waveforms are measured from point indicated to chassis ground.)

$\triangle$  AND SHADED (  ) COMPONENTS = SAFETY RELATED PARTS.  
 $\blacktriangle$  MARK = X-RAY RELATED PARTS.

DRGANNES MARQUES  $\triangle$  ET HACHRES (  ):  
 PIECES RELATIVES A LA SECURITE.  
 MARQUE  $\blacktriangle$  : PIECS RELATIVE AUX RAYONS X.

*This circuit diagram is a standard one, printed circuits may be subject to change for product improvement without prior notice.*

## WAVE FORMS



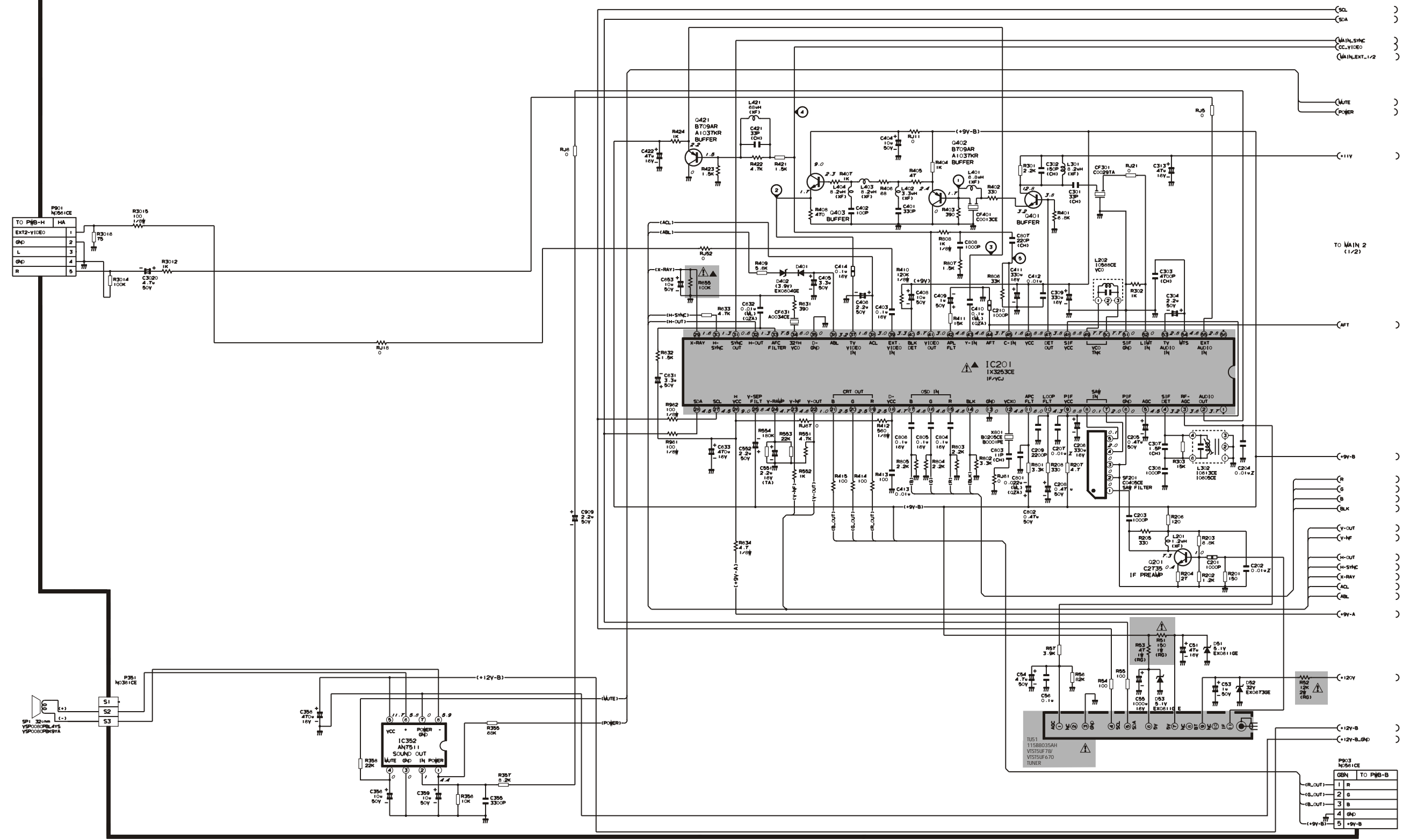
25R-M100N MAIN 1 (DUNTKA126WEP9)

AND SHADED COMPONENTS = SAFETY RELATED PARTS.  
MARK = X-RAY RELATED PARTS.

NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGACHM).  
2. ALL RESISTORS ARE 1/16 WATT UNLESS OTHERWISE NOTED.  
3. UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL (u, P, ETC).  
NOTE: ALL DIODES ARE "1N5119" UNLESS OTHERWISE SPECIFIED.  
ALL TRANSISTORS ARE "2SC2412" OR "2SD261AR" UNLESS OTHERWISE SPECIFIED.



PWB - A



TO PWB-H

EXT2-VIDEO	1
GN	2
L	3
GN	4
R	5

SC	)
SCA	)
MAIN SYNC	)
CC-VIDEO	)
MAIN EXT. 1-2	)

MUTE	)
POWER	)

+11V	)
------	---

TO MAIN 2 (1/2)

AFT	)
-----	---

+9V-B	)
-------	---

R	)
---	---

G	)
---	---

BLK	)
-----	---

Y-OUT	)
-------	---

Y-IF	)
------	---

H-OUT	)
-------	---

H-SYNC	)
--------	---

X-RAY	)
-------	---

ACL	)
-----	---

ABL	)
-----	---

+9V-A	)
-------	---

+12V	)
------	---

+12V-B	)
--------	---

+12V-B-GND	)
------------	---

+12V-B	)
--------	---

+9V-B	)
-------	---

TO PWB-B

IR-OUT	1	R
IR-OUT	2	G
IR-OUT	3	B
GN	4	GN
+9V-B	5	+9V-B

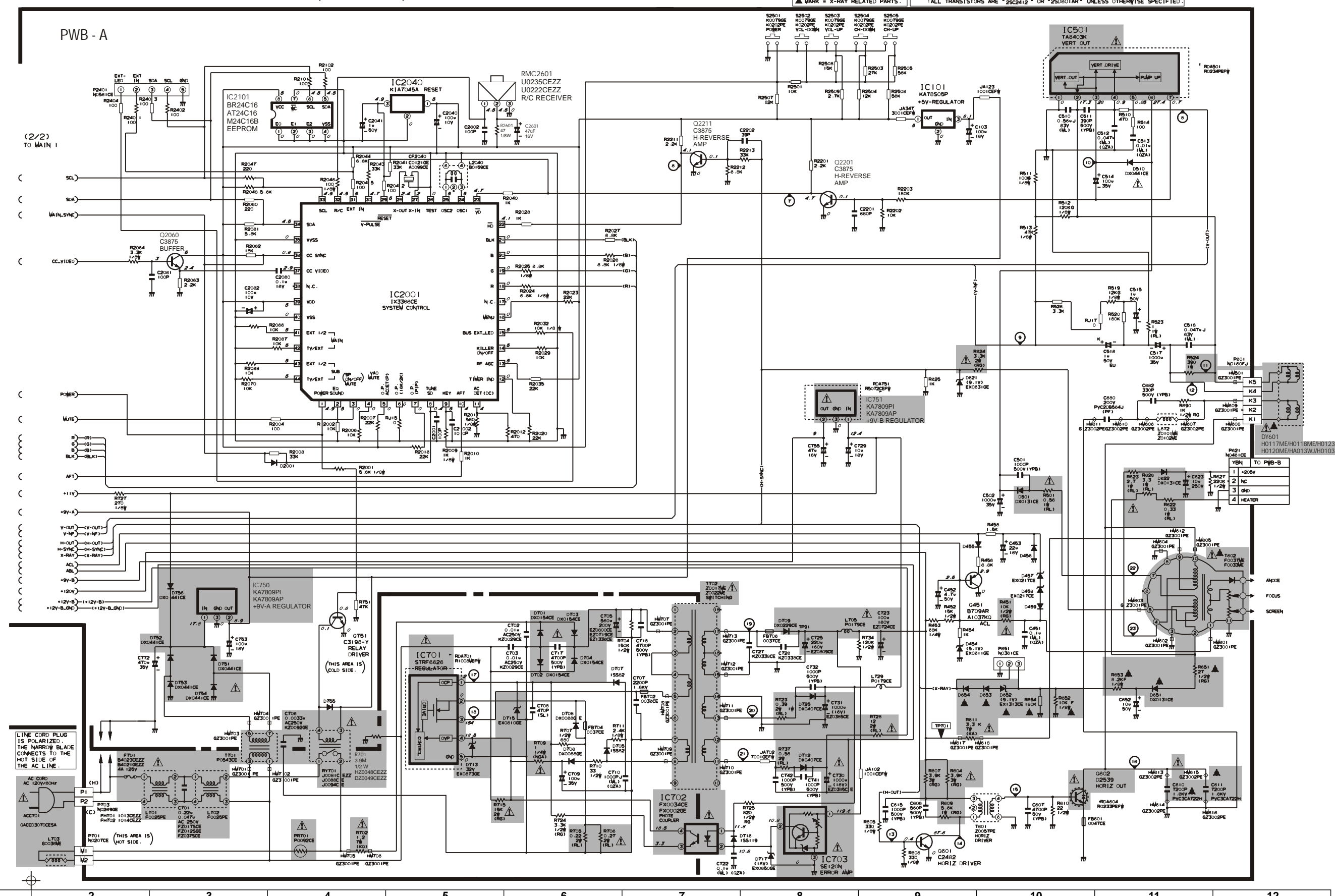
25R-M100N MAIN 2 (DUNTKA126WEP9)

PWB - A

NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGA OHM).  
 2. ALL RESISTORS ARE 1/16 WATT UNLESS OTHERWISE NOTED.  
 3. UNIT OF ALL CAPACITORS ARE P WITH PREFIX SYMBOL (u, p, ETC.).

NOTE: ALL DIODES ARE "1N4148" UNLESS OTHERWISE SPECIFIED.  
 ALL TRANSISTORS ARE "2SC2412" OR "2SD601AR" UNLESS OTHERWISE SPECIFIED.

AND SHADED COMPONENTS = SAFETY RELATED PARTS.  
 MARK = X-RAY RELATED PARTS.



LINE CORD PLUG IS POLARIZED. THE NARROW BLADE CONNECTS TO THE HOT SIDE OF THE AC LINE.

TO PWB-B

1 +20V  
 2 NC  
 3 GND  
 4 HEATER

1 2 3 4 5 6 7 8 9 10 11 12

# SCHEMATIC DIAGRAM: CRT and FRONT AV Units

⚠ AND SHADED (■) COMPONENTS = SAFETY RELATED PARTS.  
 ▲ MARK = X-RAY RELATED PARTS.

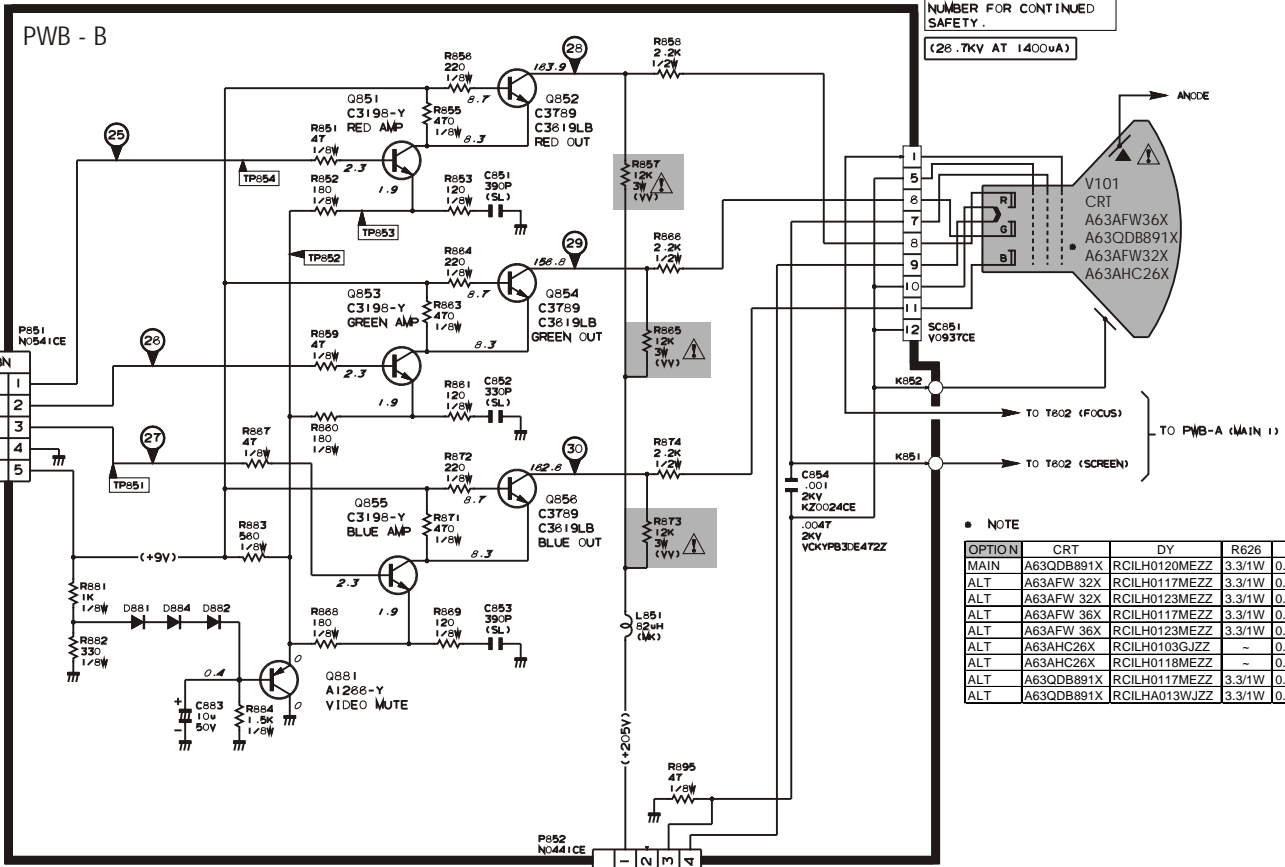
DRGANNES MARQUES (▲) ET HACHES (■) : PIÈCES RELATIVES A LA SECURITE.  
 MARQUE ▲ : PIÈCES RELATIVE AUX RAYONS X.

NOTE: 1. THE UNIT OF RESISTANCE "OHM" IS OMITTED (K=1000 OHMS, M=MEGAOHM).  
 2. THE UNIT OF ALL CAPACITORS ARE F WITH PREFIX SYMBOL (u, p, ETC).

NOTE: ALL DIODES ARE "158119 DKO473CE" \*UNLESS OTHERWISE SPECIFIED.

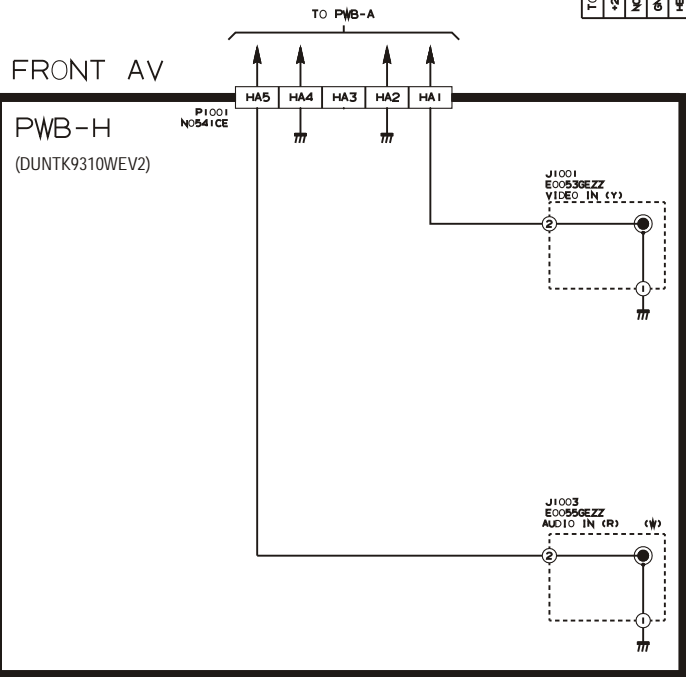
REPLACE WITH A PICTURE TUBE OF THE SAME TYPE NUMBER FOR CONTINUED SAFETY.  
 (26.7KV AT 1400uA)

25R-M100N CRT (DUNTK9510WEV1)



NOTE

OPTION	CRT	DY	R626	R622	R621
MAIN	A63QDB891X	RCILH0120MEZZ	3.3/1W	0.33/1W	-
ALT	A63AFW 32X	RCILH0117MEZZ	3.3/1W	0.33/1W	-
ALT	A63AFW 32X	RCILH0123MEZZ	3.3/1W	0.33/1W	-
ALT	A63AFW 36X	RCILH0117MEZZ	3.3/1W	0.33/1W	-
ALT	A63AFW 36X	RCILH0123MEZZ	3.3/1W	0.33/1W	-
ALT	A63AHC26X	RCILH0103GJZZ	-	0.33/1W	1.2/2W
ALT	A63AHC26X	RCILH0118MEZZ	-	0.33/1W	1.2/2W
ALT	A63QDB891X	RCILH0117MEZZ	3.3/1W	0.33/1W	-
ALT	A63QDB891X	RCILHA013WJZZ	3.3/1W	0.33/1W	-

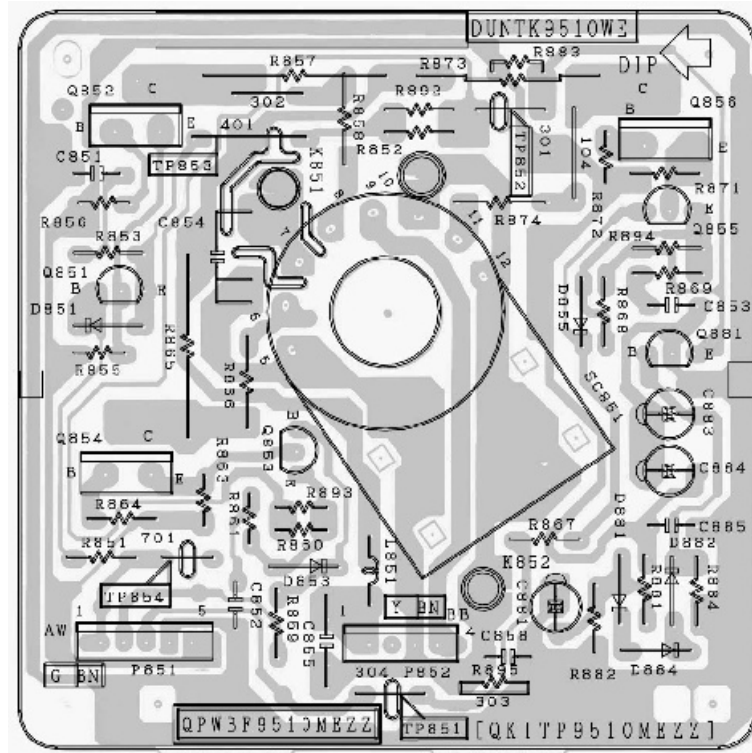


H  
G  
F  
E  
D  
C  
B  
A

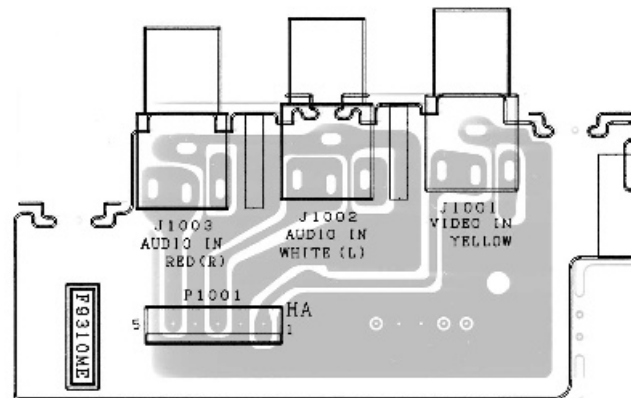
1 2 3 4 5 6

# PRINTED WIRING BOARD ASSEMBLIES

H  
G  
F  
E  
D  
C  
B  
A



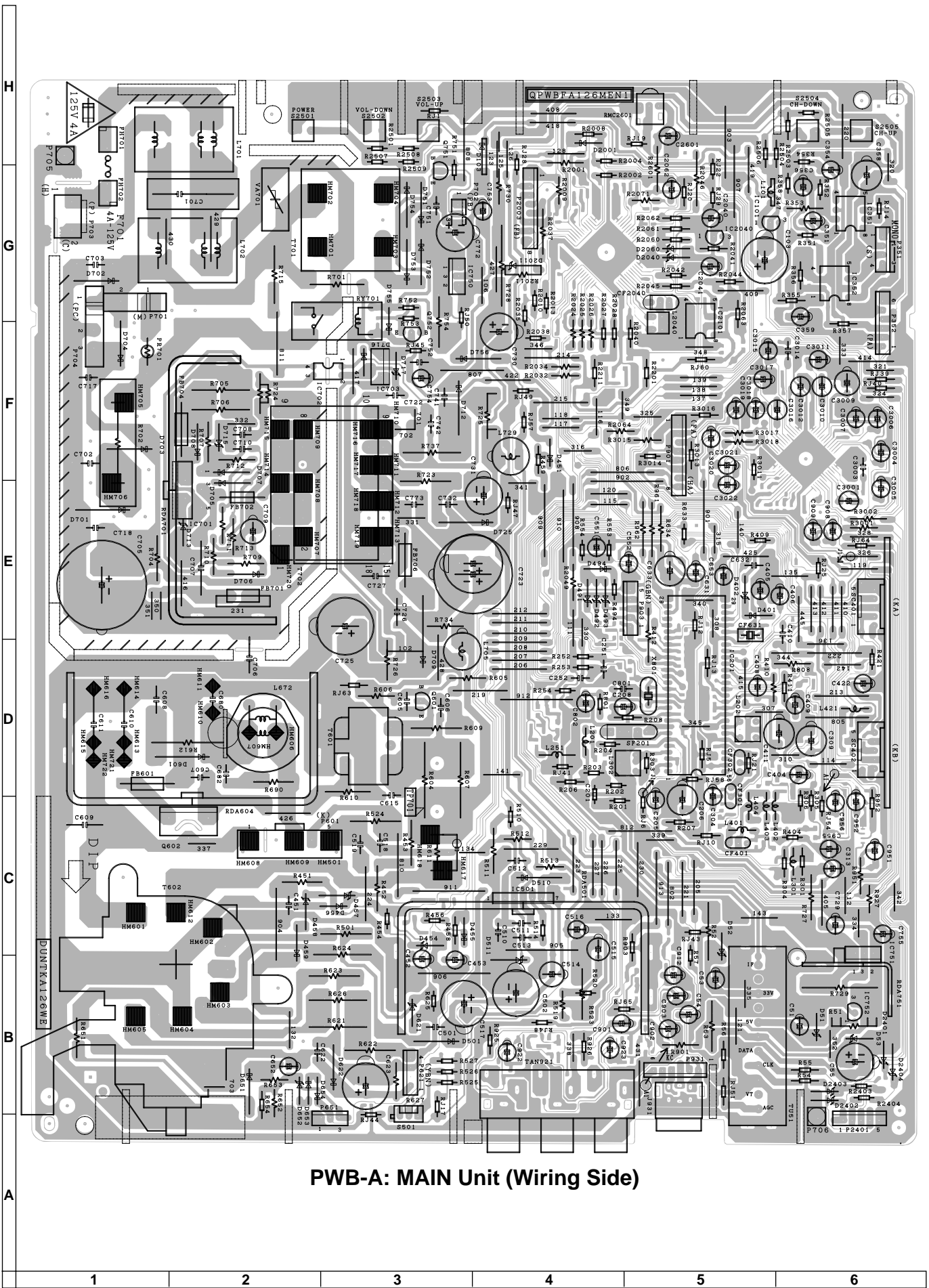
**PWB-B: CRT Unit (Wiring Side)**



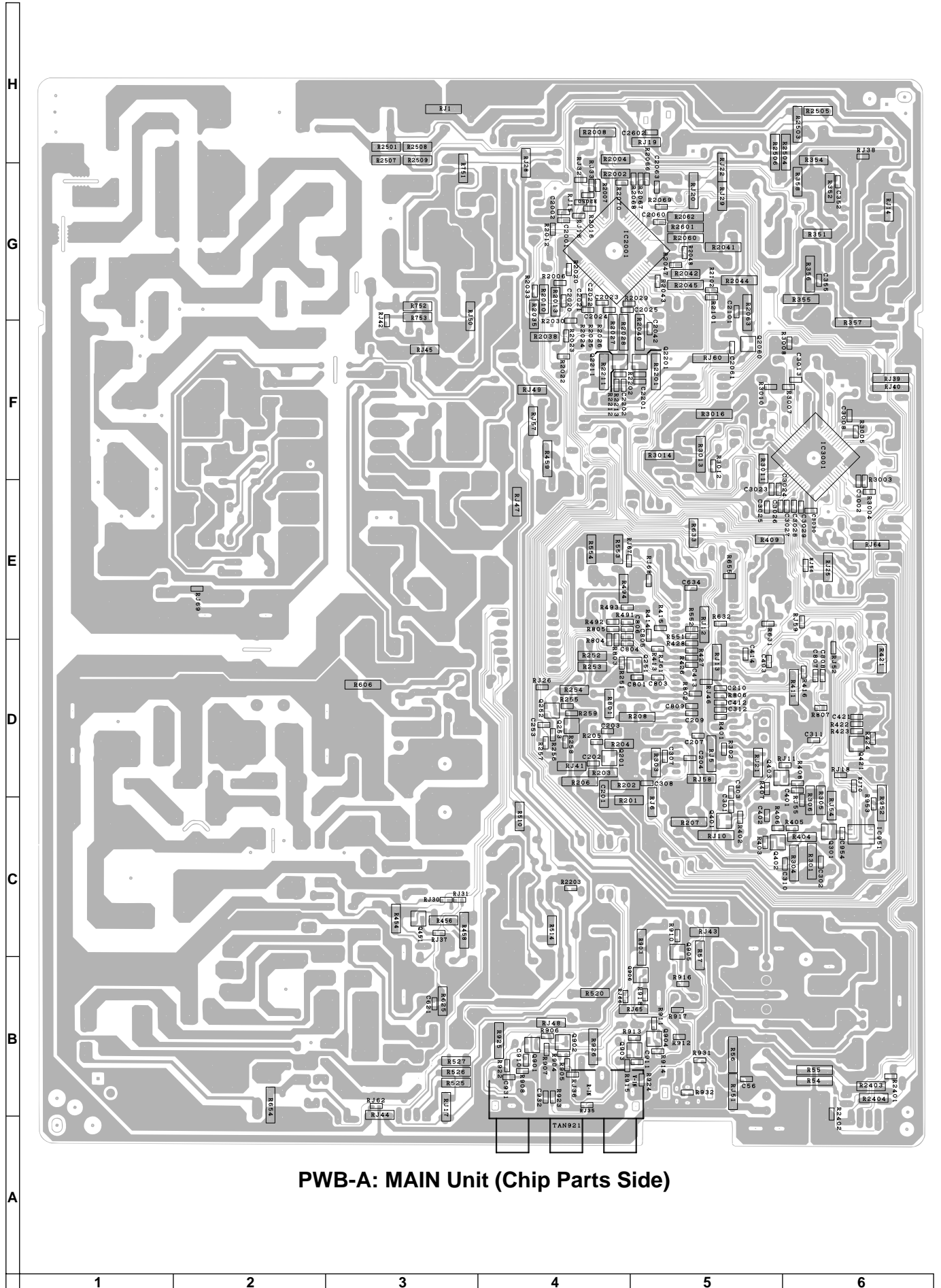
**PWB-H: FRONT AV Unit (Wiring Side)**

1 2 3 4 5 6





PWB-A: MAIN Unit (Wiring Side)



PWB-A: MAIN Unit (Chip Parts Side)

# PARTS LIST

## PARTS REPLACEMENT

Replacement parts which have these special safety characteristics identified in this manual; electrical components having such features are identified by  $\triangle$  and shaded areas in the Replacement Parts Lists and Schematic Diagrams. The use of a substitute replacement part which does not have the same safety characteristic 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 information.

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

in **USA**: Contact your nearest SHARP Parts Distributor to order. For location of SHARP Parts Distributor, Please call Toll-Free; 1-800-BE-SHARP

★ MARK: SPARE PARTS-DELIVERY SECTION

▲ MARK: X- RAY RELATED PARTS

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

▲▲ V101	VB63AFW32X* or VB63AHC26X* or VB63AFW36031E	M	CRT (DY601:H0117ME) CRT (DY601:H0118ME) CRT (I.T.C.)	CK
▲▲ DY601	RCiLH0117MEZZ or RCiLH0118MEZZ	M	DY (CRT:A63AFW32X) DY (CRT:A63AHC26X)	BA

OPTION	CRT	DY	R626	R622	R621
MAIN	A63QDB891X	RCiLH0120MEZZ	3.3/1W	0.33/1W	-
ALT	A63AEW 32X	RCiLH0117MEZZ	3.3/1W	0.33/1W	-
ALT	A63AEW 32X	RCiLH0123MEZZ	3.3/1W	0.33/1W	-
ALT	A63AEW 36X	RCiLH0117MEZZ	3.3/1W	0.33/1W	-
ALT	A63AEW 36X	RCiLH0123MEZZ	3.3/1W	0.33/1W	-
ALT	A63AHC26X	RCiLH0103GJZZ	-	0.33/1W	1.2/2W
ALT	A63AHC26X	RCiLH0118MEZZ	-	0.33/1W	1.2/2W
ALT	A63QDB891X	RCiLH0117MEZZ	3.3/1W	0.33/1W	-
ALT	A63QDB891X	RCiLHA013WJZZ	3.3/1W	0.33/1W	-

▲ L703	RCiLG0036MEZZ	M	Degaussing Coil	BB
	MSPRT0002MEZZ	M	Spring for CRT	AA
	PMAGF3003CEZZ	M	Magnet Ass'y	AK
	QEARC2508MEZZ	M	Grounding Part	AF

Ref. No. Part No. ★ Description Code

## PRINTED WIRING BOARD ASSEMBLIES (NOT REPLACEMENT ITEM)

PWB-A	DUNTKA126WEP9	-	MAIN Unit	—
PWB-B	DUNTK9510WEK1	-	CRT Unit	—
PWB-H	DUNTK9310WEK0	-	FRONT AV Unit	—

## PWB-A: DUNTKA126WEP9 MAIN UNIT

### TUNER

**NOTE: THE PARTS HERES SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY.**

▲ TU51	VTU115B8035AH	M	Tuner	AU
	or			
	VTUVTST5UF78S			

### INTEGRATED CIRCUITS

▲▲ IC101	VHiKA78S05P-1	J	KA78S05P	AD
▲ IC201	RH-iX3253CEZZ	J	TA1268AN	AV
▲ IC352	VHiAN7511//-1	J	I.C.	AK
▲ IC501	VHiTA8403K/-1	J	TA8403K	AL
▲ IC701	VHiSTRF66261E	J	STR-F6626	AX
▲ IC702	RH-FX0034CEZZ	J	PC817	AE
	or			
	RH-FX0002GEZZ			
▲ IC703	VHiSE120N//1	J	SE120N	AG
▲ IC750	VHiKA7809Pi-1	M	KA7809PI	AE
▲ IC751	VHiKA7809Pi-1	M	KA7809PI	AE
▲ IC2001	RH-iX3366CEZZ	M	TMPA8700CPF-164	AT
▲ IC2040	VHiKA7045A-1	J	KIA7045A	AD
▲ IC2101	VHiM24C16B/-1	J	M24C16-BN6	AG

Ref. No.	Part No.	★	Description	Code
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## PWB-A: DUNTKA126WEP9

### MAIN UNIT (Continued)

#### TRANSISTORS

You can substitute "VS2SC2412-C-1" for "VS2SD601AR/-1".

Q201	VS2SC2735//1E	J	2SC2735	AC
Q401	VS2SD601AR/-1	J	2SD601AR	AC
Q402	VS2SB709AR/-1	J	2SB709AR	AC
	or			
	VS2SA1037KR-1			
Q403	VS2SD601AR/-1	J	2SD601AR	AC
Q421	VS2SB709AR/-1	J	2SB709AR	AC
	or			
	VS2SA1037KR-1			
Q451	VS2SB709AR/-1	J	2SB709AR	AC
	or			
	VS2SA1037KQ-1			
Q601	VS2SC2482//1	J	2SC2482	AD
△ Q602	VS2SD2539//1E	J	2SD2539	AP
Q751	VS2SC3198-Y-1	J	2SC3198 (Y)	AA
Q2060	VS2SD601AR/-1	J	2SD601AR	AC
Q2201	VS2SD601AR/-1	J	2SD601AR	AC
Q2211	VS2SD601AR/-1	J	2SD601AR	AC

#### DIODES

You can substitute "RH-DX0475CEZZ" for "VHD1SS119//1".

D51	RH-EX0611GEZZ	J	Zener Diode, 5.1V	AA
D52	RH-EX0673GEZZ	J	Zener Diode, 32V	AB
D53	RH-EX0611GEZZ	J	Zener Diode, 5.1V	AA
D401	VHD1SS119//1	J	Diode	AB
D402	RH-EX0604GEZZ	J	Zener Diode, 3.9V	AB
D454	RH-EX0611GEZZ	J	Zener Diode, 5.1V	AA
D455	VHD1SS119//1	J	Diode	AB
D456	VHD1SS119//1	J	Diode	AB
D457	RH-EX0217CEZZ	J	Zener Diode	AB
D458	RH-EX0217CEZZ	J	Zener Diode	AB
D459	VHD1SS119//1	J	Diode	AB
△ D501	RH-DX0131CEZZ	J	Diode	AC
△ D510	RH-DX0441CEZZ	J	Diode	AC
D621	RH-EX0631GEZZ	J	Zener Diode, 9.1V	AA
△ D622	RH-DX0131CEZZ	J	Diode	AC
▲ D651	RH-DX0131CEZZ	J	Diode	AC
▲ D652	RH-EX1313CEZZ	M	Zener Diode, 9.1V	AB
▲ D653	VHD1SS119//1	J	Diode	AB
▲ D654	VHD1SS119//1	J	Diode	AB
△ D701	RH-DX0154CEZZ	J	Diode	AC
△ D702	RH-DX0154CEZZ	J	Diode	AC
△ D703	RH-DX0154CEZZ	J	Diode	AC
△ D704	RH-DX0154CEZZ	J	Diode	AC
D705	VHD1SS82///1A	J	Diode	AC
D706	RH-DX0066GEZZ	J	Diode	AB
D707	VHD1SS82///1A	J	Diode	AC
D708	RH-DX0066GEZZ	J	Diode	AB
△ D709	RH-DX0229CEZZ	J	Diode	AF
△ D712	RH-DX0407CEZZ	J	Diode	AD
△ D713	RH-EX0673GEZZ	J	Zener Diode, 32V	AB
△ D715	RH-EX0610GEZZ	J	Zener Diode	AA
D716	VHD1SS119//1	J	Diode	AB
D717	RH-EX0650GEZZ	J	Zener Diode, 16V	AB
△ D725	RH-DX0407CEZZ	J	Diode	AD
△ D751	RH-DX0441CEZZ	J	Diode	AC
△ D752	RH-DX0441CEZZ	J	Diode	AC
△ D753	RH-DX0441CEZZ	J	Diode	AC
△ D754	RH-DX0441CEZZ	J	Diode	AC
D755	VHD1SS119//1	J	Diode	AB
△ D756	RH-DX0441CEZZ	J	Diode	AC
D2001	VHD1SS119//1	J	Diode	AB

Ref. No.	Part No.	★	Description	Code
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#### PACKAGED CIRCUITS

△ PR701	RMPTP0092CEZZ	J	Packaged Circuit	AH
X801	RCRSB0205CEZZ	J	Crystal	AF
	or			
	RCRSB0001PEZZ			

#### FILTERS

CF301	RFiLC0029TAZZ	J	Ceramic Filter	AD
CF401	RFiLC0013CEZZ	J	Ceramic Filter	AE
CF631	RFiLA0034CEZZ	J	Ceramic Filter	AD
CF2040	RFiLC0121GEZZ	J	Ceramic Filter	AD
	or			
	RFiLA0099CEZZ			
SF201	RFiLC0405CEZZ	J	SAW Filter	AH

#### COILS

L201	VP-XF1R2K0000	J	Peaking 1.2μH	AB
L202	RCiLi0588CEZZ	J	VCO Coil	AF
L301	VP-XF8R2K0000	J	Peaking 8.2μH	AB
L302	RCiLi0613CEZZ	J	IF Coil	AE
	or			
	RCiLi0605CEZZ			
L401	VP-XF6R8K0000	J	Peaking 6.8μH	AB
L402	VP-XF3R3K0000	J	Peaking 3.3μH	AB
L403	VP-XF8R2K0000	J	Peaking 8.2μH	AB
L404	VP-XF8R2K0000	J	Peaking 8.2μH	AB
L421	VP-XF680K0000	J	Peaking 68μH	AB
L672	RCiLZ0101MEZZ	M	Coil	AE
	or			
	RCiLZ0102MEZZ			
△ L701	RCiLF0025PEZZ	M	Coil	AK
△ L702	RCiLF0025PEZZ	M	Coil	AK
△ L705	RCiLP0179CEZZ	J	Coil	AD
L729	RCiLP0179CEZZ	J	Coil	AD
L2040	RCiLB0131CEZZ	J	Oscillation Coil	AE

#### TRANSFORMERS

T601	RTRNZ0057PEZZ	R	Transformer	AK
▲ T602	RTRNF0037MEZZ	M	H-Volt Transformer	AY
	or			
	RTRNF0033MEZZ			
△ T701	RTRNP0543CEZZ	J	Power Transformer	AM
△ T702	RTRNZ0017MEZZ	M	Transformer	AM
	or			
	RTRNZ0022MEZZ			

#### CAPACITORS

[EL... Electrolytic, M-Poly... Metalized Polyprop Film]

C51	VCEA0A1CW476M	J	47	16V	EL.	AB
C53	VCEA0A1HW105M	J	1	50V	EL.	AB
C54	VCEA0A1HW475M	J	4.7	50V	EL.	AB

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTKA126WEP9</b>									
<b>MAIN UNIT (Continued)</b>									
C55	VCEA0A1CW108M	J	1000 16V	EL. AD	△ C623	VCEA4A2EN106M	J	10 250V	EL. AD
C56	VCKYCY1CB104K	J	0.1 16V	Ceramic AB	C631	VCEA0A1HW335M	J	3.3 50V	EL. AB
C103	VCEA0A1CW107M	J	100 16V	EL. AC	C632	VCQYTA1HM103K	J	0.01 50V	Mylar AB
C201	VCKYMN1HB102K	J	1000p 50V	Ceramic AA	C633	VCEA0A1CW477M	J	470 16V	EL. AC
C202	VCKYCY1HF103Z	J	0.01 50V	Ceramic AA	C652	VCEA0A1HW106M	J	10 50V	EL. AB
C203	VCKYCY1HB102K	J	1000p 50V	Ceramic AA	C653	VCEA0A1HW106M	J	10 50V	EL. AB
C204	VCKYCY1HF103Z	J	0.01 50V	Ceramic AA	C680	VCFPVC2DB564J	J	0.56 200V	M-Poly. AF
C205	VCEA0A1HW474M	J	0.47 50V	EL. AB	C682	VCKYPA2HB331K	J	330p 500V	Ceramic AA
C206	VCEA0A1CW337M	J	330 16V	EL. AC	△ C701	RC-FZ012SCEZZ	J	0.22 AC250V	Plastic AD
C207	VCKYCY1HF103Z	J	0.01 50V	Ceramic AA		or			
C208	VCEA0A1HW474M	J	0.47 50V	EL. AB		RC-FZ012SGEZZ			
C209	VCKYCY1HB222K	J	2200p 50V	Ceramic AA		or			
C210	VCKYCY1HB102K	J	1000p 50V	Ceramic AA		RC-FZ037SCEZZ			
C301	VCCCCY1HH330J	J	33p 50V	Ceramic AA		or			
C302	VCCCCY1HH151J	J	150p 50V	Ceramic AA		RC-FZ017SCEZZ			
C303	VCKYCY1HB472K	J	4700p 50V	Ceramic AA	C702	RC-KZ0029CEZZ	J	0.01 AC250V	Ceramic AC
C304	VCEA0A1HW225M	J	2.2 50V	EL. AB	C703	RC-KZ0029CEZZ	J	0.01 AC250V	Ceramic AC
C307	VCCCCY1HH1R5C	J	1.5p 50V	Ceramic AD	△ C705	RC-EZ0800CEZZ	J	560 200V	EL. AQ
C308	VCKYCY1HB102K	J	1000p 50V	Ceramic AA		or			
C309	VCEA0A1CW337M	J	330 16V	EL. AC		RC-EZ0719CEZZ			
C313	VCEA0A1CW476M	J	47 16V	EL. AB		or			
C355	VCKYCY1HB332K	J	3300p 50V	Ceramic AA	△ C706	RC-KZ0092GEZZ	J	0.0033 AC250V	Ceramic AC
C356	VCEA0A1HW106M	J	10 50V	EL. AB	C707	VCFPVC3CA222H	J	2200p 1.6kV	M-Poly. AE
C358	VCEA0A1CW477M	J	470 16V	EL. AC	C708	VCCSPA1HL471J	J	470p 50V	Ceramic AA
C359	VCEA0A1HW106M	J	10 50V	EL. AB	C709	VCEA0A1VW107M	J	100 35V	EL. AC
C401	VCKYCY1HB331K	J	330p 50V	Ceramic AA	C710	VCQYTA1HM102J	J	1000p 50V	Mylar AA
C402	VCCCCY1HH101J	J	100p 50V	Ceramic AA	C717	VCKYPA2HB472K	J	4700p 500V	Ceramic AB
C403	VCKYCY1CB104K	J	0.1 16V	Ceramic AB	C718	VCKYPA2HB472K	J	4700p 500V	Ceramic AB
C404	VCEA0A1HW106M	J	10 50V	EL. AB	C722	VCQYTA1HM104K	J	0.1 50V	Mylar AC
C405	VCEA0A1HW335M	J	3.3 50V	EL. AB	△ C723	RC-EZ0724CEZZ	J	100 160V	EL. AG
C406	VCEA0A1HW225M	J	2.2 50V	EL. AB	△ C725	RC-EZ0809CEZZ	J	220 160V	EL. AL
C408	VCEA0A1HW106M	J	10 50V	EL. AB	C726	RC-KZ0338CEZZ	J	560p 2kV	Ceramic AD
C409	VCEA0A1HW105M	J	1 50V	EL. AB	C727	RC-KZ0338CEZZ	J	560p 2kV	Ceramic AD
C410	VCQYTA1HM104K	J	0.1 50V	Mylar AC	C729	VCEA0A1CW106M	J	10 16V	EL. AB
C411	VCEA0A1CW337M	J	330 16V	EL. AC	△ C730	RC-EZ0385CEZZ	J	1000 16V	EL. AE
C412	VCKYCY1HB103K	J	0.01 50V	Ceramic AA	△ C731	RC-EZ0385CEZZ	J	1000 16V	EL. AE
C413	VCKYCY1HB103K	J	0.01 50V	Ceramic AA	C732	VCKYPA2HB102K	J	1000p 500V	Ceramic AA
C414	VCKYCY1CB104K	J	0.1 16V	Ceramic AB	C741	VCKYPA2HB102K	J	1000p 500V	Ceramic AA
C421	VCCCCY1HH330J	J	33p 50V	Ceramic AA	C742	VCKYPA2HB102K	J	1000p 500V	Ceramic AA
C422	VCEA0A1CW476M	J	47 16V	EL. AB	C753	VCEA0A1CW107M	J	100 16V	EL. AC
C451	VCQYTA1HM104K	J	0.1 50V	Mylar AC	C755	VCEA0A1CW476M	J	47 16V	EL. AB
C452	VCEA0A1HW475M	J	4.7 50V	EL. AB	C772	VCEA0A1VW477M	J	470 35V	EL. AB
C453	VCEA0A1CW226M	J	22 16V	EL. AB	C801	VCQYTA1HM223K	J	0.022 50V	Mylar AB
C501	VCKYPA2HB102K	J	1000p 500V	Ceramic AA	C802	VCEA0A1HW474M	J	0.47 50V	EL. AB
C502	VCEA0A1VW108M	J	1000 35V	EL. AD	C803	VCCCCY1HH110J	J	11p 50V	Ceramic AA
C510	VCFYS1JB564J	M	0.56 63V	Mylar AB	C804	VCKYCY1CB104K	J	0.1 16V	Ceramic AB
C511	VCKYPA2HB391K	J	390p 500V	Ceramic AA	C805	VCKYCY1CB104K	J	0.1 16V	Ceramic AB
C512	VCQYTA1HM473K	J	0.047 50V	Mylar AB	C806	VCKYCY1CB104K	J	0.1 16V	Ceramic AB
C513	VCQYTA1HM103K	J	0.01 50V	Mylar AB	C807	VCCCCY1HH221J	J	220p 50V	Ceramic AA
C514	VCEA0A1VW107M	J	100 35V	EL. AC	C808	VCKYCY1HB102K	J	1000p 50V	Ceramic AA
C515	VCEA0A1HW105M	J	1 50V	EL. AB	C909	VCEA0A1HW225M	J	2.2 50V	EL. AB
C516	VCEACA1HC105K	J	1 50V	EL. AC	C2001	VCCCCY1HH101J	J	100p 50V	Ceramic AA
C517	VCEA0A1VW108M	J	1000 35V	EL. AD	C2002	VCCCCY1HH101J	J	100p 50V	Ceramic AA
C518	VCFYS1JB473J	M	0.047 63V	Mylar AA	C2040	VCEA0A1AW107M	J	100 10V	EL. AB
C551	VCSATA1CE225K	J	2.2 16V	Tantalum AB	C2041	VCEA0A1HW105M	J	1 50V	EL. AB
C552	VCEA0A1HW225M	J	2.2 50V	EL. AB	C2060	VCKYCY1CB104K	J	0.1 16V	Ceramic AB
C606	VCKYPA2HB561K	J	560p 500V	Ceramic AA	C2061	VCCCCY1HH101J	J	100p 50V	Ceramic AA
C607	VCKYPA1HB472K	J	4700p 50V	Ceramic AA	C2062	VCEA0A1AW107M	J	100 10V	EL. AB
▲ △ C610	VCFPVC3CA722H	J	7200p 1.6kV	M-Poly. AF	C2201	VCKYCY1HB681K	J	680p 50V	Ceramic AA
▲ △ C611	VCFPVC3CA722H	J	7200p 1.6kV	M-Poly. AF	C2202	VCCCCY1HH390J	J	39p 50V	Ceramic AA
C615	VCKYPA2HB102K	J	1000p 500V	Ceramic AA	C2601	VCEA0A1HW475M	J	4.7 50V	EL. AB
					C2602	VCCCCY1HH101J	J	100p 50V	Ceramic AA



Ref. No.	Part No.	★	Description	Code
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## PWB-A: DUNTKA126WEP9 MAIN UNIT (Continued)

### RESISTORS

*[M-Ox... Metal Oxide, M-Film... Metal Film]*

RJ1	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ5	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ6	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ10	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ11	VRS-CY1JF000J	J 0	1/16W	M-Ox.	AA
RJ12	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ13	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ15	VRS-CY1JF000J	J 0	1/16W	M-Ox.	AA
RJ17	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ18	VRS-CY1JF000J	J 0	1/16W	M-Ox.	AA
RJ19	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ20	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ21	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ22	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ25	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ26	VRS-CY1JF000J	J 0	1/16W	M-Ox.	AA
RJ28	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ29	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ30	VRS-CY1JF000J	J 0	1/16W	M-Ox.	AA
RJ31	VRS-CY1JF000J	J 0	1/16W	M-Ox.	AA
RJ33	VRS-CY1JF000J	J 0	1/16W	M-Ox.	AA
RJ35	VRS-CY1JF000J	J 0	1/16W	M-Ox.	AA
RJ36	VRS-CY1JF000J	J 0	1/16W	M-Ox.	AA
RJ37	VRS-CY1JF000J	J 0	1/16W	M-Ox.	AA
RJ38	VRS-CY1JF000J	J 0	1/16W	M-Ox.	AA
RJ39	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ40	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ41	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ42	VRS-CY1JF000J	J 0	1/16W	M-Ox.	AA
RJ43	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ46	VRS-CY1JF000J	J 0	1/16W	M-Ox.	AA
RJ48	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ49	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ50	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ51	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ52	VRS-CY1JF000J	J 0	1/16W	M-Ox.	AA
RJ54	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ55	VRS-CY1JF000J	J 0	1/16W	M-Ox.	AA
RJ57	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ58	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ60	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ61	VRS-CY1JF000J	J 0	1/16W	M-Ox.	AA
RJ63	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ64	VRD-MN2BE000J	J 0	1/8W	Carbon	AA
RJ67	VRS-CY1JF000J	J 0	1/16W	M-Ox.	AA
△ R51	VRS-RG3AB151J	M 150	1W	M-Ox.	AA
△ R52	VRS-RG3DB123J	J 12k	2W	M-Ox.	AA
△ R53	VRS-RG3AB470J	J 47	1W	M-Ox.	AA
R54	VRD-MN2BE101J	J 100	1/8W	Carbon	AA
R55	VRD-MN2BE101J	J 100	1/8W	Carbon	AA
R56	VRD-MN2BE823J	J 82k	1/8W	Carbon	AA
R57	VRD-MN2BE392J	J 3.9k	1/8W	Carbon	AA
R201	VRD-MN2BE151J	J 150	1/8W	Carbon	AA
R202	VRD-MN2BE122J	J 1.2k	1/8W	Carbon	AA
R203	VRD-MN2BE682J	J 6.8k	1/8W	Carbon	AA
R204	VRD-MN2BE270J	J 27	1/8W	Carbon	AA
R205	VRS-CY1JF331J	J 330	1/16W	M-Ox.	AA
R206	VRD-MN2BE121J	J 120	1/8W	Carbon	AA
R207	VRD-MN2BE4R7J	J 4.7	1/8W	Carbon	AA
R208	VRD-MN2BE331J	J 330	1/8W	Carbon	AA
R301	VRD-MN2BE222J	J 2.2k	1/8W	Carbon	AA
R302	VRS-CY1JF102J	J 1k	1/16W	M-Ox.	AA
R303	VRD-MN2BE153J	J 15k	1/8W	Carbon	AA
R355	VRD-MN2BE683J	J 68k	1/8W	Carbon	AA
R356	VRD-MN2BE103J	J 10k	1/8W	Carbon	AA
R357	VRD-MN2BE822J	J 8.2k	1/8W	Carbon	AA
R358	VRD-MN2BE223J	J 22k	1/8W	Carbon	AA
R401	VRS-CY1JF682J	J 6.8k	1/16W	M-Ox.	AA
R402	VRS-CY1JF331J	J 330	1/16W	M-Ox.	AA

Ref. No.	Part No.	★	Description	Code
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R403	VRS-CY1JF391J	J 390	1/16W	M-Ox.	AA
R404	VRD-MN2BE102J	J 1k	1/8W	Carbon	AA
R405	VRS-CY1JF470J	J 47	1/16W	M-Ox.	AA
R406	VRS-CY1JF680J	J 68	1/16W	M-Ox.	AA
R407	VRS-CY1JF102J	J 1k	1/16W	M-Ox.	AA
R408	VRS-CY1JF471J	J 470	1/16W	M-Ox.	AA
R409	VRD-MN2BE562J	J 5.6k	1/8W	Carbon	AA
R410	VRD-RA2BE124J	J 120k	1/8W	Carbon	AA
R411	VRD-MN2BE153J	J 15k	1/8W	Carbon	AA
R412	VRD-RA2BE561J	J 560	1/8W	Carbon	AA
R413	VRS-CY1JF101J	J 100	1/16W	M-Ox.	AA
R414	VRS-CY1JF101J	J 100	1/16W	M-Ox.	AA
R415	VRS-CY1JF101J	J 100	1/16W	M-Ox.	AA
R421	VRD-MN2BE152J	J 1.5k	1/8W	Carbon	AA
R422	VRS-CY1JF472J	J 4.7k	1/16W	M-Ox.	AA
R423	VRS-CY1JF152J	J 1.5k	1/16W	M-Ox.	AA
R424	VRS-CY1JF102J	J 1k	1/16W	M-Ox.	AA
△ R451	VRS-RG2HC103J	J 10k	1/2W	M-Ox.	AA
R452	VRD-RM2HD153J	J 15k	1/2W	Carbon	AA
R453	VRD-RA2EE683J	J 68k	1/4W	Carbon	AA
R454	VRD-MN2BE102J	J 1k	1/8W	Carbon	AA
R456	VRD-MN2BE682J	J 6.8k	1/8W	Carbon	AA
R458	VRD-MN2BE152J	J 1.5k	1/8W	Carbon	AA
△ R501	VRN-RL3ABR56J	J 0.56	1W	M-Film	AA
R510	VRD-MN2BE471J	J 470	1/8W	Carbon	AA
R511	VRD-RA2BE104G	J 100k	1/8W	Carbon	AA
R512	VRD-RA2BE124G	J 120k	1/8W	Carbon	AA
R513	VRD-RA2BE473J	J 47k	1/8W	Carbon	AA
R514	VRD-MN2BE101J	J 100	1/8W	Carbon	AA
R519	VRD-RA2BE123G	J 12k	1/8W	Carbon	AA
R520	VRD-MN2BE184J	J 180k	1/8W	Carbon	AA
R523	VRN-RL3AB1R0J	M 1	1W	M-Film	AA
△ R524	VRS-RG3AB391J	J 390	1W	M-Ox.	AA
R526	VRD-MN2BE332J	J 3.3k	1/8W	Carbon	AA
R551	VRS-CY1JF472J	J 4.7k	1/16W	M-Ox.	AA
R552	VRS-CY1JF102J	J 1k	1/16W	M-Ox.	AA
R553	VRD-MN2BE223J	J 22k	1/8W	Carbon	AA
R554	VRD-MN2BE184J	J 180k	1/8W	Carbon	AA
△ R604	VRS-RG3LB392J	M 3.9k	3W	M-Ox.	AB
R605	VRD-RA2BE331J	J 330	1/8W	Carbon	AA
R606	VRD-RA2BE331J	J 330	1/8W	Carbon	AA
△ R607	VRS-RG3LB392J	M 3.9k	3W	M-Ox.	AB
△ R609	VRS-RG3AB562J	M 5.6k	1W	M-Ox.	AA
R610	VRD-RM2HD220J	J 22	1/2W	Carbon	AA
△ R611	VRS-KA3NG3R3K	J 3.3	7W	M-Ox.	AD
△ R621	VRN-VV3DB1R2J	J 1.2	2W	M-Film	AA
△ R622	VRN-RL3ABR33J	M 0.33	1W	M-Film	AA
△ R623	VRN-RL3AB2R7J	M 2.7	1W	M-Film	AA
△ R624	VRS-RG3DB332J	M 3.3k	2W	M-Ox.	AA
R625	VRD-MN2BE102J	J 1k	1/8W	Carbon	AA
△ R626	VRN-RL3AB3R3J	M 3.3	1W	M-Film	AA
R627	VRD-RM2HD224J	J 220k	1/2W	Carbon	AA
R631	VRS-CY1JF391J	J 390	1/16W	M-Ox.	AA
R632	VRS-CY1JF152J	J 1.5k	1/16W	M-Ox.	AA
R633	VRD-MN2BE472J	J 4.7k	1/8W	Carbon	AA
R634	VRD-RA2BE4R7J	J 4.7	1/8W	Carbon	AA
▲▲ R651	VRS-RG2HC270J	M 27	1/2W	M-Ox.	AA
▲▲ R652	VRN-RA2BK103F	J 10k	1/8W	M-Film	AA
▲▲ R653	VRN-RA2BK822F	J 8.2k	1/8W	M-Film	AA
▲▲ R654	VRD-MN2BE184J	J 180k	1/8W	Carbon	AA
▲▲ R655	VRS-CY1JF104J	J 100k	1/16W	M-Ox.	AA
R690	VRS-RG2HC102J	J 1k	1/2W	M-Ox.	AA
△ R701	RR-HZ0048CEZZ	J 3.9M	1/2W	Solid	AB
△ R702	VRW-KQ3NC1R2K	J 1.2	7W	Cement	AE
R704	VRD-RM2HD154J	J 150k	1/2W	Carbon	AA
△ R705	VRN-RL3DBR22J	J 0.22	2W	M-Film	AA
△ R706	VRN-RL3DBR27J	M 0.27	2W	M-Film	AA
R707	VRS-RG2HC681J	J 680	1/2W	M-Ox.	AA
△ R709	VRN-GA2EB1R0J	J 1	1/4W	M-Film	AA
R710	VRD-RM2HD330J	J 33	1/2W	Carbon	AA
R711	VRD-RA2BE242J	J 2.4k	1/8W	Carbon	AA
△ R715	VRS-RG3DB153J	J 15k	2W	M-Ox.	AA
△ R723	VRN-RL3DBR39J	M 0.39	2W	M-Film	AA
R724	VRS-RG2HC332J	J 3.3k	1/2W	M-Ox.	AA
R725	VRS-RG2HC821J	M 820	1/2W	M-Ox.	AA
R727	VRD-RA2BE271J	J 270	1/8W	Carbon	AA

Ref. No.	Part No.	★	Description	Code	Ref. No.	Part No.	★	Description	Code
<b>PWB-A: DUNTKA126WEP9</b>									
<b>MAIN UNIT (Continued)</b>									
△ R728	VRS-RG3DB120J	M	12 2W	M-Ox.	AA				
R734	VRD-RM2HD124J	J	120k 1/2W	Carbon	AA				
△ R737	VRN-RL3DBR56J	M	0.56 2W	M-Film	AA				
R751	VRD-MN2BE473J	J	47k 1/8W	Carbon	AA				
R801	VRD-MN2BE332J	J	3.3k 1/8W	Carbon	AA				
R802	VRS-CY1JF332J	J	3.3k 1/16W	M-Ox.	AA				
R803	VRS-CY1JF222J	J	2.2k 1/16W	M-Ox.	AA				
R804	VRS-CY1JF222J	J	2.2k 1/16W	M-Ox.	AA				
R805	VRS-CY1JF222J	J	2.2k 1/16W	M-Ox.	AA				
R806	VRS-CY1JF333J	J	33k 1/16W	M-Ox.	AA				
R807	VRS-CY1JF152J	J	1.5k 1/16W	M-Ox.	AA				
R808	VRD-RA2BE102J	J	1k 1/8W	Carbon	AA				
R961	VRD-RA2BE101J	J	100 1/8W	Carbon	AB				
R962	VRD-RA2BE101J	J	100 1/8W	Carbon	AB				
R2001	VRD-RA2BE562J	J	5.6k 1/8W	Carbon	AA				
R2002	VRD-MN2BE103J	J	10k 1/8W	Carbon	AA				
R2004	VRD-MN2BE101J	J	100 1/8W	Carbon	AA				
R2006	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA				
R2007	VRS-CY1JF223J	J	22k 1/16W	M-Ox.	AA				
R2008	VRD-MN2BE333J	J	33k 1/8W	Carbon	AA				
R2009	VRD-RA2BE102J	J	1k 1/8W	Carbon	AA				
R2010	VRD-MN2BE102J	J	1k 1/8W	Carbon	AA				
R2011	VRD-RA2BE561J	J	560 1/8W	Carbon	AA				
R2012	VRS-CY1JF561J	J	560 1/16W	M-Ox.	AA				
R2016	VRS-CY1JF223J	J	22k 1/16W	M-Ox.	AA				
R2020	VRS-CY1JF223J	J	22k 1/16W	M-Ox.	AA				
R2023	VRS-CY1JF223J	J	22k 1/16W	M-Ox.	AA				
R2024	VRD-RA2BE682J	J	6.8k 1/8W	Carbon	AA				
R2025	VRD-RA2BE682J	J	6.8k 1/8W	Carbon	AA				
R2026	VRD-RA2BE682J	J	6.8k 1/8W	Carbon	AA				
R2027	VRD-MN2BE682J	J	6.8k 1/8W	Carbon	AA				
R2028	VRD-MN2BE102J	J	1k 1/8W	Carbon	AA				
R2029	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA				
R2032	VRD-RA2BE103J	J	10k 1/8W	Carbon	AA				
R2035	VRD-MN2BE223J	J	22k 1/8W	Carbon	AA				
R2040	VRD-MN2BE102J	J	1k 1/8W	Carbon	AA				
R2041	VRD-MN2BE333J	J	33k 1/8W	Carbon	AA				
R2042	VRD-MN2BE101J	J	100 1/8W	Carbon	AA				
R2043	VRS-CY1JF333J	J	33k 1/16W	M-Ox.	AA				
R2044	VRD-MN2BE682J	J	6.8k 1/8W	Carbon	AA				
R2045	VRD-MN2BE101J	J	100 1/8W	Carbon	AA				
R2046	VRD-RA2BE101J	J	100 1/8W	Carbon	AB				
R2047	VRS-CY1JF221J	J	220 1/16W	M-Ox.	AA				
R2048	VRS-CY1JF562J	J	5.6k 1/16W	M-Ox.	AA				
R2060	VRD-MN2BE221J	J	220 1/8W	Carbon	AA				
R2061	VRD-MN2BE562J	J	5.6k 1/8W	Carbon	AA				
R2062	VRD-MN2BE183J	J	18k 1/8W	Carbon	AA				
R2063	VRD-MN2BE222J	J	2.2k 1/8W	Carbon	AA				
R2064	VRD-RA2BE332J	J	3.3k 1/8W	Carbon	AA				
R2066	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA				
R2067	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA				
R2068	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA				
R2070	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA				
R2101	VRS-CY1JF101J	J	100 1/16W	M-Ox.	AA				
R2102	VRS-CY1JF101J	J	100 1/16W	M-Ox.	AA				
R2201	VRD-MN2BE222J	J	2.2k 1/8W	Carbon	AA				
R2202	VRS-CY1JF103J	J	10k 1/16W	M-Ox.	AA				
R2203	VRS-CY1JF184J	J	180k 1/16W	M-Ox.	AA				
R2211	VRD-MN2BE222J	J	2.2k 1/8W	Carbon	AA				
R2212	VRS-CY1JF682J	J	6.8k 1/16W	M-Ox.	AA				
R2213	VRS-CY1JF333J	J	33k 1/16W	M-Ox.	AA				
R2401	VRS-CY1JF101J	J	100 1/16W	M-Ox.	AA				
R2402	VRS-CY1JF101J	J	100 1/16W	M-Ox.	AA				
R2403	VRD-MN2BE101J	J	100 1/8W	Carbon	AA				
R2404	VRD-MN2BE101J	J	100 1/8W	Carbon	AA				
R2501	VRD-MN2BE103J	J	10k 1/8W	Carbon	AA				
R2503	VRD-MN2BE273J	J	27k 1/8W	Carbon	AA				
R2504	VRD-MN2BE123J	J	12k 1/8W	Carbon	AA				
R2505	VRD-MN2BE563J	J	56k 1/8W	Carbon	AA				
R2506	VRD-MN2BE563J	J	56k 1/8W	Carbon	AA				
R2507	VRD-MN2BE823J	J	82k 1/8W	Carbon	AA				
R2508	VRD-MN2BE153J	J	15k 1/8W	Carbon	AA				
R2509	VRD-MN2BE272J	J	2.7k 1/8W	Carbon	AA				
R2601	VRD-RA2BE331J	J	330 1/8W	Carbon	AA				
R3012	VRS-CY1JF102J	J	1k 1/16W	M-Ox.	AA				
R3014	VRD-MN2BE104J	J	100k 1/8W	Carbon	AA				
R3015	VRD-RA2BE101J	J	100 1/8W	Carbon	AB				
R3016	VRD-MN2BE750J	J	75 1/8W	Carbon	AA				
<b>SWITCHES</b>									
S2501	QSW-K0079GEZZ	J	Power		AB				
	or								
S2502	QSW-K0202PEZZ	J	VOL-Down		AB				
	or								
S2503	QSW-K0079GEZZ	J	VOL-Up		AB				
	or								
S2504	QSW-K0079GEZZ	J	CH-Down		AB				
	or								
S2505	QSW-K0079GEZZ	J	CH-Up		AB				
	or								
	QSW-K0202PEZZ								
<b>MISCELLANEOUS PARTS</b>									
△ RY701	RRLYJ0081CEZZ	J	Relay		AL				
	or								
	RRLYJ0088CEZZ								
	or								
	RRLYJ0094CEZZ								
△ F701	QFS-B4023CEZZ	J	Fuse 4A 125V		AC				
	or								
	QFS-B4021GEZZ								
FB601	RBLN-0047CEZZ	J	Ferrite Bead		AB				
FB702	RBLN-0036CEZZ	J	Ferrite Bead		AB				
FB704	RBLN-0037CEZZ	J	Ferrite Bead		AB				
FB706	RBLN-0037CEZZ	J	Ferrite Bead		AB				
FH701	QFSDH1013CEZZ	J	Fuse Holder		AC				
FH702	QFSDH1014CEZZ	J	Fuse Holder		AC				
P351	QPLGN0361CEZZ	J	Plug, 3-pin (S)		AB				
P601	QPLGN0160FJZZ	J	Plug, 5-pin (K)		AD				
P621	QPLGN0461CEZZ	J	Plug, 4-pin (YBN)		AB				
P651	QPLGN0361CEZZ	J	Plug, 3-pin		AB				
P701	QPLGN0207CEZZ	J	Plug, 2-pin (M)		AA				
P703	QPLGN0269GEZZ	J	Plug, 2-pin (P)		AB				
P901	QPLGN0561CEZZ	J	Plug, 5-pin (HA)		AB				
P903	QPLGN0561CEZZ	J	Plug, 5-pin (GBN)		AB				
P2401	QPLGN0561CEZZ	J	Plug, 5-pin		AB				
RMC2601	RRMCU0235CEZZ	J	R/C Receiver		AK				
RDA501	PRDAR0234PEFW	R	Heat Sink, for IC501		AH				
RDA604	PRDAR0233PEFW	R	Heat Sink, for Q602		AK				
RDA701	PRDAR1008MEFW	M	Heat Sink, for IC701		AH				
RDA751	PRDAR5072CEFW	J	Heat Sink, for IC751		AC				
	LX-BZ3049GEFD	J	Screw		AA				
	LX-HZ3007MEFD	M	Screw		AA				

Ref. No.	Part No.	★	Description	Code
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## PWB-B: DUNTK9510WEK1 CRT UNIT

### TRANSISTORS

Q851	VS2SC3198-Y-1	J	2SC3198	AA
Q852	VS2SC3789//2E	M	2SC3789	AA
	or			
	VS2SC3619LB1E			
Q853	VS2SC3198-Y-1	J	2SC3198	AA
Q854	VS2SC3789//2E	M	2SC3789	AA
	or			
	VS2SC3619LB1E			
Q855	VS2SC3198-Y-1	J	2SC3198	AA
Q856	VS2SC3789//2E	M	2SC3789	AA
	or			
	VS2SC3619LB1E			
Q881	VS2SA1266-Y-1	J	2SA1266	AA

### DIODES

You can substitute "RH-DX0475CEZZ" for "VHD1SS119//-1".

D881	VHD1SS119//-1	J	Diode	AB
D882	VHD1SS119//-1	J	Diode	AB
D884	VHD1SS119//-1	J	Diode	AB

### COIL

L851	VP-MK820K0000	J	Peaking 82μH	AB
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### CAPACITORS

[EL... Electrolytic]

C851	VCCSPA1HL391J	J	390p 50V	Ceramic	AA
C852	VCCSPA1HL331J	J	330p 50V	Ceramic	AA
C853	VCCSPA1HL391J	J	390p 50V	Ceramic	AA
C854	RC-KZ0024CEZZ	J	0.001 2kV	Ceramic	AC
	or				
	VCKYPB3DE472Z		0.0047 2kV	Ceramic	
C883	VCEA0A1HW106M	J	10 50V	EL.	AB

### RESISTORS

[M-Ox... Metal Oxide]

R851	VRD-RA2BE470J	J	47 1/8W	Carbon	AA
R852	VRD-RA2BE181J	J	180 1/8W	Carbon	AA
R853	VRD-RA2BE121J	J	120 1/8W	Carbon	AA
R855	VRD-RA2BE471J	J	470 1/8W	Carbon	AA
R856	VRD-RA2BE221J	J	220 1/8W	Carbon	AA
△ R857	VRS-VV3LB123J	J	12k 3W	M-Ox.	AB
R858	VRD-RM2HD222J	J	2.2k 1/2W	Carbon	AA
R859	VRD-RA2BE470J	J	47 1/8W	Carbon	AA
R860	VRD-RA2BE181J	J	180 1/8W	Carbon	AA
R861	VRD-RA2BE121J	J	120 1/8W	Carbon	AA
R863	VRD-RA2BE471J	J	470 1/8W	Carbon	AA
R864	VRD-RA2BE221J	J	220 1/8W	Carbon	AA
△ R865	VRS-VV3LB123J	J	12k 3W	M-Ox.	AB
R866	VRD-RM2HD222J	J	2.2k 1/2W	Carbon	AA
R867	VRD-RA2BE470J	J	47 1/8W	Carbon	AA
R868	VRD-RA2BE181J	J	180 1/8W	Carbon	AA
R869	VRD-RA2BE121J	J	120 1/8W	Carbon	AA
R871	VRD-RA2BE471J	J	470 1/8W	Carbon	AA
R872	VRD-RA2BE221J	J	220 1/8W	Carbon	AA
△ R873	VRS-VV3LB123J	J	12k 3W	M-Ox.	AB
R874	VRD-RM2HD222J	J	2.2k 1/2W	Carbon	AA
R881	VRD-RA2BE102J	J	1k 1/8W	Carbon	AA
R882	VRD-RA2BE331J	J	330 1/8W	Carbon	AA
R883	VRD-RA2BE561J	J	560 1/8W	Carbon	AA
R884	VRD-RA2BE152J	J	1.5k 1/8W	Carbon	AA
R895	VRD-RA2BE470J	J	47 1/8W	Carbon	AA

### MISCELLANEOUS PARTS

P851	QPLGN0541CEZZ	J	Plug, 5-pin(GBN)	AB
P852	QPLGN0441CEZZ	J	Plug, 4-pin(YBN)	AB
SC851	QSOCV0937CEZZ	M	CRT Socket	AF

Ref. No.	Part No.	★	Description	Code
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## PWB-H: DUNTK9310WEK0 FRONT AV UNIT

### MISCELLANEOUS PARTS

J1001	QJAKE0053GEZZ	J	Jack, Video in	AD
J1003	QJAKE0055GEZZ	J	Jack, Audio in	AD
P1001	QPLGN0541CEZZ	J	Plug, 5-pin (HA)	AB

### MISCELLANEOUS PARTS

ACC701	QACCD3070CESA	M	AC Cord	AH
	QCNW-0133MEZZ	M	Connecting Cord	AC
	QCNW-0135MEZZ	M	Connecting Cord	AF
	QCNW-0166MEZZ	M	Connecting Cord	AD
	QCNW-0167MEZZ	M	Connecting Cord	AC
SP1	VSP0080PBL4YS	M	Speaker, 32 ohm	AG
	or			
	VSP0080PBK9YA			

### SUPPLIED ACCESORRIES

TINS-7600GJZZ	M	Operation Manual	AD
RRMCG1324CESA	M	Infrared R/C Unit	AQ

### PACKING PARTS

#### (NOT REPLACEMENT ITEM)

SPAKC0147GJZZ	-	Packing Case	—
SPAKX0120GJZZ	-	Buffer Material	—
SSAKA0101GJZZ	-	Polyethylene Bag	—
SPAKP0108GJZZ	-	Polyethylene Sheet	—

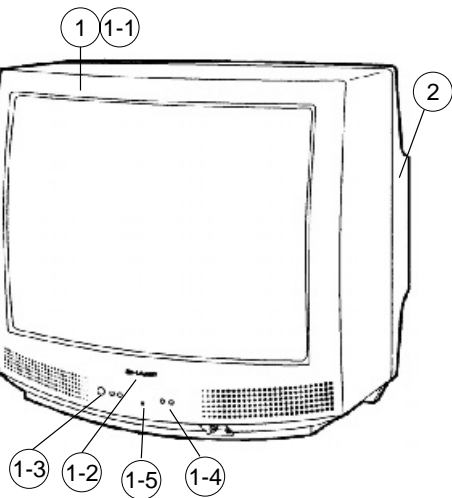


Ref. No.	Part No.	★	Description	Code
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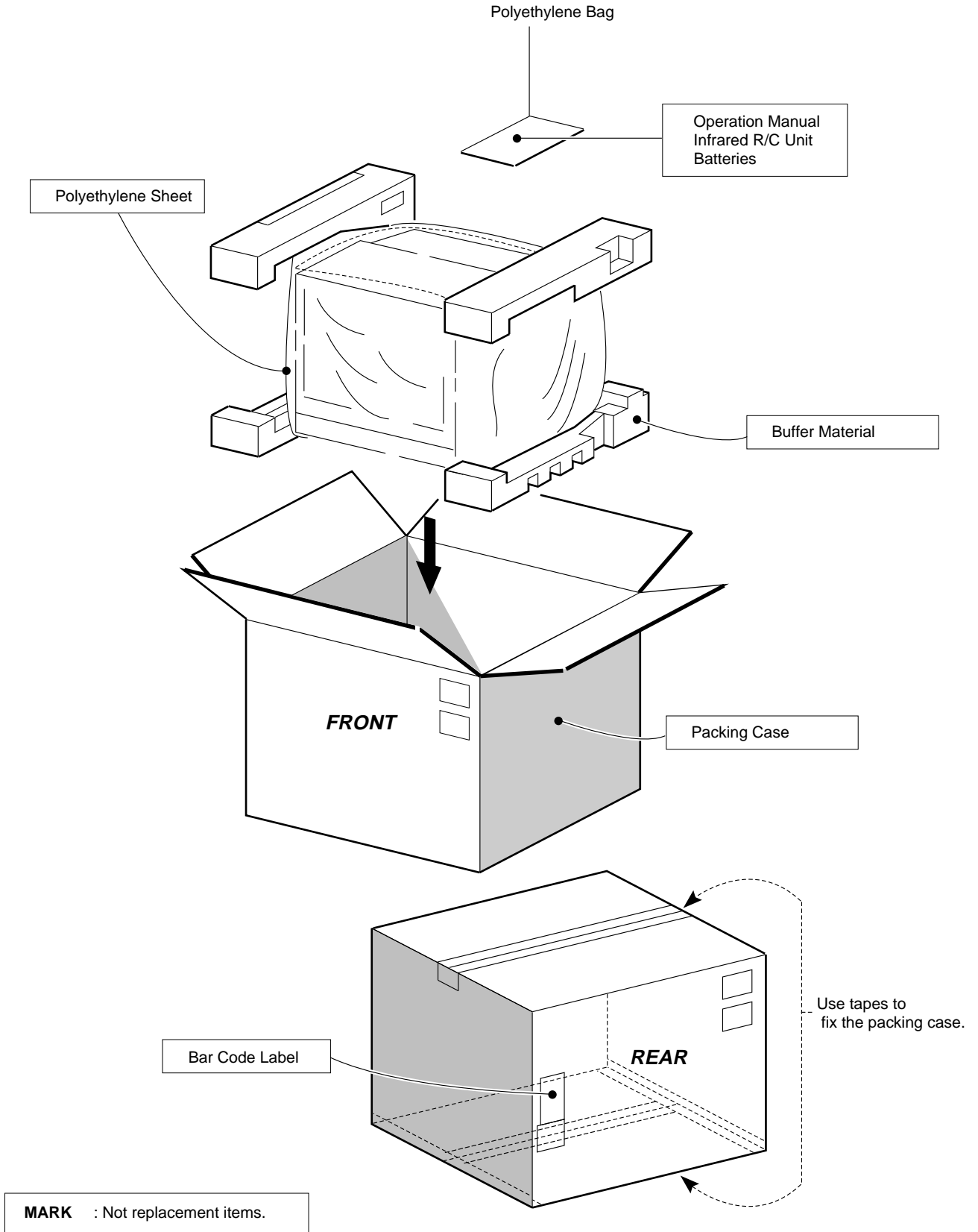
## CABINET PARTS

1	CCABA0116WEH2	M	Front Cabinet Ass'y	BE
1-1	<i>Not Available</i>	-	Front Cabinet	-
1-2	HBDGB1008MESB	M	Badge, "SHARP"	AA
1-3	JBTN-0108MEKA	M	Button, Power, Vol-up/down	AD
1-4	JBTN-0107MEKA	M	Button, CH-up/down	AD
1-5	GCOVA0108GJKA	M	Cover for R/C	AD
2	GCABB0108GJKA	M	Rear Cabinet	AZ

## CABINET PARTS LOCATION



# PACKING OF THE SET



# SHARP

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