

Service Manual

ViewSonic G90fB-4

Model No. VS10794

19" Digital Controlled Color Monitor

(G90fB-4_SM Rev. 1a Jan. 2006)

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Revision History

Revision	SM Editing Date	ECR Number	Description of Changes	Editor
1a	1/9/06		Initial Release	Sophia Kao

1. Precautions and Safety Notices

WARNING!

This service information is designed for experience 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 within this service information by anyone else could result in serious injury or death.

1. CAUTION

No modification of any circuit should be attempted. Service work should only be performed after you are thoroughly familiar with all of the following safety checks and servicing guide lines.

2. SAFETY CHECK

Care should be taken while servicing this CRT display because of the high voltage used in the deflection circuits. These voltages are exposed in such areas as the associated flyback and yoke circuits.

3. FIRE & SHOCK HAZARD

- 3-1 Insert an isolation transformer between the CRT display and AC power line before servicing the chassis.
- 3-2 In servicing pay attention to original lead dress especially in the high voltage circuit. If a short circuit is found, replace all parts which have been overheated as a result of the short circuit.
- 3-3 All the protective devices must be reinstalled per original design.
- 3-4 Soldering must be inspected for possible cold solder joints, frayed leads, damaged insulation, solder splashes or sharp solder points. Be certain to remove all foreign material.

4. LEAKAGE CURRENT COLD CHECK

- 4-1 Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 4-2 Turn the CRT display power switch "on".
- 4-3 Measure the resistance value with an ohmmeter between the jumpered AC plug and each exposed metallic part on the CRT display such as the metal frame, screwheads, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be 1.8 megohm minimum.

5. LEAKAGE CURRENT HOT CHECK

- 5-1 Plug the AC cord directly into the AC outlet. Do not use an isolation transformer during this check.
- 5-2 Connect a 1500 ohm, 10 watt resistor, paralleled by a 0.15uF capacitor between each exposed metallic part and a good earth ground (as shown in Fig.1).
- 5-3 Use an AC voltmeter with 1000 ohm/volt or more sensitivity and measure the AC voltage across the

combination 1500 ohm resistor and 0.15uF capacitor.

5-4 Move the resistor connection to each exposed metallic part and measure the voltage.

5-5 Reverse the polarity of the AC plug in the AC outlet and repeat the above measurement.

5-6 Voltage measured must not exceed 7.5 volt RMS, from any exposed metallic part to ground. A leakage current tester may be used in the above hot check, in which case any current measured must not exceed 5.0 milliamp. In the case of a measurement exceeding the 5.0 milliamp value, a rework is required to eliminate the chance of shock hazard.

Note: High voltage is present when this CRT display is operating. Always discharge the anode of the picture tube to the display chassis to prevent shock hazard.

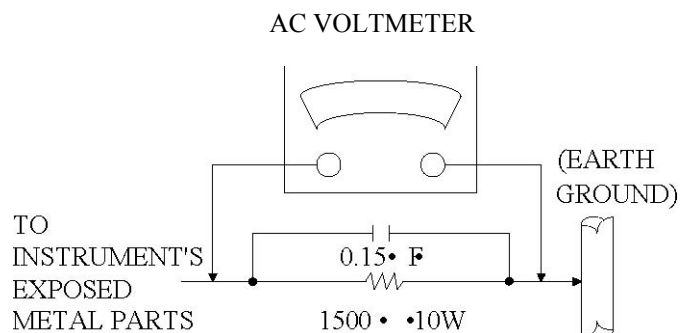


Fig. 1

6. IMPLOSION PROTECTION

Picture tubes are equipped with an integral implosion protection system, but care should be taken to avoid damage and scratching during installation. Use only Panasonic replacement picture tubes.

7. X-RADIATION

WARNING: The only potential source of X-Radiation is the picture tube. However when the high voltage circuit is operating properly there is no possibility of X-Radiation problem. The basic precaution which must be exercised is to keep the high voltage at the following factory-recommended level.

Note : It is important to use an accurate periodically calibrated high voltage meter.

7-1 The procedure for adjusting high voltage is shown on page 12.

7-2 If can not be adjust 25.0 KV at immediate service is required to prevent the possibility of premature component failure.

7-3 To prevent X-Radiation possibility it is essential to use the specified picture tube

IMPORTANT SAFETY NOTICE

There are special components used in this CRT displays which are important for safety. These parts are identified by the international symbol  on the schematic diagram and on the replacement parts list. It is essential that these critical parts should be replaced with manufacture's specified parts to prevent X-RADIATION, shock, fire, or other hazards. Do not modify the original design or this will void the original parts and labor guarantee.

2. Specification

1. CRT : 46CM(19") 90 Deflection, Shadow mask ,29mm Neck, flat high contrast CRT, 0.21mm(H) / 0.25mm (D) dot pitch, Non-Glare Screen
2. Viewable image Size: 45.7CM (18") diagonal
3. Display Color: Unlimited Colors
4. External Controls:
Power On/Off, OSD key, Function knob: Contrast, Brightness, Degauss, H-Size, H-Center, V-Center, V-Size, ZOOM, Pincushion, Trapezoid, Pin-Balance, Parallelogram, Rotation, Color Temperature, H-Moire Reduce, V-Morie, Memory Recall, Language, ViewMeter, OSD position select
5. Input Video Signal

Primary Preset # 1.	1600 X 1200 @ 75HZ
Primary Preset # 2.	1280 X 1024 @ 85HZ
Factory Presets	
VESA 800 x 600 @ 75Hz, 85Hz	MAC 1024 x 768 @ 75Hz
VESA 1024 x 768 @ 75Hz, 85Hz	MAC 1152 x 870 @ 75Hz
VESA 1280 x 1024 @ 75Hz	
Other Factory Presets	
IND 640 x 400 @ 70Hz	VGA 640 x 480 @ 60Hz
VESA 640 x 480 @ 85Hz	

6. Display Size

Horizontal Display Size, Primary Preset	352 mm +/- 4 mm
Horizontal Display Size, Other Presets	352 mm +/- 4 mm
Vertical Display Size, Primary Preset	264 mm +/- 4 mm
Vertical Display Size, Other Presets	264 mm +/- 4 mm
Display Size Adjustment	All preset modes shall expand to full screen size.
Auto Sizing	+/- 8mm compare to default size and within bezel viewable area.

7. Scanning Frequencies

Horizontal:	30KHz ~ 97KHz
Vertical:	50 Hz ~ 160 Hz

8. Factory Preset Timings: 10
User Timings: 10

9. Misconvergence

A Zone:	0.25 mm Max.
B Zone:	0.35 mm Max.

10. Video Bandwidth: 240 MHz
11. Power Source:
Switching Mode Power Supply
AC 90 ~264V, 50/60Hz Universal Type
12. Operating Temperature: 0°C to 40°C Ambient
13. Humidity: 5% to 95% Relative, Non-Condensing
14. Weight: 18.0 kgs / 39.7 (lbs) (Net), 21.2 kgs / 46.7 (lbs) (Gross)

15. Dimensions

	Machine	Package
Width:	445 mm	540 mm
Height:	424 mm(378mm w/o Base)	530 mm
Depth:	465 mm	570 mm

16. External Connection:
15 Pin D-sub Connector
AC Power Cord
17. Power Consumption Modes :
ON Mode < 75Watts
Sleep < 4Watts
Off < 2W (Power switch off)

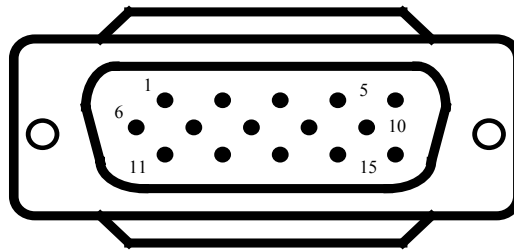
18. Regulatory/Safety

North America	
Regulatory Filing	Regulatory filing should be made under the "VS10794".
WW	UL60950, cUL60950 or CSA 22.2; DHHS Part 21, Subpart J X-Ray Protection; FCC, Part 15, Subpart J, Subpart B; ICES-003, Class B; NOM; Argentina – TUV/S
International	
	CB, TCO03 (Black); TUV/GS, TUV/Ergo, BSMI, CCC, PSB, CE, GOST-R; ISO9241-3 7 8 (covered in TUV-ergo)

Operating instructions

This procedure gives you instructions for installing and using the Color display.

1. Position the display on the desired operation and plug the power cord into a convenient AC outlet. Three-wire power cord must be shielded and is provided as a safety precaution as it connects the chassis and cabinet to the electrical conduit ground. If the AC outlet in your location does not have provisions for the grounded type plug, the installer should attach the proper adapter to ensure a safe ground potential.
2. Connect the 15-pin color display shielded signal cable to your signal system device and lock both screws on the connector to ensure firm grounding. The connector information is as follow:



15 - Pin Color Display Signal Cable

PIN NO.	DESCRIPTION	PIN NO.	DESCRIPTION
1.	RED-V	9.	5V From PC
2.	GREEN-V	10.	Sync GND
3.	BLUE-V	11.	NC
4.	NC	12.	SDA
5.	GND	13.	H- SYNC
6.	GND-R	14.	V- SYNC
7.	GND-G	15.	SCL
8.	GND-B		

3. Apply power to the display by turning the power switch to the "ON" position and allow about thirty seconds for display tube warm-up. The Power-On indicator lights when the display is on.
4. With proper signals feed to the display, a pattern or data should appear on the screen, adjust the brightness and contrast to the most pleasing display.
5. This monitor has power saving function following the VESA DPMS. Be sure to connect the signal cable to the PC.
6. If your color display requires service, it must be returned with the power cord.

3. Front Panel Function Control Description

Adjusting the Screen Image

Use the buttons on the front control panel to display and adjust the OSD controls. The OSD controls are explained at the top of the next page and are defined in “Main Menu Controls” on page 8.



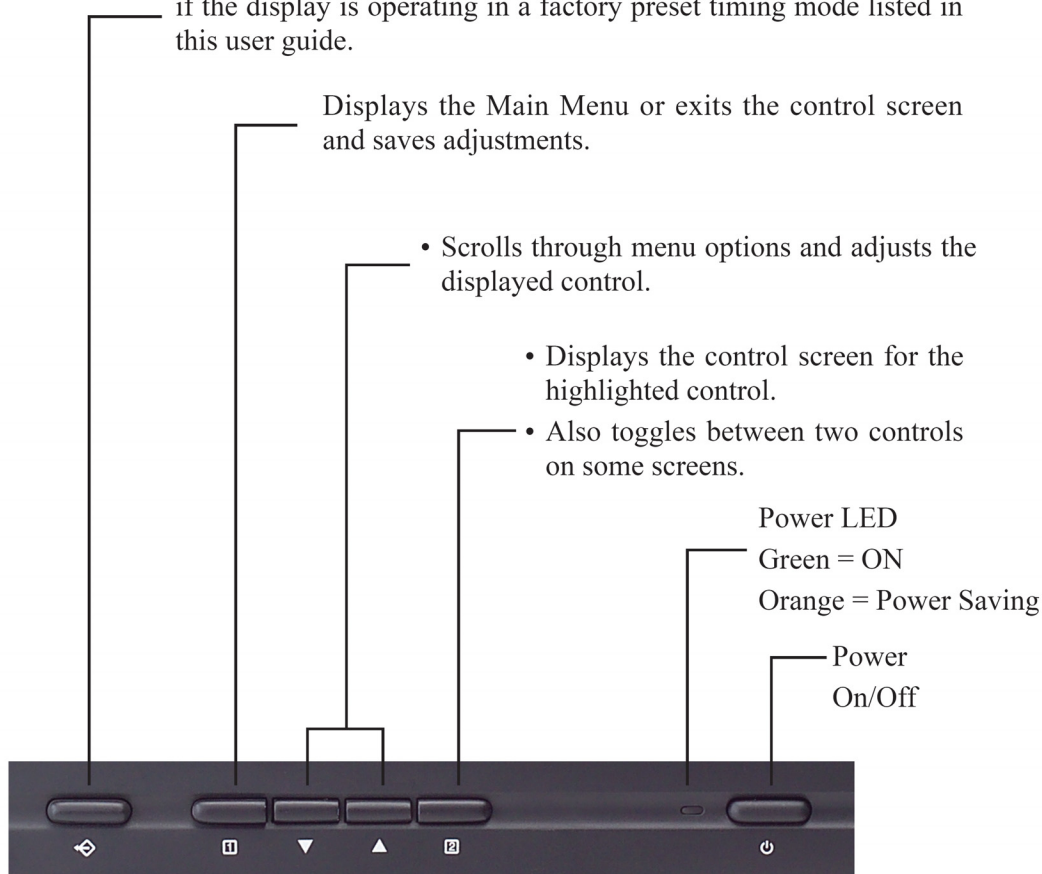
Main Menu

With OSD controls

Front Control Panel

shown below in detail

Memory Recall returns adjustments to the original factory settings if the display is operating in a factory preset timing mode listed in this user guide.



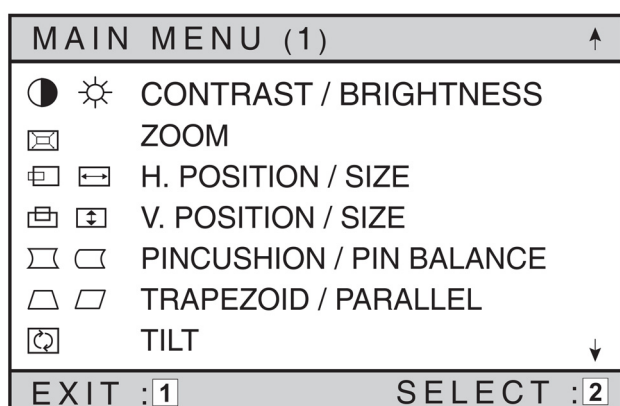
OSD Lock Settings

You have the option of using the On Screen Display (OSD) locking feature, OSD LOCK, to prevent unwanted changes to the current image settings.

- **OSD Lock:** Press and hold the [1] button on the face of the monitor for 10 seconds. The message "OSD LOCK" will then display briefly, indicating that the OSD image settings are now locked.
- **OSD Unlock:** Press and hold the [1] button again for 10 seconds. The message "OSD UNLOCK" will then display briefly, indicating that the OSD image settings are now unlocked.

Do the following to adjust the screen image:

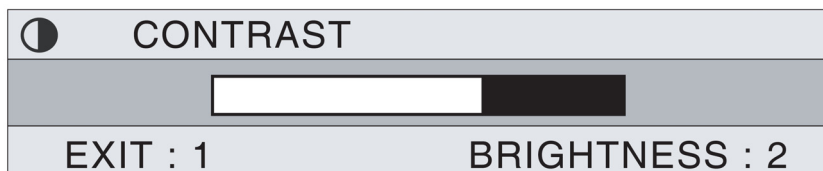
- 1 To display the Main Menu, press button [1].



- 2 To select a control you want to adjust, press the arrow buttons on the front control panel of your monitor and scroll through the choices. When the desired control is highlighted, press button [2].

NOTE: Some controls on the Main Menu are listed in pairs, such as Contrast/Brightness. Display control screen (sample shown in step 3 below). Press button [2] to toggle to the next control in the pair.

- 3 To adjust the setting, such as **CONTRAST** in the sample below, press the arrow buttons.



- 4 To save the control setting and Exit the menu press button [1] twice.

Main Menu Controls

Adjust the menu items shown below by using the up and down buttons.

Control	Explanation
	Contrast adjusts the difference between the image background (black level) and the foreground (white level).
	Brightness adjusts the background black level of the screen image
	ZOOM expands and contracts the entire screen image
	Horizontal Position moves the screen image left or right.
	Horizontal Size adjusts width of the screen image.
	Vertical Position moves the screen image up or down.
	Vertical Size adjusts the height of the screen image.
	Pincushion curves the vertical sides of the screen image.
	Pin Balance curves the vertical edges of the screen image to the left or right.
	Trapezoid adjusts the top and bottom of the screen image until they have equal length.
	Parallel slants the vertical edges of the screen image until they are parallel.
	Tilt rotates the entire screen image.



Degauss removes the build-up of magnetic fields that can cause irregular colors to appear around the edges of screen images. There are two ways to degauss the display: automatically by turning the monitor on, or manually by selecting the Degauss control from the menu. With Degauss selected from the menu, press button [2] to degauss the monitor manually.

Important: *Do not degauss repeatedly. Doing so can be harmful to the display. Wait at least 20 minutes (before selecting this control again.*



ViewMatch® Color provides several color options: several preset color temperatures and User Color which allows you to adjust red (R), green (G), and blue (B). The factory setting for this product is 9300K (9300° Kelvin).

9300K — Adds blue to the screen image for cooler white (used in most office settings with fluorescent lighting).

6500K — Adds red to the screen image for warmer white and richer red.

5000K — Adds blue and green to the screen image for a darker color.

User Color — Individual adjustments for red, green, and blue.



Moire reduces interference patterns that appear as ripples, waves, or unwanted background color textures. Interference patterns of this type are most noticeable when viewing images having closely spaced lines or finely detailed patterns.



Language allows you to choose from among several languages for the menus and control screens: English, French, German, Italian, and Spanish.



Memory Recall returns adjustments to the original factory settings if the display is operating in a factory preset timing mode listed in this user guide.

Exception: This control does not affect changes made with the **User Color** control.



OSD Position allows you to move the on-screen display menus and control screens.



ViewMeter displays the frequencies (horizontal and vertical) coming from the graphics card of the computer.

4. Circuit Description

4-1 Micro controller and deflection circuit

MICRO Controller

The micro controller(IC101) core is a 80C51 type. The micro clock frequency of 12 Mhz is derived from the Xtal oscillator, which is running at 48MHz. The DDC interface is suitable to handle DDC2 by a modified hardware I²C-bus interface. Standard high current ports, 3 ADC ports with voltage inputs and 4 static standard 8 bit DAC outputs (low interference) and one PWM output for digital control application are implemented. The central processing unit (CPU) manipulates operands in two memory spaces. These are the 1024byte internal data memory (consisting of 256 bytes standard RAM and 768 bytes AUX-RAM) and 48K-byte internal program memory. The program memory of the SAA4849 consists of 48K bytes ROM.

The SAA4849P provides sync. Processing with full auto sync. Capability, a flexible SMPS block and an extensive set of geometry control facilities. Further the IC generates the drive waveforms for DC coupled vertical boosters to the TDA8172.

H/V sync signals processor

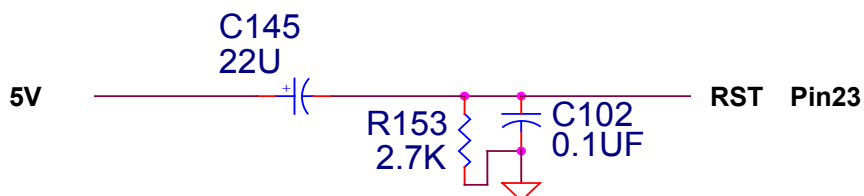
The functions of the sync processor include polarity detection, H-SYNC & V-SYNC signals counting, Programmable SYNC signals output, free running signal generator. Pin52/Pin53 are for the H-SYNC and V-SYNC input. and the polarity are setting in the positive. When no signal input, the Pin49 will output a 75Hz V-SYNC free run signal. The Pin18/20 will output a 60KHz H-SYNC free run signal. for the monitor testing use.

Reset Circuit (pin23)

There are three ways possible to invoke a reset and initialize the SAA4849 micro controller part:

- Via power-on reset circuit
- Via watchdog timer overflow (only micro controller reset)
- Via deflection reset after start up (only micro controller reset)

The reset pin (pin23) is connected to a Schmitt trigger for noise reduction. A reset is accomplished by holding the Reset pin HIGH.



x-ray protection

The x-ray protection (pin22) input XRAY provides a voltage detector with a precise voltage input for X-ray protection. If the input voltage at XRAY exceeds the upper threshold for 150us to 300us, the system is forced to shut down by switching off vertical, H- and B-drive signals. There are two different ways to handle the system in case of XRAY occurrence:

1. If the xray latch enable bit UCXRAY [2] was set to "0" during startup the system will shut down without any interference of the uC. The deflection controller is set to Idle mode. Restart of the system only possible due to switching power off/power on.
2. If register bit UCXRAY [2] was set to "1", micro controller interaction is allowed. If the micro controller doesn't interrupt the system, the system will shut down to Idle mode. For any interaction of the micro controller the XRAY occurrence has to be acknowledged by the micro controller by clearing the bit SY-STATUS [2]. The micro controller takes over the control of the handling via software. The actual xray pin status can be read through bit SY-STATUS [1].

Quartz Oscillator (pin45, pin46)

The quartz oscillator circuit is available on pins XTAL1 (input) and XTAL2 (output) and works together with an external 48MHz 3rd overtone quartz. As a result the quartz oscillator is always running on 48MHz. Other quartz crystal frequencies than 48 MHz cannot be used. External capacitors on XTAL1 and XTAL2 are not allowed.

B+ Control Function Block

The B+ control block of the SAA4849 has the same behaviour as the TDA4856 with adapted threshold voltages. The circuit allows the user to choose the trigger edge of the HDRV signal and the polarity of the output stage via I²C-Bus.

The B+ control function block of the SAA4849 consists of an Operational Transconductance Amplifier (OTA), a voltage comparator, a flip-flop and a discharge circuit. This configuration allows easy application for different B+ control concepts.

HPLL

The horizontal part contains a PLL, which works over the full frequency range from 25kHz to 140 kHz. This range can be reduced by a lower and an upper frequency limit (Write Once Registers HPMAX and HPMIN). Via I²C bus the number of 48MHz clock cycles is sent through the register. The slewing speed during mode change is also programmable in a write once register (HSLEW).

After the clocks for the HPLL are switched on, the HPLL starts with a fixed freerunning frequency of 60 kHz. The H-drive pulses are not active and the start up procedure is inhibited. The default setting of register bit HCONTROL [0] will cause the HPLL to slew, not switch, to the freerunning frequency defined in the I²C register HPFREE (the default value is also 60 kHz). Independent on H-syncs which are possibly present, the HPLL will slew to that freerunning frequency. To achieve an always defined starting point for the startup procedure, this procedure cannot be interrupted.

4-2 Transistor & diode circuit

Location	Circuit function description
BD901	Bridge Rectifier for AC Source
D910	Clamp Diode for snub CKT
D919	Rectifier for Output Voltage
D922	Rectifier for Output Voltage
D923	Rectifier for Output Voltage
D930	Rectifier for Output Voltage
D918	Rectifier for Output Voltage
IC901	Power IC for Switching Power Control.
Q937, Q937	Use for Power Saving
Q912, Q920	Push-Pull Topology to Drive Q911
Q913	Degaussing Switcher Transistor
IC903	5V Regulator IC
Q403	HOR. Driver Transistor
Q417,Q418,Q416,Q420	Horizontal s correction control MOSFET
Q406	Transistor for H-Size Control
Q705	Brightness Control CKT
Q742	V-Dynamic focus CKT
Q402	Q403 Driver MOSFET
Q901	MOS FET for Switching Power Control.

5. Adjusting Procedure

5-1 Adjustment conditions and precautions

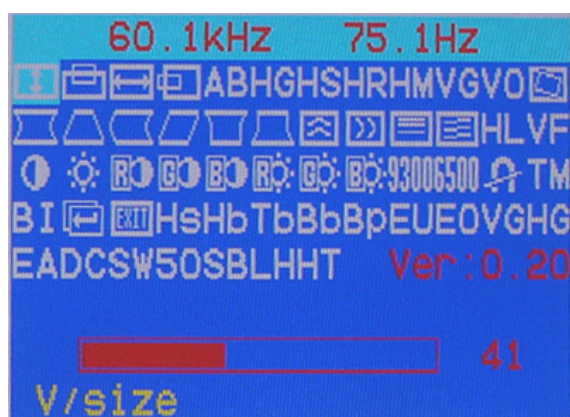
1. Approximately 30 minutes should be allowed for warm up before proceeding.
2. Adjustments should be undertaken only on those necessary elements since most of them have been carefully preset at the factory.

5-2 Main adjustments

NO.	FUNCTION	LOCATION	DESIGNATION
1.	14V ADJ	PCB - MAIN	VR903
2.	B + ADJ	PCB - MAIN	VR902
3.	SCREEN ADJ	FLY BACK TRANS	T402 SCREEN VR
4.	FOCUS ADJ	FLY BACK TRANS	T402 FOCUS VR1&VR2
5.	ABL ADJ	PCB - MAIN	AB in factory OSD
6.	FUNCTION ADJ -MENU 	PCB - MAIN	(SW101)
	-UP 	PCB - MAIN	(SW102)
	-DOWN 	PCB - MAIN	(SW103)
	-SELECT 	PCB - MAIN	(SW104)

5-3 Adjustment method

1. 14V, B + & HV voltage adjustment:
 - A. Chroma-2000 Signal generator or PC equivalent set mode 1, VGA 640X480 pattern 1.0.
 - B. Connect a DC Volt meter between TP901 and ground, then adjust VR903 to be 14VDC.
 - C. Connect a DC Volt meter between TP902 and ground, then adjust VR902 to be 65.5 VDC.
2. Factory preset Timings Adjustment:
 - A. Press  Key to show OSD window press Up or Down Key to switch the functional controls.
 - B. Press the Up Key to select the "ZOOM" function, then press the MENU Key. While do not release the MENU Key until the OSD window changed to the Factory preset window.
 - C. The Factory preset window contains the following functional controls. Select one of the control. Then press the Up/Down Key to adjust its value for the optimum picture.



	CONTRAST		V-LINEARITY
	BRIGHTNESS		V-LINEARITY
	H-CENTER		R-GAIN
	H-SIZE		G-GAIN
	V-CENTER		B-GAIN
	V-SIZE		R-BIAS
	DEGAUSS		G-BIAS
	PINCUSHION		R-BIAS
	TRAPEZOID	9300	COLOR TEMPERATURE
	PIN-BALANCE	6500	COLOR TEMPERATURE
	PARALLELOGRAM	50	COLOR TEMPERATURE
	ROTATION		OSD EXIT
HT	HC/RASTER	VG	MAX V-SIZE GAIN RANGE
HG	H-SIZE GAIN		H-MOIRE REDUCE
HS	SUB H-SIZE		V-MOIRE REDUCE
	TOP CORNER	HL	H-Linearity Modify
	BOTTOM CORNER	VF	V-FOCUS ADJUST
HR	V-HV Variation rate ajust	TM	BURN IN TIME
HM	MAX H-SIZE RANGE	BI	SET BURN-IN
Hs	SUB H-SIZE	Bb	BOTTOM BALANCE
Hb	H-SIZE WAVE BALANCE	Bp	B+ VOLTAGE ADJUST

Tb	TOP BALANCE	EU	EHT CURRENT
EO	EHT OFFSET	EA	EHT AUTO ADJUST
VG	MAX V-SIZE GAIN RANGE	DC	Video IC dc off set
HG	H-SIZE GAIN	SW	H-frequency select
SB	HIGH BRIGHTNESS SELECT	LH	Brightness Save
	RETURN	VO	V-CENTER OFFSET
AB	ABL ADJUSTMENT		

D. To switches the input signal to the other Timing Mode. Please follow step A ~ C to get the optimum picture.

E. Select the "  " RETURN function and press the MENU Key, then the Factor Preset window will be returned to the original OSD window.(user's operating condition)

F. The setting data of the CONTRAST, BRIGHTNESS, PIN-BALANCE, PARALLELOGRAM, ROTATION, COLOR TEMPERATURE are common mode saved in the memory. Don't needed adjust it individual at every timing Mode and save in the memory.

3. White Balance, Luminance adjustment:

A. Press MENU Key to show OSD menu ,and press the down Key to select the "size/center" function, then press the menu Key to enter second menu, press the down key to select "  "(zoom) about 10S,,then enter into factory setting area for modulation.

B. Set R,G,B gain DAC value for 50, R ,G ,B bias DAC value for 60.

C. Raster Pattern, Brightness & contrast ratio MAX, fix to G-BIAS,fix to 60. adjust R or B bias, make $x=265\pm10$, $y=290\pm10$, adjust G2,make $Y=3.5 \text{ cd/m}^2$,and then adjust brightness,make $Y=0.05 \text{ cd/m}^2$,then save it into 9300K,6500K,5000K color temprature.

D. Adjust R or G or B gain, make $x=346\pm10$, $y=359\pm10$, $Y=150\pm5 \text{ cd/m}^2$,then save it into 5000K color temprature .

E. Adjust R or G or B gain, make $x=313\pm10$, $y=329\pm10$, $Y=150\pm5 \text{ cd/m}^2$,then save it into 6500K color temprature .

F. Adjust R or G or B gain, make $x=283\pm10$, $y=297\pm10$, $Y=150\pm5 \text{ cd/m}^2$,then save it into 9300K color temprature

G. After modulation, it's necessary to check if the white balance accords with the normal specification. If not, which needs reset.

4. Focus Adjustment:

A. Under 1024×768 Fv: 85Hz with character full page.

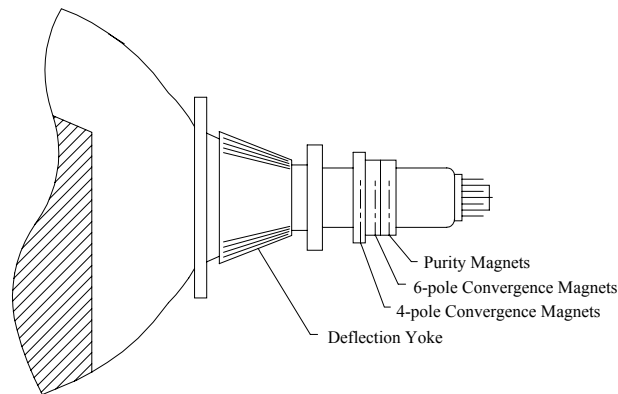
B. Adjust brightness to center and contrast to max.

- C. Then adjust focus VR1 to a fine vertical line.
- D. Adjust focus VR2 to a fine horizontal line.
- E. Repeat step C & D. then fix the Focus VR, G2 VR.

5. Purity Adjustment

- A. Be sure that the display is not being exposed to any external magnetic fields.
- B. Ensure that the spacing between the Purity, Convergence, Magnet, (PCM), assembly and the CRT stem is 29mm. (See below diagram)
- C. Produce a complete, red pattern on the display. Adjust the purity magnet rings on the PCM assembly to obtain a complete field of the color red. This is done by moving the two tabs in such a manner that they advance in an opposite direction but at the same time to obtain the same angle between the two tabs, which should be approximately 180°.
- D. Check the complete blue and complete green patterns to observe their respective color purity. Make minor adjustments if needed.

RELATIVE PLACEMENT OF TYPICAL COMPONENTS

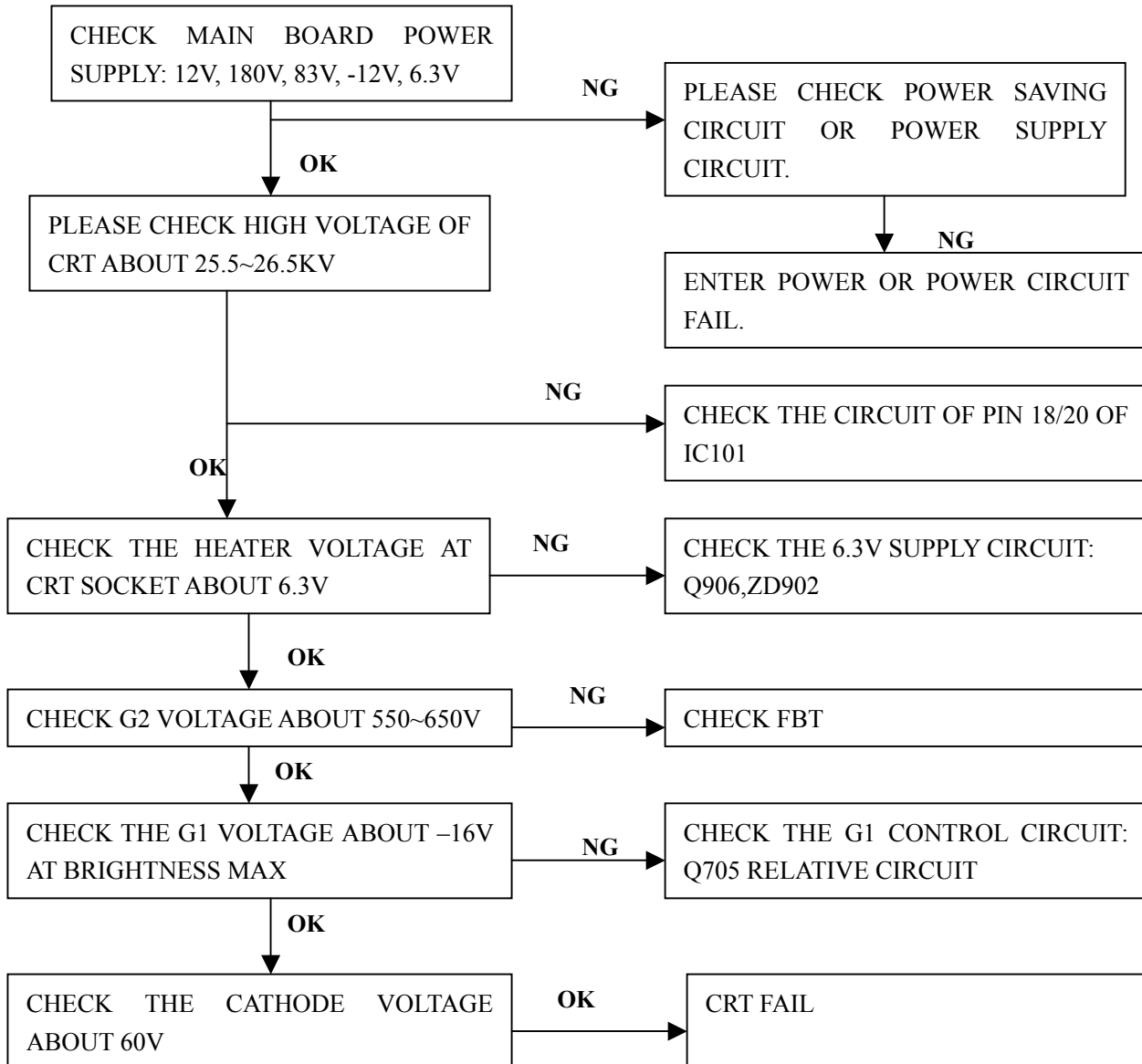


6. Convergence adjustment

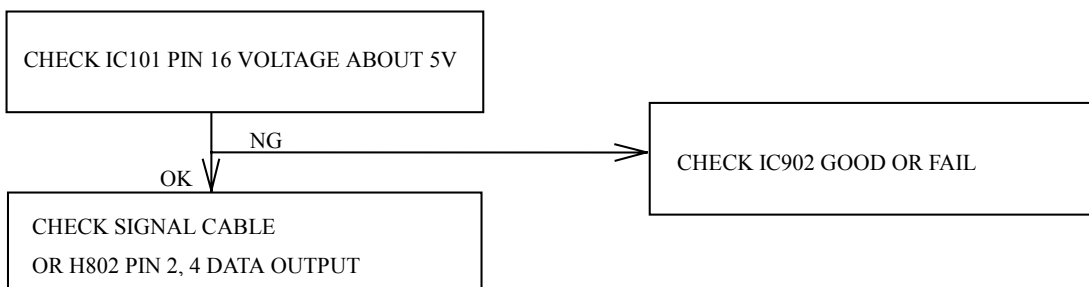
- A. Produce a magenta crosshatch on the display.
- B. Adjust the focus for the best overall focus on the display.
Also adjust the brightness to the desired condition.
- C. Vertical red and blue lines are converged by varying the angle between the two tabs of the 4 pole magnets on the PCM assembly. (See above diagrams)
- D. Horizontal red and blue lines are converged by varying the two tabs together, keeping the angle between them constant.
- E. Produce a white crosshatch pattern on the display.
- F. Vertical green and magenta lines are converged by varying the angle between the two tabs of the 6-pole magnets.
- G. Horizontal green and magenta lines are converged by varying the two tabs together, keeping the angle between them constant.

6. Trouble Shooting Flow Chart

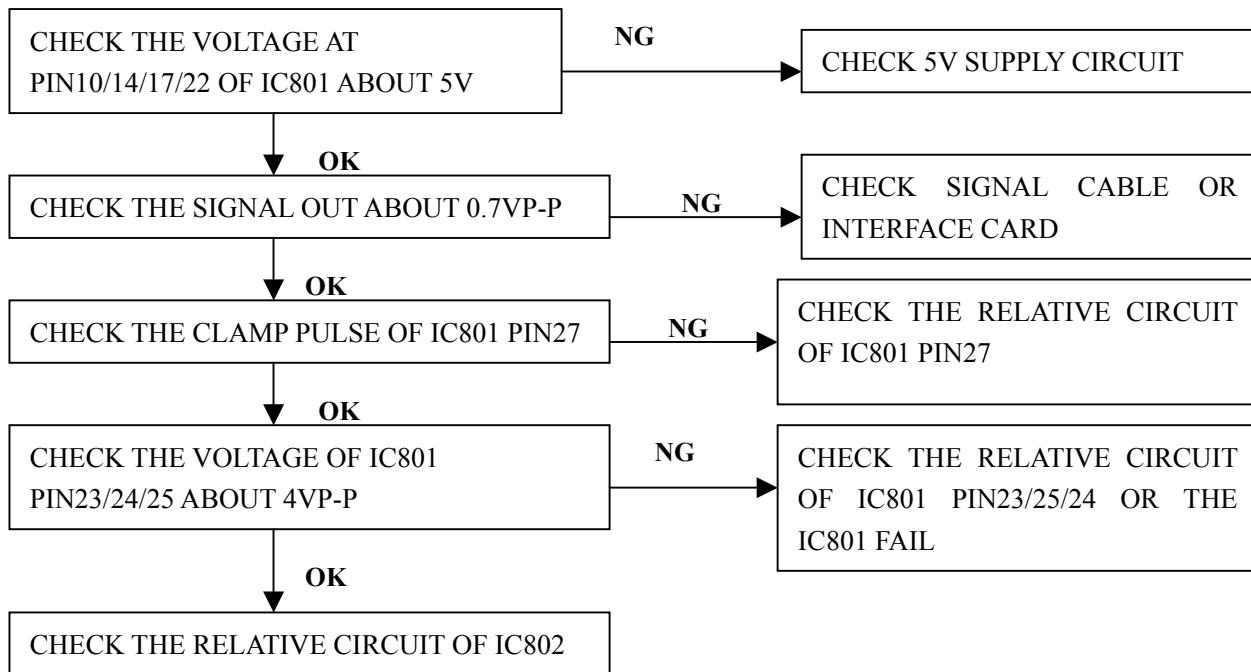
6-1. No raster,CRT relative circuit problems



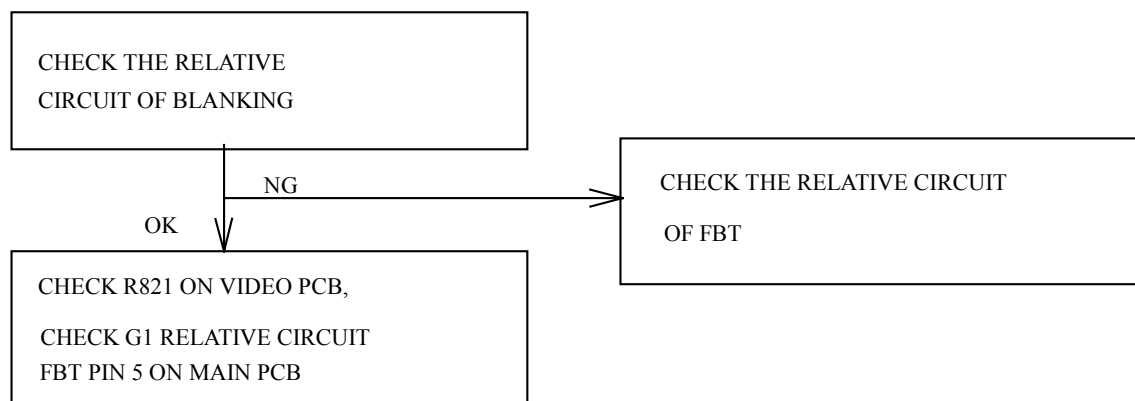
6-2. Abnormal DDC (Plug & Play)



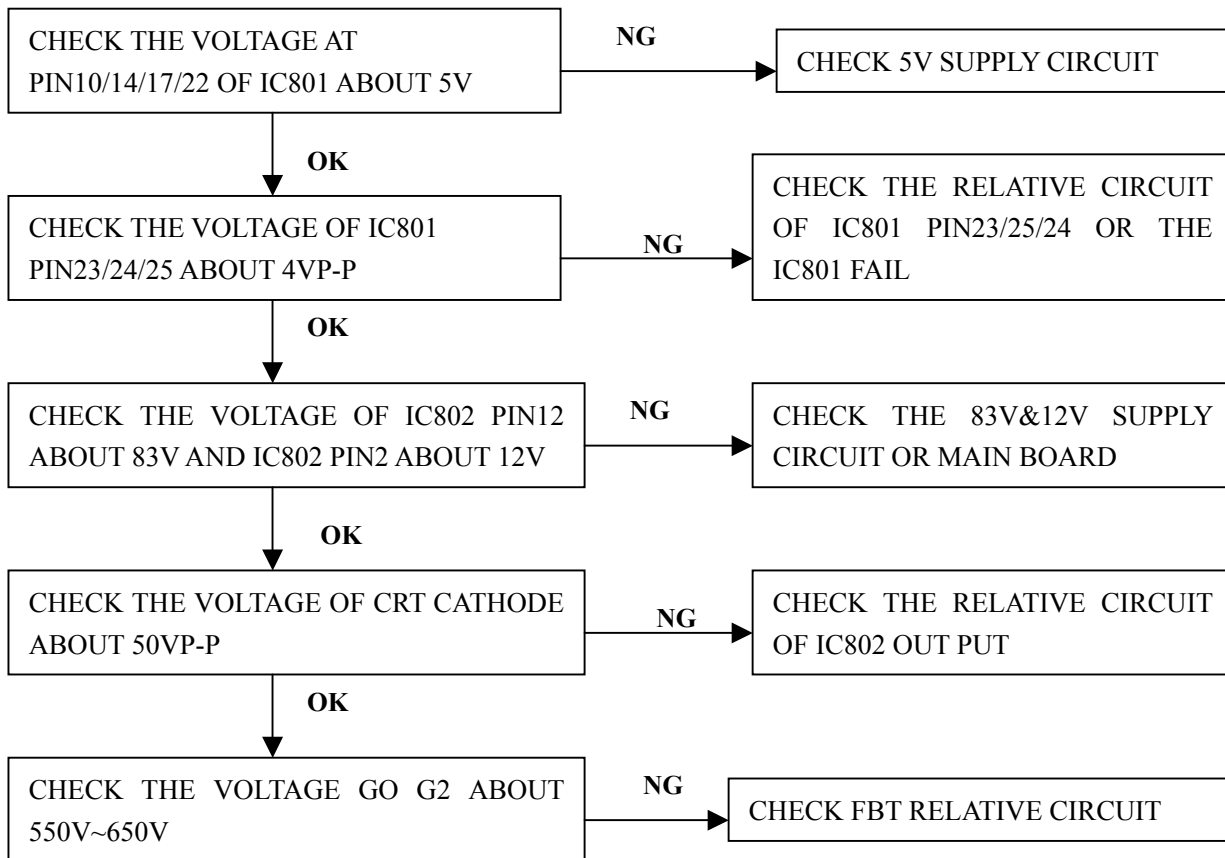
6-3. Abnormal video level on screen



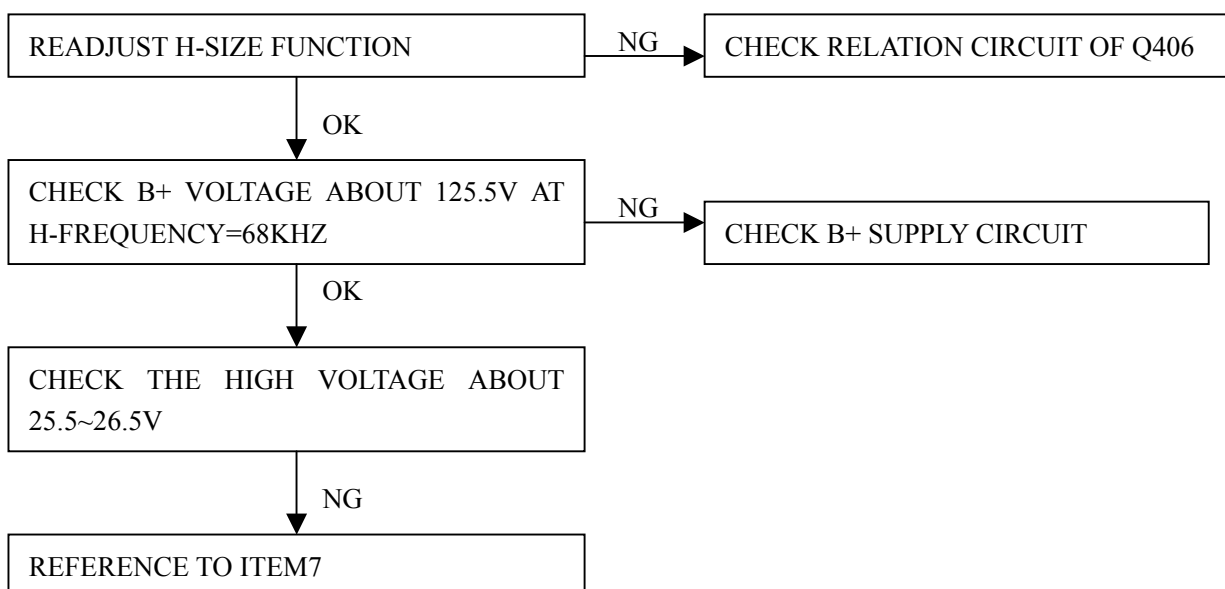
6-4. No blanking



6-5. No signal on screen



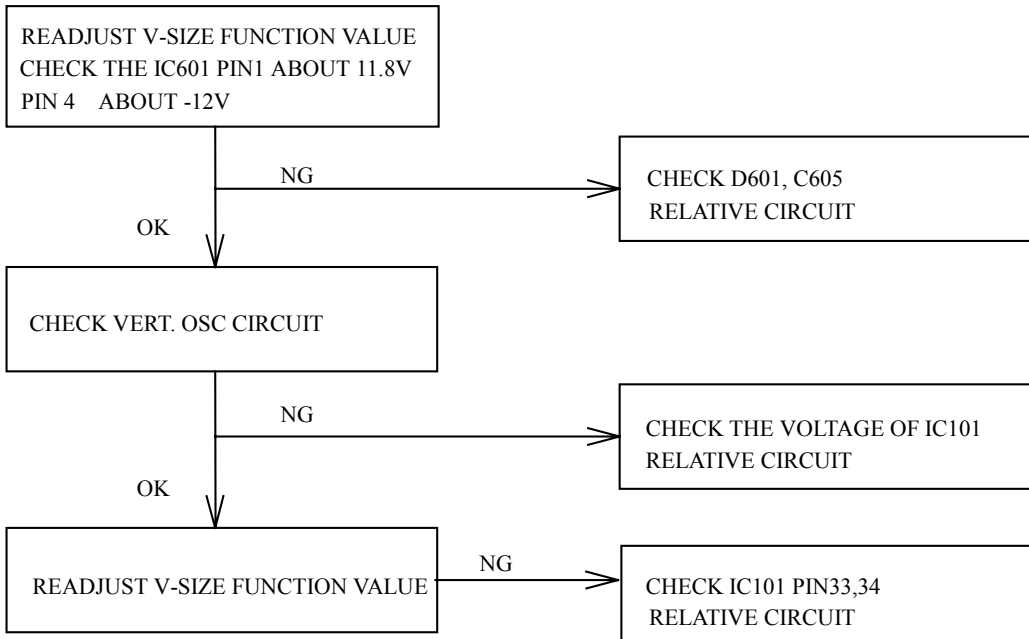
6-6. Abnormal horizontal width of video



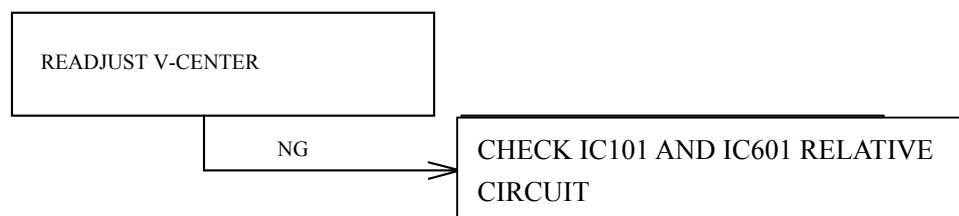
6-7. Abnormal horizontal linearity

CHECK L401, Q426, Q420, Q427
AND IC101 PIN9,10,11

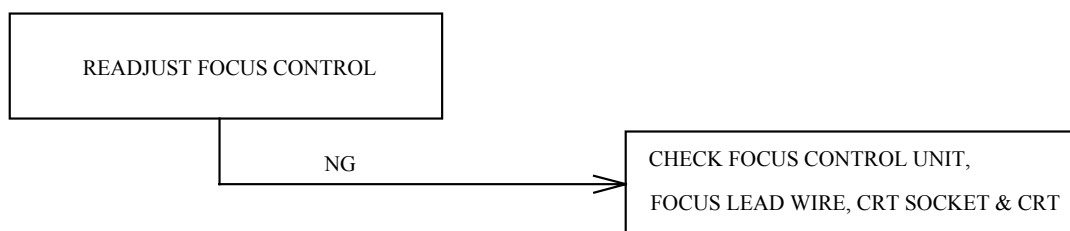
6-8. Abnormal vertical size



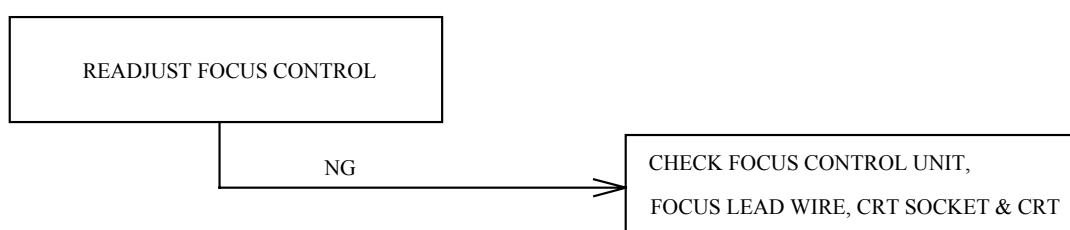
6-9. Vertical center



6-10. Side-pin cushion distortion



6-11. Poor focus

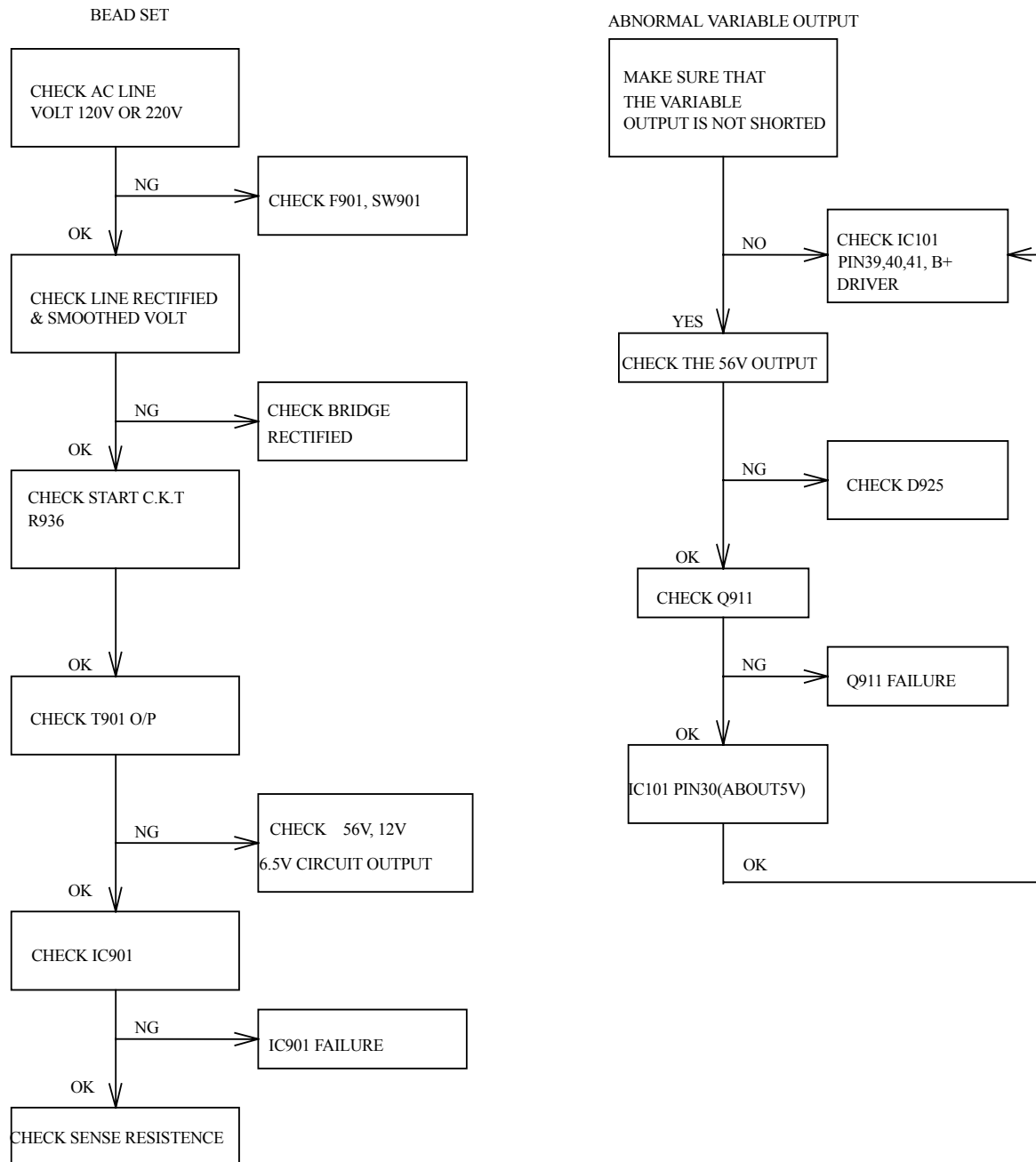


6-12. Power supply trouble shooting chart

Before check SW.REG.Please refer to the power supply block diagram power supply output:

(A) Variable output: 60V

(B) Constant output : 6.3V, 12V,83V, 180.V, -12V



7. Recommended Spare Parts List

RECOMMENDED SPARE PARTS LIST (G90fB-4M)

ViewSonic Model Number: VS10794-3M

Rev: 1a

Serial No. Prefix: PY9

Item	Description	ECR/ECN	ViewSonic P/N	Ref. P/N	Location	Universal number#	Q'ty
1	Accessories: POWER CORD(-4M)		A-00004049	89C402A18N IS			1
2	Board Assembly: CRT BOARD		B-00004889	CRP995D1NHVWP			1
3	CHASSIS FOR P995D-1HSVW		B-00004890	CMP995D1NHVWP			1
4	Cabinets: BACK COVER		C-00004891	34C6286 E7 T			1
5	BASE		C-00004892	34C 741 QE B			1
6	FRONT PANEL		C-00004893	34C6285AFD T			1
7	Cables: SIGNAL CABLE		CB-00004894	89C 71B8MC HM			1
8	Documentation: QUICK SET UP GUIDE		DC-00004672	41C 6870913A			1
9	Electronic U4KB80R		E-00004072	93C 50460 16	BD901		1
10	Components : 220UF 400V		E-00004073	67C 3022114P	C907		1
11	FMQ-G2FS		E-D-0403-2033	93C 220 13	D408		1
12	RGP10D		E-00004895	93C102050152T	D911		1
13	FUSE CLIP		E-00004658	84C 33 10	F901		1
14	SAA4849PS		E-00004059	56C1125575 X	IC101		1
15	M24C08-WBN6P		E-00002717	56C1133508	IC102		1
16	E-STV8172A		E-00004896	56C 533 1	IC601		1
17	LM1246DKA/NA/NOPB		E-IC-0401-4019	56C 366509	IC801		1
18	LM2465TA		E-00001622	56C 551521	IC802		1
19	TEA1507P		E-00004060	56C 625500 S	IC901		1
20	COIL		E-00004074	73C 147542 H	L401		1
21	NTCR 10OHM+-20% 5A THIN		E-R-0405-0377	61C 58 9T	NR901		1
22	PTCR 90OHM+-20% 220V WAL		E-00002725	61C 52 27 4W	PR901		1
23	2SC5905		E-00004089	57C 706508	Q403		1
24	BC547B		E-00004897	57C 4197AP T	Q407		1
25	STP9NK70Z		E-00004071	57C 724502	Q901		1
26	SPARK GAP		E-00004898	62A 10 16 W	SG408		1
27	CRT SOCKET(QQ FOCUS)		E-00002860	87C3504 ZW	SOCKET		1
28	MINI PUSH SWITCH		M-SW-0815-0208	77C411A 2 S	SW901		1
29	CARTON		P-00004899	44C6925709 4A			1
30	Packing Material: EPS CUSHION		P-00004077	44C6932 1			1
31	EPS CUSHION		P-00004078	44C6932 2			1

Remark 1: Above listed items are examples, supplier can expand the rows to add more necessary items.

Remark 2: All revised RSPLs with newly added items or any change made should be highlighted and correlated with the ECN/ECR approved by ViewSonic Corporation. This is to eliminate repeated cross checks of each item between this version and prior versions.

RECOMMENDED SPARE PARTS LIST (G90fB-4E)

ViewSonic Model Number: VS10794-3E

Rev: 1a

Serial No. Prefix: PYA

Item	Description	ECR/ECN	ViewSonic P/N	Ref. P/N	Location	Universal number#	Q'ty
1	Accessories:						1
2	Board Assembly:						1
3							1
4	Cabinets:						1
5							1
6							1
7	Cables:						1
8	Documentation:						1
9	Electronic						1
10	Components :						1
11							1
12							1
13							1
14							1
15							1
16							1
17							1
18							1
19							1
20							1
21							1
22							1
23							1
24							1
25							1
26							1
27							1
28							1
29							1
30	Packing Material:						1
31							1

Remark 1: Above listed items are examples, supplier can expand the rows to add more necessary items.

Remark 2: All revised RSPLs with newly added items or any change made should be highlighted and correlated with the ECN/ECR approved by ViewSonic Corporation. This is to eliminate repeated cross checks of each item between this version and prior versions.

RECOMMENDED SPARE PARTS LIST (G90fB-4P)

ViewSonic Model Number: VS10794-3P

Rev: 1a

Serial No. Prefix: PYC

Item	Description	ECR/ECN	ViewSonic P/N	Ref. P/N	Location	Universal number#	Q'ty
	Accessories:						
	POWER CORD(-4P)		A-00002680	89C420A18N IS			1
	Board Assembly:						
	CRT BOARD		B-00004889	CRP995D1NHVWP			1
	CHASSIS FOR P995D-1HSVW		B-00004890	CMP995D1NHVWP			1
	Cabinets:						
	BACK COVER		C-00004891	34C6286 E7 T			1
	BASE		C-00004892	34C 741 QE B			1
	FRONT PANEL		C-00004893	34C6285AFD T			1
	Cables:						
	SIGNAL CABLE		CB-00004894	89C 71B8MC HM			1
	Documentation:						
	QUICK SET UP GUIDE		DC-00004672	41C 6870913A			1
	Electronic Components :						
	U4KB80R		E-00004072	93C 50460 16	BD901		1
	220UF 400V		E-00004073	67C 3022114P	C907		1
	FMQ-G2FS		E-D-0403-2033	93C 220 13	D408		1
	RGP10D		E-00004895	93C102050152T	D911		1
	FUSE CLIP		E-00004658	84C 33 10	F901		1
	SAA4849PS		E-00004059	56C1125575 X	IC101		1
	M24C08-WBN6P		E-00002717	56C1133508	IC102		1
	E-STV8172A		E-00004896	56C 533 1	IC601		1
	LM1246DKA/NA/NOPB		E-IC-0401-4019	56C 366509	IC801		1
	LM2465TA		E-00001622	56C 551521	IC802		1
	TEA1507P		E-00004060	56C 625500 S	IC901		1
	COIL		E-00004074	73C 147542 H	L401		1
	NTCR 100HM+-20% 5A THIN		E-R-0405-0377	61C 58 9T	NR901		1
	PTCR 90HM+-20% 220V WAL		E-00002725	61C 52 27 4W	PR901		1
	2SC5905		E-00004089	57C 706508	Q403		1
	BC547B		E-00004897	57C 4197AP T	Q407		1
	STP9NK70Z		E-00004071	57C 724502	Q901		1
	SPARK GAP		E-00004898	62A 10 16 W	SG408		1
	CRT SOCKET(QQ FOCUS)		E-00002860	87C3504 ZW	SOCKET		1
	MINI PUSH SWITCH		M-SW-0815-0208	77C411A 2 S	SW901		1
	Packing Material:						
	CARTON		P-00004899	44C6925709 4A			1
	EPS CUSHION		P-00004077	44C6932 1			1
	EPS CUSHION		P-00004078	44C6932 2			1

Remark 1: Above listed items are examples, supplier can expand the rows to add more necessary items.

Remark 2: All revised RSPLs with newly added items or any change made should be highlighted and correlated with the ECN/ECR approved by ViewSonic Corporation. This is to eliminate repeated cross checks of each item between this version and prior versions.

BOM LIST (G90fB-4M/E/P)

ViewSonic Model Number: VS10794-3M/E/P

Rev: 1a

Serial No. Prefix: PY9 / PYA / PYC

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
1	B-00004890	CMP995D1NHVWP	CHASSIS FOR P995D-1HSVW			1
2	#N/A	1C 503 5T 47	SCREW FOR CRT			4
3	#N/A	5C600604075S	CRT WASHER			2
4	#N/A	5C600605075S	CRT WASHER			2
5	#N/A	7C 1 4V27	WOODEN PALLET			0
6	#N/A	11C 112500	WIRE MOUNT			1
7	#N/A	11C 115500	FBT CLIP			1
8	PL-00002752	12C 385 1	RUBBER FOOT	V000		0
9	#N/A	23C3182 1	Logo			1
10	#N/A	33C6336 E7 T	POWER KNOB			1
11	#N/A	33C6337 1	LENS			1
12	#N/A	33C6338 E7 T	KEY PAD			1
13	#N/A	33C6339 E7 T	OSD KNOB			1
14	#N/A	33C6918 Y A	S.W.CAP			1
15	#N/A	34C 741 QE B	BASE			1
16	C-00004893	34C6285AFD T	FRONT PANEL			1
17	C-00004891	34C6286 E7 T	BACK COVER			1
18	#N/A	34C6293 QE B	SWIVEL			1
19	#N/A	40C 152509	RECYCLE LABEL	V000		0
20	#N/A	40C 152512	RECYCLE LABEL	V000		0
21	#N/A	40C 153 19 3B	CRT WARNING LABEL			1
22	#N/A	40C 58162410A	H/V LABEL			1
23	#N/A	40C 58162435A	MANUAL P/N LABEL			1
24	#N/A	40C 581625 2A	PALLET LABEL			0
25	#N/A	40C 581709 1A	CARTON LABEL			1
26	#N/A	40C 58170918D	PALLET LABEL			0
27	#N/A	40C 58170923A	VIEWCARE LABEL			1
28	#N/A	40C 90P709 3A	RATING LABEL			1
29	DC-00004672	41C 6870913A	QUICK SET UP GUIDE			1
30	#N/A	41C 6870914A	TCO'03 PAPER			1
31	P-00004899	44C6925709 4A	CARTON			1
32	P-00004077	44C6932 1	EPS CUSHION			1
33	P-00004078	44C6932 2	EPS CUSHION			1
34	P-00004101	45C 76 20 RN	PE BAG FOR MONITOR			1
35	P-00002871	45C 76 28 V3	PE BAG FOR MANUAL			1
36	#N/A	45C 76 34 RN	PE BAG FOR BASE	V000		0
37	#N/A	45C 88601 C	EPE COVER			1
38	#N/A	50C 500500	CABLE TIE			2
39	#N/A	50C 500502	CABLE TIE			7
40	#N/A	50C 502 2	PLASTIC TIE			2
41	#N/A	50C 502 5	CABLE TIE			1
42	#N/A	51C 6 4	SILICON			9
43	#N/A	52C 1150 C	TAPE			2
44	#N/A	52C 1185	MIDDLE TAPE FOR CARTON			6
45	#N/A	52C 1185 1	BIG TAPE			6
46	#N/A	52C 1186	SMALL TAPE			5
47	#N/A	70CD918709 3B	CD MANUAL			1
48	#N/A	85C6024506	HIELD			1
49	CB-00004894	89C 71B8MC HM	SINGEL CABLE	E089B		1
50	A-00004049	89C402A18N IS	POWER CORD	E089A		1
51	A-00004529	89C402A18N LS	POWER CORD	E089A		0
52	#N/A	95C 91205810	WIRE HARNESS			1
53	HW-00002750	B1C1035 10 47	SCREW			1
54	HW-00002758	D1C1140 7128	SCREW 4X7(FOR AC)			1
55	HW-00002749	Q1C 340 16 47	SCREW			4
56	E-00004542	750A1697 77BAG	DEGAUSSING COIL			1
57	E-00003861	750C55382AV	SDI 19" DFT-M WB CRT	E750A		0
58	#N/A	AMP995D1NHVWP	MAIN BOARD FOR P995D-1H			1
59	#N/A	MP995D1NSMTVW	MAIN BOARD SMT FOR P995			1
60	B-00004889	CRP995D1NHVWP	CRT BOARD			1
61	#N/A	9C 203 8	BRASS PIN	GND1		1
62	#N/A	9C 203 8	BRASS PIN	GND2		1
63	#N/A	11C6033 3	PCB SUPPORT			2
64	#N/A	15C5640 1 A	B GND LUG			2
65	#N/A	19C 553 3	SPRING PIECE	GND-PIN		1
66	#N/A	19C 553500	SPRING PIECE	GND-PIN		1
67	#N/A	33C3074 1	2P PLUG	CN902		1
68	#N/A	33C3192 4	4P PLUG	P402		1
69	#N/A	33C3803 3	WAFER EH-E	P403		1
70	#N/A	40C 581624 2B	CHASSIS LABEL			1
71	E-IC-0401-2813	56C 133 5 ST	L7805CV	IC905		1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
72	#N/A	56C 139 5	TCET 1103	IC902		1
73	#N/A	56C 379 16	UC3843ACD	IC405		1
74	E-00004060	56C 625500 S	TEA1507P	IC901		1
75	E-00004059	56C1125575 X	SAA4849PS	IC101		1
76	E-00002717	56C1133508	M24C08-WBN6P	IC102		1
77	E-00002859	61C 52 27 4J	PTCR	PR901		0
78	E-00002725	61C 52 27 4W	PTCR 90HM+-20% 220V WAL	PR901		1
79	#N/A	61C 208151 64	MOFR 150 OHM +-5% 1W	R468		1
80	#N/A	61C 208390 64	MOFR 39 OHM +-5% 1W	R400		1
81	#N/A	61C152M150 64	MOFR 15 OHM+-5% 2W	R455		1
82	#N/A	61C152M330 64	MOFR 33 OHM+-5% 2W	R451		1
83	#N/A	61C152M473 64	MOFR 47K OHM+-5% 2W	R927		1
84	#N/A	61C152M560 64	MOFR 56 OHM+-5% 2W	R917		1
85	#N/A	61C152M823 64	MOFR 82K+-5% 2W	R427		1
86	#N/A	61C153M189 59	MOFR 1.8 OHM +-5% 3W	R428		1
87	#N/A	61C153M202 59		R426		1
88	#N/A	61C153M222 59	MOFR 2.2K OHM +-5% 3W	R429		1
89	E-SP-0417-0097	62A 10 16 J	SPARK GAP 1KV +500-100V	SG408		0
90	E-00004898	62A 10 16 W	SPARK GAP	SG408		1
91	#N/A	63C210J1042CU	0.1UF 250V	C428		1
92	#N/A	63C210J1051CC	1UF 100V	C436		1
93	#N/A	63C210J1051CR	1UF 100V	C436		0
94	#N/A	63C210J1052CC	1.0UF 250V	C427		0
95	#N/A	63C210J1052CU	MPP +-5% 1UF/250V	C427		1
96	#N/A	63C210J1842CU	0.18UF +-5% 250V FOR CA	C423		1
97	#N/A	63C210J1843CC	0.18UF +-5% 400V FOR CA	C426		1
98	#N/A	63C210J3324BF	3.3NF 630V	C461		0
99	#N/A	63C210J3324BU	3.3NF 630V	C461		1
100	#N/A	63C210J3342CC	.33UF +-5% 250V FOR CAM	C415		1
101	#N/A	63C210J3942CC	.39UF +-5% 250V	C420		1
102	#N/A	63C210J4028FC	4000PF/2KV	C438		1
103	#N/A	63C210J4732AC	MPP, 0.047UF 250V,J	C712		0
104	#N/A	63C210J4732AU	MPP, 0.047UF 250V,J	C712		1
105	#N/A	63C210J4734CC	MPP 0.047UF +-5% 630V	C721		1
106	#N/A	63C210J4734CR	0.047UF +-5% 630V	C721		0
107	E-00003272	64C178J824 1T	0.82UF 100V	C439		1
108	#N/A	65C 2K103 3A6921	0.01UF 2KV	C919		1
109	E-00004473	65C 2K121 5A6921	120PF 2KV	C488		1
110	E-00004473	65C 2K121 5A6921	120PF 2KV	C489		1
111	#N/A	65C305M2222B2	2.2NF,400VAC,Y2,M	C961		0
112	#N/A	65C305M2222B2	2.2NF,400VAC,Y2,M	C962		0
113	#N/A	65C305M2222B2	2.2NF,400VAC,Y2,M	C963		0
114	#N/A	65C305M2222BH	2.2NF,400VAC,Y2,M	C961		1
115	#N/A	65C305M2222BH	2.2NF,400VAC,Y2,M	C962		1
116	#N/A	65C305M2222BH	2.2NF,400VAC,Y2,M	C963		1
117	E-00002739	67C 3022114K	220UF +-20% 400V ELITE	C907		0
118	E-00004073	67C 3022114P	220UF 400V	C907		1
119	#N/A	67C 70109 10	1UF 160V	C401		1
120	#N/A	67C 215101 9	100UF +-20% 100V	C936		1
121	E-00002738	67C 305101 9	100UF +-20% 100V	C742		1
122	E-00002738	67C 305101 9	100UF +-20% 100V	C936		0
123	#N/A	67C 305102 3	1000 UF +-20% 16V	C939		1
124	#N/A	67C 305102 4	1000UF +-20% 25V	C944		1
125	#N/A	67C 305470 3	47UF +-20% 16V	C910		1
126	#N/A	67C 305470 10	47UF +-20% 160V	C930		1
127	#N/A	67C 305471 4	470UF +-20% 25V	C945		1
128	#N/A	67C 305471 3T	470UF +-20% 16V	C603		1
129	#N/A	67C 305471 3T	470UF +-20% 16V	C605		1
130	#N/A	67C 305472 3	4700UF 16V	C482		1
131	#N/A	67C 309330 12	33UF +-20% 250V	C432		1
132	#N/A	67C 309471 4	470UF +-20% 25V	C935		1
133	#N/A	71C 55 24	A FERRITE BEAD 10*6.0*0.6	FB903		1
134	#N/A	71C 55 29	FERRITE BEAD	FB412		1
135	#N/A	71C 55 29	FERRITE BEAD	J022		1
136	#N/A	71C 100 8	FERRITE CORE 12*25*15			1
137	#N/A	71C 100 9	FERRIRE CORE 28.5*17.5*	FBTF		1
138	#N/A	71C 100501 S	CORD	FBTG2		1
139	E-00004094	73A 174 7S3G	LINE FILTER	L901		1
140	E-00004074	73C 147542 H	COIL	L401		1
141	#N/A	73C 253111 T	CHOKE COIL	L406		1
142	#N/A	73C 253512 T	20MH	L402		1
143	#N/A	73C 25810110H	100UH	L903		0
144	#N/A	73C 25810110H	100UH	L904		1
145	#N/A	73C 25810110T	100UH	L903		1
146	#N/A	73C 25810110T	100UH	L904		0
147	#N/A	73C 25818110H	180UH	L902		0

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
148	#N/A	73C 25818110H	180UH	L906		0
149	#N/A	73C 25818110H	180UH	L909		1
150	#N/A	73C 25818110T	180UH	L902		1
151	#N/A	73C 25818110T	180UH	L906		1
152	#N/A	73C 25818110T	180UH	L909		0
153	#N/A	75A 334203	CFVR 20K OHM +-20%	VR701		1
154	#N/A	77C 260 5 4	RELAY	RY901		0
155	E-RL-0414-0110	77C 260 5 2W	RELAY OSA-SS-212DM5	RY901		1
156	#N/A	77C 602 1 CJ	TACT SWITCH TSVB-2-T-NP	(SW103)		1
157	#N/A	77C 602 1 CJ	TACT SWITCH TSVB-2-T-NP	<SW101>		1
158	#N/A	77C 602 1 CJ	TACT SWITCH TSVB-2-T-NP	<SW102>		1
159	#N/A	77C 602 1 CJ	TACT SWITCH TSVB-2-T-NP	<SW103>		1
160	#N/A	77C 602 1 CJ	TACT SWITCH TSVB-2-T-NP	<SW104>		1
161	M-SW-0815-0208	77C411A 2 S	MINI PUSH SWITCH	SW901		1
162	M-SW-0815-0200	77C411A 2 CJ	MINI PUSH SWITCH	SW901		0
163	#N/A	79C 167114 HC	DRIVE X'FMR	T401		1
164	#N/A	79C 167502 T	DEIVER TRANSFORMER	T403		1
165	#N/A	79C 995 1 B	FBT SAMPO	T402		1
166	E-00004539	80C995D 1 L2	TRANS LITAI	T901		1
167	#N/A	81C 11 7 GP	GP32052CE/DIY-ZY	LED2		1
168	E-00004658	84C 33 10	FUSE CLIP	F901		2
169	#N/A	84C 41 4	FUSE 4A 250V LF-215 004	F901		1
170	E-00004072	93C 50460 16	U4KB80R	BD901		1
171	#N/A	93C 6073F	31DF4-FC	D918		1
172	E-00004342	93C30408AT	RG-4S	D918		0
173	#N/A	93C3060 4	31DF6-FC	D424		1
174	#N/A	95C8013 10609	WIRE HARNESS	H802		1
175	#N/A	95C8013 11619	WIRE HARNESS	H801		1
176	#N/A	B1C1040 12128	SCREW			1
177	#N/A	B1C1140 6128	SCREW			1
178	HW-00002758	D1C1140 7128	SCREW 4X7(FOR AC)			1
179	HW-00004380	M1C1140 6128	SCREW			1
180	#N/A	M1C1730 8128	SCREW M3x8			1
181	#N/A	705C995DC5704P	Q901 ASS'Y			1
182	#N/A	750A55379951AI	19" MPRII CRT ASS'Y	E750A		0
183	#N/A	750A55379951AK	19" TCO CRT ASS'Y	E750A		0
184	#N/A	705C995DAC101P	AC ASS'Y			1
185	#N/A	705C995DC5601P	IC601 ASS'Y			1
186	#N/A	705C995DC5602P	IC403 ASS'Y			1
187	#N/A	705C995DC5702P	Q403/D408/Q424/Q421 ASS			1
188	#N/A	705C995DC5703P	Q426 ASS'Y			1
189	#N/A	705C995DC6101P	NR901 ASS'Y			1
190	PL-00002759	6C 31 4	BRASS	BL401		2
191	PL-00002759	6C 31 4	BRASS	BT901		4
192	PL-00002759	6C 31 4	BRASS	RV15		1
193	PL-00002759	6C 31 4	BRASS	RV16		1
194	PL-00002759	6C 31 4	BRASS	RV17		1
195	PL-00002759	6C 31 4	BRASS	RV18		1
196	PL-00002759	6C 31 4	BRASS	RV26		1
197	PL-00002759	6C 31 4	BRASS	RV27		1
198	PL-00002759	6C 31 4	BRASS	RV28		1
199	PL-00002759	6C 31 4	BRASS	RV29		1
200	PL-00002759	6C 31 4	BRASS	RV30		1
201	PL-00002759	6C 31 4	BRASS	RV5		1
202	PL-00002759	6C 31 4	BRASS	RV6		1
203	PL-00002759	6C 31 4	BRASS	RV7		1
204	PL-00002759	6C 31 4	BRASS	RV8		1
205	#N/A	6C 31500	EYELET	BCN901		2
206	#N/A	6C 31500	EYELET	RV3		1
207	#N/A	6C 31500	EYELET	RV4		1
208	#N/A	6C 31501	BRASS	RV23		1
209	#N/A	6C 31501	BRASS	RV24		1
210	#N/A	6C 31502	BRASS	RV10		1
211	#N/A	6C 31502	BRASS	RV9		1
212	E-00003625	95C 90 23	JUMPER	J076		0
213	#N/A	715C1480 1VSC	CMPC			1
214	E-00003625	95C 90 23	JUMPER	C126		0
215	E-00003625	95C 90 23	JUMPER	FB401		0
216	E-00003625	95C 90 23	JUMPER	J001		0
217	E-00003625	95C 90 23	JUMPER	J005		0
218	E-00003625	95C 90 23	JUMPER	J006		0
219	E-00003625	95C 90 23	JUMPER	J008		0
220	E-00003625	95C 90 23	JUMPER	J010		0
221	E-00003625	95C 90 23	JUMPER	J011		0
222	E-00003625	95C 90 23	JUMPER	J013		0
223	E-00003625	95C 90 23	JUMPER	J016		0

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
224	E-00003625	95C 90 23	JUMPER	J017		0
225	E-00003625	95C 90 23	JUMPER	J019		0
226	E-00003625	95C 90 23	JUMPER	J020		0
227	E-00003625	95C 90 23	JUMPER	J021		0
228	E-00003625	95C 90 23	JUMPER	J023		0
229	E-00003625	95C 90 23	JUMPER	J024		0
230	E-00003625	95C 90 23	JUMPER	J025		0
231	E-00003625	95C 90 23	JUMPER	J027		0
232	E-00003625	95C 90 23	JUMPER	J028		0
233	E-00003625	95C 90 23	JUMPER	J029		0
234	E-00003625	95C 90 23	JUMPER	J030		0
235	E-00003625	95C 90 23	JUMPER	J031		0
236	E-00003625	95C 90 23	JUMPER	J033		0
237	E-00003625	95C 90 23	JUMPER	J034		0
238	E-00003625	95C 90 23	JUMPER	J035		0
239	E-00003625	95C 90 23	JUMPER	J036		0
240	E-00003625	95C 90 23	JUMPER	J037		0
241	E-00003625	95C 90 23	JUMPER	J038		0
242	E-00003625	95C 90 23	JUMPER	J039		0
243	E-00003625	95C 90 23	JUMPER	J040		0
244	E-00003625	95C 90 23	JUMPER	J041		0
245	E-00003625	95C 90 23	JUMPER	J042		0
246	E-00003625	95C 90 23	JUMPER	J043		0
247	E-00003625	95C 90 23	JUMPER	J044		0
248	E-00003625	95C 90 23	JUMPER	J045		0
249	E-00003625	95C 90 23	JUMPER	J046		0
250	E-00003625	95C 90 23	JUMPER	J047		0
251	E-00003625	95C 90 23	JUMPER	J048		0
252	E-00003625	95C 90 23	JUMPER	J049		0
253	E-00003625	95C 90 23	JUMPER	J050		0
254	E-00003625	95C 90 23	JUMPER	J051		0
255	E-00003625	95C 90 23	JUMPER	J052		0
256	E-00003625	95C 90 23	JUMPER	J053		0
257	E-00003625	95C 90 23	JUMPER	J054		0
258	E-00003625	95C 90 23	JUMPER	J055		0
259	E-00003625	95C 90 23	JUMPER	J056		0
260	E-00003625	95C 90 23	JUMPER	J057		0
261	E-00003625	95C 90 23	JUMPER	J058		0
262	E-00003625	95C 90 23	JUMPER	J059		0
263	E-00003625	95C 90 23	JUMPER	J060		0
264	E-00003625	95C 90 23	JUMPER	J061		0
265	E-00003625	95C 90 23	JUMPER	J062		0
266	E-00003625	95C 90 23	JUMPER	J063		0
267	E-00003625	95C 90 23	JUMPER	J064		0
268	E-00003625	95C 90 23	JUMPER	J065		0
269	E-00003625	95C 90 23	JUMPER	J067		0
270	E-00003625	95C 90 23	JUMPER	J068		0
271	E-00003625	95C 90 23	JUMPER	J069		0
272	E-00003625	95C 90 23	JUMPER	J070		0
273	E-00003625	95C 90 23	JUMPER	J071		0
274	E-00003625	95C 90 23	JUMPER	J073		0
275	E-00003625	95C 90 23	JUMPER	J074		0
276	E-00003625	95C 90 23	JUMPER	J077		0
277	E-00003625	95C 90 23	JUMPER	J078		0
278	E-00003625	95C 90 23	JUMPER	J079		0
279	E-00003625	95C 90 23	JUMPER	J080		0
280	E-00003625	95C 90 23	JUMPER	J081		0
281	E-00003625	95C 90 23	JUMPER	J082		0
282	E-00003625	95C 90 23	JUMPER	J083		0
283	E-00003625	95C 90 23	JUMPER	J084		0
284	E-00003625	95C 90 23	JUMPER	J085		0
285	E-00003625	95C 90 23	JUMPER	J086		0
286	E-00003625	95C 90 23	JUMPER	J087		0
287	E-00003625	95C 90 23	JUMPER	J088		0
288	E-00003625	95C 90 23	JUMPER	J089		0
289	E-00003625	95C 90 23	JUMPER	J090		0
290	E-00003625	95C 90 23	JUMPER	J091		0
291	E-00003625	95C 90 23	JUMPER	J092		0
292	E-00003625	95C 90 23	JUMPER	J093		0
293	E-00003625	95C 90 23	JUMPER	J094		0
294	E-00003625	95C 90 23	JUMPER	J095		0
295	E-00003625	95C 90 23	JUMPER	J097		0
296	E-00003625	95C 90 23	JUMPER	J098		0
297	E-00003625	95C 90 23	JUMPER	J100		0
298	E-00003625	95C 90 23	JUMPER	J103		0
299	E-00003625	95C 90 23	JUMPER	J104		0

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
300	E-00003625	95C 90 23	JUMPER	J105		0
301	E-00003625	95C 90 23	JUMPER	J106		0
302	E-00003625	95C 90 23	JUMPER	J107		0
303	E-00003625	95C 90 23	JUMPER	J109		0
304	E-00003625	95C 90 23	JUMPER	J110		0
305	E-00003625	95C 90 23	JUMPER	J111		0
306	E-00003625	95C 90 23	JUMPER	J112		0
307	E-00003625	95C 90 23	JUMPER	J113		0
308	E-00003625	95C 90 23	JUMPER	J114		0
309	E-00003625	95C 90 23	JUMPER	J115		0
310	E-00003625	95C 90 23	JUMPER	J116		0
311	E-00003625	95C 90 23	JUMPER	J117		0
312	E-00003625	95C 90 23	JUMPER	J120		0
313	E-00003625	95C 90 23	JUMPER	J121		0
314	E-00003625	95C 90 23	JUMPER	J122		0
315	E-00003625	95C 90 23	JUMPER	J127		0
316	E-00003625	95C 90 23	JUMPER	J128		0
317	E-00003625	95C 90 23	JUMPER	J129		0
318	E-00003625	95C 90 23	JUMPER	J130		0
319	E-00003625	95C 90 23	JUMPER	J131		0
320	E-00003625	95C 90 23	JUMPER	R110		0
321	E-00003625	95C 90 23	JUMPER	R494		0
322	E-00003625	95C 90 23	JUMPER	R945		0
323	E-00003625	95C 90 23	JUMPER	ZD712		0
324	E-R-0405-6779	61A212Y10552T	MGFR 1M OHM+-5% 1/2W	R901		1
325	E-R-0405-6779	61A212Y10552T	MGFR 1M OHM+-5% 1/2W	R921		1
326	#N/A	61A212Y22452T	MGFR 220K OHM +-5% 1/2W	R459		1
327	#N/A	61A212Y43452T	430KOHM +-5% 1/2W	R701		1
328	#N/A	61A214Y18452T	MGFR 180K OHM +-5% 1/4W	R161		1
329	#N/A	61A214Y22452T	MGFR 220K OHM +-5% 1/4W	R142		1
330	#N/A	61A214Y75352T	MGFR 75K OHM +-5% 1/4W	R416		1
331	#N/A	61C 58450 UT	NTCR 45OHM+-15%3100K UP	NR601		1
332	#N/A	61C 17210152T	CFR 100OHM+-5% 1/4W	R720		1
333	#N/A	61C 17210252T	CFR 1KOHM +-5% 1/4W	R120		1
334	#N/A	61C 17210552T	CFR 1MOHM +-5% 1/4W	R491		1
335	#N/A	61C 17211252T	CFR 1.1K OHM +-5% 1/4W	R136		1
336	#N/A	61C 17215452T	CFR 150K OHM +-5% 1/4W	R478		1
337	#N/A	61C 17215452T	CFR 150K OHM +-5% 1/4W	R479		1
338	#N/A	61C 17215452T	CFR 150K OHM +-5% 1/4W	R488		1
339	#N/A	61C 17215452T	CFR 150K OHM +-5% 1/4W	R962		1
340	#N/A	61C 17220252T	CFR 2KOHM+-5% 1/4W	R155		1
341	#N/A	61C 17222152T	CFR 220OHM+-5% 1/4W	R121		1
342	#N/A	61C 17233452T	CFR 330K OHM +-5% 1/4W	R715		1
343	#N/A	61C 17247052T	CFR 47 OHM +-5% 1/4W	J026		1
344	#N/A	61C 17247052T	CFR 47 OHM +-5% 1/4W	R450		1
345	#N/A	61C 17247052T	CFR 47 OHM +-5% 1/4W	R710		1
346	#N/A	61C 17247852T	0.47OHM 1/4 W	R922		1
347	#N/A	61C 17247852T	0.47OHM 1/4 W	R923		1
348	#N/A	61C 17247852T	0.47OHM 1/4 W	R924		1
349	#N/A	61C 17247852T	0.47OHM 1/4 W	R925		1
350	#N/A	61C 20022152T	220OHM 1/4W	R604		1
351	#N/A	61C 20710152T	100OHM 1/2W	R460		1
352	#N/A	61C 20710952T	1OHM 1/2W	R457		1
353	#N/A	61C 20733252T	3.3K 1/2W	R918		1
354	#N/A	61C 21016252T	MFR 1.6KOHM +- 1% 1/6W	R133		1
355	#N/A	61C 21022252T	MFR 2.2K OHM +- 1% 1/6W	R605		1
356	#N/A	61C 21022252T	MFR 2.2K OHM +- 1% 1/6W	R613		1
357	#N/A	61C 21027352T	MFR 27K OHM +- 1% 1/6W	R183		1
358	#N/A	61C 21039252T	MFR 3.9K OHM +- 1% 1/6W	R134		1
359	#N/A	61C 21062052T	MFR 62OHM +-1% 1/6W	R167		1
360	#N/A	61C 21068152T	MFR 680OHM +-1% 1/6W	R151		1
361	#N/A	61C 21082252T	MFR 8.2KOHM +-1% 1/6W	R165		1
362	#N/A	61C 60210052T	CFR 10 OHM +-5% 1/6W	R111		1
363	#N/A	61C 60210052T	CFR 10 OHM +-5% 1/6W	R113		1
364	#N/A	61C 60210052T	CFR 10 OHM +-5% 1/6W	R607		1
365	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R101		1
366	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R102		1
367	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R103		1
368	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R104		1
369	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R105		1
370	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R115		1
371	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R117		1
372	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R118		1
373	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R122		1
374	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R132		1
375	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R140		1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
376	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R143		1
377	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R145		1
378	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R159		1
379	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R164		1
380	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R166		1
381	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R172		1
382	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R406		1
383	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R748		1
384	#N/A	61C 60210252T	CFR 1K OHM+-5% 1/6W	R124		1
385	#N/A	61C 60210252T	CFR 1K OHM+-5% 1/6W	R162		1
386	#N/A	61C 60210252T	CFR 1K OHM+-5% 1/6W	R163		1
387	#N/A	61C 60210252T	CFR 1K OHM+-5% 1/6W	R407		1
388	#N/A	61C 60210252T	CFR 1K OHM+-5% 1/6W	R904		1
389	#N/A	61C 60210252T	CFR 1K OHM+-5% 1/6W	R933		1
390	#N/A	61C 60210352T	CFR 10K OHM+-5% 1/6W	J015		1
391	#N/A	61C 60210352T	CFR 10K OHM+-5% 1/6W	R126		1
392	#N/A	61C 60210352T	CFR 10K OHM+-5% 1/6W	R130		1
393	#N/A	61C 60210352T	CFR 10K OHM+-5% 1/6W	R148		1
394	#N/A	61C 60210352T	CFR 10K OHM+-5% 1/6W	R716		1
395	#N/A	61C 60210352T	CFR 10K OHM+-5% 1/6W	R982		1
396	#N/A	61C 60215052T	CFR 15 OHM +-5% 1/6W	R938		1
397	#N/A	61C 60215152T	CFR 150 OHM +-5% 1/6W	R928		1
398	#N/A	61C 60215252T	CFR 1.5K OHM +-5% 1/6W	R439		1
399	#N/A	61C 60215252T	CFR 1.5K OHM +-5% 1/6W	R713		1
400	E-00004322	61C 60215352T	CFR 15K OHM+-5% 1/6W	R106		1
401	#N/A	61C 60220352T	CFR 20K OHM+-5% 1/6W	R423		1
402	#N/A	61C 6022252T	CFR 2.2K OHM +-5% 1/6W	R108		1
403	#N/A	61C 6022252T	CFR 2.2K OHM +-5% 1/6W	R109		1
404	#N/A	61C 6022252T	CFR 2.2K OHM +-5% 1/6W	R131		1
405	#N/A	61C 6022252T	CFR 2.2K OHM +-5% 1/6W	R137		1
406	#N/A	61C 6022252T	CFR 2.2K OHM +-5% 1/6W	R707		1
407	#N/A	61C 60222352T	CFR 22K OHM+-5% 1/6W	R461		1
408	#N/A	61C 60222352T	CFR 22K OHM+-5% 1/6W	R706		1
409	#N/A	61C 60222352T	CFR 22K OHM+-5% 1/6W	R736		1
410	#N/A	61C 60224252T	CFR 2.4K OHM +-5% 1/6W	R128		1
411	#N/A	61C 60224252T	CFR 2.4K OHM +-5% 1/6W	R181		1
412	#N/A	61C 60227252T	CFR 2.7K OHM+-5% 1/6W	R153		1
413	#N/A	61C 60227352T	CFR 27K OHM+-5% 1/6W	R412		1
414	#N/A	61C 60233152T	CFR 330 OHM+-5% 1/6W	R436		1
415	#N/A	61C 60233152T	CFR 330 OHM+-5% 1/6W	R931		1
416	#N/A	61C 60233252T	CFR 3.3K OHM+-5% 1/6W	R138		1
417	#N/A	61C 60233252T	CFR 3.3K OHM+-5% 1/6W	R141		1
418	#N/A	61C 60233252T	CFR 3.3K OHM+-5% 1/6W	R144		1
419	#N/A	61C 60233352T	CFR 33K OHM+-5% 1/6W	R443		1
420	#N/A	61C 60233352T	CFR 33K OHM+-5% 1/6W	R445		1
421	#N/A	61C 60233352T	CFR 33K OHM+-5% 1/6W	R447		1
422	#N/A	61C 60233352T	CFR 33K OHM+-5% 1/6W	R482		1
423	#N/A	61C 60239252T	CFR 3.9K OHM+-5% 1/6W	R116		1
424	#N/A	61C 60239252T	CFR 3.9K OHM+-5% 1/6W	R411		1
425	#N/A	61C 60247052T	CFR 47 OHM +-5% 1/6W	R112		1
426	#N/A	61C 60247052T	CFR 47 OHM +-5% 1/6W	R119		1
427	#N/A	61C 60247052T	CFR 47 OHM +-5% 1/6W	R907		1
428	#N/A	61C 60247152T	CFR 470 OHM +-5% 1/6W	R125		1
429	#N/A	61C 60247152T	CFR 470 OHM +-5% 1/6W	R129		1
430	#N/A	61C 60247152T	CFR 470 OHM +-5% 1/6W	R135		1
431	#N/A	61C 60247152T	CFR 470 OHM +-5% 1/6W	R154		1
432	#N/A	61C 60247152T	CFR 470 OHM +-5% 1/6W	R486		1
433	#N/A	61C 60247252T	CFR 4.7K OHM+-5% 1/6W	R107		1
434	#N/A	61C 60247252T	CFR 4.7K OHM+-5% 1/6W	R149		1
435	#N/A	61C 60247252T	CFR 4.7K OHM+-5% 1/6W	R438		1
436	#N/A	61C 60247252T	CFR 4.7K OHM+-5% 1/6W	R473		1
437	#N/A	61C 60256252T	CFR 5.6KOHM+-5% 1/6W	R127		1
438	#N/A	61C 60256252T	CFR 5.6KOHM+-5% 1/6W	R182		1
439	#N/A	61C 60262252T	CFR 6.2K OHM +-5% 1/6W	R708		1
440	#N/A	61C 60268252T	CFR 6.8K OHM+-5% 1/6W	R437		1
441	#N/A	61C 60268252T	CFR 6.8K OHM+-5% 1/6W	R442		1
442	#N/A	61C 60268252T	CFR 6.8K OHM+-5% 1/6W	R444		1
443	#N/A	61C 60268252T	CFR 6.8K OHM+-5% 1/6W	R448		1
444	#N/A	61C 60275252T	CFR 7.5K OHM +-5% 1/6W	R147		1
445	E-00004327	61C 60282252T	CFR 8.2K OHM +-5% 1/6W	R146		1
446	#N/A	61C 60291252T	9.1K OHM +-5% 1/6W	R719		1
447	#N/A	61C 60291352T	CFR 91K OHM +-5% 1/6W	R709		1
448	#N/A	61C172S33452T	330K 1/4W	R458		1
449	#N/A	61C172S47252T	RES CF 5% 1/4W 4.7KOHM	R722		1
450	#N/A	61C172S68352T	68K OHM 1/4W	R477		1
451	#N/A	61C175S18952T	1.8OHM 1/2W	R606		1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
452	#N/A	61C203S10052T	100HM 1/4 W	R425		1
453	#N/A	61C203S10052T	100HM 1/4 W	R481		1
454	#N/A	61C203S10052T	100HM 1/4 W	R487		1
455	#N/A	61C203S10052T	100HM 1/4 W	R738		1
456	#N/A	61C203S10052T	100HM 1/4 W	R934		1
457	#N/A	61C203S10452T	100KOHM 1/2W	R910		1
458	#N/A	61C203S10552T	1MOHM 1/2W	R485		1
459	#N/A	61C203S10952T	1OHM 1/2W	R741		1
460	#N/A	61C203S12452T	120KOHM 1/2W	R905		1
461	#N/A	61C203S22352T	22K OHM 1/2W	R419		1
462	#N/A	61C203S22952T	2.2OHM 1/2W	R601		1
463	#N/A	61C203S22952T	2.2OHM 1/2W	R602		1
464	#N/A	61C203S24152T	240OHM 1/2W	R909		1
465	#N/A	61C203S24452T	240K 1/2W	R935		1
466	#N/A	61C203S27152T	270 OHM 1/2W	R435		1
467	#N/A	61C203S27252T	2.7K 1/2W	R908		1
468	#N/A	61C203S33452T	330K 1/2W	R937		1
469	#N/A	61C203S43152T	430OHM 1/2W	R705		1
470	#N/A	61C203S47452T	470K 1/2W	R711		1
471	#N/A	61C203S47552T	4.7M OHM 1/2W	R702		1
472	#N/A	61C203S56152T	560OHM 1/2W	R475		1
473	#N/A	61C203S56152T	560OHM 1/2W	R756		1
474	#N/A	61C203S56252T	5.6K OHM 1/2W	R953		1
475	#N/A	61C203S75352T	75K OHM 1/2W	R732		1
476	#N/A	71C 55 19 T	FERRITE BEAD 9X3.5X0.8	FB901		1
477	#N/A	71C 55 19 T	FERRITE BEAD 9X3.5X0.8	FB902		1
478	#N/A	71C 55 29	FERRITE BEAD	J108		1
479	#N/A	73C 5333910T	3.3UH +/-10%	FB910		1
480	#N/A	93C 39 2452T	HZ15-2-E	ZD402		1
481	#N/A	93C 39 2452T	HZ15-2-E	ZD705		1
482	#N/A	93C 39 5952T	HZ4C2-E	ZD107		1
483	#N/A	93C 39 7752T	HZ5C1-E	J018		1
484	#N/A	93C 3951352T	HZ6C2-E	ZD101		1
485	#N/A	93C 3951352T	HZ6C2-E	ZD102		1
486	#N/A	93C 3951352T	HZ6C2-E	ZD103		1
487	#N/A	93C 3951352T	HZ6C2-E	ZD104		1
488	#N/A	93C 3951352T	HZ6C2-E	ZD105		1
489	E-00003628	93C 3951652T	TZX5V1B	ZD106		1
490	E-00002740	93C 3951852T	TZX8V2A	ZD901		1
491	#N/A	93C 3952752T	HZ33-2-E	ZD704		1
492	#N/A	93C 521ZJ26T	SB240	D405		1
493	#N/A	93C 521ZJ26T	SB240	D923		1
494	E-00002713	93C 5247P52T	1N4004	D601		1
495	#N/A	93C 64 1152T	1N4148	D409		1
496	#N/A	93C 64 1152T	1N4148	D487		1
497	#N/A	93C 64 1152T	1N4148	D713		1
498	#N/A	93C 64 1152T	1N4148	D715		1
499	#N/A	93C 64 1152T	1N4148	D936		1
500	#N/A	93C 64 1152T	1N4148	D937		1
501	#N/A	93C 64 1152T	1N4148	D940		1
502	#N/A	93C 6431T52T	BAV20	D912		1
503	#N/A	93C 6450752T	BAV21	D406		1
504	#N/A	93C 6450752T	BAV21	D451		1
505	#N/A	93C 6450752T	BAV21	D914		1
506	E-D-0403-2800	93C1002 1P52T	1N5817	D107		1
507	E-D-0403-2800	93C1002 1P52T	1N5817	D920		1
508	#N/A	93C1020 552T	FAST RECOVERY RECTIFIER	D740		0
509	#N/A	93C1020 552T	FAST RECOVERY RECTIFIER	D742		0
510	#N/A	93C1020 552T	FAST RECOVERY RECTIFIER	D911		0
511	#N/A	93C1020 552T	FAST RECOVERY RECTIFIER	D913		0
512	E-00004895	93C102050152T	RGP10D	D740		1
513	E-00004895	93C102050152T	RGP10D	D742		1
514	E-00004895	93C102050152T	RGP10D	D911		1
515	E-00004895	93C102050152T	RGP10D	D913		1
516	#N/A	93C104050252T	RGP10G	D403		1
517	#N/A	93C106050152T	BYV26C/TFK	D938		1
518	E-00004541	93C106050652T	SBYV26C	D938		0
519	#N/A	93C106050752T	RGP10J	D481		1
520	#N/A	93C106050752T	RGP10J	D704		1
521	#N/A	93C1100 1C52T	BYV26EGP	D910		1
522	E-D-0403-2093	93C2020 552T	ER202	D922		1
523	E-D-0403-2093	93C2020 552T	ER202	D930		1
524	#N/A	93C202050352T	UGP20D	D922		0
525	#N/A	93C202050352T	UGP20D	D930		0
526	#N/A	93C204050052T	EGP20G	D410		1
527	#N/A	93C206050252T	RGP20JA	D919		1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
528	#N/A	56C 158 2 T	TL431ACLPR	IC904		1
529	#N/A	57A 516 2 T	HPH2369	Q902		0
530	#N/A	57C 415502	BC516	Q732		1
531	#N/A	57C 419523 T	BC337-40	Q414		1
532	#N/A	57C 419523 T	BC337-40	Q419		1
533	#N/A	57C 419523 T	BC337-40	Q913		1
534	E-00004897	57C 4197AP T	BC547B	Q407		1
535	E-00004897	57C 4197AP T	BC547B	Q408		1
536	E-00004897	57C 4197AP T	BC547B	Q422		1
537	E-00004897	57C 4197AP T	BC547B	Q423		1
538	E-00004897	57C 4197AP T	BC547B	Q708		1
539	E-00004897	57C 4197AP T	BC547B	Q729		1
540	E-00004897	57C 4197AP T	BC547B	Q908		1
541	#N/A	57C 420518 T	BC327-16	Q415		1
542	#N/A	57C 489500	BC517	Q427		1
543	#N/A	57C 498 1 T	BF423	Q412		1
544	#N/A	57C 516 1 T	TRAN PH2369 TAPING	Q401		1
545	#N/A	57C 516 1 T	TRAN PH2369 TAPING	Q413		1
546	#N/A	57C 516 1 T	TRAN PH2369 TAPING	Q473		1
547	#N/A	57C 516 1 T	TRAN PH2369 TAPING	Q902		1
548	#N/A	57C 5661PH	BT169B	Q935		1
549	#N/A	57C 594510 T	A HMP5A44	Q706		1
550	#N/A	57C 734 1	BSN254A	Q402		1
551	#N/A	64C176J222 1T	0.0022UF 5% 100V	C116		1
552	#N/A	64C178J103 1T	CL21X 0.01UF 100V +-5%	C431		1
553	#N/A	64C178J103 2T	MPE 0.01UF 250V +-5%	C451		1
554	#N/A	64C178J103 2T	MPE 0.01UF 250V +-5%	C925		1
555	#N/A	64C178J104 0T	CL21X0.1UF 63V +-5%	C406		1
556	#N/A	64C178J104 1T	C121X 0.1UF 100V +-5%	C410		1
557	#N/A	64C178J104 1T	C121X 0.1UF 100V +-5%	C452		1
558	#N/A	64C178J223 1T	CL21X 0.022UF 100V +-5%	C908		1
559	#N/A	64C178J224 1T	C121X 0.22UF 100V +-5%	C602		1
560	#N/A	64C178J332 1T	CL21X 3300PF 100V +-5%	C407		1
561	#N/A	64C178J333 1T	CL21X 0.033UF 100V +-5%	C604		1
562	#N/A	64C178J473 1T	0.047UF	C117		1
563	#N/A	64C178J474 0T	CL21X. 0.47UF 63V +-5%	C715		1
564	#N/A	65C 1K221 5T6921	220PF/1KV Y5P+-10%	C920		1
565	#N/A	65C 1K470 2T6921	47PF 1KV	C928		1
566	#N/A	65C 1K681 2T6921	680PF 1KV	C720		1
567	#N/A	65C 2K221 5T6921	220PF 2000V	C413		1
568	#N/A	65C 2K221 5T6921	220PF 2000V	C414		1
569	#N/A	65C 2K331 5T6921	330 PF 2KV +-10%	C931		1
570	E-C-0404-4629	65C 44210113T	100PF +-5% NPO 50V	C107		1
571	#N/A	65C 44218113T	180PF +-5% NPO 50V	C457		1
572	#N/A	65C 442223 5T	22NF 50V	C982		1
573	#N/A	65C 44410113T	100PF +-10% Z5P 50V	C746		1
574	#N/A	65C 444221 5T	220PF/50V	C934		1
575	#N/A	65C 444222 5T	2200PF 10% Y5P 50V	C109		1
576	#N/A	65C 444222 5T	2200PF 10% Y5P 50V	C124		1
577	#N/A	65C 444222 5T	2200PF 10% Y5P 50V	C460		1
578	#N/A	65C 444332 5T	3300PF 10% 50V Y5P	C933		1
579	#N/A	65C 44447213T	4700PF +-10% Z5P 50V	C705		1
580	#N/A	65C 44447213T	4700PF +-10% Z5P 50V	C729		1
581	#N/A	65C 450104 3T	0.1UF 50V Y5V	C102		1
582	#N/A	65C 450104 3T	0.1UF 50V Y5V	C103		1
583	#N/A	65C 450104 3T	0.1UF 50V Y5V	C120		1
584	#N/A	65C 450104 7T	0.1UF +80-20% 50V Y5V	C911		1
585	#N/A	65C517K102 2T6921	1000PF 10% Z5P 500V	C938		1
586	E-C-0404-4781	65C517K222 1T	2.2NF/500V Z5F +-10%	C430		1
587	#N/A	67C 70109 7T	1UF +-20% 50V	C105		1
588	#N/A	67C 70109 7T	1UF +-20% 50V	C937		1
589	#N/A	67C 305100 3T	10UF +-20% 16V	C906		1
590	#N/A	67C 305100 7T	10UF +-20% 50V	C701		1
591	#N/A	67C 305100 7T	10UF +-20% 50V	C745		1
592	#N/A	67C 30510010T	10UF +-20% 160V	C456		1
593	#N/A	67C 305101 3T	100UF +-20% 16V	C104		1
594	#N/A	67C 305101 3T	100UF +-20% 16V	C405		1
595	#N/A	67C 305101 3T	100UF +-20% 16V	C455		1
596	#N/A	67C 30510912T	1UF +-20% 250V	C402		1
597	#N/A	67C 305229 7T	2.2UF +-20% 50V	C743		1
598	#N/A	67C 305470 4T	47UF +-20% 25V	C929		1
599	#N/A	67C 305478 7T	0.47UF +-20% 50V	C115		1
600	#N/A	67C 305479 7T	4.7UF +-20% 50V	C434		1
601	#N/A	67C 305479 9T	4.7UF +-20% 100v	C714		1
602	#N/A	67C 309100 3T	10UF +-20% 16V	C119		1
603	#N/A	67C 309109 7T	1.0UF +-20% 50V	C118		1

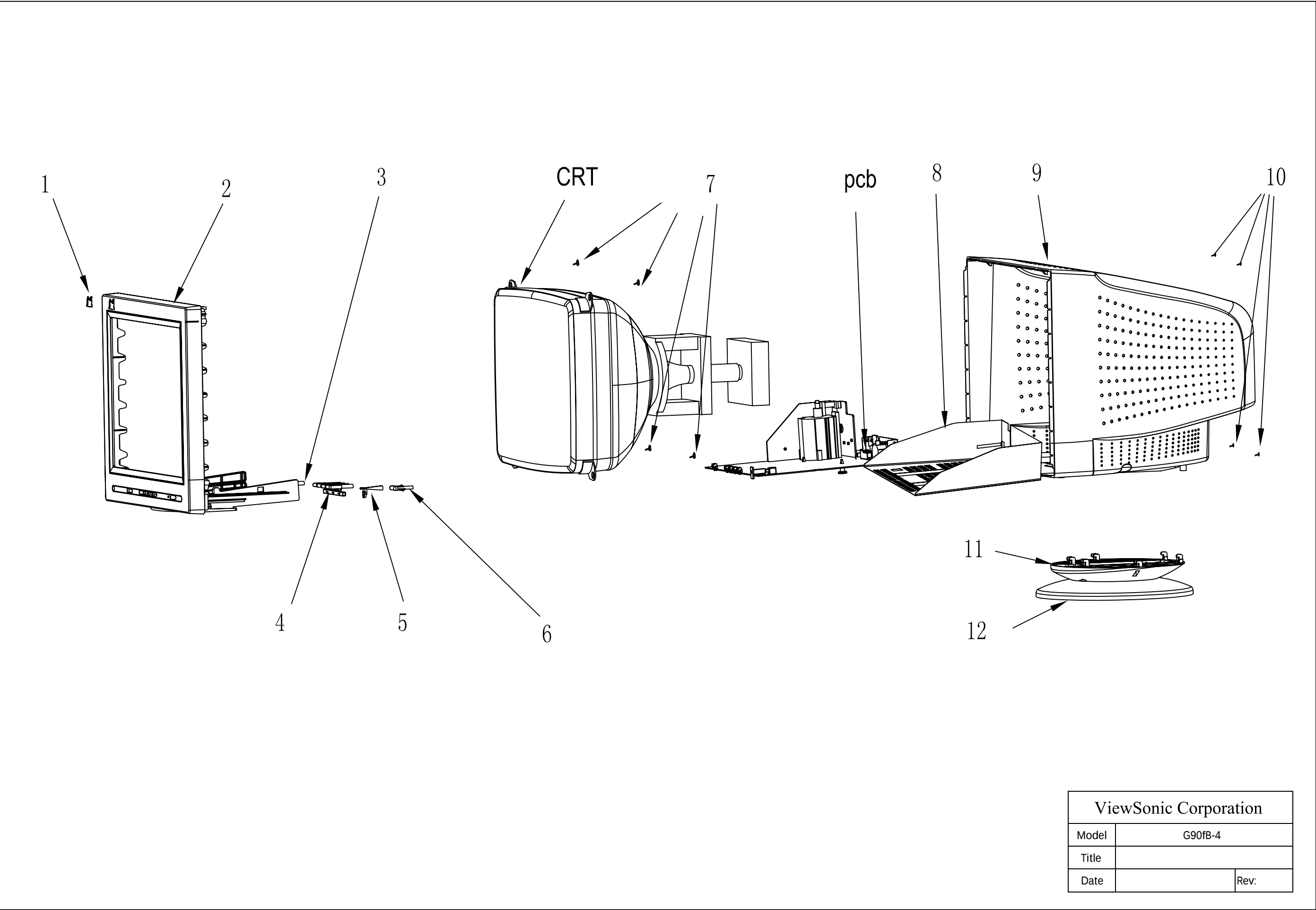
Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
604	#N/A	67C 309220 4T	22UF +-20% 25V	C145		1
605	#N/A	67C 309229 7T	2.2UF +-20% 50V	C702		1
606	#N/A	67C 309479 7T	4.7UF +-20% 50V	C421		1
607	#N/A	57C 419513	BC847C	Q429		1
608	#N/A	61A0805100	CHIPR 10 OHM+-5% 1/8W	R402		1
609	#N/A	61A0805100	CHIPR 10 OHM+-5% 1/8W	R403		1
610	#N/A	61A0805100	CHIPR 10 OHM+-5% 1/8W	R404		1
611	#N/A	61A0805100	CHIPR 10 OHM+-5% 1/8W	R405		1
612	#N/A	61A0805101	CHIPR 100 OHM +-5% 1/8W	R139		1
613	#N/A	61A0805102	CHIPR 1K OHM +-5% 1/8W	R440		1
614	#N/A	61A0805102	CHIPR 1K OHM +-5% 1/8W	R951		1
615	#N/A	61A0805103	CHIPR 10K OHM +-5% 1/8W	R434		1
616	#N/A	61A0805103	CHIPR 10K OHM +-5% 1/8W	R749		1
617	#N/A	61A0805104	CHIPR 100K OHM+-5% 1/8W	R408		1
618	#N/A	61A0805121	120 OHM 1/8W	R704		1
619	#N/A	61A0805154	150K 1/8W	R456		1
620	#N/A	61A0805154	150K 1/8W	R476		1
621	#N/A	61A0805154	150K 1/8W	R915		1
622	#N/A	61A0805224	CHIPR 220K OHM +-5% 1/8	R718		1
623	#N/A	61A0805273	27K 1/8W	R932		1
624	#N/A	61A0805333	33K 1/8W	R712		1
625	#N/A	61A0805333	33K 1/8W	R714		1
626	#N/A	61A0805470	47OHM 1/8W	R703		1
627	#N/A	61A0805471	CHIPR 470 OHM+-5% 1/8W	R742		1
628	#N/A	61A0805472	CHIPR 4.7K OHM +-5% 1/8	R123		1
629	#N/A	61A0805472	CHIPR 4.7K OHM +-5% 1/8	R422		1
630	#N/A	61A0805472	CHIPR 4.7K OHM +-5% 1/8	R474		1
631	#N/A	61A0805473	CHIPR 47K OHM +-5% 1/8W	R469		1
632	#N/A	61A0805473	CHIPR 47K OHM +-5% 1/8W	R728		1
633	#N/A	61A0805473	CHIPR 47K OHM +-5% 1/8W	R729		1
634	#N/A	61A0805822	8.2 1/8W	R467		1
635	#N/A	61A1206471	CHIPR 470 OHM+-5% 1/4W	R433		1
636	#N/A	65C0603101 31	100PF 50V	C111		1
637	#N/A	65C0603101 31	100PF 50V	C112		1
638	#N/A	65C0603101 31	100PF 50V	C113		1
639	#N/A	65C0603101 31	100PF 50V	C130		1
640	#N/A	57C 419513	BC847C	Q731		1
641	#N/A	57C 419513	BC847C	Q751		1
642	#N/A	57C 420519 T	BC857C	Q710		1
643	#N/A	65C0603101 31	100PF 50V	C110		1
644	#N/A	65C0603101 31	100PF 50V	C121		1
645	#N/A	65C0603101 31	100PF 50V	C122		1
646	#N/A	65C0603101 31	100PF 50V	C128		1
647	#N/A	65C0603101 31	100PF 50V	C129		1
648	#N/A	65C0603102 31	CHIP 1000PF 50V NPO	C106		1
649	#N/A	65C0603102 31	CHIP 1000PF 50V NPO	C108		1
650	#N/A	65C0603102 31	CHIP 1000PF 50V NPO	C913		1
651	#N/A	65C0603102 31	CHIP 1000PF 50V NPO	C914		1
652	#N/A	65C0603102 326857	CHIP 1000PF 50V X7R	C125		1
653	#N/A	65C0603103 326857	0.01uF +-10% 50V X7R	C123		1
654	#N/A	65C0603223 32	22NF/50V	C703		1
655	#N/A	65C0603223 32	22NF/50V	C704		1
656	#N/A	65C0603390 31	CHIP 39PF 50V NPO	C127		1
657	#N/A	65C0603473 32	47NF 50V	C932		1
658	#N/A	93C 6432V	MLL4148	D401		1
659	#N/A	93C 6432V	MLL4148	D402		1
660	#N/A	93C 6432V	MLL4148	D407		1
661	#N/A	93C 6432V	MLL4148	D421		1
662	#N/A	93C 6432V	MLL4148	D701		1
663	#N/A	93C 6432V	MLL4148	D706		1
664	#N/A	93C 6432V	MLL4148	D714		1
665	#N/A	93C 6432V	MLL4148	D939		1
666	#N/A	40C 45762412B	LABEL			1
667	#N/A	ARP995D1NHVWP	CRT BOARD			1
668	#N/A	9C 203 8	BRASS PIN	G2		1
669	#N/A	33C327810D	10P PLUG B10B-XHA/JST	P802		1
670	#N/A	33C327811D	WAFER& PLUG	P803		1
671	E-00001191	33C327813D	WAFER	P801		1
672	E-IC-0401-4019	56C 366509	LM1246DKA/NA/NOPB	IC801		1
673	E-IC-0401-2060	56C 539 6	LM2480NA/NOPB	IC803		1
674	#N/A	61C 208101 64	MOFR 100OHM+-5% 1W	R814		1
675	#N/A	61C 208829 64	MOFR 8.2OHM +-5% 1W	R813		1
676	#N/A	61C152M100 64	MOFR 10 OHM+-5% 2W	R836		1
677	#N/A	61C152M478 64	MOFR 0.47 OHM+-5% 2W	R838		1
678	#N/A	64C178J104 2T	.1UF 250V	C832		1
679	#N/A	64C178J104 2T	.1UF 250V	C833		1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
680	E-00001202	65C 2M103 3B6921	0.01UF 2KV 20% Z5U	C852		1
681	#N/A	65C517K103 5A6921	10000PF/500V +-10% Y5P	C845		1
682	#N/A	67C 305470 9	47UF +-20% 100V	C829		1
683	#N/A	67C 305470 9	47UF +-20% 100V	C844		1
684	#N/A	71C 55 9 T	C CORE RF BEAD RH 3.5X6X0	J804		1
685	#N/A	71C 55 9 T	C CORE RF BEAD RH 3.5X6X0	J806		1
686	#N/A	71C 55 9 T	C CORE RF BEAD RH 3.5X6X0	J807		1
687	#N/A	71C 5519R	FERRITE BEAD 9X3.5X0.8	FB801		1
688	#N/A	87C3504 DL	CRT SOCKET(QQ FOCUS)			0
689	E-00002860	87C3504 ZW	CRT SOCKET(QQ FOCUS)			1
690	#N/A	90C6113 5	HEAT SINK FOR IC801			1
691	#N/A	705C995DR5603P	IC802 ASS'Y			1
692	PL-00002759	6C 31 4	BRASS			3
693	#N/A	715C1504 1	CRPC			1
694	E-00003625	95C 90 23	JUMPER	D807		0
695	E-00003625	95C 90 23	JUMPER	J801		0
696	E-00003625	95C 90 23	JUMPER	J802		0
697	E-00003625	95C 90 23	JUMPER	J805		0
698	E-00003625	95C 90 23	JUMPER	J808		0
699	E-00003625	95C 90 23	JUMPER	J809		0
700	E-00003625	95C 90 23	JUMPER	J811		0
701	#N/A	61A212Y56152T	560OHM 1/2W	R837		1
702	#N/A	61C 17210152T	CFR 100OHM+-5% 1/4W	R819		1
703	#N/A	61C 17210152T	CFR 100OHM+-5% 1/4W	R820		1
704	#N/A	61C 17210152T	CFR 100OHM+-5% 1/4W	R821		1
705	#N/A	61C 17210552T	CFR 1MOHM +-5% 1/4W	R829		1
706	#N/A	61C 17210552T	CFR 1MOHM +-5% 1/4W	R830		1
707	#N/A	61C 17210552T	CFR 1MOHM +-5% 1/4W	R831		1
708	#N/A	61C 17251052T	CFR 51OHM +-5% 1/4W	R823		1
709	#N/A	61C 17251052T	CFR 51OHM +-5% 1/4W	R825		1
710	#N/A	61C 17268052T	CFR 68 OHM +-5% 1/4W	R824		1
711	#N/A	61C 21010352T	MFR 10K OHM +- 1% 1/6W	R808		1
712	#N/A	61C 21056252T	5.6K 1/6W	R822		1
713	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R841		1
714	#N/A	61C 60210152T	CFR 100 OHM+-5% 1/6W	R842		1
715	#N/A	61C 60210252T	CFR 1K OHM+-5% 1/6W	R817		1
716	#N/A	61C 60210252T	CFR 1K OHM+-5% 1/6W	R818		1
717	#N/A	61C 60211352T	CFR 11K OHM+-5% 1/6W	R832		1
718	#N/A	61C 60211352T	CFR 11K OHM+-5% 1/6W	R833		1
719	#N/A	61C 60211352T	CFR 11K OHM+-5% 1/6W	R834		1
720	#N/A	61C 60218252T	CFR 1.8K OHM+-5% 1/6W	R809		1
721	#N/A	61C 60218252T	CFR 1.8K OHM+-5% 1/6W	R810		1
722	#N/A	61C 60233052T	CFR 33 OHM +-5% 1/6W	R803		1
723	#N/A	61C 60233052T	CFR 33 OHM +-5% 1/6W	R804		1
724	#N/A	61C 60233052T	CFR 33 OHM +-5% 1/6W	R805		1
725	#N/A	61C 60247252T	CFR 4.7K OHM+-5% 1/6W	R807		1
726	#N/A	61C 60275052T	CFR 75 OHM+-5% 1/6W	R801		1
727	#N/A	61C 60275052T	CFR 75 OHM+-5% 1/6W	R802		1
728	#N/A	61C 60275052T	CFR 75 OHM+-5% 1/6W	R806		1
729	E-00004327	61C 60282252T	CFR 8.2K OHM +-5% 1/6W	R816		1
730	#N/A	61C175L15152T	CFR 150 OHM+-5% 1/2W	R827		1
731	#N/A	61C175L15152T	CFR 150 OHM+-5% 1/2W	R828		1
732	#N/A	61C175L75052T	CFR 75 OHM +-5% 1/2W	R826		1
733	#N/A	71C 55 9 T	C CORE RF BEAD RH 3.5X6X0	FB802		1
734	#N/A	71C 55 9 T	C CORE RF BEAD RH 3.5X6X0	FB804		1
735	#N/A	71C 55 9 T	C CORE RF BEAD RH 3.5X6X0	FB807		1
736	#N/A	71C 55 9 T	C CORE RF BEAD RH 3.5X6X0	FB808		1
737	#N/A	71C 55 9 T	C CORE RF BEAD RH 3.5X6X0	FB809		1
738	#N/A	71C 55 9 T	C CORE RF BEAD RH 3.5X6X0	J803		1
739	#N/A	71C 55 9 T	C CORE RF BEAD RH 3.5X6X0	L805		1
740	#N/A	71C 5519R	FERRITE BEAD 9X3.5X0.8	FB806		1
741	#N/A	73C 5447810T	0.47UH +-10% peaking co	L801		1
742	#N/A	73C 5447810T	0.47UH +-10% peaking co	L802		1
743	#N/A	73C 5447810T	0.47UH +-10% peaking co	L803		1
744	#N/A	93C 39 5252T	HZ5C2-E	ZD805		0
745	#N/A	93C 39 7752T	HZ5C1-E	ZD805		0
746	E-00003628	93C 3951652T	TZX5V1B	ZD805		1
747	#N/A	93C 6021W52T	FR155/WILLAS	D822		1
748	#N/A	93C 64 1152T	IN4148	D801		1
749	#N/A	93C 64 1152T	IN4148	D802		1
750	#N/A	93C 64 1152T	IN4148	D803		1
751	#N/A	93C 64 1152T	IN4148	D804		1
752	#N/A	93C 64 1152T	IN4148	D805		1
753	#N/A	93C 64 1152T	IN4148	D806		1
754	#N/A	93C 6431P52T	BAV20	D819		1
755	#N/A	93C 6431P52T	BAV20	D820		1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
756	#N/A	93C 6431P52T	BAV20	D821		1
757	#N/A	93C 6450752T	BAV21	D813		1
758	#N/A	93C 6450752T	BAV21	D814		1
759	#N/A	93C 6450752T	BAV21	D815		1
760	#N/A	93C 6450752T	BAV21	D816		1
761	#N/A	93C 6450752T	BAV21	D817		1
762	#N/A	93C 6450752T	BAV21	D818		1
763	#N/A	64C176J104 0T	0.1UF 5% 63V	C814		1
764	#N/A	64C178J104 0T	CL21X0.1UF 63V +-5%	C804		1
765	#N/A	64C178J104 0T	CL21X0.1UF 63V +-5%	C805		1
766	#N/A	64C178J104 0T	CL21X0.1UF 63V +-5%	C806		1
767	#N/A	64C178J104 1T	C121X 0.1UF 100V +-5%	C819		1
768	#N/A	64C178J104 2T	.1UF 250V	C834		1
769	#N/A	64C178J224 1T	C121X 0.22UF 100V +-5%	C821		1
770	#N/A	64C700J3330AT	0.033UF 63V +-5%	C817		1
771	#N/A	65C 1K101 5T6921	100PF/1KV Y5P+-10%	C850		1
772	#N/A	65C 1K102 5T6921	1NF/1KV Y5P+-10%	C813		1
773	#N/A	65C 1K102 5T6921	1NF/1KV Y5P+-10%	C831		1
774	#N/A	65C 1K102 5T6921	1NF/1KV Y5P+-10%	C848		1
775	#N/A	65C 1K331 5T6921	330PF/1KV Y5P+-10%	C853		1
776	#N/A	65C 2K102 5T6921	1000PF/2KV	C851		1
777	E-C-0404-4629	65C 44210113T	100PF +-5% NPO 50V	C811		1
778	E-C-0404-4629	65C 44210113T	100PF +-5% NPO 50V	C812		1
779	E-C-0404-4629	65C 44210113T	100PF +-5% NPO 50V	C825		1
780	E-C-0404-4629	65C 44210113T	100PF +-5% NPO 50V	C826		1
781	E-C-0404-4629	65C 44210113T	100PF +-5% NPO 50V	C827		1
782	#N/A	65C 44222013T	22PF +-5% NPO 50V	C801		1
783	#N/A	65C 44222013T	22PF +-5% NPO 50V	C802		1
784	#N/A	65C 44222013T	22PF +-5% NPO 50V	C803		1
785	#N/A	65C 44410213T	1000PF +-10% Y5P 50V	C820		1
786	#N/A	65C 44410213T	1000PF +-10% Y5P 50V	C824		1
787	#N/A	65C 44410213T	1000PF +-10% Y5P 50V	C830		1
788	#N/A	65C 444152 5T	1500PF 10% Y5P 50V	C815		1
789	#N/A	65C 444471 5T	470PF 10% 50V Y5P	C808		1
790	#N/A	65C 450104 3T	0.1UF 50V Y5V	C846		1
791	#N/A	65C 450104 7T	0.1UF +80-20% 50V Y5V	C818		1
792	#N/A	65C 450104 7T	0.1UF +80-20% 50V Y5V	C849		1
793	#N/A	65C 4501047TV	0.1UF +80-20% 50V	C810		1
794	#N/A	65C 4501047TV	0.1UF +80-20% 50V	C822		1
795	#N/A	65C 4501047TV	0.1UF +80-20% 50V	C835		1
796	#N/A	65C 4501047TV	0.1UF +80-20% 50V	C836		1
797	#N/A	65C 4501047TV	0.1UF +80-20% 50V	C837		1
798	#N/A	65C 4501047TV	0.1UF +80-20% 50V	C854		1
799	#N/A	67C 70109 9T	1UF +-20% 100V	C841		1
800	#N/A	67C 70109 9T	1UF +-20% 100V	C842		1
801	#N/A	67C 70109 9T	1UF +-20% 100V	C843		1
802	#N/A	67C 305100 7T	10UF +-20% 50V	C809		1
803	#N/A	67C 305100 9T	10UF +-20% 100V	C807		1
804	#N/A	67C 305221 3T	220UF +-20% 16V	C828		1
805	#N/A	67C 305470 4T	47UF +-20% 25V	C847		1
806	E-00002713	93C 5247P52T	1N4004	FB805		1
807	#N/A	M1C1730 8128	SCREW M3x8			1
808	E-00001622	56C 551521	LM2465TA	IC802		1
809	#N/A	90C6279 1	HEAT SINK			1
810	#N/A	5C 71 1	TRANSISTOR HOUSING			1
811	#N/A	32C3028504	MICA			1
812	E-00004071	57C 724502	STP9NK70Z	Q901		1
813	#N/A	90C6234 1	HEAT SINK			1
814	#N/A	M1C1730 12128	SCREW			1
815	E-00003861	750C55382AV	SDI 19" DFT-M WB CRT			1
816	#N/A	32C3028 8	MICA			1
817	E-00004896	56C 533 1	E-STV8172A	IC601		1
818	#N/A	90C 348527 A	HEAT SINK			1
819	#N/A	M1C1730 10128	SCREW M3x10			1
820	#N/A	56C 550500	SLA5094	IC403		1
821	#N/A	90C6029 1 A	HEAT SINK			1
822	#N/A	M1C1730 8128	SCREW M3x8			2
823	E-Q-0402-1433	57A 610501	IRF640A BY FAIRCHILD	Q424		0
824	#N/A	57C 600514	FQP10N20C FAIRCHILD	Q424		1
825	E-00004089	57C 706508	2SC5905	Q403		1
826	E-00002867	57C 724501	STP9NK70ZFP	Q421		1
827	#N/A	90C6233 1	HEAT SINK			1
828	E-D-0403-2033	93C 220 13	FMQ-G2FS	D408		1
829	#N/A	M1C1130 8128	SCREW 3.0X8			2
830	#N/A	M1C1730 8128	SCREW M3x8			1
831	#N/A	M1C1730 8128	SCREW M3x8			1

Item	ViewSonic P/N	Ref. P/N	Description	Location	Universal number#	Q'ty
832	#N/A	M1C1730 10128	SCREW M3x10			1
833	#N/A	M1C1730 10128	SCREW M3x10			1
834	E-00004070	57C 751 4	2SJ584LS	Q426		1
835	#N/A	90C 275503	HEAT SINK			1
836	#N/A	M1C1730 8128	SCREW M3x8			1
837	#N/A	9C 203 9	PIN			1
838	E-R-0405-0377	61C 58 9T	NTCR 100HM+-20% 5A THIN	NR901		1
839	#N/A	61C 58 9W	NTCR 100HM+-20% 5A WALS	NR901		0
840	M-00002753	87C 501 6	AC SOCKET			1
841	#N/A	95C 800 2 1	WIRE HARNESS			1
842	E-00003625	95C 90 23	JUMPER	XGND1		1

8. Exploded Diagram And Spare Parts List



ViewSonic Corporation		
Model	G90fB-4	
Title		
Date		Rev:

EXPLODED PARTS LIST (G90fB-4M/E/P)

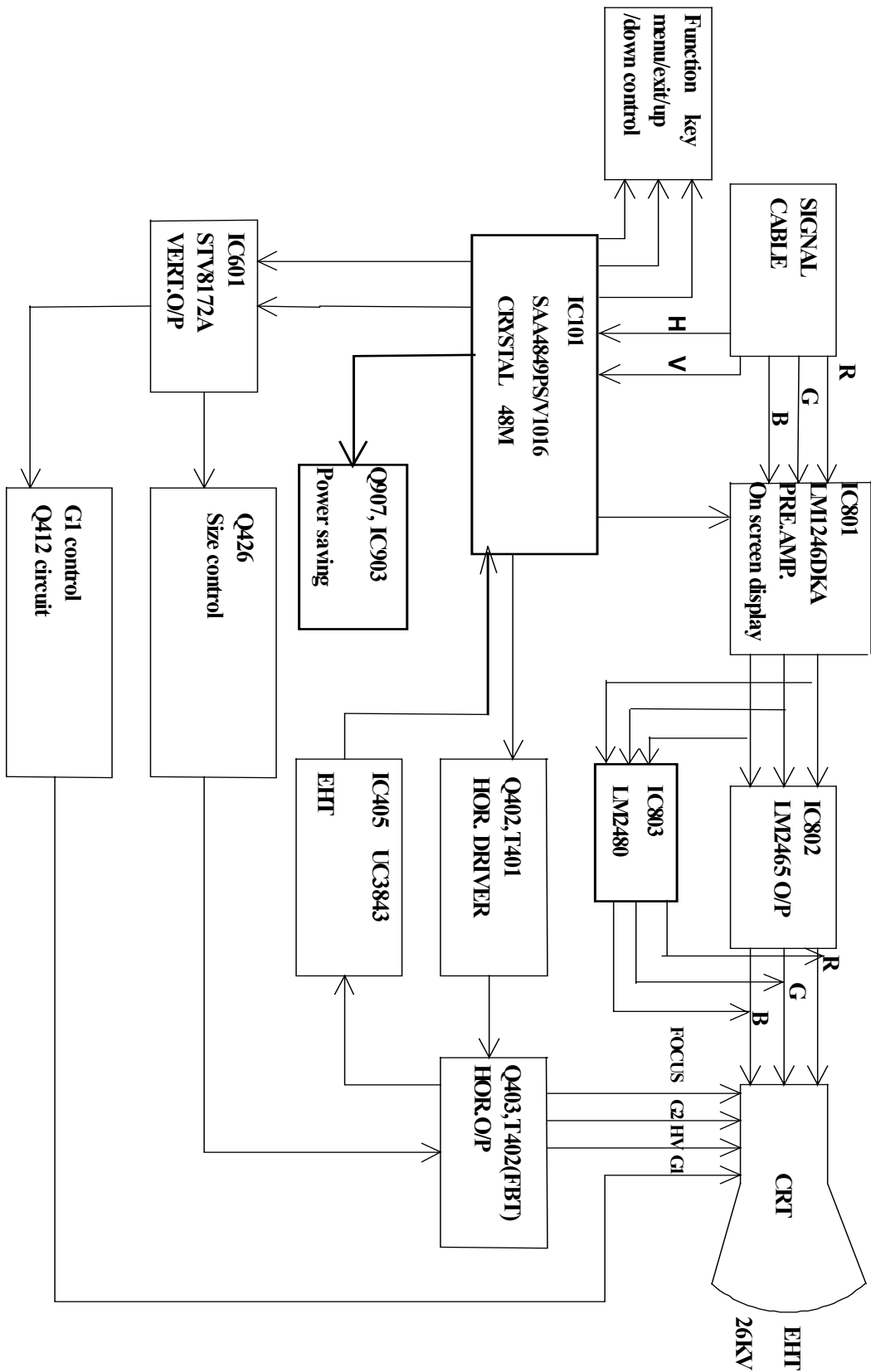
ViewSonic Model Number: VS10794-3M/E/P

Rev: 1a

Serial No. Prefix: PY9 / PYA / PYC

Item	ViewSonic P/N	Ref. P/N	Description	Q'ty
1	#N/A	23C3182 - 1	LOGO	1 PCS
2	C-00004893	34C6285-AFD - T	BEZEL	1PCS
3	#N/A	33C6339- E7 - T	OSD KNOB	1PCS
4	#N/A	33C6338- E7 - T	KEY PAD	1 PCS
5	#N/A	33C6337 - 1	LENS	1PCS
6	#N/A	33C6336- E7 - T	POWER KNOB	1 PCS
7	#N/A	1C 503 -5T- 47	SCREW	4 PCS
8	#N/A	85C6024-506	SHIELD	1 PCS
9	C-00004891	34C6286- E7 - T	REAR COVER	1 PCS
10	HW-00002749	Q1C 340-16- 47	SCREW	4 PCS
11	#N/A	34C6293 -QE - B	SWIVEL	1 PCS
12	#N/A	34C 741- QE - B	BASE	1 PCS
13	E-00003861	750C5538-2AV	CRT	1 PCS
14	#N/A	15C1480 – 1-VS0	PCB	1 PCS

9. Block Diagram

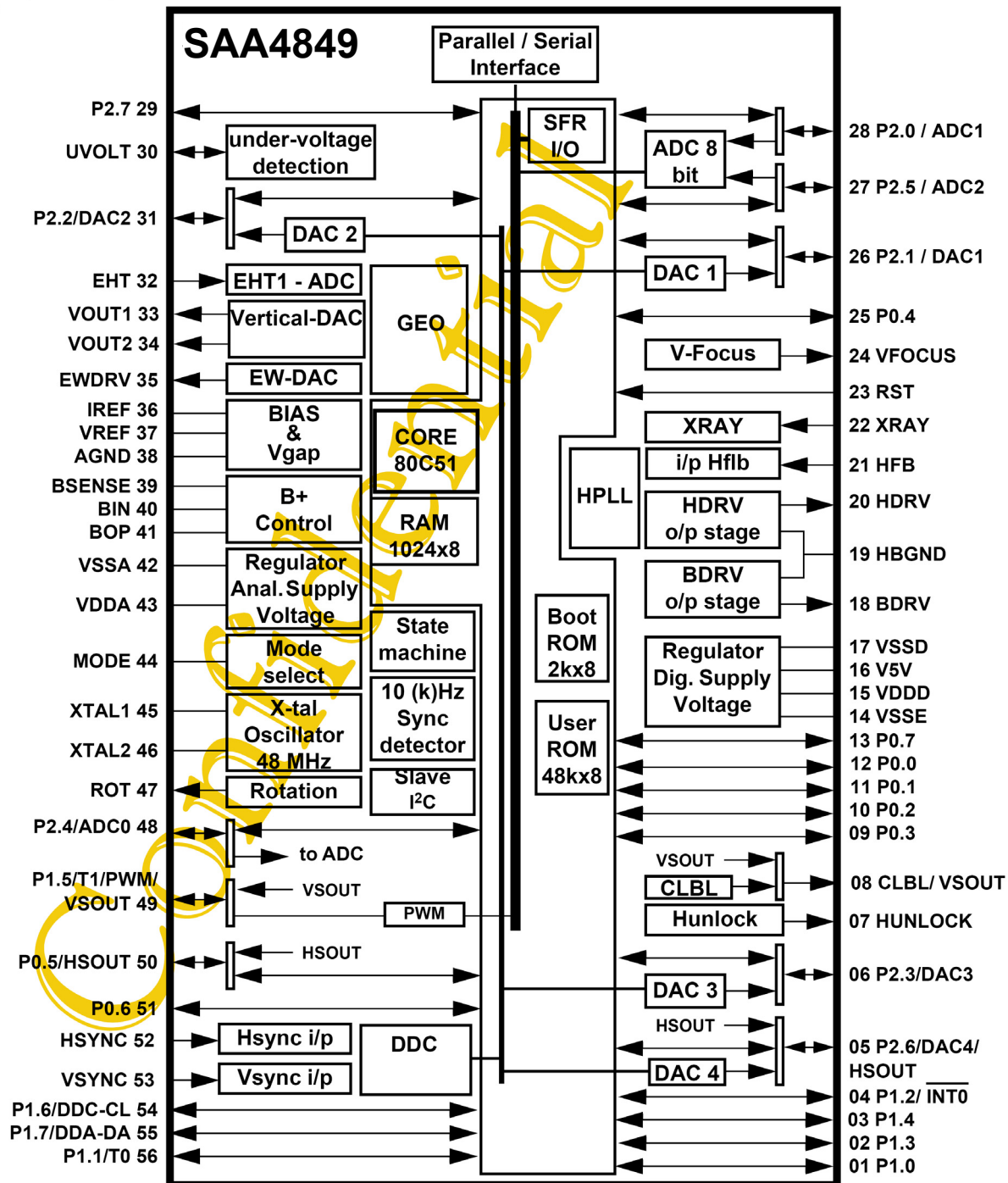


IC101		
1	SwiChoice	NC 56
2	ISCL	DSDA 55
3	ISDA	DSCL 54
4	Mute G1	Vs 53
5	ROTA	Hs 52
6	H-LIN	EEP W/R 51
7	Unlock	Pro 50
8	CLAMP	VsOUT 49
9	CS1	REM 48
10	CS2	NC 47
11	NC	XTAL2 46
12	standby	XTAL1 45
13	OFF	MODE 44
14	VSSE	VDDA 43
15	VDDD	Vssa 42
16	V5V	BOP 41
17	VSSD	Bin 40
18	BDRV	Bsens 39
19	HBGND	AGND 38
20	HDRV	Vref 37
21	HFB	Iref 36
22	XRAY	EWdrv 35
23	RST	VOUT2 34
24	Vfocus	VUOT1 33
25	Deguss	EHT 32
26	ABLadj	DouColor 31
27	KEY2	Uvolt 30
28	KEY1	SinColor 29

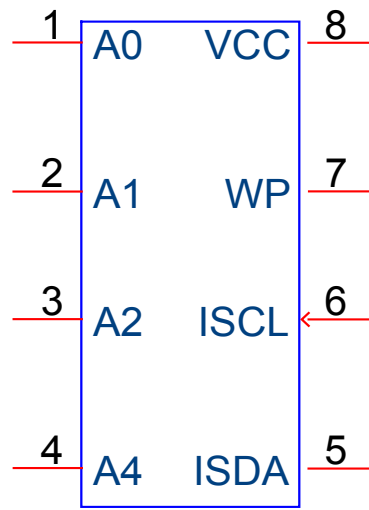
56A1125-575

IC101 SAA4849

BLOCK DIAGRAM

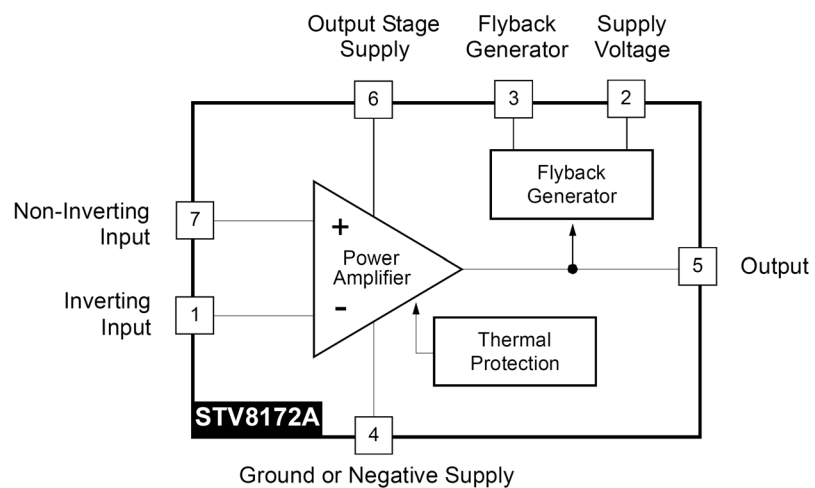
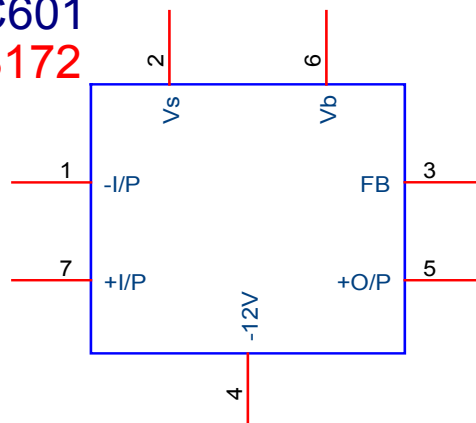


IC102



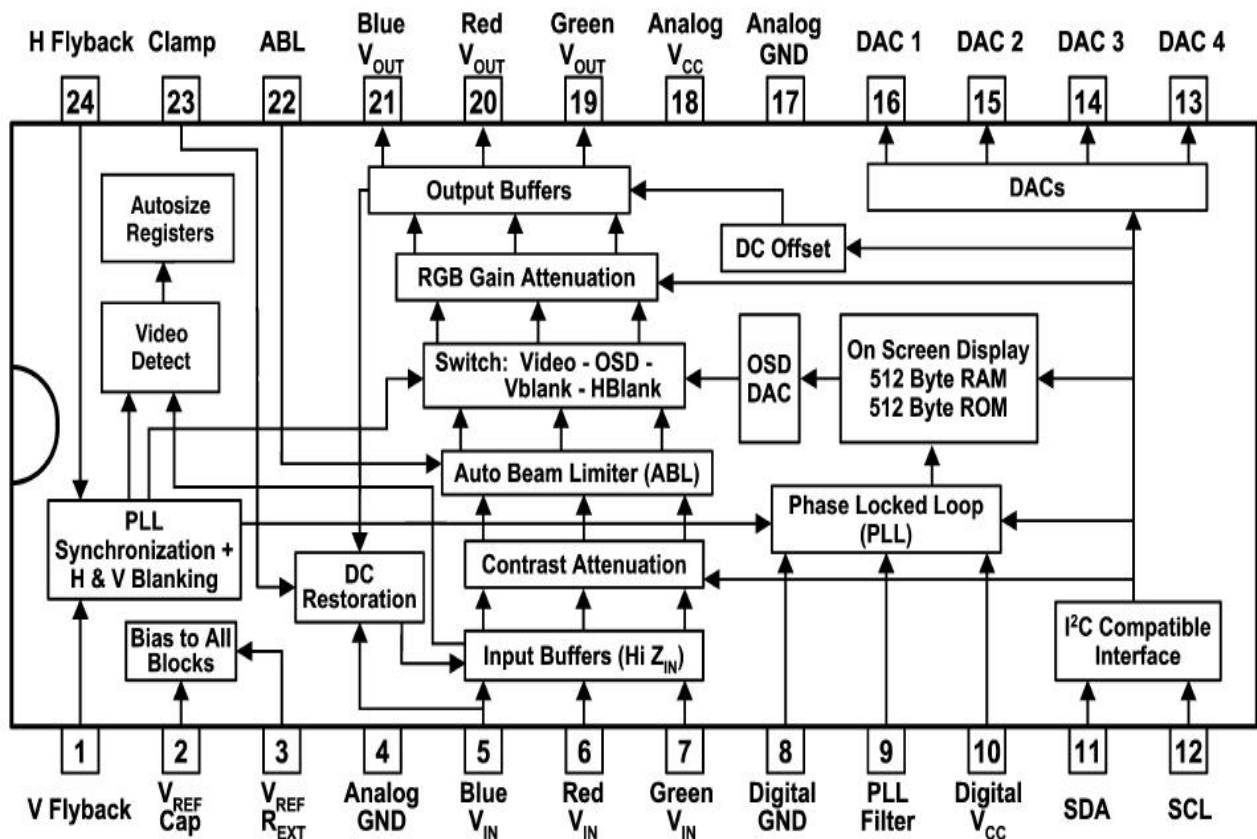
M24C08-BN6

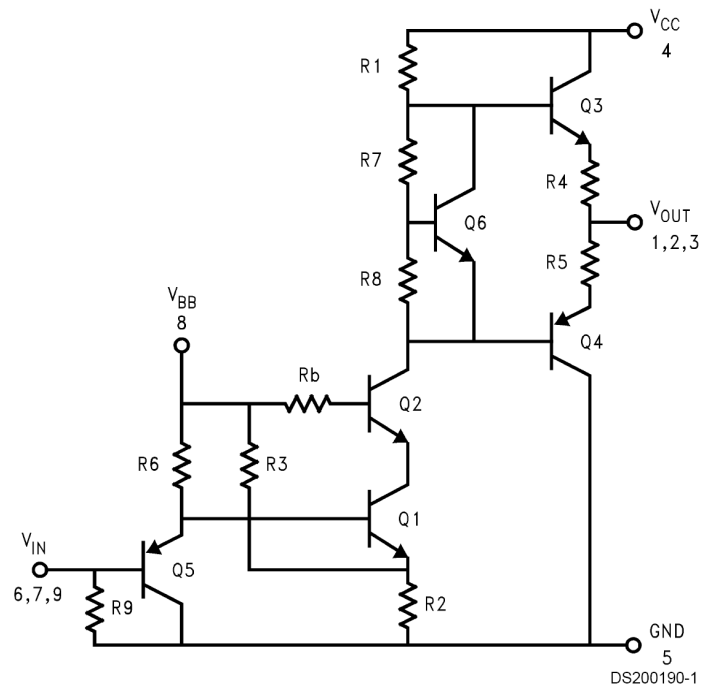
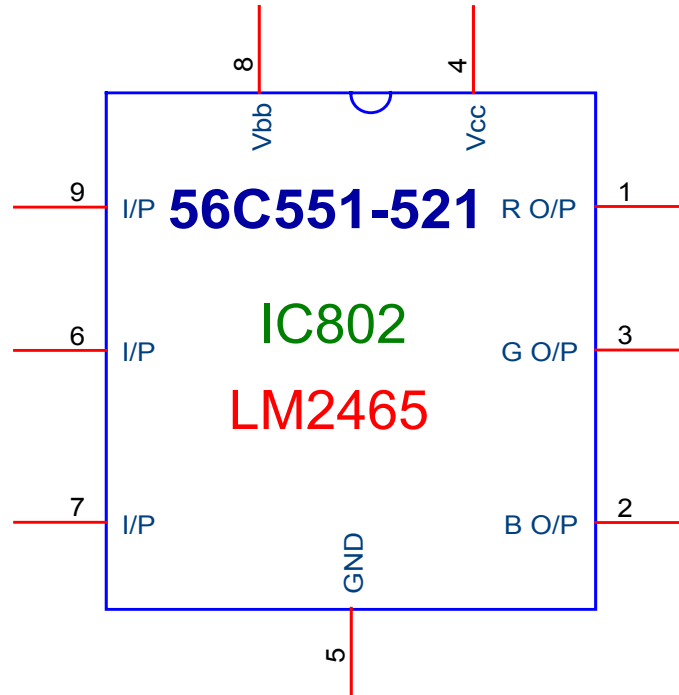
IC601 TDA8172



IC801
LM1246DKA

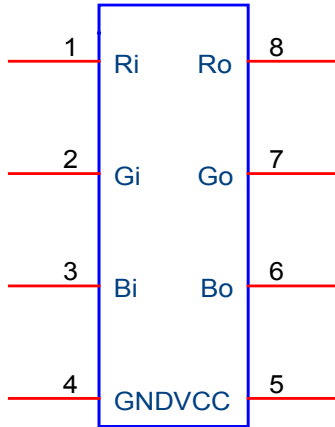
1	V FLY	H FLY	24
2	CAPA	CLAMP	23
3	VDD1	ABL	22
4	GND1	R	21
5	R	G	20
6	G	B	19
7	B	VDD	18
8	GNDPLL	GND	17
9	VCO	1OUT	16
10	VCC	2OUT	15
11	SDA	3OUT	14
12	SCL	CAP D	13





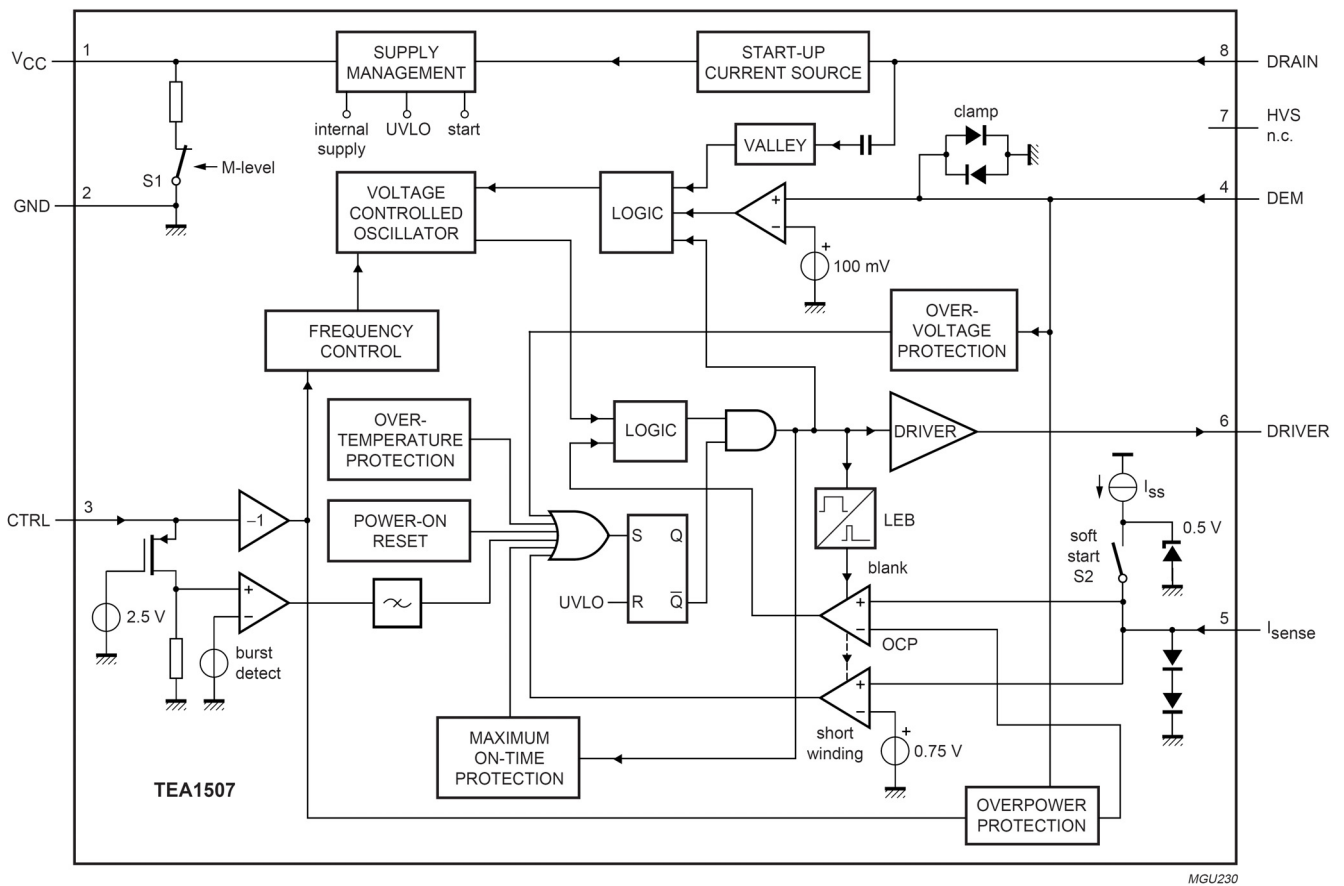
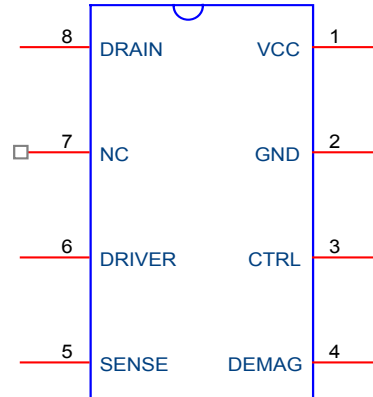
**FIGURE 1. Simplified Schematic Diagram
(One Channel)**

56C539-6
LM2480NA
IC803

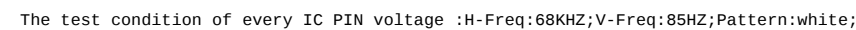


IC901

TEA1507P

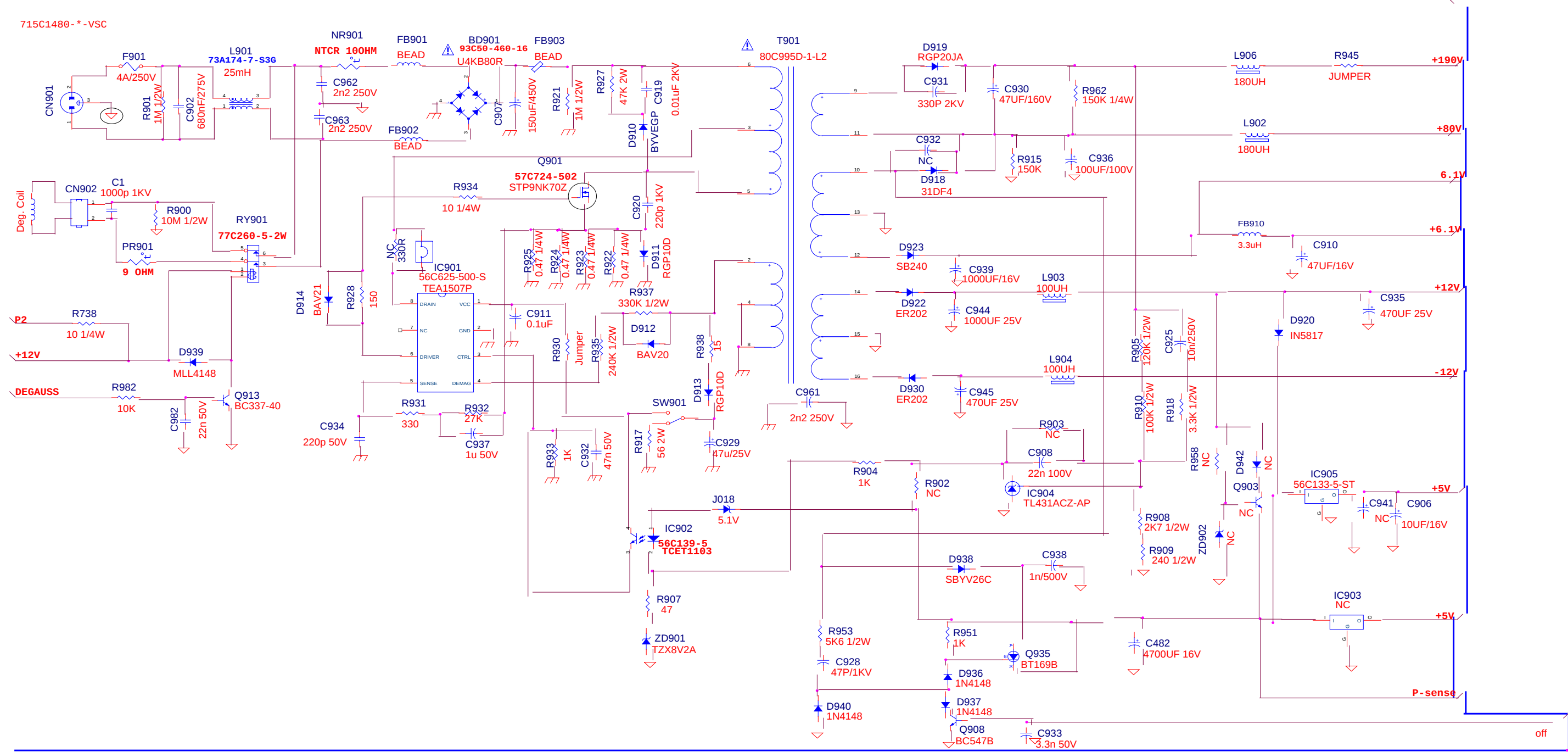


10-1. CPU

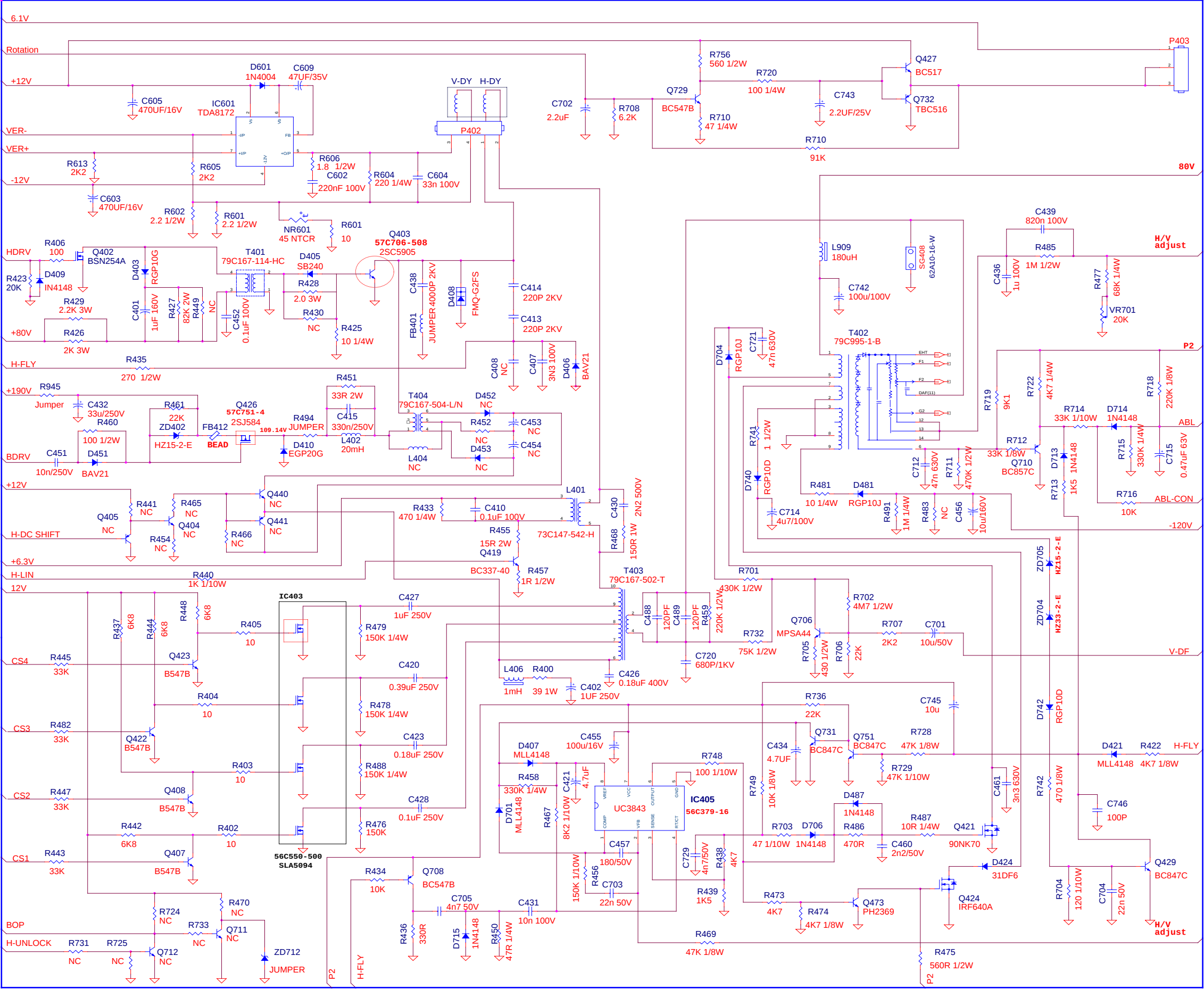


CS真值表	CS1	CS2	CS3	CS4
<33KHz	0	0	0	0
33KHz~40.5KHz	1	0	1	0
40.5KHz~45KHz	0	0	0	1
45KHz~51KHz	1	0	0	1
51KHz~62KHz	1	1	0	1
62KHz~71KHz	1	0	1	1
71KHz~83KHz	0	1	1	1
>83KHz	1	1	1	1

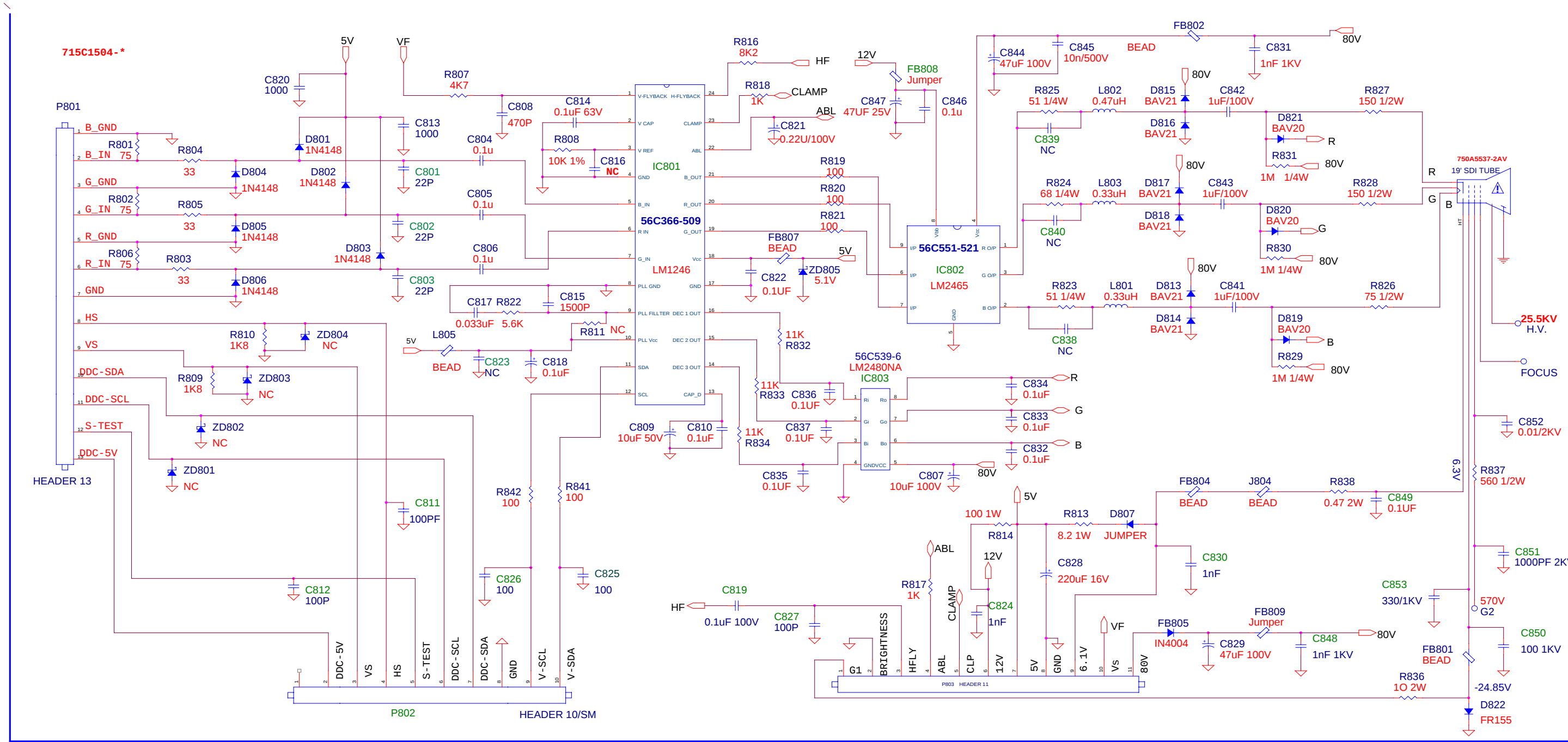
10-2. POWER



10-3. OUTPUT

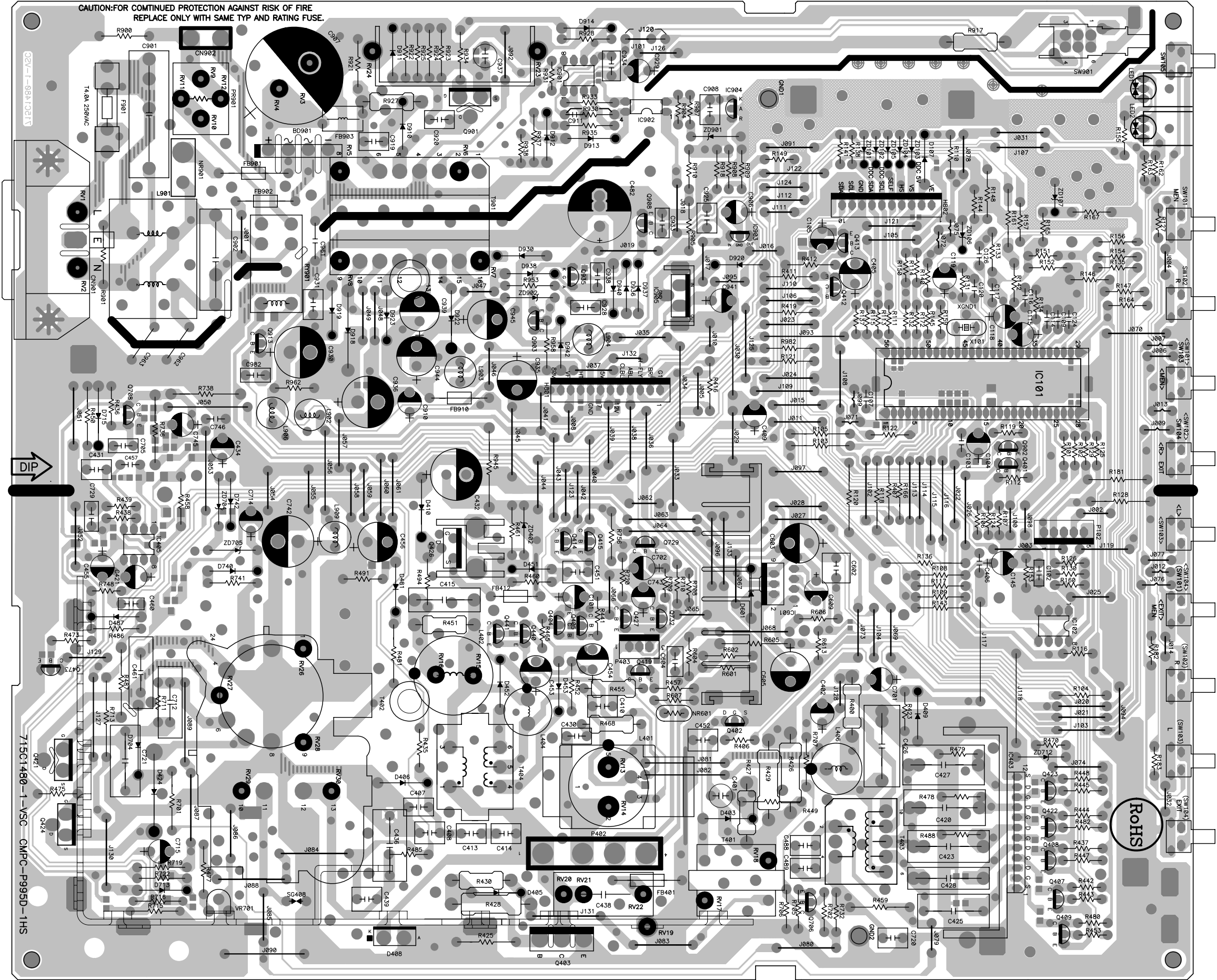


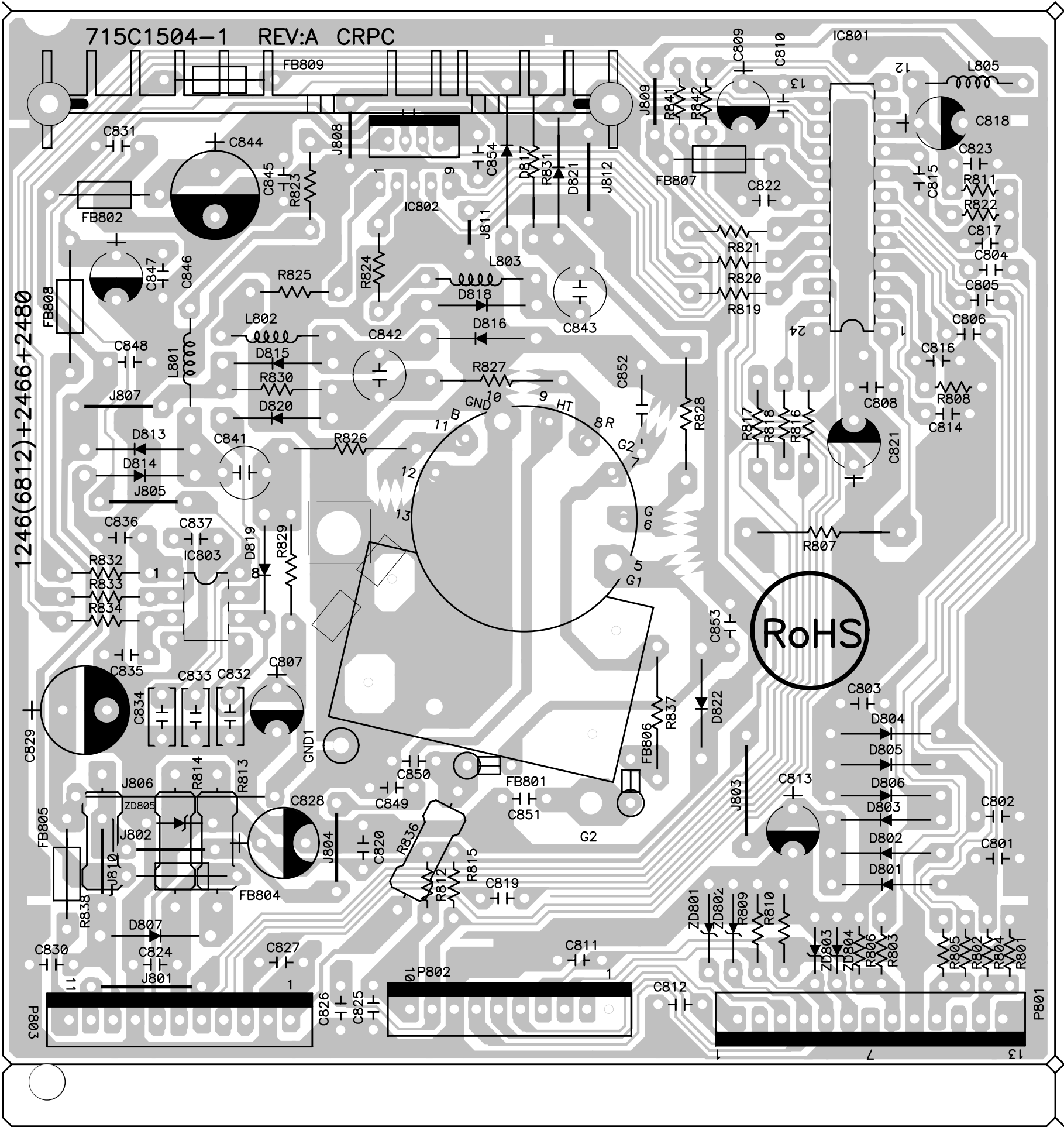
10-4. VIDEO



11. PCB Layout Diagrams

11-1. Main PCB Layout





**** Reader's Response****

Dear Readers:

Thank you in advance for your feedback on our Service Manual, which allows continuous improvement of our products. We would appreciate your completion of the Assessment Matrix below, for return to ViewSonic Corporation.

Assessment

A. What do you think about the content of **this** Service Manual?

<i>Unit</i>	<i>Excellent</i>	<i>Good</i>	<i>Fair</i>	<i>Bad</i>
1. Precautions and Safety Notices				
2. Specification				
3. Front Panel Function Control Description				
4. Circuit Description				
5. Adjustment Procedure				
6. Troubleshooting Flow Chart				
7. Recommended Spare Parts List				
8. Exploded Diagram and Exploded Parts List				
9. Block Diagrams				
10. Schematic Diagrams				
11. PCB Layout Diagrams				

B. Are you satisfied with **this** Service Manual?

<i>Item</i>	<i>Excellent</i>	<i>Good</i>	<i>Fair</i>	<i>Bad</i>
1. Service Manual Content				
2. Service Manual Layout				
3. The form and listing				

C. Do you have any other opinions or suggestions regarding **this** service manual?

Reader's basic data:

Name:		Title:	
Company:			
Add:			
Tel:		Fax:	
E-mail:			

After completing this form, please return it to ViewSonic Quality Assurance in the USA at facsimile 1-909-839-7943. You may also e-mail any suggestions to the Director, Quality Systems & Processes (marc.maupin@viewsonic.com)