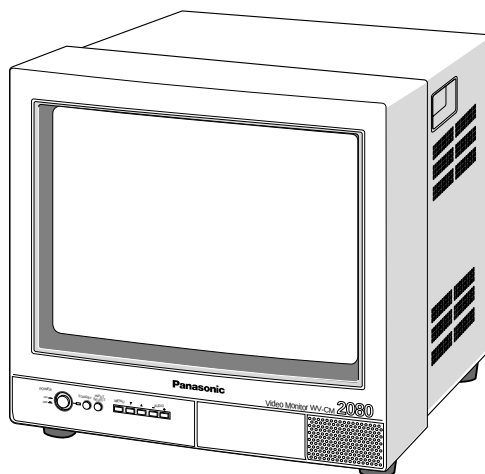


Service Manual

Color Monitor

WV-CM1480/WV-CM1780/WV-CM2080



SPECIFICATIONS

Power Source :	120 V AC, 60 Hz
Power Consumption :	WV-CM2080: 90 W WV-CM1780: 73 W WV-CM1480: 70 W
Screen Size :	WV-CM2080: 548 mm (21-9/16") diagonal tube size 508 mm (20") viewable size WV-CM1780: 444 mm (17-1/2") diagonal tube size 406 mm (16") viewable size WV-CM1480: 394 mm (15-1/2") diagonal tube size 356 mm (14") viewable size
Horizontal Resolution :	WV-CM2080: More than 500 TV lines at center WV-CM1780: More than 800 TV lines at center WV-CM1480: More than 750 TV lines at center
S-video Input :	Y: 1.0 V[p-p]/75 Ω , C: 0.286 V[p-p]/75 Ω , Mini DIN jack
Video Input :	1.0 V[p-p] composite/75 Ω , BNC (x2)
Video Output :	Looped through input with Auto Termination, BNC (x2)
Audio Input :	-8 dB/Hi-Z, RCA pin-jack (x2)
Audio output :	Looped through input, RCA pin-jack (x2)
Horizontal Scanning Frequency :	15.734 kHz
Vertical Scanning Frequency :	60 Hz
Sweep Linearity :	Horizontal: Less than 5 % Vertical: Less than 5 %
Sweep Distortion :	Less than 2 %
Speaker Output :	0.7 W
Data Port :	6-conductor Modular Jack (x2)
Standby On/Off Terminal :	1 circuit
Ambient Operating Humidity :	Less than 90 %
Ambient Operating Temperature :	-10°C - +50°C (14°F - 122°F)

Panasonic®

©2001 Matsushita Communication Industrial Co., Ltd.
All rights reserved. Unauthorized copying and
distribution is a violation of law.

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public.

It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.

Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN 		This symbol warns the user that uninsulated voltage within the unit may have sufficient magnitude to cause electric shock. Therefore, it is dangerous to make any kind of contact with any inside part of this unit.
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		This symbol alerts the user that important literature concerning the operation and maintenance of this has been included. Therefore, it should be read carefully in order to avoid any problems.

IMPORTANT SAFETY NOTICE

There are special components used in this equipment which are important for safety. These parts are indicated by the "△" mark on the schematic diagram and the replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-radiation, shock, fire, or other hazards. Do not modify the original design without permission of manufacture.

Dimensions :

WV-CM2080: 482 (W) mm x 443 (H) mm x 476 mm (D) [19" (W) x 17-7/16" (H) x 18-3/4" (D)]

WV-CM1780: 406 mm (W) x 354 mm (H) x 426 mm (D) [16" x 13-15/16" x 16-13/16"]

WV-CM1480: 370 mm (W) x 352 mm (W) x 399 mm (D) [14-9/16" x 13-7/8" x 15-11/16"]

Weight :

WV-CM2080: 26.0 kg (57.3 lbs)

WV-CM1780: 18.5 kg (40.8 lbs.)

WV-CM1480: 15.0 kg (33.1 lbs.)

Weight and dimensions shown are approximate.

Specifications are subject to change without notice

ACCESSORIES

Power Cord 1 pc.

Rack Mounting Bracket 2 pcs. (WV-CM2080)

Fixing Screws for Rack Mounting Bracket 8 pcs. (WV-CM2080)

PRODUCT COMPLIES WITH DHHS RULES 21 CFR SUBCHAPTER J APPLICABLE AT DATE OF MANUFACTURE

SAFETY PRECAUTIONS

GENERAL GUIDELINE

1. When service is required, observe the original lead dress. Components, wires or cables that indicate evidence of overheating or other electrical or mechanical damage should be replaced.
2. After servicing see to that all the protective devices, such as insulation tape, shields must be properly installed.
3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

LEAKAGE CURRENT COLD CHECK

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc.
When the exposed metallic part has a return path to the chassis, the reading should be between $1\text{ M}\Omega$ and $5.2\text{ M}\Omega$. When the exposed metal does not have a return path to the chassis, the reading must be ∞ (infinity). Any resistance value below this range indicates an abnormality which requires corrective action.
3. Repeat the test with the AC switch in the "OFF" position.

LEAKAGE CURRENT HOT CHECK

1. Plug the AC cord directly into adaptor socket and plug adaptor into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a $1.5\text{ k}\Omega / 10\text{ W}$ resistor, paralleled by $0.15\text{ }\mu\text{F}$ capacitor, between each exposed metallic part on the unit and a good earth ground such as a water pipe, as shown in Figure 1.
3. Use an AC Voltmeter, with $1\text{ k}\Omega / \text{Volt}$ or more sensitivity, to measure the potential across the resistor.
4. Check all exposed metallic parts of the cover (BNC connector, Handle bracket, Metallic cabinet, Screwheads, Metallic overlays, etc.), and measure the voltage at each point.
5. Reverse the AC plug in the AC plug adaptor and repeat each of the above measurements.
6. The potential at any point should not exceed 0.75 V RMS . A leakage current tester (SIMPSON MODEL 229 or equivalent) may be used to make the hot checks. Leakage current must not exceed 0.5 milliampere .
In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and corrective action must be taken before returning the instrument to the customer.

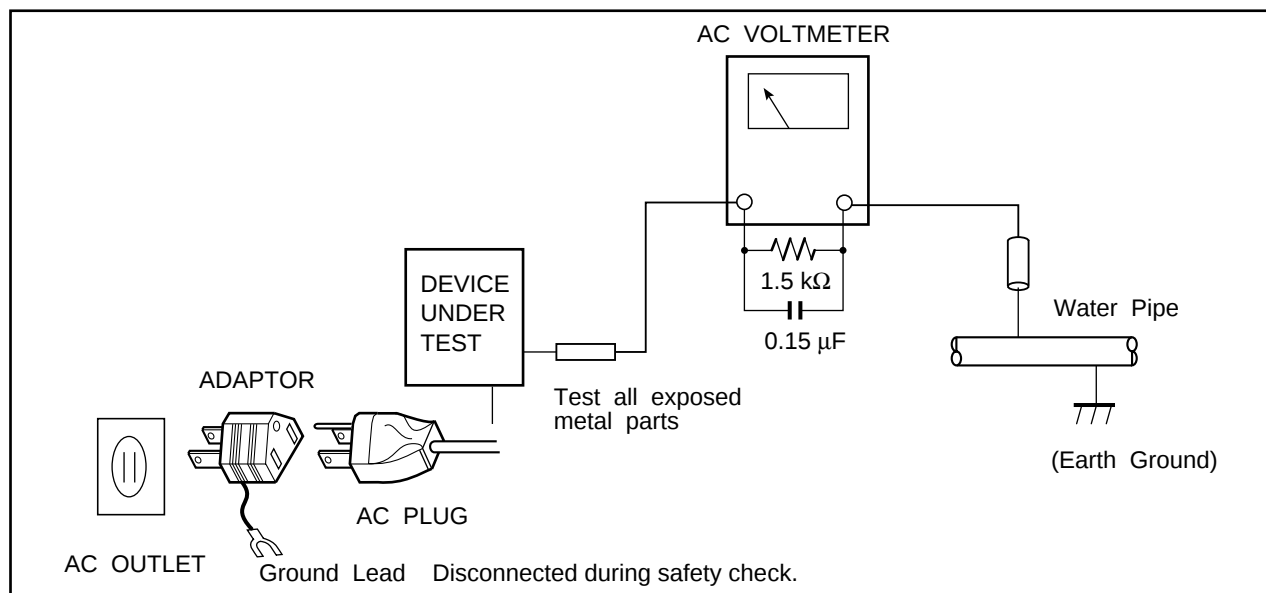


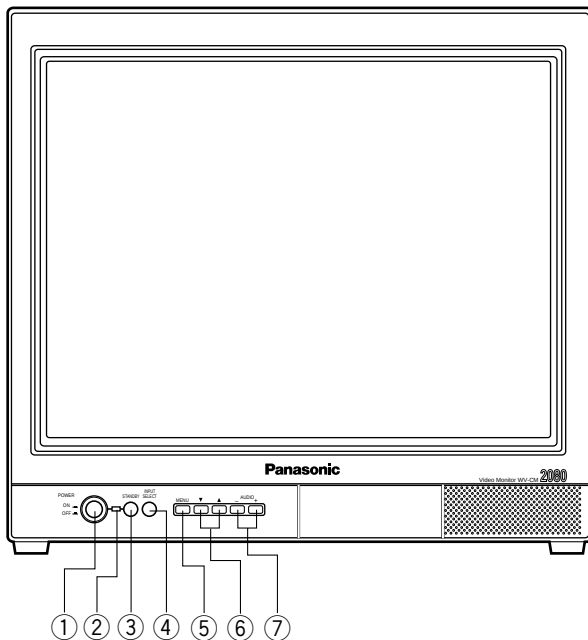
Fig. 1 Leakage Current Hot Check

CONTENTS

Major Operating Controls and Their Functions	1
Setting Up for Service of Main Board	3
Adjustment Procedure	4
Location of Test Points and Adjusting Controls	10
Wiring Diagram	11
Block Diagram	12
Schematic Diagram	
Main Board (1/7)	13
Main Board (2/7)	14
Main Board (3/7)	15
Main Board (4/7)	16
Main Board (5/7)	17
Main Board (6/7)	18
Main Board (7/7)	19
CRT Socket Board	20
Conductor View	
Main Board (Component Side View)	21
Main Board (Pattern Side View)	22
CRT Socket Board	23
Exploded View	
WV-CM1480	24
WV-CM1780	25
WV-CM2080	26
Replacement Parts List	27

MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS

● Front View



* The above figures represent model WV-CM2080.

① Power Button (POWER ON/OFF)

This button turns the power of the monitor on and off.

② Power Indicator

This indicator is on when the power of the monitor is turned on, also in standby mode.

On: Green light

Standby: Orange light

③ Standby Button (STANDBY)

Pressing this button toggles the display mode on the monitor screen as shown below.

On: Normal display

Standby (Mode 1): Low display brightness

Standby (Mode 2): No display (blackout)

④ Input Selection Button (INPUT SELECT)

Selects input in the sequence shown below.

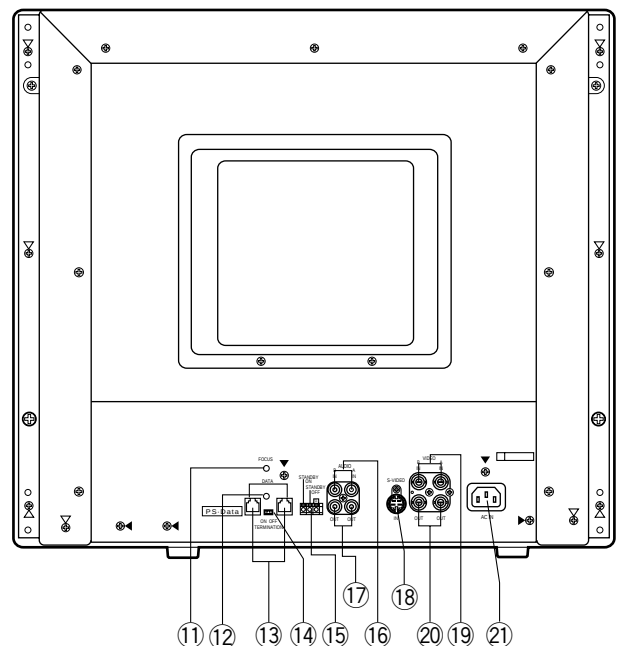


⑤ Menu Button (MENU)

Pressing this button opens the Display Setting menu for changing the monitor's display settings.

Pressing this button for 5 seconds or more opens the COMMUNICATION SETUP menu.

● Rear View



⑥ Direction Buttons (▼, ▲)

These buttons move the cursor to the item parameters in the Display Setting and Setup menus.

▼: Down

▲: Up

⑦ Decrement/Increment Buttons (AUDIO □, +)

Press these buttons to increase or decrease the audio volume.

These buttons also select the item parameter or level in the Display Setting and Setup menu.

⑪ Focus Control (FOCUS)

This control adjusts the screen focus.

⑫ Screen Control

This control is preset at the factory.

⑬ Data Ports (DATA)

These ports are used to exchange control data with the System Controller in Panasonic Security Data mode.

⑭ Data Termination Selector (TERMINATION ON/OFF)

This selector is used to enable termination of the monitor's data port.

⑮ **Standby Control Terminal
(STANDBY ON/STANDBY OFF/G)**

This terminal accepts input from an outboard device to control the standby mode.

It operates as follows:

STANDBY ON: Establishes the specified standby mode.

STANDBY OFF: Releases standby mode (normal display).

⑯ **Audio Input Connectors (AUDIO IN A/B)**

For audio input from an outboard device

⑰ **Audio Output Connectors (AUDIO OUT A/B)**

The audio input signal connected to the Audio Input Connector is looped through to this connector.

⑱ **S-Video Input Connector (S-VIDEO IN)**

For input of S-video signal from an outboard device.

⑲ **Video Input Connectors (VIDEO IN A/B)**

For input of composite video signal from an outboard device.

⑳ **Video Output Connectors (VIDEO OUT A/B)**

The video input signal connected to the Video Input Connector is looped through to this connector and terminated automatically.

㉑ **AC Inlet Socket (AC IN)**

Plug the power cord (supplied as a standard accessory) into this socket and connect it to an AC outlet.

SETTING UP FOR SERVICE OF MAIN BOARD

- Referring to Fig. 1, remove three screws that secure the Bottom Cover, and remove the Bottom Cover.

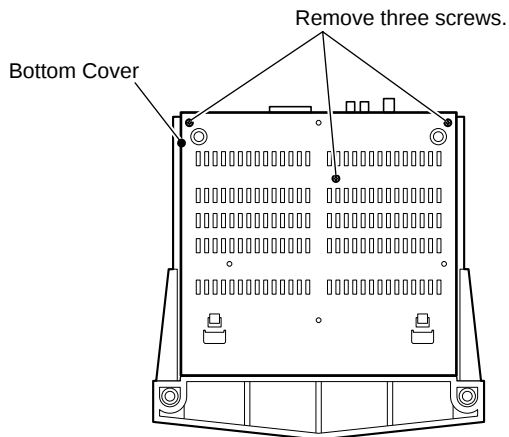


Fig. 1

- Referring to Fig. 2, remove two screws that secure the Main Board and disconnect two connectors (CN601 and CN902).

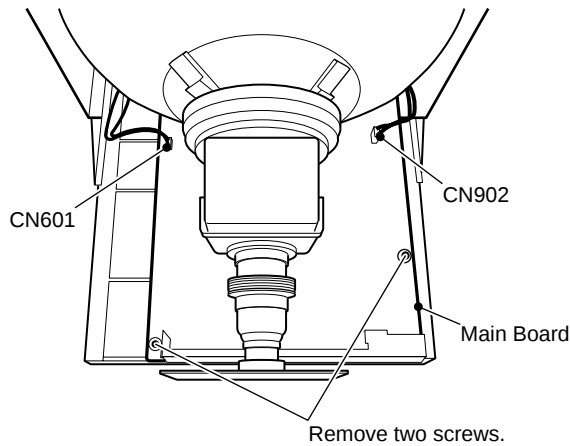


Fig. 2

- Referring to Fig. 3, pull out the Main Board and the Resin Chassis Ass'y until it stops while pressing the two hooks on the bottom face.

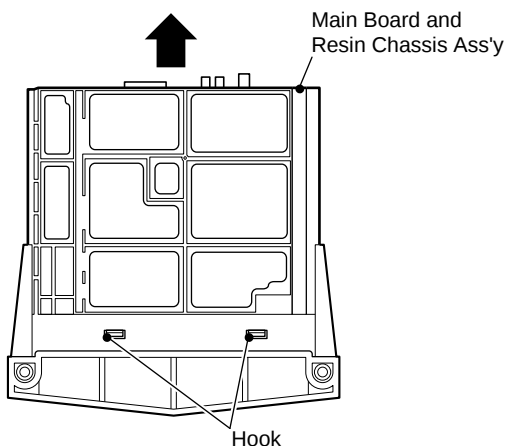


Fig. 3

- Referring to Fig. 4, remove the Main Board while releasing three hooks.

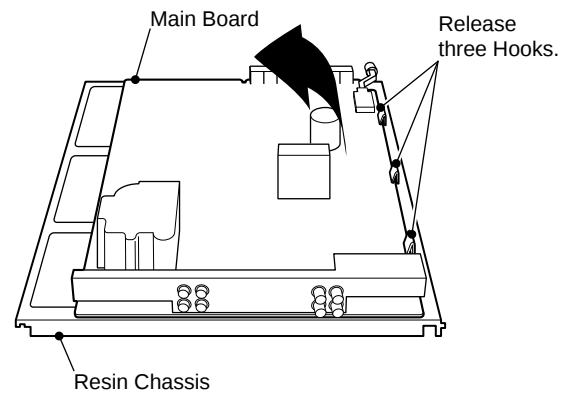


Fig. 4

- Mount the Resin Chassis to the Front Panel.
- Referring to Fig. 5, stand the Main Board with two stands and groove on the Resin Chassis.

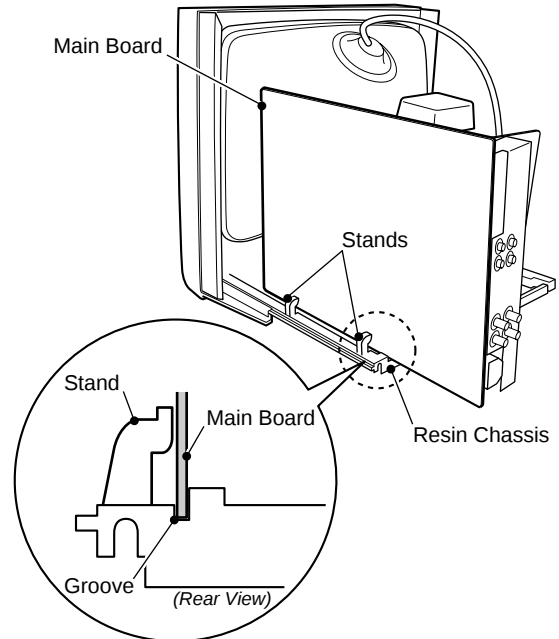


Fig. 5

ADJUSTMENT PROCEDURE

1. Test Equipments Required

- The following Test Equipments are required for adjustment of the Color Video Monitor WV-CM1480/WV-CM1780/WV-CM2080.
- Video Signal Generator
 - Color Bar Signal
 - Grayscale Signal (8 stair steps)
 - Crosshatch Signal or Dot Signal
 - White Raster Signal
 - Red, Green and Blue each Raster Signal
- Monoscope Pattern Signal Generator
- Audio Analyzer (VP-7720 or equivalent)
- Oscilloscope
- Digital Voltmeter
- Degaussing Coil
- Ceramic Screwdriver
- Electric Torque Driver

2. Disassembling Procedure for Adjustment

■ WV-CM1480 / WV-CM1780

- Referring to Fig. 2-1, remove eight screws that secure the Upper Cover and remove the Upper Cover.

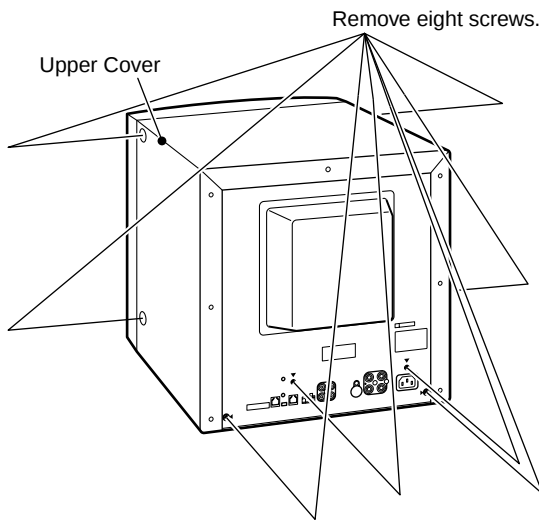


Fig. 2-1

■ WV-CM2080

- Referring to Fig. 2-2, remove thirteen screws that secure the Upper Cover and remove the Upper Cover.

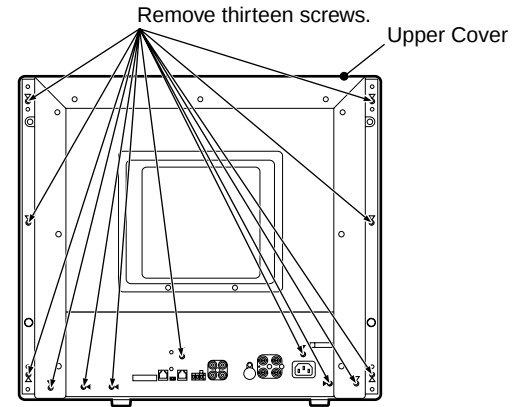


Fig. 2-2

3. Connection and Setting up for Adjustment

3.1. Connection

- Fig. 3-1 shows the connecting diagram for adjustment of the WV-CM1480/WV-CM1780/WV-CM2080.

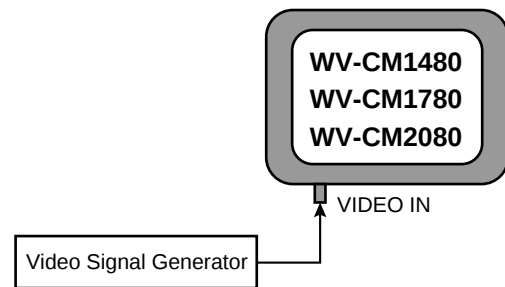


Fig 3-1

- Connect the coaxial cable between Video Input Connector of the WV-CM1480/WV-CM1780/WV-CM2080 and the Video Output Connector of the Video Signal Generator.
- Disconnect the Modular Cable from the Data Port of the WV-CM1480/WV-CM1780/WV-CM2080.
- The Fig. 3-2 shows the connecting diagram for the Audio Section adjustment.

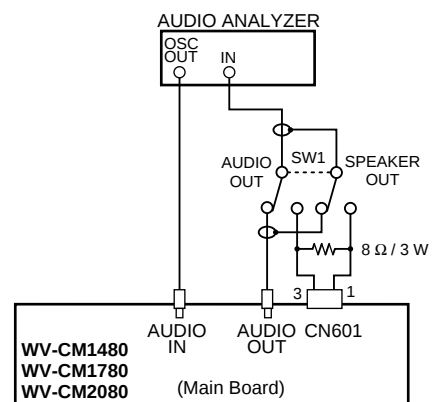


Fig 3-2

- Connect the Oscillator Output terminal of the Audio Analyzer and the Audio Input Connector of the WV-CM1480/WV-CM1780/WV-CM2080.
- Disconnect the Speaker from CN601 on the Main Board
- Connect the Input terminal of the Audio Analyzer and the Audio Output Connector of the WV-CM1480/WV-CM1780/WV-CM2080 through selector (Audio Out or Speaker Out) SW1.
- Terminate the Speaker Output signal with 8 Ω /3 W.
- After completion of adjustment, connect the Speaker to CN601 on the Main Board.

3.2. Setting Up

- This adjustment should be done after 20 minutes warm up of the WV-CM1480/WV-CM1780/WV-CM2080.

<Initial Setting>

- Turn on the power.
- Select the Direction Button (▼ or ▲) to the NORMAL SETTINGS position.
- Press the Increment Button (+) or Decrement Button (–), and all the setting are initialized.
- Turn the Power Switch off.

<Service Menu>

- Turn on the power while pressing the Increment Button (+), the Decrement Button (–) and the Menu Button (MENU) simultaneously, and enter to the Service Mode.
- Press the Menu Button (MENU) once, and the DEF MENU will appear on the Monitor Screen.
- The items of the DEF MENU changes as shown in Fig. 3-3 by pressing the Direction Button (▼ or ▲).

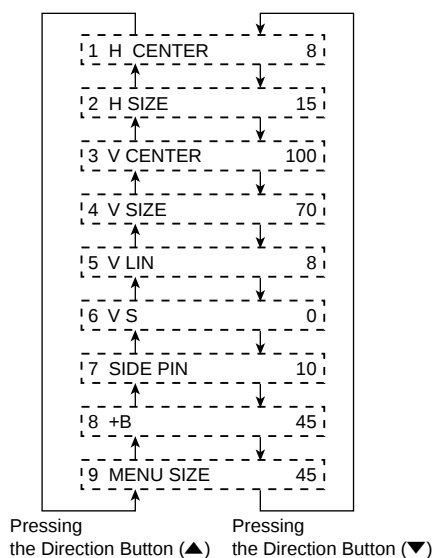


Fig. 3-3

- Press the Menu Button (MENU) once, and the W/B MENU will appear on the Monitor Screen.
- The items of the W/B MENU changes as shown in Fig. 3-4 by pressing the Direction Button (▼ or ▲).

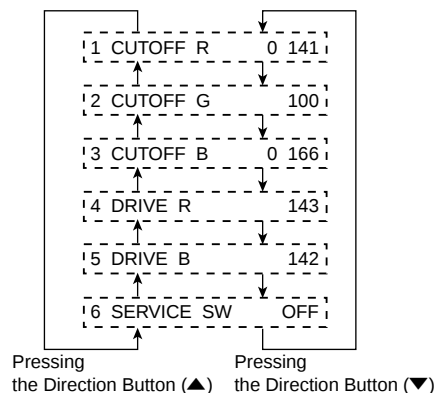


Fig. 3-4

- Press the Menu Button (MENU) once, and the SUB MENU will appear on the Monitor Screen.
- The items of the SUB MENU changes as shown in Fig. 3-5 by pressing the Direction Button (▼ or ▲).

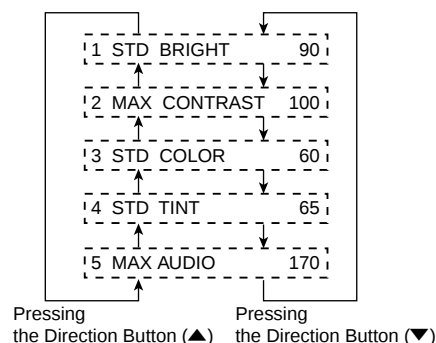


Fig. 3-5

- Press the Menu Button (MENU) once, and the ADJ MENU will appear on the Monitor Screen as shown in Fig. 3-6.

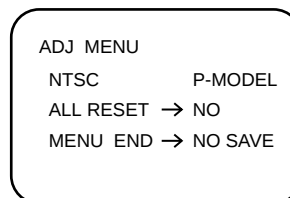


Fig. 3-6

4. Adjustment Procedure

- Refer to the Location of the Test Points and Adjusting Controls on the page 10.

(1). 120V Adjustment

Test Point: TP901 (120V) Main Board
Adjust: Increment Button (+) Front Panel
Decrement Button (-) Front Panel

- Turn on the power while pressing the Increment Button (+), the Decrement Button (-) and the Menu Button (MENU) simultaneously, and enter to the Service Mode.
- Supply the Grayscale signal to Video Input Connector.
- Adjust the SCREEN control so that the stair steps become visibly certain.
- Enter to the DEF MENU by pressing the Menu Button (MENU).
- Select +B by pressing the Direction Button (▼ or ▲).
- Connect the Digital Multimeter to TP901.
- Adjust +B by pressing the Increment Button (+) or the Decrement Button (-) so that the DC voltage at TP901 becomes $120\text{ V} \pm 0.5\text{ V}$.

(2). Screen Cut off Coarse Adjustment

Test Point: TP802 (G) CRT Board
Adjust: Increment Button (+) Front Panel
Decrement Button (-) Front Panel
SCREEN Control of Flyback Transformer Main Board

- Supply the Grayscale signal to Video Input Connector.
- Enter to the SUB MENU by pressing the Menu Button (MENU).
- Select STD BRIGHT by pressing the Direction Button (▼ or ▲).
- Connect the Oscilloscope to TP802.
- Set the Input Selector of the Oscilloscope to the DC Mode.
- Adjust STD BRIGHT by pressing the Increment Button (+) or the Decrement Button (-) so that G Pedestal becomes $135\text{ V} \pm 2\text{ V}$ as shown in Fig. 4-1.

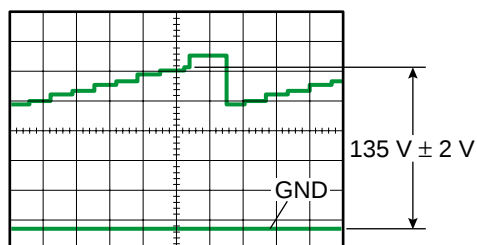


Fig. 4-1

- Adjust the SCREEN control so that only the 8th step of stair steps becomes cut off.

(3). Contrast Adjustment

Test Point: TP802 (G) CRT Socket Board
Adjust: Increment Button (+) Front Panel
Decrement Button (-) Front Panel

- Supply the Grayscale signal to the Video Input Connector.
- Enter to the SUB MENU by pressing the Menu Button (MENU).
- Select STD BRIGHT by pressing the Direction Button (▼ or ▲).
- Note the current value of STD BRIGHT, and set STD BRIGHT to 0 by pressing the Increment Button (+) or the Decrement Button (-).
- Select MAX CONTRAST by pressing the Direction Button (▼ or ▲).
- Connect the Oscilloscope to TP802.
- Set the Input Selector of the Oscilloscope to the AC Mode.
- Adjust MAX CONTRAST by pressing the Increment Button (+) or the Decrement Button (-) so that the output of TP802 becomes $70\text{ V} \pm 3\text{ V[p-p]}$ as shown in Fig. 4-2.

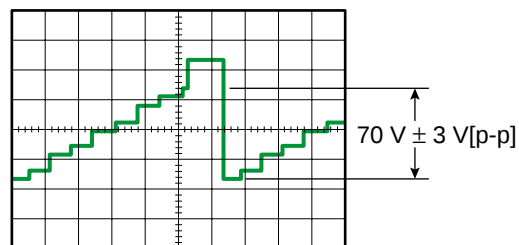


Fig. 4-2

- Select the STD BRIGHT item by pressing the Direction Button (▼ or ▲).
- Set STD BRIGHT to the noted value.

(4). Centering and Size Coarse Adjustment

Adjust: Increment Button (+) Front Panel
Decrement Button (-) Front Panel
Observe: Video Monitor Screen

- Supply the Monoscope Pattern signal to the Video Input Connector.
- Enter to the DEF MENU by pressing the Menu Button (MENU).
- Select H CENTER by pressing the Direction Button (▼ or ▲).
- Adjust H CENTER by pressing the Increment Button (+) or the Decrement Button (-) so that the screen is set to the horizontal center position.
- Select H SIZE by pressing the Direction Button (▼ or ▲).
- Adjust H SIZE by pressing the Increment Button (+) or the Decrement Button (-) so that the full horizontal width becomes approx. 8 % overscanning.
- Select SIDE PIN by pressing the Direction Button (▼ or ▲).

- Adjust **SIDE PIN** by pressing the Increment Button (+) or the Decrement Button (-) so that the vertical lines (both right and left sides of Monoscope Pattern signal) become straight.
- Select **V CENTER**, **V SIZE**, **V LIN** and **V S** by pressing the Direction Button (▼ or ▲).
- Adjust **V CENTER**, **V SIZE**, **V LIN** and **V S** by pressing the Increment Button (+) or the Decrement Button (-) so that the full vertical height becomes approx. 8 % overscanning.

(5). Comb Filter Adjustment

Test Point: TP803 (B) **CRT Board**
Adjust: VR101 (COMB-1) **Main Board**
 L102 (COMB-2) **Main Board**

- Supply the Color Bar signal to the Video Input Connector.
- Connect the terminated Oscilloscope with 75 Ω to TP803.
- Adjust VR101 and L102 by turns so that the 3.58 MHz component becomes minimum as shown in Fig. 4-3.

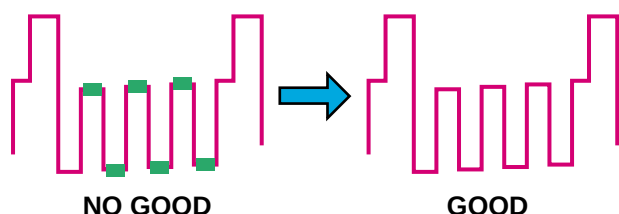


Fig. 4-3

(6). Tint Adjustment

Test Point: TP803 (B) **CRT Board**
Adjust: Increment Button (+) **Front Panel**
 Decrement Button (-) **Front Panel**

- Supply the Color Bar signal to the Video Input Connector.
- Enter to the **SUB MENU** by pressing the Menu Button (MENU).
- Select **STD TINT** and **STD COLOR** by pressing the Direction Button (▼ or ▲).
- Connect the terminated Oscilloscope with 75 Ω to TP803.
- Adjust **STD TINT** and **STD COLOR** by pressing the Increment Button (+) or the Decrement Button (-) so that the waveform becomes flat as shown in Fig. 4-4.

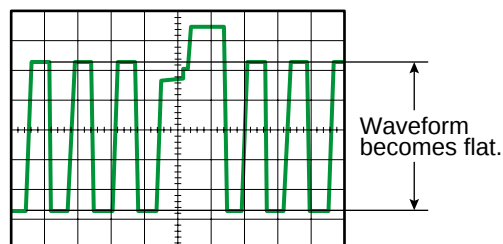


Fig. 4-4

(7). Color Adjustment

Test Point: TP803 (B) **CRT Board**
Adjust: Increment Button (+) **Front Panel**
 Decrement Button (-) **Front Panel**

- Supply the Color Bar signal to the Video Input Connector.
- Enter to the **SUB MENU** by pressing the Menu Button (MENU).
- Select **STD COLOR** by pressing the Direction Button (▼ or ▲).
- Connect the terminated Oscilloscope with 75 Ω to TP803.
- Adjust **STD COLOR** by pressing the Increment Button (+) or the Decrement Button (-) so that the output of TP803 becomes $40\text{ V} \pm 2\text{ V[p-p]}$ as shown in Fig. 4-5.

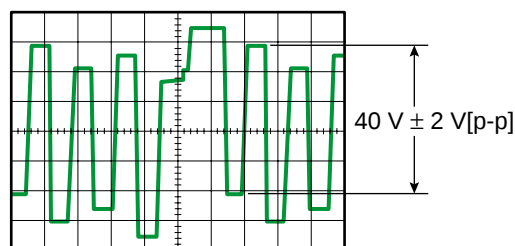


Fig. 4-5

(8). Character Size Adjustment

Adjust: Increment Button (+) **Front Panel**
 Decrement Button (-) **Front Panel**

Observe: Video Monitor Screen

- Enter to the **DEF MENU** by pressing the Menu Button (MENU).
- Select **MENU SIZE** by pressing the Direction Button (▼ or ▲).
- Adjust **MENU SIZE** by pressing the Increment Button (+) or the Decrement Button (-) so that the both right and left sides of the White Rectangle on the Monitor Screen become same width as shown in Fig. 4-6.

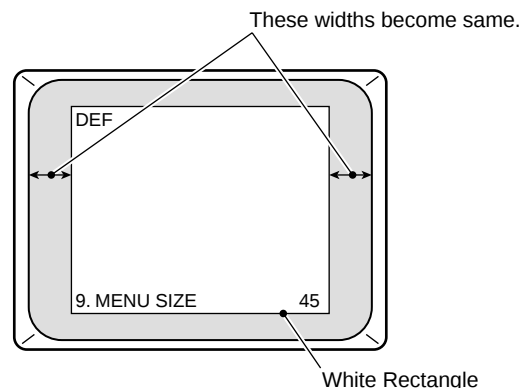


Fig. 4-6

(9). Audio Maximum Output Level Adjustment

Adjust: **Increment Button (+)** **Front Panel**
 Decrement Button (-) **Front Panel**

Observe: **Audio Analyzer**

- Supply the Color Bar signal to the Video Input Connector.
- Set the Selector (Audio Out or Speaker Out) SW1 to the Speaker Out position.
- Set the Output Level and the Oscillation Frequency of the Audio Analyzer to $-14 \text{ dBV} \pm 0.3 \text{ dBV}$, 1 kHz.
(Input level to WV-CM1480/WV-CM1780/WV-CM2080 will be $-8.0 \text{ dBV} \pm 0.3 \text{ dBV}$)
- Enter to the **SUB MENU** by pressing the Menu Button (**MENU**).
- Select **MAX AUDIO** by pressing the Direction Button (**▼** or **▲**).
- Adjust **MAX AUDIO** by pressing the Increment Button (+) or the Decrement Button (-) so that the output level becomes $7.4 \text{ dBV} \pm 0.5 \text{ dBV}$ on the Audio Analyzer.

(10). Screen Cut off Fine Adjustment

Adjust: **SCREEN Control of Flyback Transformer** **Main Board**

Observe: **Video Monitor Screen**

- Supply the Grayscale signal to the Video Input Connector.
- Adjust the SCREEN control so that the 8th step of the stair step becomes cut off.

(11). Purity Adjustment

Adjust: **Purity Magnet**
 Deflection Coil

Observe: **Video Monitor Screen**

- This adjustment should be done after aging for more than 20 minutes.
- Adjust the FOCUS control on the Flyback Transformer for the best focus and then disconnect the input signal.
- Degauss the CRT screen with a degaussing coil.
- Loosen the screw that secure the deflection coil.
- Move back the deflection coil until it reaches to the purity magnet.

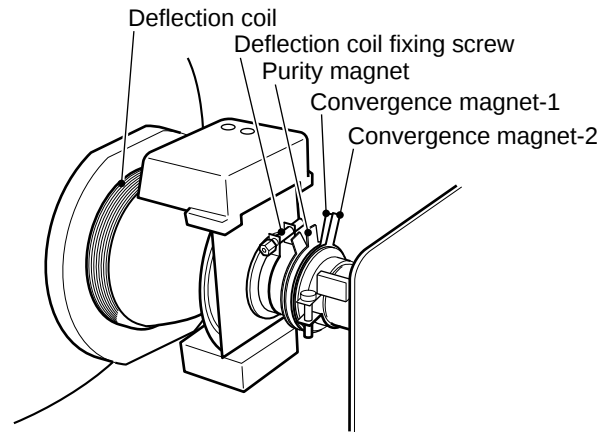


Fig. 4-7

- Supply the Red Raster signal to the Video Input Connector.
- Adjust the purity magnet so that the red area comes to the center on the CRT screen as shown in Fig. 4-8.

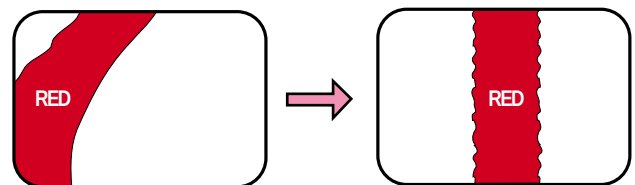


Fig. 4-8

- Rotate the deflection coil to find the point where the center portion of the red area becomes equal on the CRT screen.
- Move the deflection coil forward until the red color fully occupies the entire screen and tighten the screws that secure the deflection coil.

Note: For WV-CM1480/WV-CM1780, do not adjust two variable resistors and magnets on the Deflection Coil as shown in Fig. 4-9.

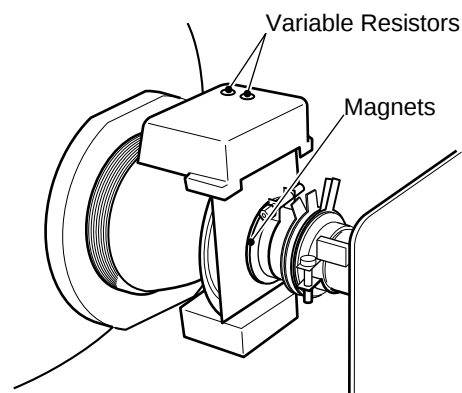


Fig. 4-9

Adjust: **Convergence magnet-1**
 Convergence magnet-2

- Supply the Crosshatch signal or the Dot Signal to the Video Input Connector.
- Adjust the FOCUS control on the Flyback Transformer for the best focus.
- Degauss the CRT screen with a degaussing coil.
- Adjust the Convergence magnet-2 so that the red and blue dots on the center area of the CRT screen is overlapped.
- Adjust the Convergence magnet-1 so that the green and magenta (red+blue) dots on the center area of the CRT screen is overlapped.
- Repeat above adjustment until no discrepancy appears on the entire screen.

Adjust:	Increment Button (+)	Front Panel
	Decrement Button (-)	Front Panel

- Supply the White Raster signal to the Video Input Connector.
- Enter to the **W/B MENU** by pressing the Menu Button (**MENU**).
- Select **CUTOFF R**, **CUTOFF B**, **DRIVE R** or **DRIVE B** by pressing the Direction Button (**▼** or **▲**).
- Adjust **CUTOFF R**, **CUTOFF B**, **DRIVE R** or **DRIVE B** by pressing the Increment Button (**+**) or the Decrement Button (**-**) so that the raster on the CRT Screen becomes White.

Adjust:	Increment Button (+)	Front Panel
	Decrement Button (–)	Front Panel

- Supply the Monoscope Pattern signal to the Video Input Connector.
- Enter to the **DEF MENU** by pressing the Menu Button (**MENU**).
- Select **H CENTER** by pressing the Direction Button (**▼** or **▲**).
- Adjust **H CENTER** by pressing the Increment Button (**+**) or the Decrement Button (**-**) so that the screen is set to the horizontal center position.
- Select **H SIZE** by pressing the Direction Button (**▼** or **▲**).
- Adjust **H SIZE** by pressing the Increment Button (**+**) or the Decrement Button (**-**) so that the full horizontal width becomes $8\% \pm 2\%$ overscanning.

- ### (15). Focus Adjustment

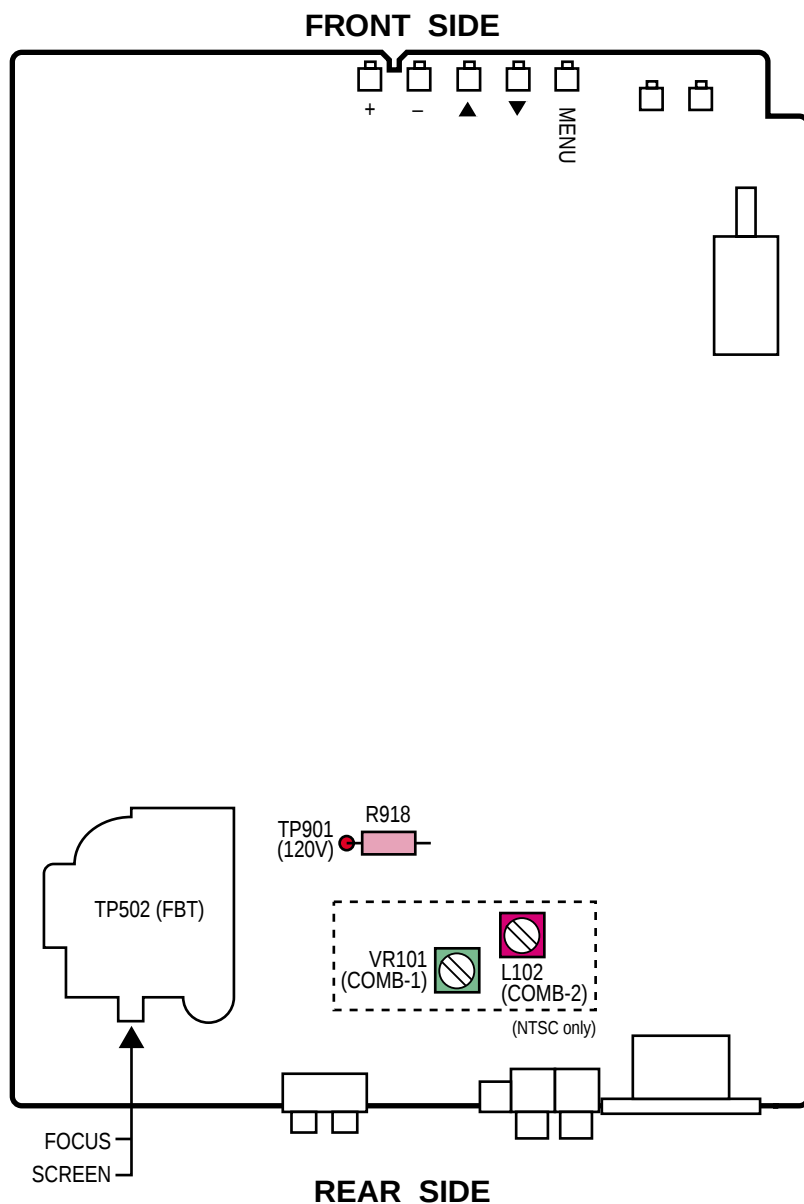
- Supply the Crosshatch signal or the Dot signal to the Video Input Connector.
- Adjust the FOCUS control for the best focus.

Adjust:	Increment Button (+)	Front Panel
	Decrement Button (–)	Front Panel

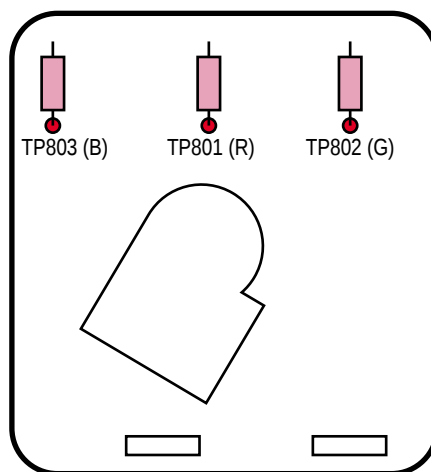
- Supply the Grayscale signal to the Video Input Connector.
- Isolate the Monitor Screen from the outside light source.
- Enter to the **SUB MENU** by pressing the Menu Button (**MENU**).
- Select **STD BRIGHT** by pressing the Direction Button (▼ or ▲).
- Adjust **STD BRIGHT** by pressing the Increment Button (+) or the Decrement Button (-) so that only the 8th step becomes cut off.

LOCATION OF TEST POINTS AND ADJUSTING CONTROLS

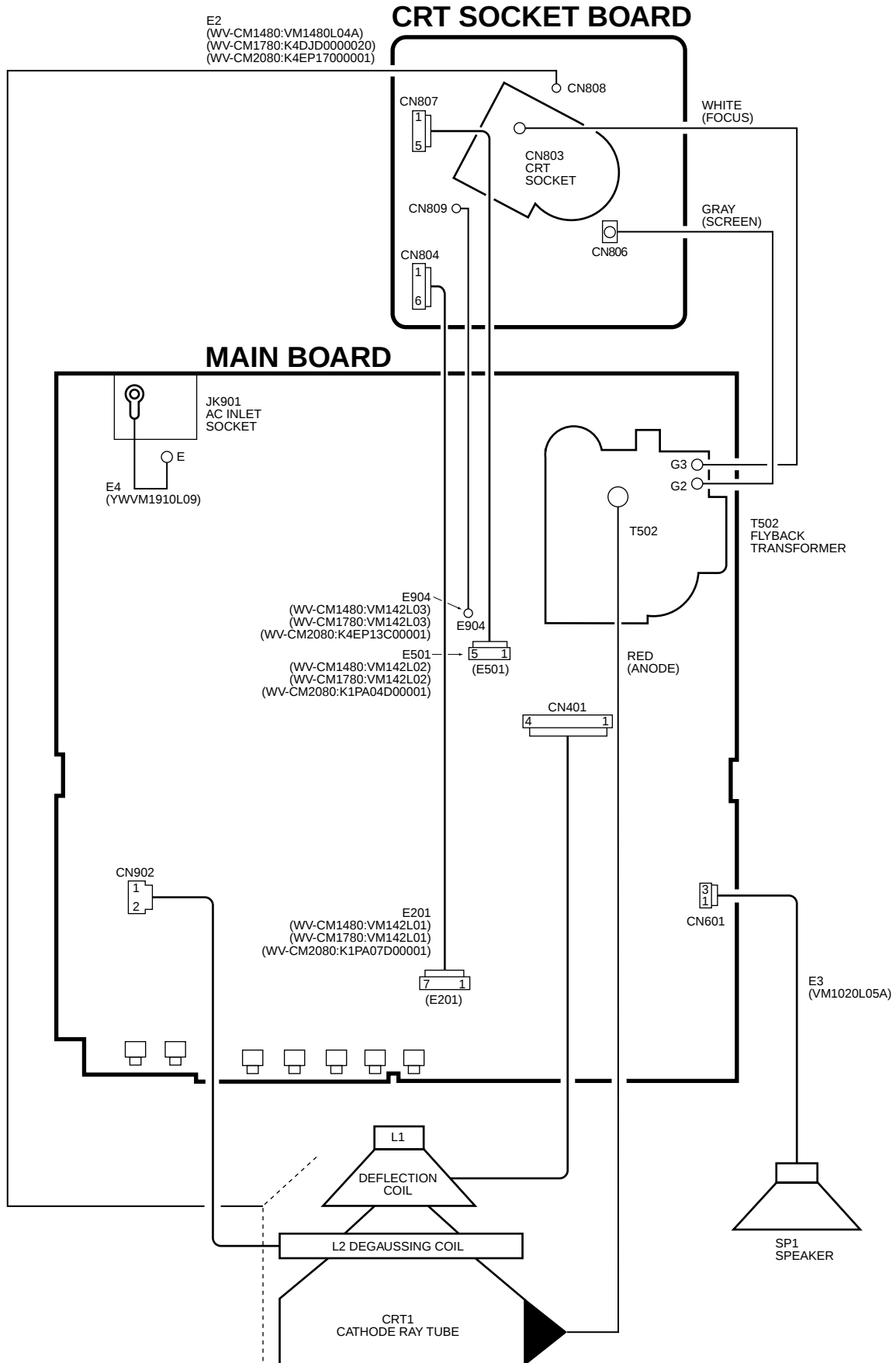
MAIN BOARD (COMPONENT SIDE)



CRT SOCKET BOARD (COMPONENT SIDE)

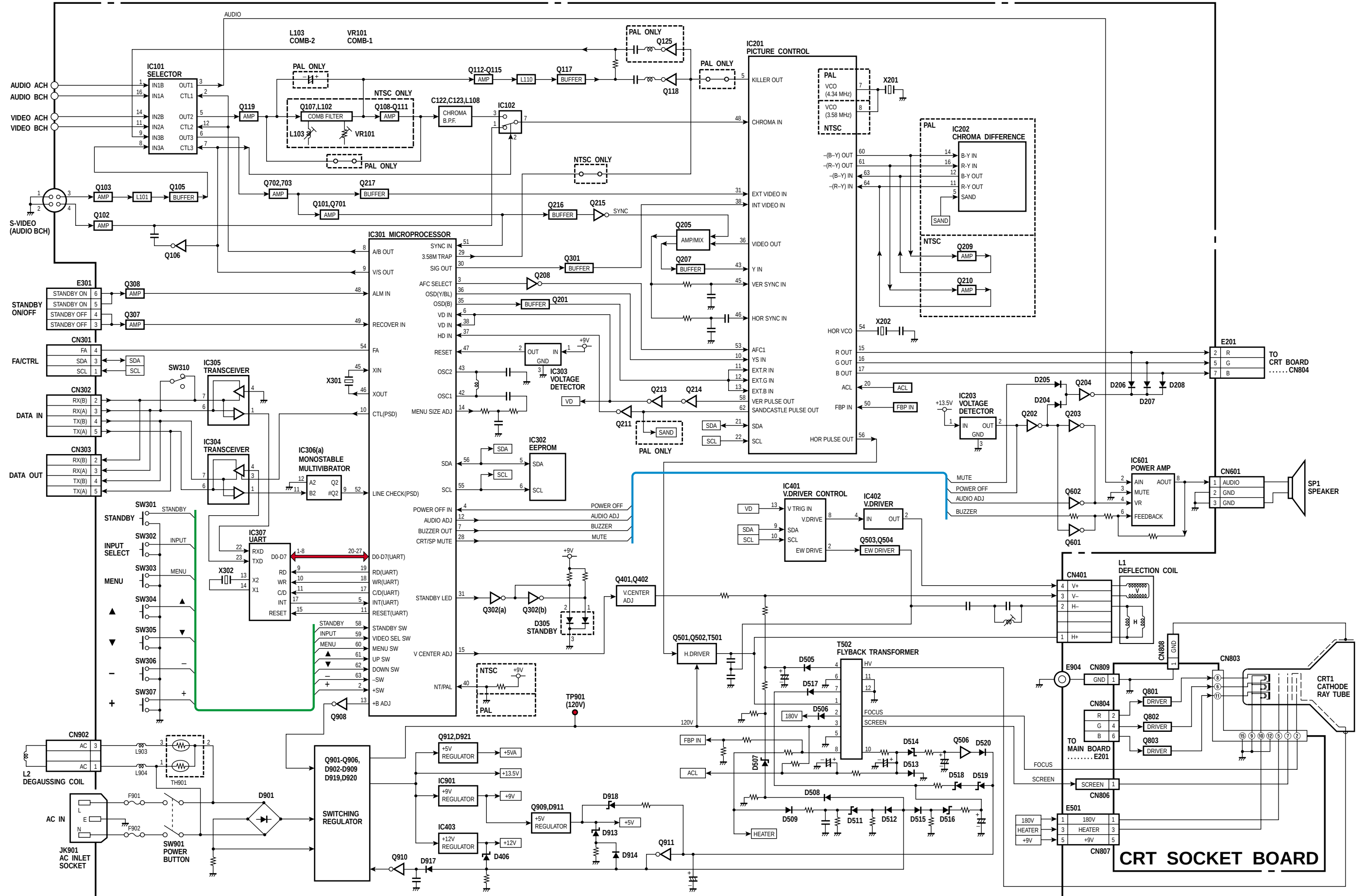


WIRING DIAGRAM

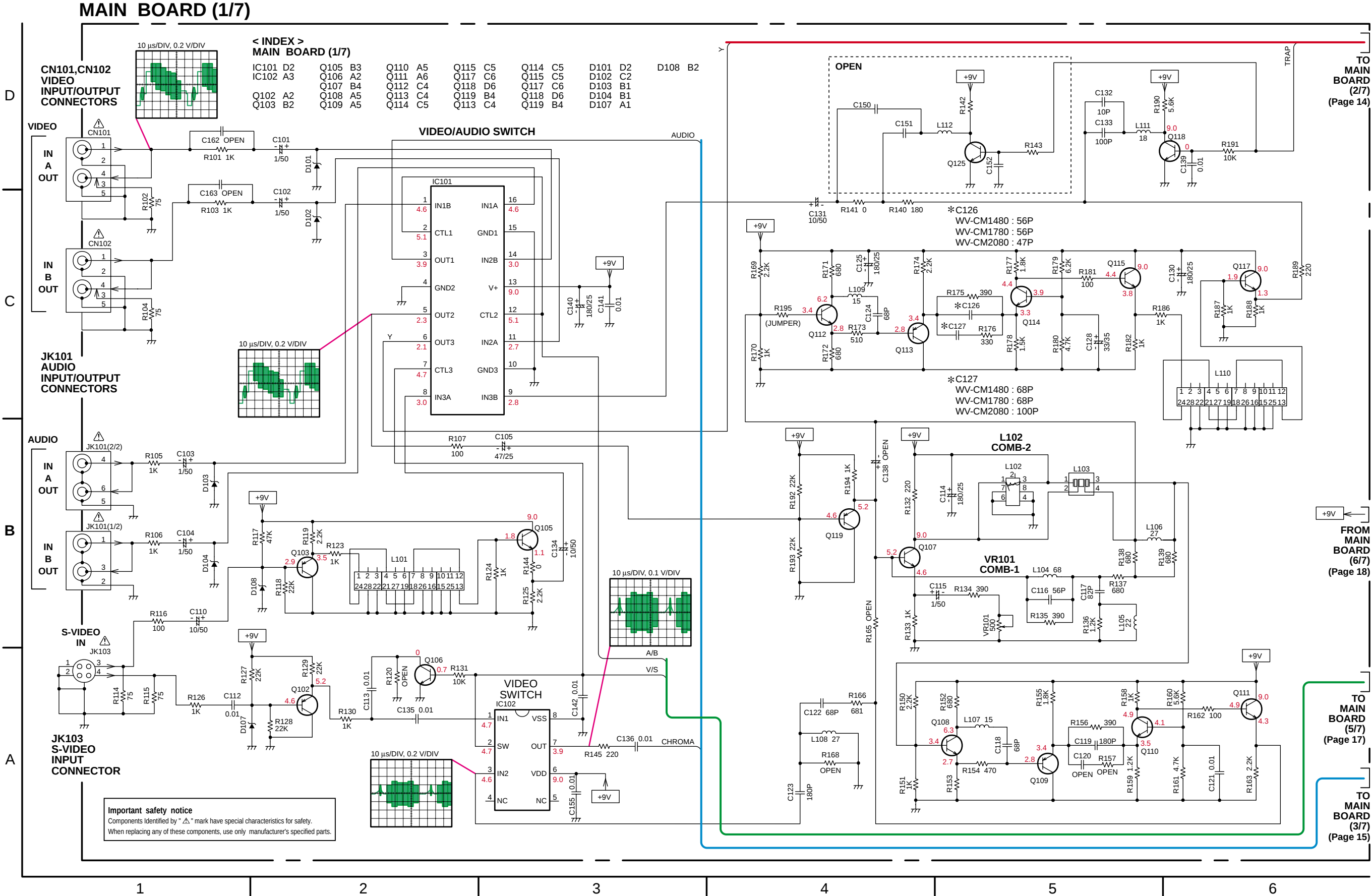


BLOCK DIAGRAM

MAIN BOARD

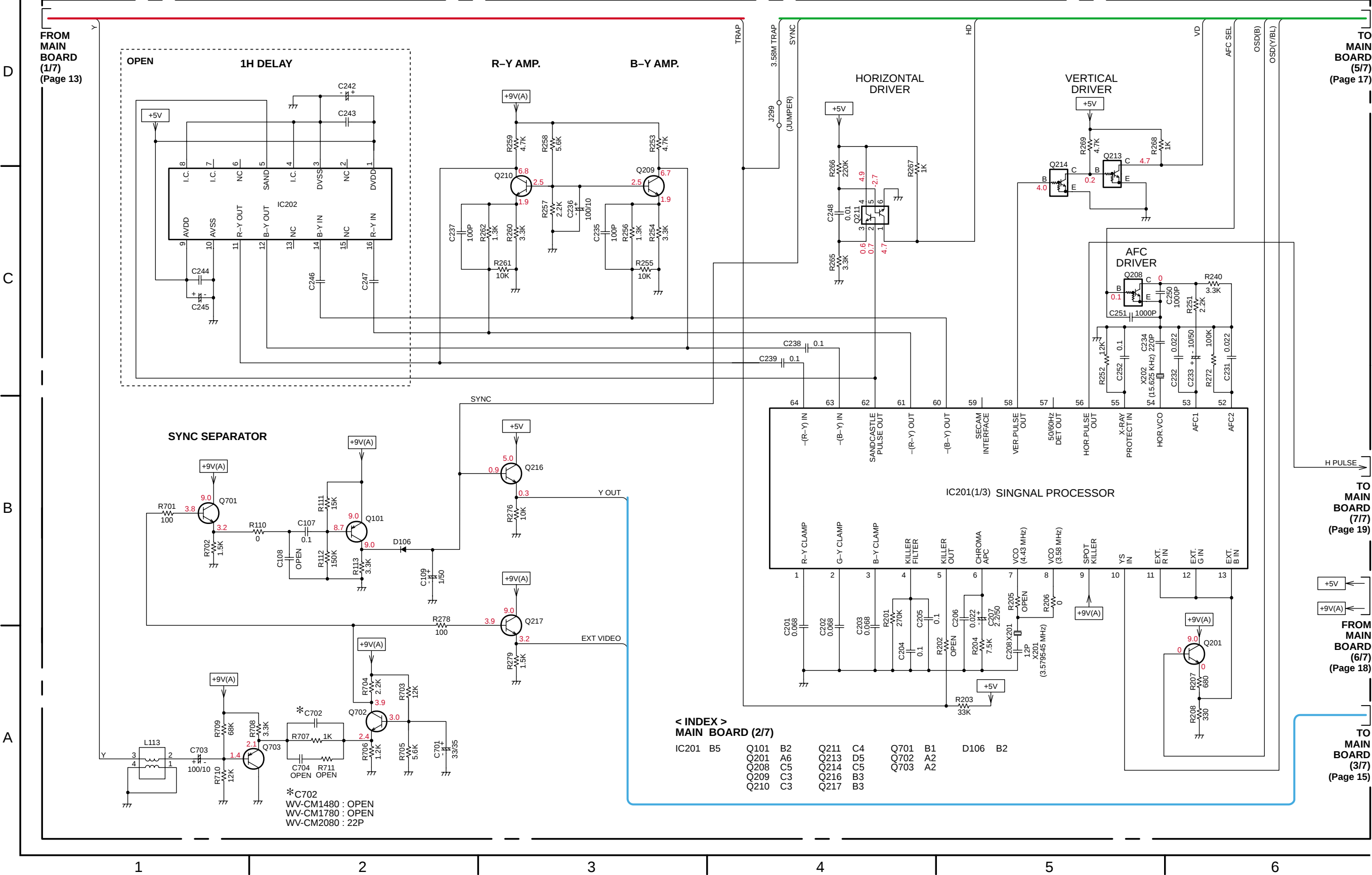


SCHEMATIC DIAGRAM OF MAIN BOARD (1/7)



SCHEMATIC DIAGRAM OF MAIN BOARD (2/7)

MAIN BOARD (2/7)



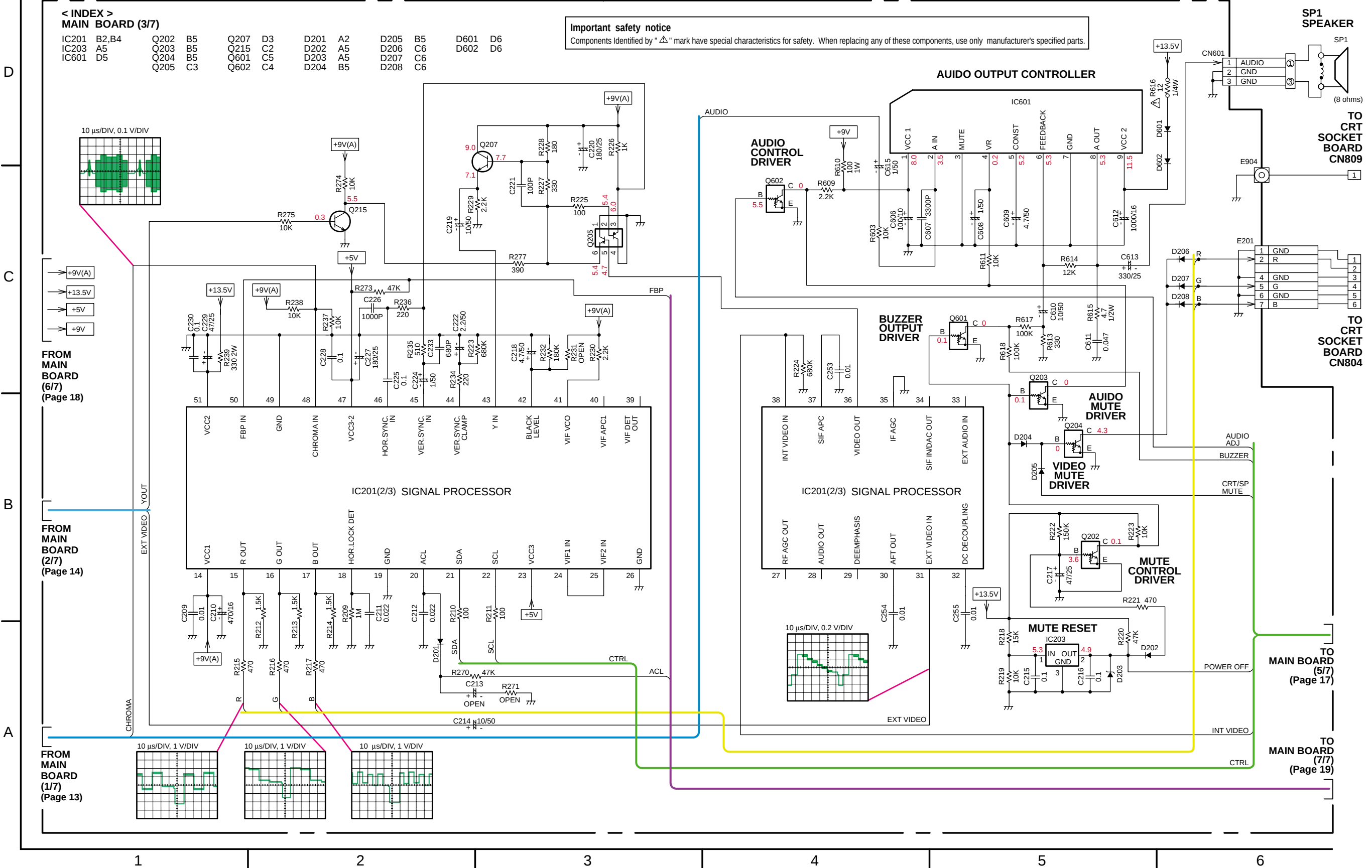
SCHEMATIC DIAGRAM OF MAIN BOARD (3/7)

MAIN BOARD (3/7)

< INDEX >
MAIN BOARD (3/7)

IC201	B2,B4	Q202	B5	Q207	D3	D201	A2	D205	B5	D601	D6
IC203	A5	Q203	B5	Q215	C2	D202	A5	D206	C6	D602	D6
IC601	D5	Q204	B5	Q601	C5	D203	A5	D207	C6		
		Q205	C3	Q602	C4	D204	B5	D208	C6		

Important safety notice
Components Identified by "△" mark have special characteristics for safety. When replacing any of these components, use only manufacturer's specified parts.



SCHEMATIC DIAGRAM OF MAIN BOARD (4/7)

MAIN BOARD (4/7)

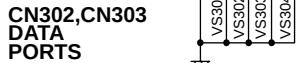
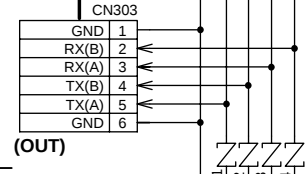
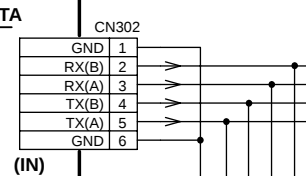
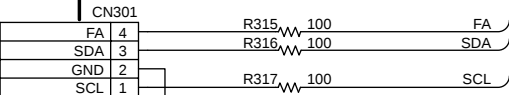
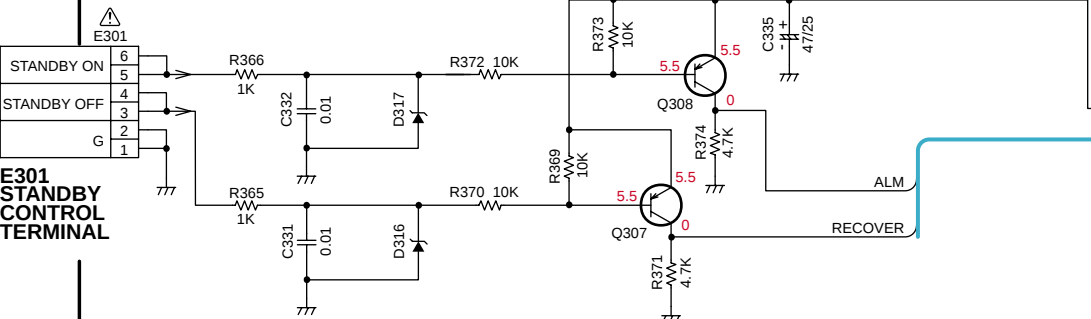
< INDEX >
MAIN BOARD (4/7)

IC303	C5	D301	C4
IC304	B3	D302	C4
IC305	B3	D303	C4
IC306	A2	D316	C1
IC307	B5	D317	C1
		D341	B2
Q307	C2	D342	B2
Q308	C2	D343	A2
		D344	A2

Important safety notice

Components Identified by " Δ " mark have special characteristics for safety.
When replacing any of these components, use only manufacturer's specified parts.

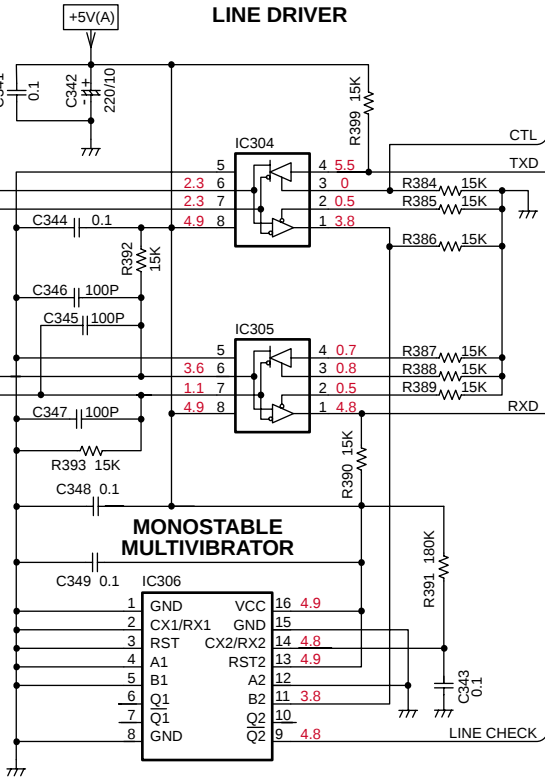
STANDBY CONTROL AMP.



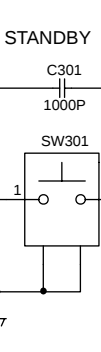
TERMINATION

SW310 DATA TERMINATION SELECTOR

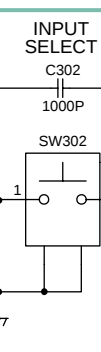
LINE DRIVER



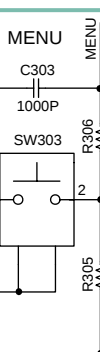
SW301 STANDBY BUTTON



SW302 INPUT SELECTION BUTTON



SW303 MENU BUTTON

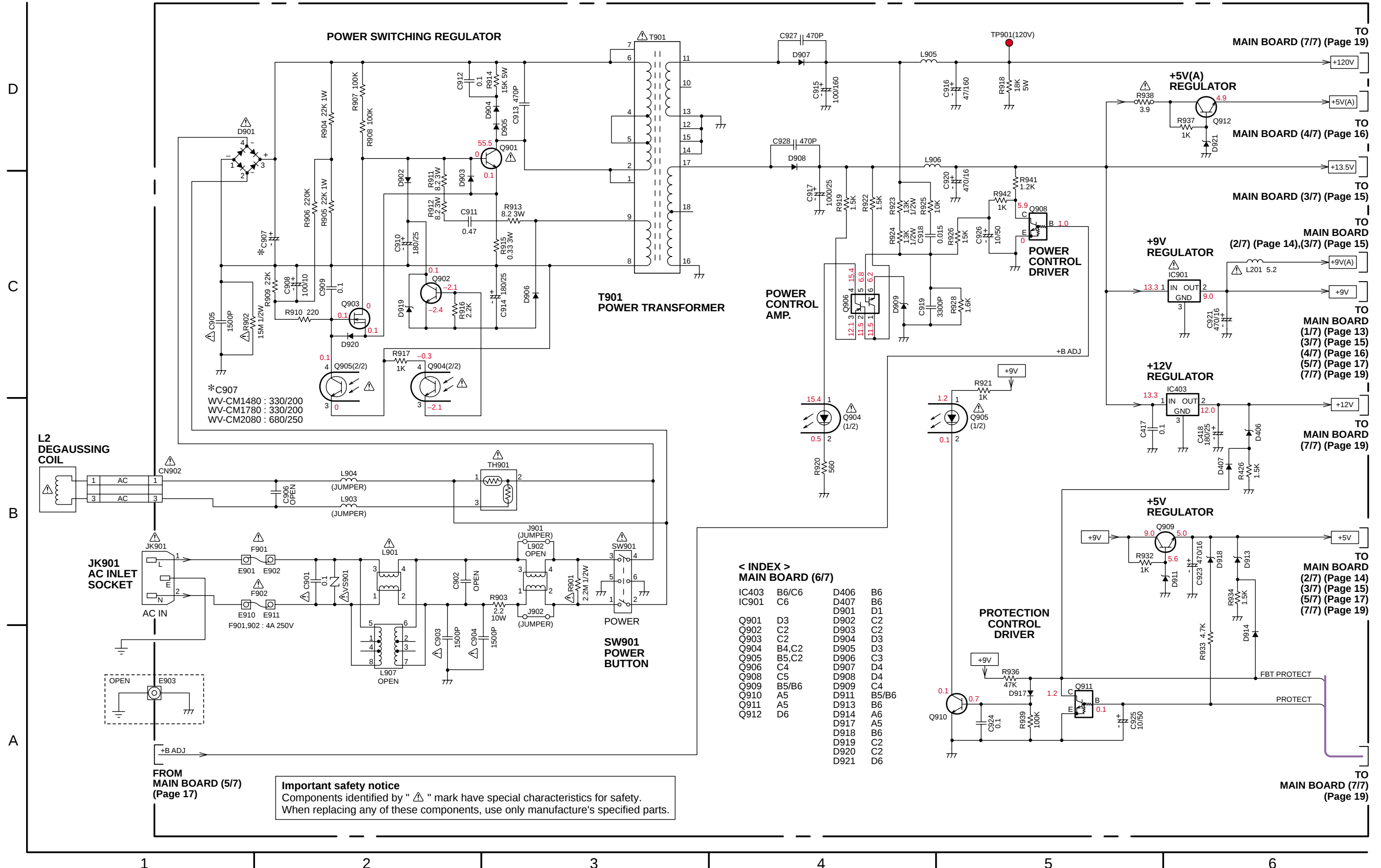


MAIN BOARD (5/7)



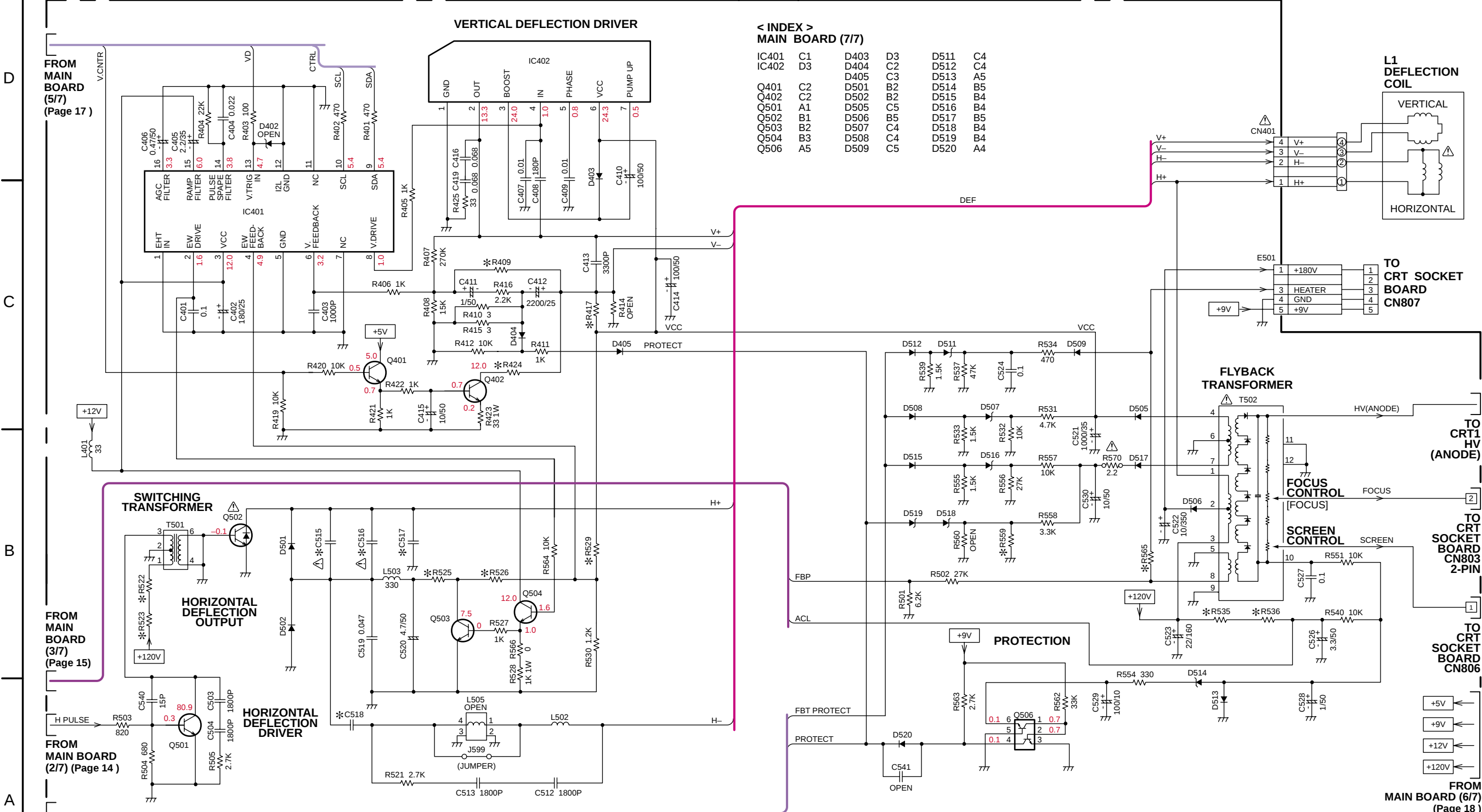
SCHEMATIC DIAGRAM OF MAIN BOARD (6/7)

MAIN BOARD (6/7)



SCHEMATIC DIAGRAM OF MAIN BOARD (7/7)

MAIN BOARD (7/7)



< INDEX >
MAIN BOARD (7/7)

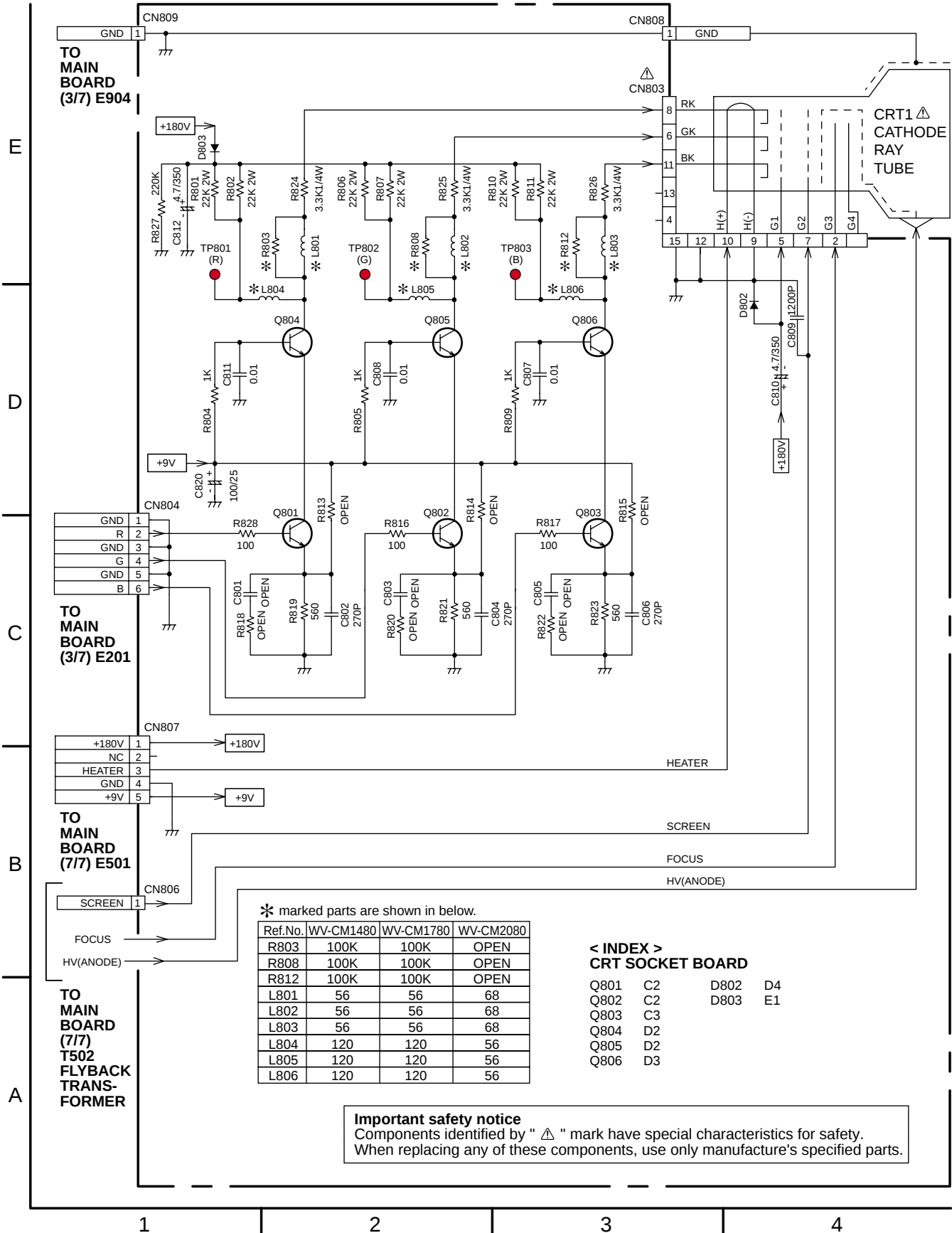
IC401	C1	D403	D3	D511	C4
IC402	D3	D404	C2	D512	C4
		D405	C3	D513	A5
Q401	C2	D501	B2	D514	B5
Q402	C2	D502	B2	D515	B4
Q501	A1	D505	C5	D516	B4
Q502	B1	D506	B5	D517	B5
Q503	B2	D507	C4	D518	B4
Q504	B3	D508	C4	D519	B4
Q506	A5	D509	C5	D520	A4

Important safety notice
Components identified by " Δ " mark have special characteristics for safety.
When replacing any of these components, use only manufacture's specified parts.

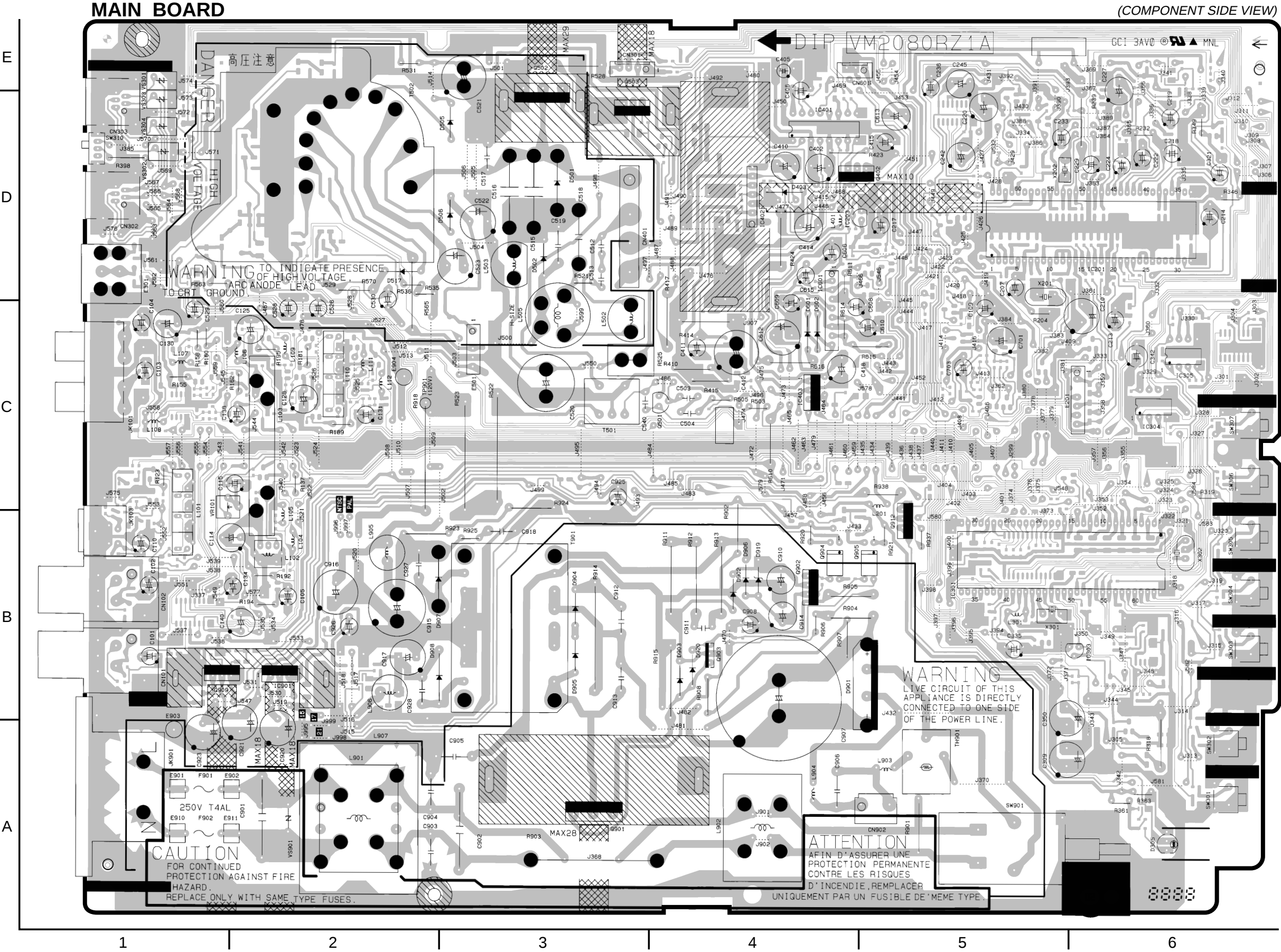
Ref.No.	WV-CM1480	WV-CM1780	WV-CM2080	Ref.No.	WV-CM1480	WV-CM1780	WV-CM2080	Ref.No.	WV-CM1480	WV-CM1780	WV-CM2080	Ref.No.	WV-CM1480	WV-CM1780	WV-CM2080
R409	56K	56K	68K	R523	680 5W	680 5W	470 5W	R535	100K	100K	75K	C515	3900P	3900P	5600P
R417	OPEN	OPEN	560 2W	R525	5.6 5W	5.6 5W	10 5W	R536	91K	91K	75K	C516	3600P	3600P	5600P
R424	220 2W	220 2W	330 2W	R526	4.7K	4.7K	3.9K	R559	100K	16K	33K	C517	470P	470P	270P
R522	680 5W	680 5W	470 5W	R529	5.6K	5.6K	8.2K	R565	3 3W	3.3 3W	3 3W	C518	0.33	0.27	0.56

SCHEMATIC DIAGRAM OF CRT SOCKET BOARD

CRT SOCKET BOARD



CONDUCTOR VIEW OF MAIN BOARD (COMPONENT SIDE VIEW)



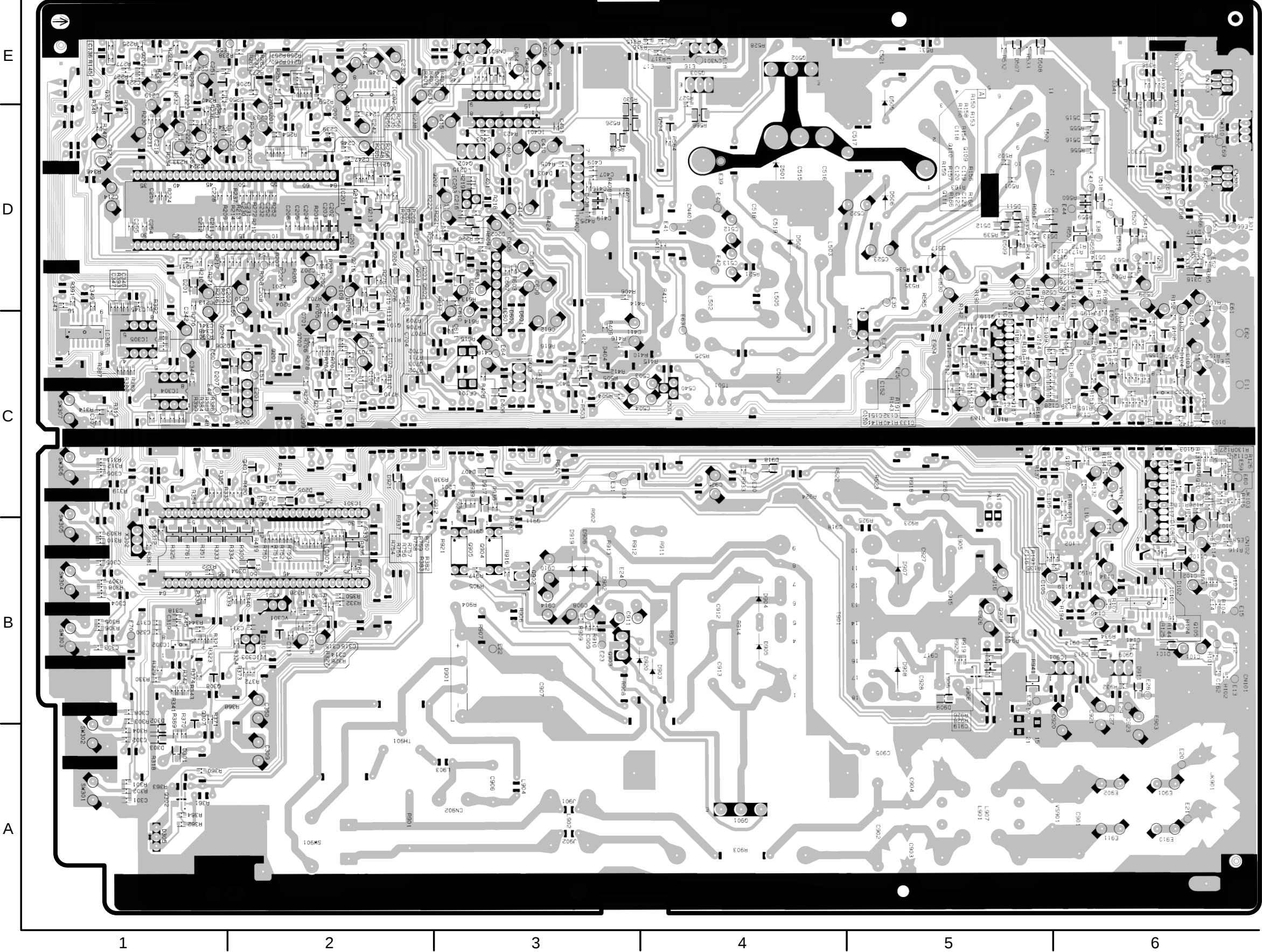
< INDEX >
MAIN BOARD
(COMPONENT
SIDE VIEW)

IC201	D6
IC203	D4
IC301	B5
IC303	B6
IC304	C6
IC305	C6
IC401	D4
IC402	D4
IC403	C4
IC601	D4
IC901	B2
Q402	D5
Q501	C4
Q502	E3
Q503	E3
Q901	A3
Q902	B4
Q903	B4
Q904	B4
Q905	B5
Q909	B1
Q912	B5
D305	A6
D403	D4
D501	D3
D502	D3
D505	D3
D517	D2
D601	C4
D602	C4
D901	B4
D902	B4
D903	B4
D904	B3
D905	B3
D906	B4
D907	B2
D908	B2
D919	B4
D920	B4

CONDUCTOR VIEW OF MAIN BOARD (PATTERN SIDE VIEW)

MAIN BOARD

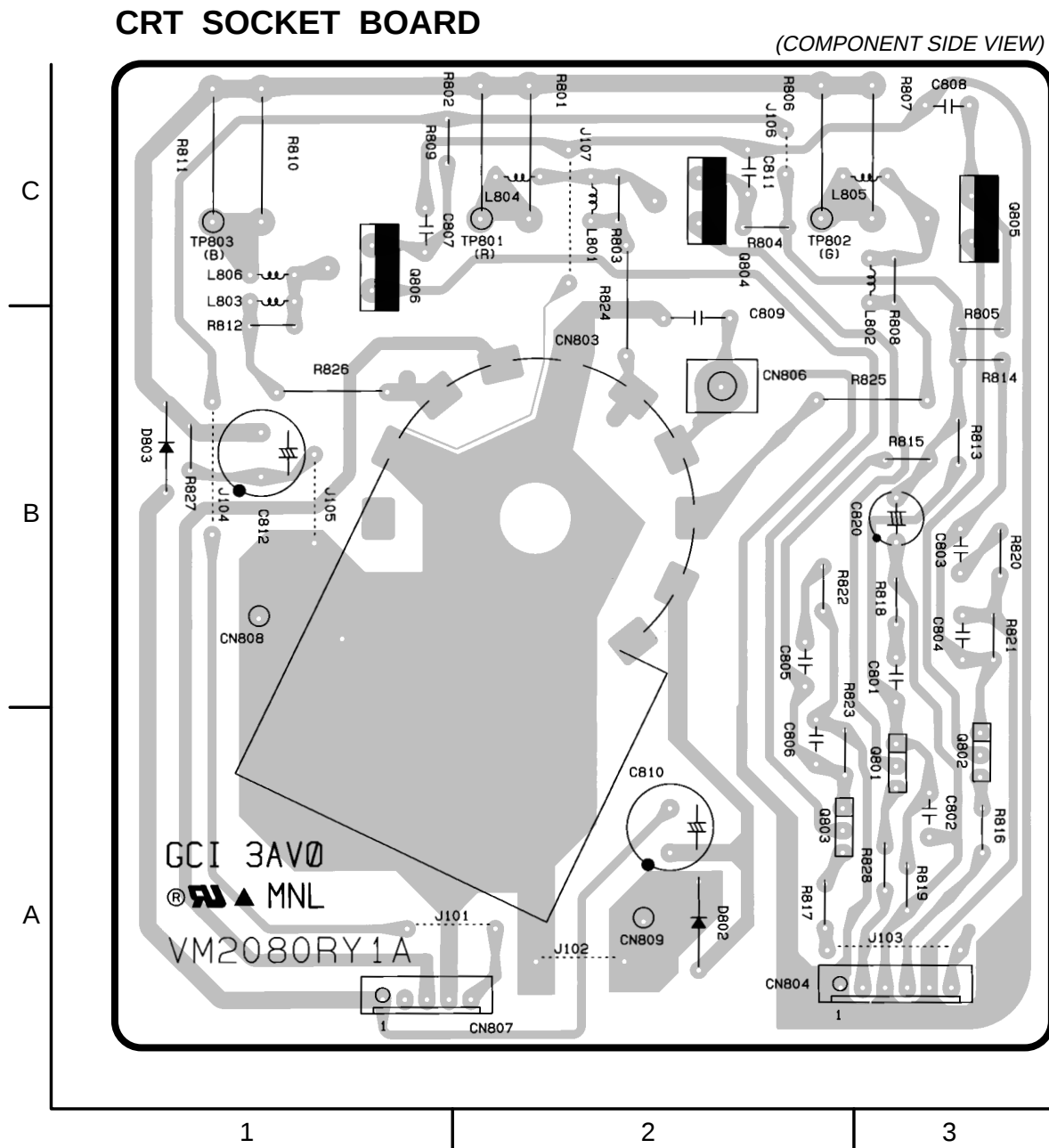
(PATTERN SIDE VIEW)



< INDEX >
MAIN BOARD
(PATTERN SIDE VIEW)

IC101	B6	D101	B6
IC102	C6	D102	B6
IC202	E2	D103	C6
IC302	B1	D104	C6
IC306	C1	D106	D2
IC307	B2	D107	B6
		D108	B6
Q101	C2	D201	D1
Q102	C6	D202	D3
Q103	C6	D203	D3
Q105	B6	D204	D2
Q106	C6	D205	C2
Q107	C6	D206	C1
Q108	C6	D207	C1
Q109	D5	D208	C2
Q110	D5	D301	A1
Q111	D5	D302	B1
Q112	D6	D303	A1
Q113	D6	D304	B2
Q114	C5	D316	D6
Q115	C5	D317	D6
Q117	C5	D341	E6
Q118	C5	D342	E6
Q119	B6	D343	E6
Q125	C5	D344	D6
Q201	C2	D402	E3
Q202	D3	D404	C3
Q203	D2	D405	C3
Q204	C1	D406	C3
Q205	E1	D407	C3
Q207	E1	D507	E5
Q208	E2	D508	E5
Q209	E2	D509	D5
Q210	E2	D511	D5
Q211	D2	D512	D5
Q213	D2	D513	D5
Q214	D2	D514	D6
Q215	D2	D515	D6
Q216	D2	D516	D6
Q217	C2	D518	D6
Q301	E1	D519	D6
Q302	A1	D520	D6
Q307	B1	D909	B5
Q308	B1	D911	B6
Q401	C2	D913	B6
Q504	D4	D914	B6
Q506	D6	D917	C3
Q601	D2	D918	C4
Q602	D2	D921	C2
Q701	C2		
Q702	C2		
Q703	C2		
Q906	B5		
Q908	B5		
Q910	B3		
Q911	B3		

CONDUCTOR VIEW OF CRT SOCKET BOARD



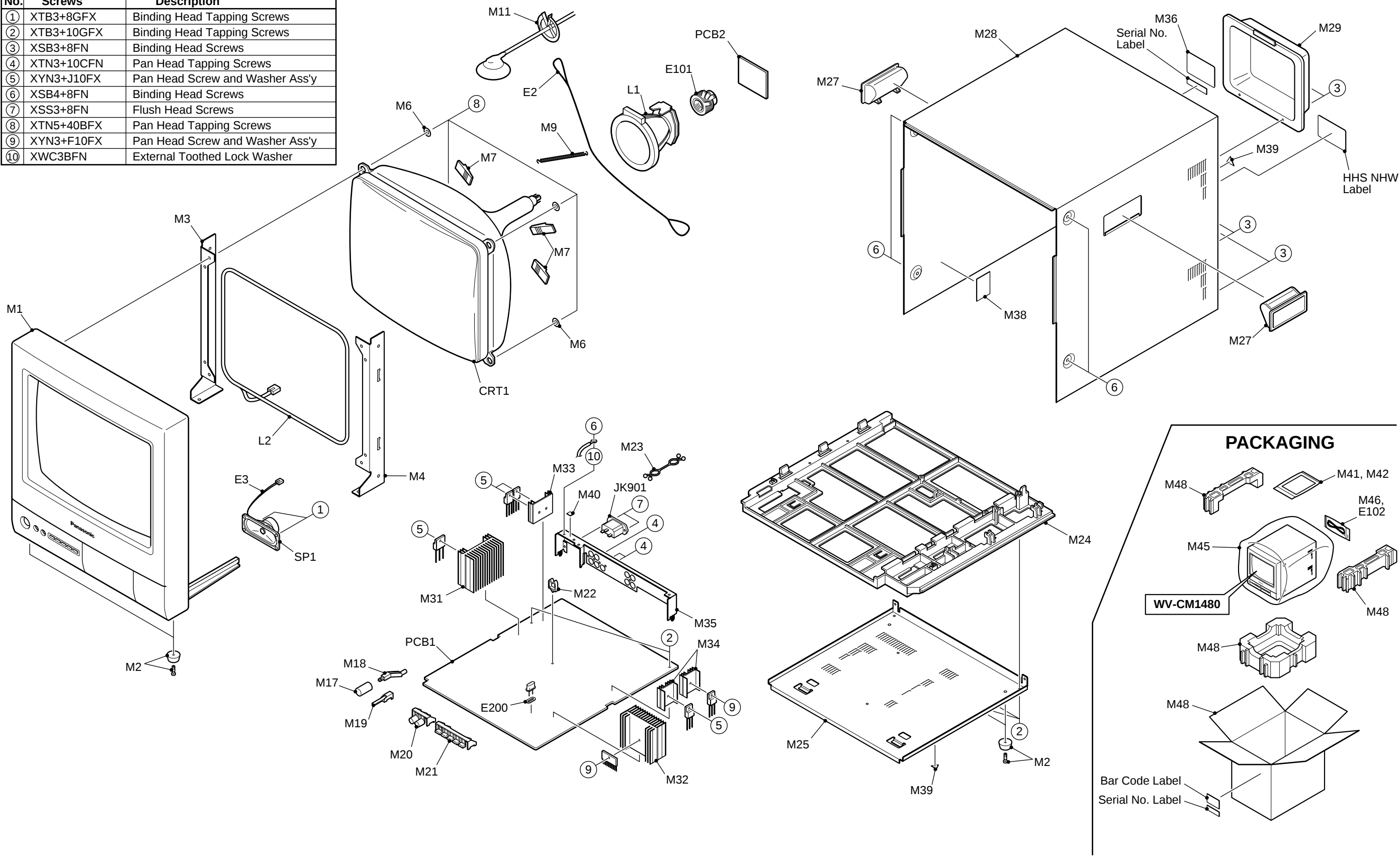
< INDEX > CRT SOCKET BOARD

Q801	A3	D802	A2
Q802	A3	D803	B1
Q803	A2		
Q804	C2		
Q805	C3		
Q806	C1		

EXPLODED VIEW OF WV-CM1480

○ Numbers show screws, washers, and etc.

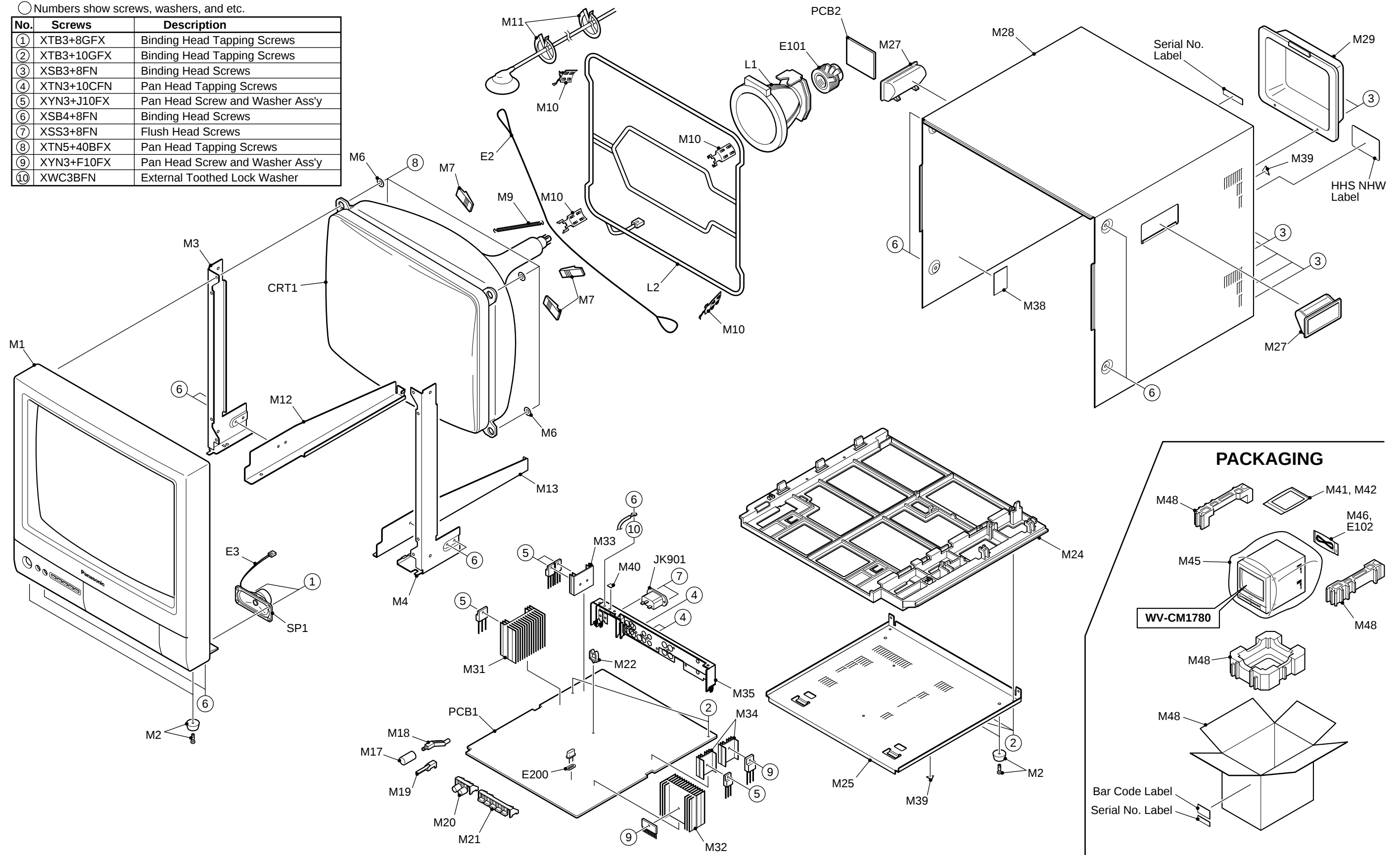
No.	Screws	Description
①	XTB3+8GFX	Binding Head Tapping Screws
②	XTB3+10GFX	Binding Head Tapping Screws
③	XSB3+8FN	Binding Head Screws
④	XTN3+10CFN	Pan Head Tapping Screws
⑤	XYN3+J10FX	Pan Head Screw and Washer Ass'y
⑥	XSB4+8FN	Binding Head Screws
⑦	XSS3+8FN	Flush Head Screws
⑧	XTN5+40BFX	Pan Head Tapping Screws
⑨	XYN3+F10FX	Pan Head Screw and Washer Ass'y
⑩	XWC3BFN	External Toothed Lock Washer



EXPLODED VIEW OF WV-CM1780

☐ Numbers show screws, washers, and etc.

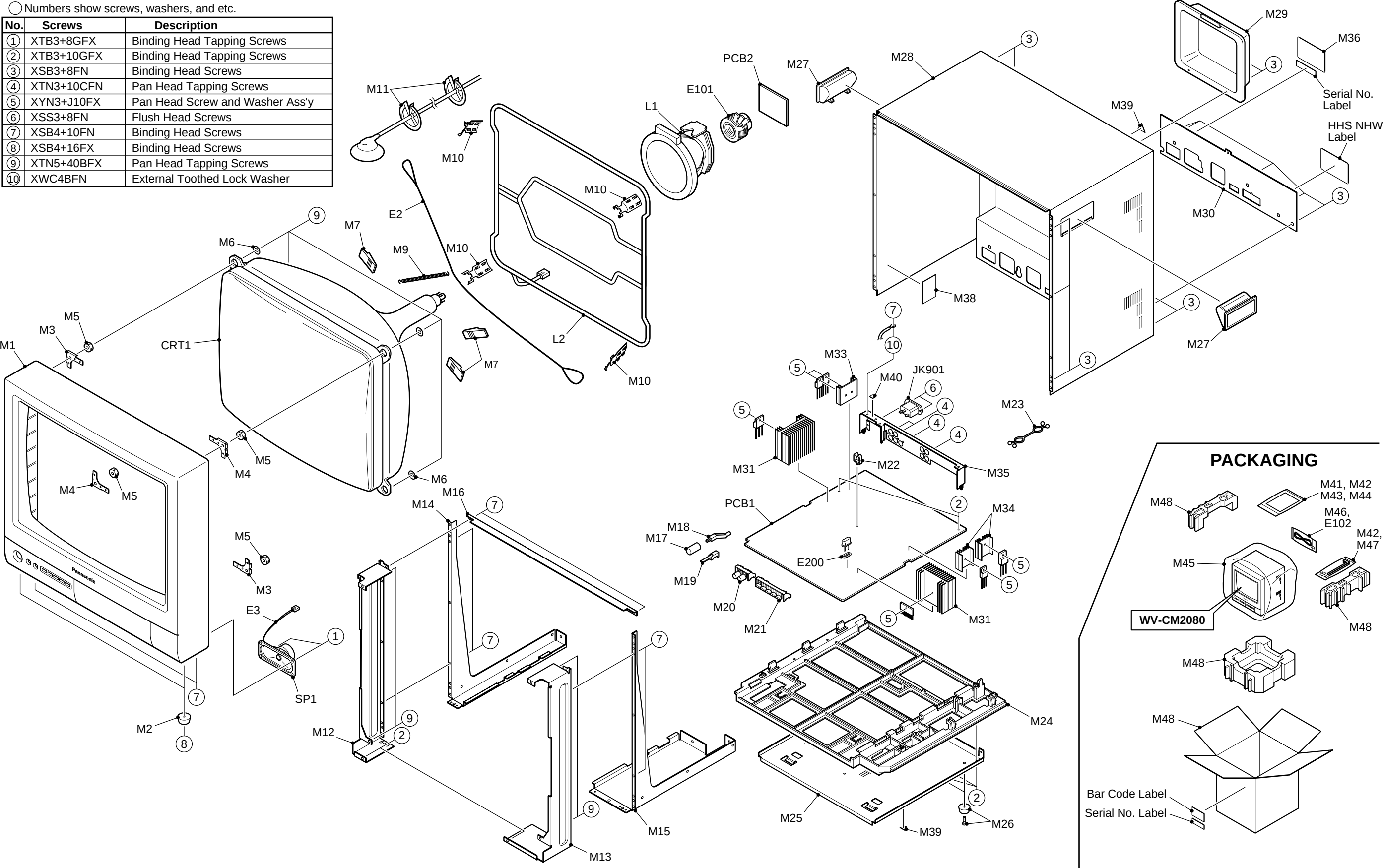
No.	Screws	Description
①	XTB3+8GFX	Binding Head Tapping Screws
②	XTB3+10GFX	Binding Head Tapping Screws
③	XSB3+8FN	Binding Head Screws
④	XTN3+10CFN	Pan Head Tapping Screws
⑤	XYN3+J10FX	Pan Head Screw and Washer Ass'y
⑥	XSB4+8FN	Binding Head Screws
⑦	XSS3+8FN	Flush Head Screws
⑧	XTN5+40BFX	Pan Head Tapping Screws
⑨	XYN3+F10FX	Pan Head Screw and Washer Ass'y
⑩	XWC3BFN	External Toothed Lock Washer



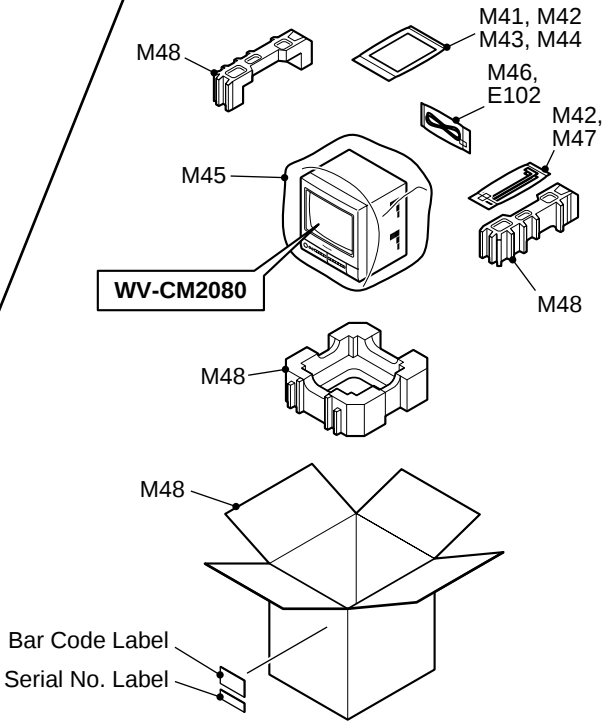
EXPLODED VIEW OF WV-CM2080

○ Numbers show screws, washers, and etc.

No.	Screws	Description
①	XTB3+8GFX	Binding Head Tapping Screws
②	XTB3+10GFX	Binding Head Tapping Screws
③	XSB3+8FN	Binding Head Screws
④	XTN3+10CFN	Pan Head Tapping Screws
⑤	XYN3+J10FX	Pan Head Screw and Washer Ass'y
⑥	XSS3+8FN	Flush Head Screws
⑦	XSB4+10FN	Binding Head Screws
⑧	XSB4+16FX	Binding Head Screws
⑨	XTN5+40BFX	Pan Head Tapping Screws
⑩	XWC4BFN	External Toothed Lock Washer



PACKAGING



REPLACEMENT PARTS LIST

Important Notice

- Components identified by "△" mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.
- RTL : Retention Time Limited (No longer available after discontinuing product).

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
MISCELLANEOUS for WV-CM1480			MISCELLANEOUS for WV-CM1780		
CRT1 △	A1A036000002	Cathode Ray Tube	CRT1 △	M41LUA420X	Cathode Ray Tube
L1 △	G0F300000001	Deflection Coil	L1 △	KDY3JHB54F	Deflection Coil
L2 △	G0ZZ00001971	Degaussing Coil	L2 △	G0ZZ00001981	Degaussing Coil
F901,902 △	K5D402BK0002	Current Fuse 4 A 250V for Main Board	F901,902 △	K5D402BK0002	Current Fuse 4 A 250V for Main Board
SP1	L0AA70C00001	Speaker	SP1	L0AA70C00001	Speaker
E2	VM1480L04A	Wire Ass'y for CRT Socket Board CN808 and CRT1	E2	K4DJ00000020	Wire Ass'y for CRT Socket Board CN808 and CRT1
E3	VM1020L05A	Wire Ass'y for Main Board CN601 and SP1	E3	VM1020L05A	Wire Ass'y for Main Board CN601 and SP1
E4	YWVM1910L09	Wire Ass'y for Main Board JK901	E4	YWVM1910L09	Wire Ass'y for Main Board JK901
E101 △	N9ZZ00000063	Purity Magnet Ass'y	E101 △	N9ZZ00000063	Purity Magnet Ass'y
M1 △	V5BA1059A1	Front Escutcheon	M1 △	V5BA1060A1	Front Escutcheon
M2	YWFF001A	Rubber Foot	M2	FF0015	Rubber Foot
M3	V2KA1361A2	CRT Angle (Left)	M3	V2SA5003A1	CRT Angle (Left)
M4	V2KA1362A2	CRT Angle (Right)	M4	V2SA5004A1	CRT Angle (Right)
M6	V1KA1029A4	Washer	M6	V1KA1029A4	Washer
M7	YWV2NA1113A3	Deflection Coil Spacer	M7	YWV2NA1113A3	Deflection Coil Spacer
M9	YFV4JA0118A4	Spring	M9	YFV4JA0118A4	Spring
M11	YWSF2001	Cord Clamp	M10 △	V2SA4952A2	Mounting Angle for Degaussing Coil
M17	YWA5RG0141A3	Power Switch Knob	M11	YWSF2001	Cord Clamp
M18 △	V2LA1022A3	Joint for Power Switch Knob	M12	V2KA1364A2	Chassis (Left)
M19 △	V2NA1134A3	LED Spacer	M13	V2KA1365A2	Chassis (Right)
M20 △	V6JA1181A2	Button	M17	YWA5RG0141A3	Power Switch Knob
M21 △	V6JA1182A2	Button	M18 △	V2LA1022A3	Joint for Power Switch Knob
M22	UAMS-05SV0	Cord Clamp	M19 △	V2NA1134A3	LED Spacer
M23	YW2092051801	Cord Clamp	M20 △	V6JA1181A2	Button
M24 △	V2KA1338A1	Resin Chassis	M21 △	V6JA1182A2	Button
M25	V5EA2461A1	Bottom Cover	M22	UAMS-05SV0	Cord Clamp
M27 △	V6AA0511A2	Handle	M24 △	V2KA1338A1	Resin Chassis
M28	V5EA2502A1	Top Cover	M25	V5EA2461A1	Bottom Cover
M29 △	V6BA0508A1	CRT Hood	M27 △	V6AA0511A2	Handle
M36 △	V7QA5708A4	Main Label	M28	V5EA2519A1	Top Cover
M38	V7MA1121A4	Safety Label	M29 △	V6BA0512A1	CRT Hood
M39 △	YFV7MB0103A4	Shock Mark Label	M38	V7MA1121A4	Safety Label
M40	YWA7SA0689A4	Earth Mark Label	M39 △	YFV7MB0103A4	Shock Mark Label
			M40	YWA7SA0689A4	Earth Mark Label

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
Q701,702	2SC2412K-T46	Transistor	D913	B0BC3R000006	Diode
Q703	B1ADCF000004	Transistor	D914,917	B0ACCK000005	Diode
Q901 Δ	2SC4460-MN	Transistor for WV-CM1480/WV-CM1780	D918	B0BC6R700006	Diode
Δ	B1BAKT000005	Transistor for WV-CM2080	D919	YWRD7.5FB2	Diode
Q902	2SD2576	Transistor	D920	EU02ZV0	Diode
Q903	B1DEBD000001	FET	D921	B0BC5R600028	Diode
Q904,905 Δ	YWPC123FY2	Photocoupler	VS301-304	ERZV07D680	Varistor
Q906	IMZ1A	Transistor	VS901 Δ	ERZ1V10D471	Varistor
Q908	B1GBCFJN0004	Transistor	TH901 Δ	D4DDB5R00001	Thermistor
Q909	2SD2576	Transistor	R101	ERJ3GEYJ102V	Metal 1K ohms 1/16W
Q910	2SC2412K-T46	Transistor	R102	ERJ3GEYJ750V	Metal 75 ohms 1/16W
Q911	B1GBCFJN0004	Transistor	R103	ERJ3GEYJ102V	Metal 1K ohms 1/16W
Q912	2SD2576	Transistor	R104	ERJ3GEYJ750V	Metal 75 ohms 1/16W
D101-104	B0BC8R100001	Diode	R105,106	ERJ3GEYJ102V	Metal 1K ohms 1/16W
D106	B0ACCK000005	Diode	R107	ERJ3GEYJ101V	Metal 100 ohms 1/16W
D107,108	B0BC8R100001	Diode	R110	ERJ3GEY0R00	Metal 0 ohm 1/16W
D201,202	B0ACCK000005	Diode	R111	ERJ3GEYJ153V	Metal 15K ohms 1/16W
D203	B0BA5R000018	Diode	R112	ERJ3GEYJ154V	Metal 150K ohms 1/16W
D204-208	B0ACCK000005	Diode	R113	ERJ3GEYJ332V	Metal 3.3K ohms 1/16W
D301	B0ACCK000005	Diode	R114,115	ERJ3GEYJ750V	Metal 75 ohms 1/16W
D302,303	B0BC5R600028	Diode	R116	ERJ3GEYJ101V	Metal 100 ohms 1/16W
D304	B0ACCK000005	Diode	R117	ERJ3GEYJ473V	Metal 47K ohms 1/16W
D305	B3AHA0000007	LED	R118	ERJ3GEYJ223V	Metal 22K ohms 1/16W
D316,317	B0BC8R100001	Diode	R119	ERJ3GEYJ222V	Metal 2.2K ohms 1/16W
D341-344	B0BC8R100001	Diode	R123	ERDS2TJ102T	Carbon 1K ohms 1/4W
D403	YW1T2TA	Diode	R124	ERJ3GEYJ102V	Metal 1K ohms 1/16W
D404,405	B0ACCK000005	Diode	R125	ERJ3GEYJ222V	Metal 2.2K ohms 1/16W
D406	B0BC8R100001	Diode	R126	ERJ3GEYJ102V	Metal 1K ohms 1/16W
D407	B0ACCK000005	Diode	R127,128	ERJ3GEYJ223V	Metal 22K ohms 1/16W
D501	YW3TH41	Diode	R129	ERJ3GEYJ222V	Metal 2.2K ohms 1/16W
D502,505	B0HAMR000002	Diode	R130	ERJ3GEYJ102V	Metal 1K ohms 1/16W
D506	EU02ZV0	Diode	R131	ERJ3GEYJ103V	Metal 10K ohms 1/16W
D507	B0BC8R100001	Diode	R132	ERJ3GEYJ221V	Metal 220 ohms 1/16W
D508,509	B0ACCK000005	Diode	R133	ERJ3GEYJ102V	Metal 1K ohms 1/16W
D511	B0BC3R000006	Diode	R134,135	ERJ3GEYJ391V	Metal 390 ohms 1/16W
D512,513	B0ACCK000005	Diode	R136	ERJ3GEYJ122V	Metal 1.2K ohms 1/16W
D514	B0BC01300001	Diode	R137	ERDS2TJ681T	Carbon 680 ohms 1/4W
D515	B0ACCK000005	Diode	R138,139	ERJ3GEYJ681V	Metal 680 ohms 1/16W
D516	B0BC8R100001	Diode	R140	ERJ3GEYJ181V	Metal 180 ohms 1/16W
D517	EU02ZV0	Diode	R141,144	ERJ3GEY0R00	Metal 0 ohm 1/16W
D518	B0BC01300001	Diode	R145	ERJ3GEYJ221V	Metal 220 ohms 1/16W
D519	B0BC01300001	Diode for WV-CM1480/WV-CM2080	R150	ERJ3GEYJ222V	Metal 2.2K ohms 1/16W
	B0BC8R100001	Diode for WV-CM1780	R151	ERJ3GEYJ102V	Metal 1K ohms 1/16W
D520	B0ACCK000005	Diode	R152,153	ERJ3GEYJ681V	Metal 680 ohms 1/16W
D601,602	YW1T2TA	Diode	R154	ERJ3GEYJ471V	Metal 470 ohms 1/16W
D901 Δ	B0EBNP000001	Diode	R155	ERDS2TJ182T	Carbon 1.8K ohms 1/4W
D902	B0HAMR000002	Diode	R156	ERJ3RHD391V	Metal 390 ohms 1/16W
D903	EU02ZV0	Diode	R158	ER0S2TKF1001	Metal 1K ohms
D904,905	YWES01FV0	Diode	R159	ERJ3GEYJ122V	Metal 1.2K ohms 1/16W
D906	EU02ZV0	Diode	R160	ERDS2TJ562T	Carbon 5.6K ohms 1/4W
D907	YWERB3710	Diode for WV-CM1480/WV-CM1780	R161	ERJ3GEYJ472V	Metal 4.7K ohms 1/16W
	ERD28-08	Diode for WV-CM2080	R162	ERDS2TJ101T	Carbon 100 ohms 1/4W
D908	YWERC3001	Diode	R163	ERJ3GEYJ222V	Metal 2.2K ohms 1/16W
D909	B0BC6R100003	Diode	R166	ERJ3GEYJ681V	Metal 680 ohms 1/16W
D911	B0BC5R600028	Diode	R169	ERJ3GEYJ222V	Metal 2.2K ohms 1/16W

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	
R170	ERJ3GEYJ102V	Metal	1K ohms 1/16W	R257	ERJ3GEYJ222V	Metal	2.2K ohms 1/16W
R171,172	ERJ3GEYJ681V	Metal	680 ohms 1/16W	R258	ERJ3GEYJ562V	Metal	5.6K ohms 1/16W
R173	ERJ3GEYJ511V	Metal	510 ohms 1/16W	R259	ERJ3GEYJ472V	Metal	4.7K ohms 1/16W
R174	ERJ3GEYJ222V	Metal	2.2K ohms 1/16W	R260	ERJ3GEYJ332V	Metal	3.3K ohms 1/16W
R175	ERJ3RHD391V	Metal	390 ohms 1/16W	R261	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R176	ERJ3GEYJ331V	Metal	330 ohms 1/16W	R262	ERJ3GEYJ132V	Metal	1.3K ohms 1/16W
R177	ERJ3RHD182V	Metal	1.8K ohms 1/16W	R265	ERJ3GEYJ332V	Metal	3.3K ohms 1/16W
R178	ERJ3GEYJ152V	Metal	1.5K ohms 1/16W	R266	ERJ3GEYJ224V	Metal	220K ohms 1/16W
R179	ERJ3GEYJ622V	Metal	6.2K ohms 1/16W	R267,268	ERJ3GEYJ102V	Metal	1K ohms 1/16W
R180	ERJ3GEYJ472V	Metal	4.7K ohms 1/16W	R269	ERJ3GEYJ472V	Metal	4.7K ohms 1/16W
R181	ERDS2TJ101T	Carbon	100 ohms 1/4W	R270	ERJ3GEYJ473V	Metal	47K ohms 1/16W
R182,186	ERJ3GEYJ102V	Metal	1K ohms 1/16W	R272	ERJ3GEYJ104V	Metal	100K ohms 1/16W
R187,188	ERJ3GEYJ102V	Metal	1K ohms 1/16W	R273	ERJ3GEYJ473V	Metal	47K ohms 1/16W
R189	ERDS2TJ221T	Carbon	220 ohms 1/4W	R274-276	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R190	ERJ3GEYJ562V	Metal	5.6K ohms 1/16W	R277	ERJ3GEYJ391V	Metal	390 ohms 1/16W
R191	ERJ3GEYJ103V	Metal	10K ohms 1/16W	R278	ERJ3GEYJ101V	Metal	100 ohms 1/16W
R192	ERDS2TJ223T	Carbon	22K ohms 1/4W	R279	ERJ3GEYJ152V	Metal	1.5K ohms 1/16W
R193	ERJ3GEYJ223V	Metal	22K ohms 1/16W	R301	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R194	ERDS2TJ102T	Carbon	1K ohms 1/4W	R302	ERJ3GEYJ102V	Metal	1K ohms 1/16W
R201	ERJ3GEYJ274V	Metal	270K ohms 1/16W	R303	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R203	ERJ3GEYJ333V	Metal	33K ohms 1/16W	R304	ERJ3GEYJ102V	Metal	1K ohms 1/16W
R204	ERDS2TJ752	Carbon	7.5K ohms 1/4W	R305	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R206	ERJ3GEYJ0R00	Metal	0 ohm 1/16W	R306	ERJ3GEYJ102V	Metal	1K ohms 1/16W
R207	ERJ3GEYJ681V	Metal	680 ohms 1/16W	R307	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R208	ERJ3GEYJ331V	Metal	330 ohms 1/16W	R308	ERJ3GEYJ102V	Metal	1K ohms 1/16W
R209	ERJ3GEYJ105V	Metal	1M ohms 1/16W	R309	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R210,211	ERJ3GEYJ101V	Metal	100 ohms 1/16W	R310	ERJ3GEYJ102V	Metal	1K ohms 1/16W
R212-214	ERJ3GEYJ152V	Metal	1.5K ohms 1/16W	R311	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R215-217	ERJ3GEYJ471V	Metal	470 ohms 1/16W	R312	ERJ3GEYJ102V	Metal	1K ohms 1/16W
R218	ERJ3RHD153V	Metal	15K ohms 1/16W	R313	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R219	ERJ3RHD103V	Metal	10K ohms 1/16W	R314	ERJ3GEYJ102V	Metal	1K ohms 1/16W
R220	ERJ3GEYJ473V	Metal	47K ohms 1/16W	R315-317	ERJ3GEYJ101V	Metal	100 ohms 1/16W
R221	ERJ3GEYJ471V	Metal	470 ohms 1/16W	R318	ERG2SJ820P	Metal	82 ohms 2W
R222	ERJ3GEYJ154V	Metal	150K ohms 1/16W	R319	ERDS2TJ473T	Carbon	47K ohms 1/4W
R223	ERJ3GEYJ103V	Metal	10K ohms 1/16W	R320	ERJ14YJ103H	Metal	10K ohms 1/4W
R224	ERJ3GEYJ684V	Metal	680K ohms 1/16W	R321-324	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R225	ERJ3GEYJ101V	Metal	100 ohms 1/16W	R325	ERJ14YJ472H	Metal	4.7K ohms 1/4W
R226	ERJ3GEYJ102V	Metal	1K ohms 1/16W	R326-328	ERJ3GEYJ333V	Metal	33K ohms 1/16W
R227	ERJ3GEYJ331V	Metal	330 ohms 1/16W	R329,331	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R228	ERJ3GEYJ181V	Metal	180 ohms 1/16W	R333,334	ERJ14YJ472H	Metal	4.7K ohms 1/4W
R229,230	ERJ3GEYJ222V	Metal	2.2K ohms 1/16W	R335	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R232	ERDS2TJ184T	Carbon	180K ohms 1/4W	R336	ERJ14YJ472H	Metal	4.7K ohms 1/4W
R233	ERJ3GEYJ684V	Metal	680K ohms 1/16W	R337	ERJ3GEYJ472V	Metal	4.7K ohms 1/16W
R234	ERJ3GEYJ221V	Metal	220 ohms 1/16W	R338-340	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R235	ERJ3GEYJ511V	Metal	510 ohms 1/16W	R341-343	ERJ3GEYJ333V	Metal	33K ohms 1/16W
R236	ERJ3GEYJ221V	Metal	220 ohms 1/16W	R344,345	ERJ3GEYJ560V	Metal	56 ohms 1/16W
R237,238	ERJ3GEYJ103V	Metal	10K ohms 1/16W	R346	ERDS2TJ103T	Carbon	10K ohms 1/4W
R239	ERG2SJ331	Metal	330 ohms 2W	R347	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R240	ERJ3GEYJ332V	Metal	3.3K ohms 1/16W	R348	ERJ3GEYJ222V	Metal	2.2K ohms 1/16W
R251	ERJ3GEYJ222V	Metal	2.2K ohms 1/16W	R349	ERDS2TJ102T	Carbon	1K ohms 1/4W
R252	ERJ3GEYJ123V	Metal	12K ohms 1/16W	R350	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R253	ERJ3GEYJ472V	Metal	4.7K ohms 1/16W	R351	ERJ14YJ103H	Metal	10K ohms 1/4W
R254	ERJ3GEYJ332V	Metal	3.3K ohms 1/16W	R354,355	ERJ3GEYJ102V	Metal	1K ohms 1/16W
R255	ERJ3GEYJ103V	Metal	10K ohms 1/16W	R360	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R256	ERJ3GEYJ132V	Metal	1.3K ohms 1/16W	R361	ERDS2TJ681T	Carbon	680 ohms 1/4W

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	
R362	ERJ3GEYJ221V	Metal	220 ohms 1/16W	R526	ERJ14YJ472H	Metal	4.7K ohms 1/4W
R363	ERDS2TJ821T	Carbon	820 ohms 1/4W		ERJ14YJ392H	for WV-CM1480/WV-CM1780	Metal
R364	ERJ3GEYJ103V	Metal	10K ohms 1/16W			3.9K ohms 1/4W	
R365,366	ERJ3GEYJ102V	Metal	1K ohms 1/16W	R527	ERJ3GEYJ102V	for WV-CM2080	Metal
R369,370	ERJ3GEYJ103V	Metal	10K ohms 1/16W			1K ohms 1/16W	
R371	ERJ3GEYJ472V	Metal	4.7K ohms 1/16W	R528	ERG1SJ102P	Metal	1K ohms 1W
R372,373	ERJ3GEYJ103V	Metal	10K ohms 1/16W	R529	ERJ14YJ562H	Metal	5.6K ohms 1/4W
R374	ERJ3GEYJ472V	Metal	4.7K ohms 1/16W		ERJ14YJ822	for WV-CM1480/WV-CM1780	Metal
R381	ERJ3GEYJ105V	Metal	1M ohms 1/16W			8.2K ohms 1/4W	
R382,383	ERJ3GEYJ333V	Metal	33K ohms 1/16W			for WV-CM2080	
R384-390	ERJ3GEYJ153V	Metal	15K ohms 1/16W	R530	ERJ14YJ122H	Metal	1.2K ohms 1/4W
R391	ERJ3GEYJ184V	Metal	180K ohms 1/16W	R531	ERDS2TJ472T	Carbon	4.7K ohms 1/4W
R392,393	ERJ3GEYJ153V	Metal	15K ohms 1/16W	R532	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R396,397	ERJ3GEYJ222V	Metal	2.2K ohms 1/16W	R533	ERJ3GEYJ152V	Metal	1.5K ohms 1/16W
R398	ERDS1TJ151T	Carbon	150 ohms 1W	R534	ERJ3GEYJ471V	Metal	470 ohms 1/16W
R399	ERJ3GEYJ153V	Metal	15K ohms 1/16W	R535	ERDS2TJ104T	Carbon	100K ohms 1/4W
R401,402	ERJ3GEYJ471V	Metal	470 ohms 1/16W		ERDS2TJ753	for WV-CM1480/WV-CM1780	Carbon
R403	ERJ3GEYJ101V	Metal	100 ohms 1/16W			75K ohms 1/4W	
R404	ERJ3GEYJ223V	Metal	22K ohms 1/16W	R536	ERDS2TJ913	for WV-CM2080	Carbon
R405,406	ERJ3GEYJ102V	Metal	1K ohms 1/16W		ERDS2TJ753	91K ohms 1/4W	
R407	ERJ3GEYJ274V	Metal	270K ohms 1/16W			for WV-CM1480/WV-CM1780	Carbon
R408	ERJ3GEYJ153V	Metal	15K ohms 1/16W			75K ohms 1/4W	
R409	ERJ3GEYJ563V	Metal	56K ohms 1/16W			for WV-CM2080	
	ERJ3GEYJ683V	Metal	68K ohms 1/16W	R537	ERJ3GEYJ473V	Metal	47K ohms 1/16W
		for WV-CM1480/WV-CM1780		R539	ERJ3GEYJ152V	Metal	1.5K ohms 1/16W
		for WV-CM2080		R540,551	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R410	ER025CKF3R00	Metal	3 ohms 1/4W	R554	ERJ3GEYJ331V	Metal	330 ohms 1/16W
R411	ERJ3GEYJ102V	Metal	1K ohms 1/16W	R555	ERJ3GEYJ152V	Metal	1.5K ohms 1/16W
R412	ERJ3GEYJ103V	Metal	10K ohms 1/16W	R556	ERJ3GEYJ273V	Metal	27K ohms 1/16W
R415	ER025CKF3R00	Metal	3 ohms 1/4W	R557	ERJ14YJ103H	Metal	10K ohms 1/4W
R416	ERJ3GEYJ222V	Metal	2.2K ohms 1/16W	R558	ERJ3RHD332V	Metal	3.3K ohms 1/16W
				R559	ERJ6ENF1003V	Metal	100K ohms 1/10W
R417	ERG2SJ561P	Metal	560 ohms 2W		ERJ6ENF1602V	for WV-CM1480	Metal
		for WV-CM2080				16K ohms 1/10W	
R419,420	ERJ3GEYJ103V	Metal	10K ohms 1/16W		ERJ6ENF3302V	for WV-CM1780	Metal
R421,422	ERJ3GEYJ102V	Metal	1K ohms 1/16W			33K ohms	
R423	ERD25FJ330	Carbon	33 ohms 1W			for WV-CM2080	
R424	ERG2SJ221	Metal	220 ohms 2W	R562	ERJ3GEYJ333V	Metal	33K ohms 1/16W
		for WV-CM1480/WV-CM1780		R563	ERDS2TJ272T	Carbon	2.7K ohms 1/4W
	ERG2SJ331	Metal	330 ohms 2W	R564	ERJ3GEYJ103V	Metal	10K ohms 1/16W
		for WV-CM2080		R565	ERX3SJ3R0	Metal	3 ohms 3W
R425	ERJ3GEYJ330V	Metal	33 ohms 1/16W		ERX3SJ3R3	for WV-CM1480/WV-CM2080	Metal
						3.3 ohms 3W	
R426	ERJ3GEYJ152V	Metal	1.5K ohms 1/16W			for WV-CM1780	
R501	ERJ3GEYJ622V	Metal	6.2K ohms 1/16W	R566	ERJ14Y0R00H	Metal	0 ohm 1/4W
R502	ERJ3GEYJ273V	Metal	27K ohms 1/16W	R570	ERQ14AJ2R2P	Fuse Resistor	2.2 ohms 1/4W
R503	ERDS2TJ821T	Carbon	820 ohms 1/4W	R603	ERJ3GEYJ103V	Metal	10K ohms 1/16W
R504	ERJ3GEYJ681V	Metal	680 ohms 1/16W	R609	ERJ3GEYJ222V	Metal	2.2K ohms 1/16W
				R610	ERG1SJ101	Metal	100 ohms 1W
R505,521	ERDS2TJ272T	Carbon	2.7K ohms 1/4W	R611	ERDS2TJ103T	Carbon	10K ohms 1/4W
R522,523	ERG5SJ681P	Metal	680 ohms 5W	R613	ERJ3GEYJ331V	Metal	330 ohms 1/16W
		for WV-CM1480/WV-CM1780		R614	ERDS2TJ123T	Carbon	12K ohms 1/4W
	ERG5SJ471P	Metal	470 ohms 5W	R615	ERD50FJ4R7	Carbon	4.7 ohms 1/2W
		for WV-CM2080		R616	ERQ12AJ120	Fuse Resistor	12 ohms 1/2W
R525	D0D55R6J0001	Wire Wound	5.6 ohms 5W				
		for WV-CM1480/WV-CM1780					
	D0D5100J0001	Wire Wound	10 ohms 5W				
		for WV-CM2080					

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	
R617,618	ERJ3GEYJ104V	Metal	100K ohms 1/16W	C121	F1H1H103A190	Ceramic	0.01 µF
R701	ERJ3GEYJ101V	Metal	100 ohms 1/16W	C122	F1H1H680A004	Ceramic	68 pF
R702	ERJ3GEYJ152V	Metal	1.5K ohms 1/16W	C123	F1H1H181A230	Ceramic	180 pF
R703	ERJ3GEYJ123V	Metal	12K ohms 1/16W	C124	F1H1H680A004	Ceramic	68 pF
R704	ERJ3RHD222V	Metal	2.2K ohms 1/16W	C125	EEUFC1E181B	Electrolytic	180 µF 25V
R705	ERJ3GEYJ562V	Metal	5.6K ohms 1/16W	C126	F1H1H560A231	Ceramic	56 pF
R706	ERJ3GEYJ122V	Metal	1.2K ohms 1/16W		MCUV1H470JCV	Ceramic	47 pF
R707	ERJ3RHD102V	Metal	1K ohms 1/16W			for WV-CM1480/WV-CM1780	
R708	ERJ3GEYJ332V	Metal	3.3K ohms 1/16W			for WV-CM2080	
R709	ERJ3GEYJ683V	Metal	68K ohms 1/16W	C127	F1H1H680A004	Ceramic	68 pF
						for WV-CM1480/WV-CM1780	
R710	ERJ3GEYJ123V	Metal	12K ohms 1/16W		F1H1H101A231	Ceramic	100 pF
R901	△ ERC122ZGM225	Solid	2.2M ohms 1/2W			for WV-CM2080	
R902	△ ERC122ZGM156	Solid	15M ohms 1/2W	C128	EEUEB1V330SB	Electrolytic	33 µF 35V
R903	YWSQZ10AJ2R2	Wire Wound	2.2 ohms 10W	C130	EEUFC1E181B	Electrolytic	180 µF 25V
R904,905	ERG1SJ223	Metal	22K ohms 1W	C131	EEUEB1H100SB	Electrolytic	10 µF 50V
R906	ERDS2TJ224	Carbon	220K ohms 1/4W	C132	F1H1H100A017	Ceramic	10 pF
R907,908	ERD25FJ104	Carbon	100K ohms 1/4W	C133	F1H1H101A231	Ceramic	100 pF
R909	ERJ3GEYJ223V	Metal	22K ohms 1/16W				
R910	ERJ3GEYJ221V	Metal	220 ohms 1/16W	C134	EEUEB1H100SB	Electrolytic	10 µF 50V
R911-913	ERX3SJ8R2P	Metal	8.2 ohms 3W	C135,136	F1H1H103A190	Ceramic	0.01 µF
				C139	F1H1H103A190	Ceramic	0.01 µF
R914	ERG5SJ153	Metal	15K ohms 5W	C140	EEUFC1E181B	Electrolytic	180 µF 25V
R915	ERX3SJR33P	Metal	0.33 ohms 3W	C141	F1H1H103A190	Ceramic	0.01 µF
R916	ERJ3GEYJ222V	Metal	2.2K ohms 1/16W				
R917	ERJ3GEYJ102V	Metal	1K ohms 1/16W	C142,155	F1H1H103A190	Ceramic	0.01 µF
R918	ERG5SJ183	Metal	18K ohms 5W	C201-203	YF400683XKT	Ceramic	0.068 µF
				C204,205	MVUV1C104KBV	Ceramic	0.1 µF
R919	ERJ3GEYJ152V	Metal	1.5K ohms 1/16W	C206	F1H1E223A011	Ceramic	0.022 µF
R920	ERDS2TJ561T	Carbon	560 ohms 1/4W	C207	EEUEB1H2R2SB	Electrolytic	2.2 µF 50V
R921	ERDS2TJ102T	Carbon	1K ohms 1/4W				
R922	ERJ3GEYJ152V	Metal	1.5K ohms 1/16W	C208	F1H1H120A231	Ceramic	12 pF
R923,924	ER050CKF1302	Metal	13K ohms 1/2W	C209	F1H1H103A190	Ceramic	0.01 µF
				C210	EEUFC1C471	Electrolytic	470 µF 16V
R925	ERDS2TJ103T	Carbon	10K ohms 1/4W	C211,212	F1H1E223A011	Ceramic	0.022 µF
R926	ERJ3GEYJ153V	Metal	15K ohms 1/16W	C214	EEUEB1H100SB	Electrolytic	10 µF 50V
R928	ERJ6ENF1601V	Metal	1.6K ohms				
R932	ERJ3GEYJ102V	Metal	1K ohms 1/16W	C215,216	MVUV1C104KBV	Ceramic	0.1 µF
R933	ERJ3GEYJ472V	Metal	4.7K ohms 1/16W	C217	EEUEB1E470SB	Electrolytic	47 µF 25V
				C218	EEUEB1H4R7SB	Electrolytic	4.7 µF 50V
R934	ERJ3GEYJ152V	Metal	1.5K ohms 1/16W	C219	EEUEB1H100SB	Electrolytic	10 µF 50V
R936	ERJ3GEYJ473V	Metal	47K ohms 1/16W	C220	EEUFC1E181B	Electrolytic	180 µF 25V
R937	ERDS2TJ102T	Carbon	1K ohms 1/4W				
R938	△ ERQ14AJ3R9P	Fuse Resistor	3.9 ohms 1/4W	C221	F1H1H101A231	Ceramic	100 pF
R939	ERJ3GEYJ104V	Metal	100K ohms 1/16W	C222	EEUEB1H2R2SB	Electrolytic	2.2 µF 50V
				C223	F1H1H681A004	Ceramic	680 pF
R941	ERJ14YJ122H	Metal	1.2K ohms 1/4W	C224	EEUEB1H1R0SB	Electrolytic	1 µF 50V
R942	ERJ3GEYJ102V	Metal	1K ohms 1/16W	C225	MVUV1C104KBV	Ceramic	0.1 µF
VR101	EVNDXAA03B52	Variable Resistor	500 ohms				
C101-104	EEUEB1H1R0SB	Electrolytic	1 µF 50V	C226	MCUV1H102KBV	Ceramic	1000 pF
C105	EEUEB1E470SB	Electrolytic	47 µF 25V	C227	EEUFC1E181B	Electrolytic	180 µF 25V
				C228	MVUV1C104KBV	Ceramic	0.1 µF
C107	MVUV1C104KBV	Ceramic	0.1 µF	C229	EEUEB1E470SB	Electrolytic	47 µF 25V
C109	EEUEB1H1R0SB	Electrolytic	1 µF 50V	C230	MVUV1C104KBV	Ceramic	0.1 µF
C110	EEUEB1H100SB	Electrolytic	10 µF 50V				
C112,113	F1H1H103A190	Ceramic	0.01 µF	C231,232	F1H1E223A011	Ceramic	0.022 µF
C114	EEUFC1E181B	Electrolytic	180 µF 25V	C233	EEUEB1H100SB	Electrolytic	10 µF 50V
				C234	F1H1H221A274	Ceramic	220 pF
C115	EEUEB1H1R0SB	Electrolytic	1 µF 50V	C235	F1H1H101A231	Ceramic	100 pF
C116	F1H1H560A231	Ceramic	56 pF	C236	EEUEB1A101SB	Electrolytic	100 µF 10V
C117	MCUV1H820JCV	Ceramic	82 pF				
C118	F1H1H680A004	Ceramic	68 pF				
C119	F1H1H181A230	Ceramic	180 pF				

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION	
C237	F1H1H101A231	Ceramic	100 pF	C516	△ ECWH16362HV	Plastic	3600 pF
C238,239	MVUV1C104KBV	Ceramic	0.1 µF			for WV-CM1480/WV-CM1780	
C248	F1H1H103A190	Ceramic	0.01 µF	△ ECWH16562HV	Plastic	5600 pF	
C250	MCUV1H102KBV	Ceramic	1000 pF			for WV-CM2080	
C251	MCUV1H102KBV	Ceramic	1000 pF	C517	ECKD3D471KBP	Ceramic	470 pF
C252	MVUV1C104KBV	Ceramic	0.1 µF			for WV-CM1480/WV-CM1780	
C253	F1H1H103A190	Ceramic	0.01 µF		F1B3D2710001	Ceramic	270 pF
C254,255	F1H1H103A190	Ceramic	0.01 µF			for WV-CM2080	
C301	MCUV1H102KBV	Ceramic	1000 pF	C518	ECQE2334JF	Plastic	0.33 µF 250V
C302-307	MCUV1H102KBV	Ceramic	1000 pF		ECQE2274JF	Plastic	0.27 µF
						for WV-CM1780	
C308	F1H0J1050010	Ceramic	1 µF		ECQE2564JF	Plastic	0.56 µF
C309	EEUFC1A102	Electrolytic	1000 µF 10V			for WV-CM2080	
C310,311	F1H1H103A190	Ceramic	0.01 µF	C519	ECQE4473JF	Plastic	0.047 µF
C312	F1H0J1050010	Ceramic	1 µF	C520	ECEA1HW4R7S	Electrolytic	4.7 µF 50V
C313	MVUV1C104KBV	Ceramic	0.1 µF	C521	EEUEB1V102E	Electrolytic	1000 µF 35V
C314	F1H1H330A231	Ceramic	33 pF	C522	EEUEB2V100E	Electrolytic	10 µF 350V
C315	F1H1H120A231	Ceramic	12 pF	C523	EEUEB2C220E	Electrolytic	22 µF 160V
C317	MCUV1H102KBV	Ceramic	1000 pF	C524	MVUV1C104KBV	Ceramic	0.1 µF
C318,319	F1H1H101A231	Ceramic	100 pF	C526	EEUEB1H3R3SB	Electrolytic	3.3 µF 50V
C320	MVUV1C104KBV	Ceramic	0.1 µF	C527	MVUV1C104KBV	Ceramic	0.1 µF
C321	EEUEB1H100SB	Electrolytic	10 µF 50V	C528	EEUEB1H1R0SB	Electrolytic	1 µF 50V
C331,332	F1H1H103A190	Ceramic	0.01 µF	C529	EEUEB1A101SB	Electrolytic	100 µF 10V
C335	EEUEB1E470SB	Electrolytic	47 µF 25V	C530	EEUEB1H100SB	Electrolytic	10 µF 50V
C341	MVUV1C104KBV	Ceramic	0.1 µF	C540	ECCD2H150J5	Ceramic	15 pF
C342	EEUEB1A221SB	Electrolytic	220 µF 10V	C606	EEUEB1A101SB	Electrolytic	100 µF 10V
C343,344	MVUV1C104KBV	Ceramic	0.1 µF	C607	F1H1H332A190	Ceramic	3300 pF
C345-347	F1H1H101A231	Ceramic	100 pF	C608	EEUEB1H1R0SB	Electrolytic	1 µF 50V
C348	MVUV1C104KBV	Ceramic	0.1 µF	C609	EEUEB1H4R7SB	Electrolytic	4.7 µF 50V
C349	MVUV1C104KBV	Ceramic	0.1 µF	C610	EEUEB1H100SB	Electrolytic	10 µF 50V
C350	EEUFC1A102	Electrolytic	1000 µF 10V	C611	F1H1E473A002	Ceramic	0.047 µF
C401	MVUV1C104KBV	Ceramic	0.1 µF	C612	EEUEB1C102E	Electrolytic	1000 µF 16V
C402	EEUFC1E181B	Electrolytic	180 µF 25V	C613	EEUEB1E331B	Electrolytic	330 µF 25V
C403	MCUV1H102KBV	Ceramic	1000 pF	C615	EEUEB1H1R0SB	Electrolytic	1 µF 50V
C404	F1H1E223A011	Ceramic	0.022 µF	C701	EEUEB1V330SB	Electrolytic	33 µF 35V
C405	ECSF1VE225BB	Tantalum	2.2 µF 35V	C702	F1H1H220A004	Ceramic	22 pF
C406	EEUEB1HR47SB	Electrolytic	0.47 µF 50V			for WV-CM2080	
C407	F1H1H103A190	Ceramic	0.01 µF	C703	EEUEB1A101SB	Electrolytic	100 µF 10V
C408	F1H1H181A230	Ceramic	180 pF	C901	△ YWX75M104VS1	Plastic	0.1 µF
C409	F1H1H103A190	Ceramic	0.01 µF	C903-905	△ ECKDNA152ME	Ceramic	1500 pF
C410	EEUEB1H101SB	Electrolytic	100 µF 50V	C907	EETLD2D331C	Electrolytic	330 µF 200V
C411	EEUEB1H1R0SB	Electrolytic	1 µF 50V			for WV-CM1480/WV-CM1780	
C412	EEUFC1E222E	Electrolytic	2200 µF 25V		EETLD2D681D	Electrolytic	680 µF 250V
C413	F1H1H332A190	Ceramic	3300 pF			for WV-CM2080	
C414	EEUEB1H101SB	Electrolytic	100 µF 50V	C908	EEUEB1A101SB	Electrolytic	100 µF 10V
C415	EEUEB1H100SB	Electrolytic	10 µF 50V	C909	MVUV1C104KBV	Ceramic	0.1 µF
C416	YF400683XKT	Ceramic	0.068 µF	C910	EEUFC1E181B	Electrolytic	180 µF 25V
C417	MVUV1C104KBV	Ceramic	0.1 µF	C911	ECQV1H474JM3	Plastic	0.47 µF
C418	EEUFC1E181B	Electrolytic	180 µF 25V	C912	ECQE2104JF	Plastic	0.1 µF
C419	YF400683XKT	Ceramic	0.068 µF	C913	ECKD3D471KBP	Ceramic	470 pF
C503,504	YWBC7182KH	Ceramic	1800 pF	C914	EEUFC1E181B	Electrolytic	180 µF 25V
C512,513	YWBC7182KH	Ceramic	1800 pF	C915	EEUEB2C101E	Electrolytic	100 µF 160V
C515	△ ECWH16392HV	Plastic	3900 pF	C916	EEUEB2C470E	Electrolytic	47 µF 160V
		for WV-CM1480/WV-CM1780		C917	EEUFC1E102LE	Electrolytic	1000 µF 25V
	△ ECWH16562HV	Plastic	5600 pF				
		for WV-CM2080					

REF. NO.	PART NO.	DESCRIPTION		REF. NO.	PART NO.	DESCRIPTION
C918	ECQE2153JF	Plastic	0.015 μ F	E301 $\triangle$	YWML800H03P	3-pin Terminal
C919	F1H1H332A190	Ceramic	3300 pF	E501	VM142L02	Wire Ass'y for CRT Socket Board CN807 for WV-CM1480/WV-CM1780
C920,921	EEUFC1C471	Electrolytic	470 μ F 16V		K1PA04D00001	Wire Ass'y for CRT Socket Board CN807 for WV-CM2080
C923	EEUFC1C471	Electrolytic	470 μ F 16V			
C924	MVUV1C104KBV	Ceramic	0.1 μ F			
C925,926	EEUEB1H100SB	Electrolytic	10 μ F 50V	E901	YWSK0279	Fuse Holder for F901
C927,928	ECKD3D471KBP	Ceramic	470 pF	E902	YWSK0280	Fuse Holder for F901
VC301	B0CDBA000006	Variable Capacitor		E904	VM142L03	Wire Ass'y for CRT Socket Board CN809 for WV-CM1480/WV-CM1780
L101	YWYS4034	Delay Line			K4EP13C00001	Wire Ass'y for CRT Socket Board CN809 for WV-CM2080
L102	YW2158JPS124	Coil				
L103	YWADLCN035A	Delay Line				
L104	LAP2TA680K	Coil		E910	YWSK0279	Fuse Holder for F902
L105	YWLAP2TA220K	Coil		E911	YWSK0280	Fuse Holder for F902
L106	YWLAP2TA270K	Coil		M31	V7DA1157A3	Heat Sink
L107	G0C150K00001	Coil		M32	V7DA1163A3	Heat Sink for WV-CM1480/WV-CM1780
L108	YWLAP2TA270K	Coil		M33	YWV7DA1112A2	Heat Sink
L109	G0C150K00001	Coil				
L110	YWYS4034	Delay Line		M34	V7DA1113B3	Heat Sink
L111	G0C180JA0019	Coil		M35	V5WA2651A2	Terminal Chassis
L113	ZJYS51R5-2PT	Coil				
L201 $\triangle$	YWFL5R200	Coil				
L301	YWLAP2TA330K	Coil				
L342	G0C2R2KA0029	Coil				
L401	YWLAP2TA330K	Coil				
L502	YWLN952420M	Coil				
L503	YWCD1020331K	Coil				
L901 $\triangle$	G0B103G00003	Line Filter				
L905,906	YWCD2912221	Coil				
CF301	YWNFA41R222T	Ceramic Filter				
T501	TLH15412	Low Freq. Transformer				
T502 $\triangle$	G4G3F0000003	Flyback Transformer for WV-CM1480/WV-CM1780				
$\triangle$	G4G5H0000001	Flyback Transformer for WV-CM2080				
T901 $\triangle$	G4D4A0000018	Switching Transformer				
SW301-307	K0H1BB000051	Tact Switch				
SW310	YWSLHA12BP04	Slide Switch				
SW901 $\triangle$	YWSDDFA3	Power Switch				
X201	H0D357400019	Crystal Oscillator				
X202	H2A156200001	Crystal Oscillator				
X301	H2A800400005	Crystal Oscillator				
X302	H2B983400001	Crystal Oscillator				
CN101,102 $\triangle$	YWP2325	BNC Connector				
CN301	K1KA04A00173	4-pin Connector				
CN302,303	YWTM11R5C66	6-pin Connector				
CN401 $\triangle$	K1KA04A00172	4-pin Connector				
CN601	K1KA03A00083	3-pin Connector				
CN902 $\triangle$	YWB2P3VH	2-pin Connector				
JK101 $\triangle$	K2HA405B0007	Jack				
JK103 $\triangle$	K1CB104B0035	Jack				
JK901 $\triangle$	K2AZ3A000003	AC Inlet Socket				
E200	YW49USPACER	Crystal Spacer for X201				
E201	VM142L01	Wire Ass'y for CRT Socket Board CN804 for WV-CM1480/WV-CM1780				
	K1PA07D00001	Wire Ass'y for CRT Socket Board CN804 for WV-CM2080				

REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
CRT SOCKET BOARD			ACCESSORY PARTS / PACKAGING PARTS		
PCB2 (RTL)	VM480JKY1AYP	Printed Circuit Board Ass'y for WV-CM1480	E102	△ K2CG3DH00027	Power Cord
	VM178JKY1AYP	Printed Circuit Board Ass'y for WV-CM1780	M41	△ V8QA5590BN	Operating Instructions
Q801-803	VM208JKY1AYP	Printed Circuit Board Ass'y for WV-CM2080	M42	PE25X60C03B	Polyethylene Bag
Q804-806	B1AACF000034	Transistor	M43	XSS4+10FN	Fixing Screws for WV-CM2080
	2SC5147	Transistor	M44	YWT050803	Polyethylene Bag for WV-CM2080
D802,803	YW1T2TA	Diode			
R801,802	ERG2SJ223P	Metal 22K ohms 2W	M45	PE80X90C1B	Polyethylene Bag for WV-CM1480/WV-CM1780
R803	ERDS2TJ104T	Carbon 100K ohms 1/4W for WV-CM1480/WV-CM1780		YWT100X110X1	Polyethylene Bag for WV-CM2080
R804,805	ERDS2TJ102T	Carbon 1K ohms 1/4W	M46	PE25X35C05B	Polyethylene Bag
R806,807	ERG2SJ223P	Metal 22K ohms 2W			
R808	ERDS2TJ104T	Carbon 100K ohms 1/4W for WV-CM1480/WV-CM1780	M47	V5PA1021A2	Rack Mounting Bracket for WV-CM2080
R809	ERDS2TJ102T	Carbon 1K ohms 1/4W	M48	V9CA4331ANYP	Packaging Ass'y for WV-CM1480
R810,811	ERG2SJ223P	Metal 22K ohms 2W		V9CB4363ANYP	Packaging Ass'y for WV-CM1780
				V9CB4285ANYP	Packaging Ass'y for WV-CM2080
R812	ERDS2TJ104T	Carbon 100K ohms 1/4W for WV-CM1480/WV-CM1780			
R816,817	ERDS2TJ101T	Carbon 100 ohms 1/4W			
R819,821	ERDS2TJ561T	Carbon 560 ohms 1/4W			
R823	ERDS2TJ561T	Carbon 560 ohms 1/4W			
R824-826	ERC14GK332C	Solid 3.3K ohms 1/4W			
R827	ERDS2TJ224	Carbon 220K ohms 1/4W			
R828	ERDS2TJ101T	Carbon 100 ohms 1/4W			
C802,804	YWSLU7271JH	Ceramic 270 pF			
C806	YWSLU7271JH	Ceramic 270 pF			
C807,808	ECQB1H103JM3	Plastic 0.01 μF			
C809	ECKD3D122KBP	Ceramic 1200 pF			
C810	ECA2VHG4R7B	Electrolytic 4.7 μF 350V			
C811	ECQB1H103JM3	Plastic 0.01 μF			
C812	ECA2VHG4R7B	Electrolytic 4.7 μF 350V			
C820	EEUEB1E101SB	Electrolytic 100 μF 25V			
L801-803	YWLAP2TA560K	Coil 56 μH for WV-CM1480/WV-CM1780			
	LAP2TA680K	Coil 68 μH for WV-CM2080			
L804-806	G0C121K00007	Coil 120 μH for WV-CM1480/WV-CM1780			
	YWLAP2TA560K	Coil 56 μH for WV-CM2080			
CN803	△ YWHPS2199390	CRT Socket for WV-CM1480			
	△ K3B10CA00036	CRT Socket for WV-CM1780			
	△ YWHPS2199390	CRT Socket for WV-CM2080			
CN804	K1KA06A00161	6-pin Connector			
CN806	YWB1PLVTN	1-pin Connector			
CN807	K1KA05A00124	5-pin Connector			
CN808,809	YWRT01T1.3B	1-pin Connector			