

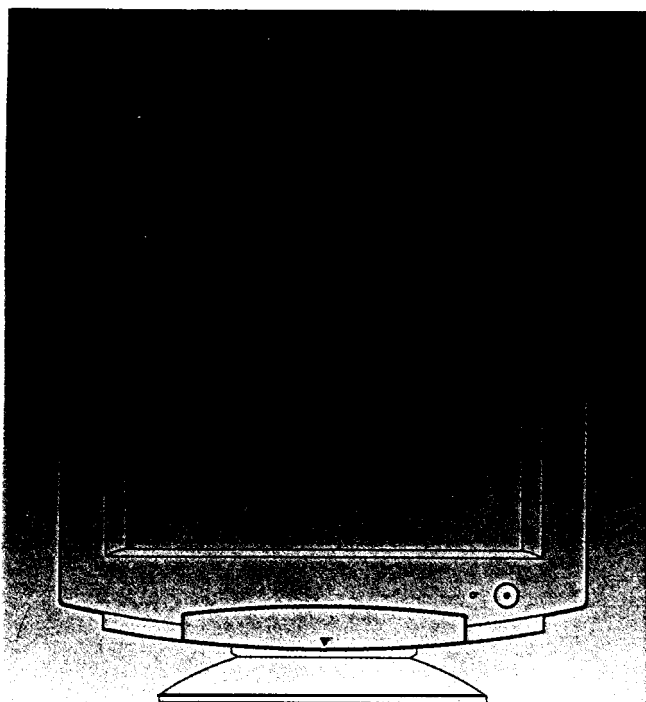
SAMTRON

COLOR MONITOR

SC-726GXL

SERVICE *Manual*

COLOR MONITOR



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1 Precautions

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock and X-rays.

1-1 Safety Precautions

1-1-1 Warnings

1. For continued safety, do not attempt to modify the circuit board.
2. Disconnect the AC power before servicing.
3. When the chassis is operating, semiconductor heat sinks are potential shock hazards.

1-1-2 Servicing the High Voltage System and Picture Tube

1. When servicing the high voltage system, remove the static charge by connecting a 10k ohm resistor in series with an insulated wire (such as a test probe) between the chassis and the anode lead. (Disconnect the AC line cord from the AC outlet.)
2. Do not lift the picture tube by the neck.
3. Handle the picture tube only when wearing shatterproof goggles and after completely discharging the high voltage anode.

1-1-3 X-Rays and High Voltage Limits

1. Keep the high voltage below the specified maximum level. Be sure all service personnel are aware of the procedures and instructions covering X-rays.
The only potential source of X-ray in current solid state display monitors is the tube. However, the picture tube does not emit measurable X-ray radiation if the high voltage is as specified in the fire and shock hazard instruction. Only when high voltage is excessive are X-rays capable of penetrating the shell of the picture tube, including the lead in glass material.
2. It is essential that service technicians have an accurate high voltage meter available at all times. Check the calibration of this meter periodically.

3. High voltage should always be kept at the rated value, no higher. Operation at high voltages may cause failure of the picture tube or high voltage circuitry and, also under certain conditions, may produce X-rays in excess of acceptable levels.
4. When the high voltage regulator is operating properly there is no possibility of an X-ray problem. Test the brightness and use a meter to monitor the high voltage each time a color monitor comes in for service. Make sure the high voltage does not exceed its specified value and that it is regulating correctly.
5. The picture tube is especially designed to prohibit X-ray emissions. To ensure continued X-ray protection, replace the picture tube only with one that is the same or equivalent type as the original. Carefully reinstall the picture tube shields and mounting hardware; these also provide X-ray protection.
6. When troubleshooting a monitor with excessively high voltage, avoid being unnecessarily close to the monitor. Do not operate the monitor longer than is necessary to locate the cause of excessive voltage.

1-1-4 Fire and Shock Hazard

Before returning the monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment cover or shields, isolation resistor-capacitor networks, mechanical insulators, etc.

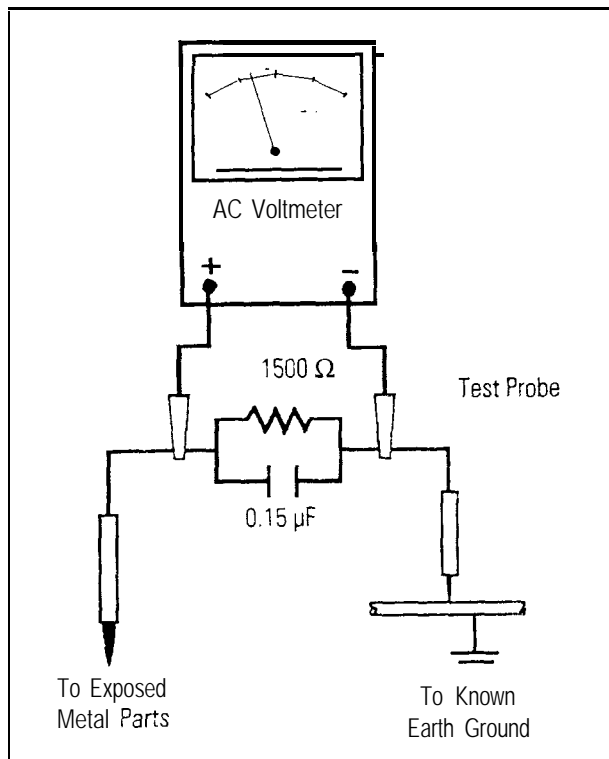


Figure1 -1. leakage Current Test Circuit

I-I-5 Product Safety Notices

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by Δ on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and / or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

3. To be sure that no shock hazard exists, check for leakage current in the following manner:
 - a. Plug the AC line cord directly into a 120 Volt AC outlet. (Do not use an isolation transformer for this test)
 - b. Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 μ F capacitor in series with an exposed metal cabinet part and a known earth ground, such as an electrical conduit or electrical ground connected to an earth ground.
 - c. Use a SSVM or VOM with 1000 ohms per-volt or higher sensitivity to measure the AC voltage drop across the resistor (see Figure I-1).
 - d. Connect the resistor to an exposed metal part having a return path to the chassis (metal cabinet, screw heads, knobs, shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.
 - e. Any reading of 5.25 Volt RMS (this corresponds to 3.5 milliamperes AC) or more is excessive and indicates a potential shock hazard. Correct the shock hazard before returning the monitor to the user.

1-2 Servicing Precautions

Warning: An electrolytic capacitor installed with the wrong polarity might explode.

Caution: Before servicing instruments covered by this service manual and its supplements, read and follow the Safety Precautions section of this manual.

Note: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.


1-2-1 General Servicing Precautions

1. Servicing precautions are printed on the cabinet. Follow them.
2. Always unplug the unit's AC power cord from the AC power source before attempting to: (a) remove or reinstall any component or assembly, (b) disconnect an electrical plug or connector, (c) connect a test component in parallel with an electrolytic capacitor.
3. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
4. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the portion around the serviced part has not been damaged.
5. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
6. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to the blades of the AC plug.

The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
7. Never defeat any of the B+ voltage interlocks. Do not apply AC power to the unit (or any of its assemblies) unless all solid-state heat sinks are correctly installed.
8. Always connect a test instrument's ground lead to the instrument chassis ground *before* connecting the positive lead; always remove the instrument's ground lead last.

I-3 Electrostatically Sensitive Devices (ESD) Precautions

Some semiconductor (solid state) devices can be easily damaged by static electricity. Such components commonly are called Electrostatically Sensitive Devices (ESD). Examples of typical ESD devices are integrated circuits and some field-effect transistors. The following techniques will reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as "antistatic" can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.
9.  marks parts for ESDs on schematic diagrams and electrical parts list.

Caution: Be sure no power is applied to the chassis or circuit and observe all other safety precautions.

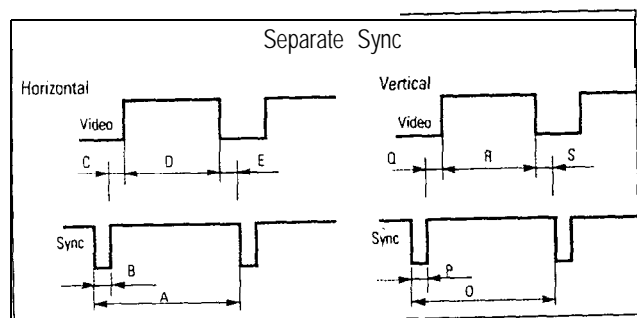
2 Reference Information

2-1 Timing Chart

This section of the service manual describes the timing that the computer industry recognizes as standard for computer-generated video signals.

Table 2-1. Timing Chart

| Mode Timing | IBM | | VESA | | | |
|-----------------------|-----------------------|-----------------------|----------------------|----------------------|------------------------|------------------------|
| | VGA2/70 Hz 720x400 | VGA3/60 Hz 640x480 | 640/75 Hz 640x480 | 800/75 Hz 800x600 | 1024/60 Hz 1024x768 | 1024/75 Hz 1024x768 |
| fH (kHz) | 31.469 | 31.469 | 37.500 | 46.875 | 48.363 | 60.023 |
| A μ sec | 31.777 | 31.778 | 26.667 | 21.333 | 20.677 | 16.660 |
| B μ sec | 3.813 | 3.813 | 2.032 | 1.616 | 2.092 | 1.219 |
| C μ sec | 1.907 | 1.907 | 3.810 | 3.232 | 2.462 | 2.235 |
| D μ sec | 25.422 | 25.422 | 20.317 | 16.162 | 15.754 | 13.003 |
| E μ sec | 0.636 | 0.636 | 0.508 | 0.323 | 0.369 | 0.203 |
| fV (Hz) | 70.087 | 59.940 | 75.000 | 75.000 | 60.004 | 75.029 |
| Q msec | 14.268 | 16.683 | 13.333 | 13.333 | 16.666 | 13.328 |
| P msec | 0.064 | 0.064 | 0.080 | 0.064 | 0.124 | 0.050 |
| Q msec | 1.080 | 1.048 | 0.427 | 0.448 | 0.600 | 0.466 |
| R msec | 12.711 | 15.253 | 12.800 | 12.800 | 15.880 | 12.795 |
| S msec | 0.413 | 0.318 | 0.027 | 0.021 | 0.062 | 0.017 |
| Clock Frequency (MHz) | 28.322 | 25.175 | 31.500 | 49.500 | 65.000 | 78.750 |
| Polarity H.Sync | Positive | Negative | Negative | Positive | Negative | Positive |
| V. Sync | Negative | Negative | Negative | Positive | Negative | Positive |
| Remark | Separate | Separate | Separate | Separate | Separate | Separate |



A: Line time total

B: Sync width

C: Back porch

D: Active time

E: Front porch

O: Frame time total

P: Sync width

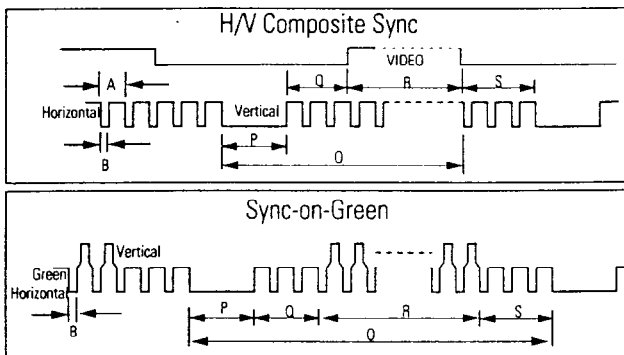
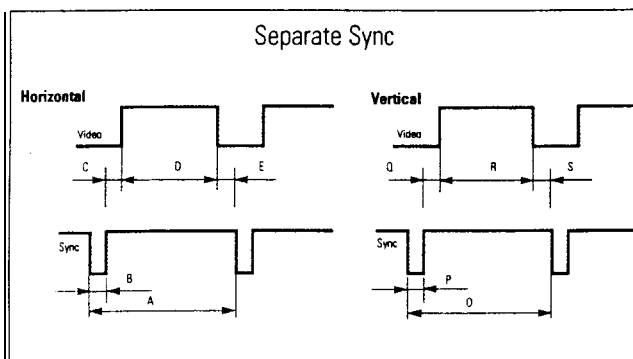
Q: Back porch

R: Active time

S: Front porch

Table 2-I. Timing Chart Continued

| Mode Timing | VESA | SIGMA | Apple Mac. | | SUN |
|-----------------------|-------------------------|-----------------------|----------------------|--|------------------------|
| | 1280/75 Hz 1280x1024 | 800/120 Hz 800x600 | 832/75 Hz 832x624 | 1152/75 Hz 1152x870 | 1152/76 Hz 1152x900 |
| fH (kHz) | 79.976 | 76.923 | 49.726 | 68.681 | 71.713 |
| A μ sec | 12.504 | 13.000 | 20.110 | 14.560 | 13.945 |
| B μ sec | 1.067 | 1.100 | 1.117 | 1.280 | 0.909 |
| C psec | 1.837 | 1.400 | 3.910 | 1.440 | 1.970 |
| D μ sec | 9.481 | 10.000 | 14.524 | 11.520 | 10.913 |
| E μ sec | 0.119 | 0.500 | 0.559 | 0.320 | 0.152 |
| fV (Hz) | 75.025 | 120.192 | 74.551 | 75.062 | 76.047 |
| O msec | 13.329 | 8.320 | 13.414 | 13.322 | 13.150 |
| P msec | 0.038 | 0.195 | 0.060 | 0.044 | 0.112 |
| Q msec | 0.475 | 0.247 | 0.784 | 0.568 | 0.460 |
| R msec | 12.804 | 7.800 | 12.549 | 12.667 | 12.550 |
| S msec | 0.013 | 0.078 | 0.020 | 0.044 | 0.028 |
| Clock Frequency (MHz) | 135.000 | 80.000 | 57.284 | 100.000 | 105.560 |
| Polarity H.Sync | Positive | Negative | Negative | Negative | Negative/Positive |
| V.Sync | Positive | Negative | Negative | Negative | Negative/Positive |
| Remark | Separate | Separate | Separate | Composite (Sync-on-green+Composite) | Separate |



A : Line time total

B : Sync width

C : Back porch

D : Active time

E : Front porch

O : Frame time total

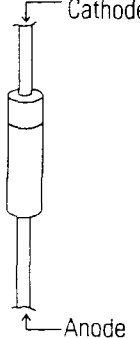
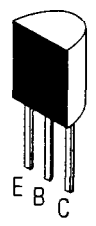
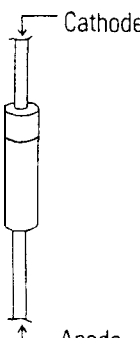
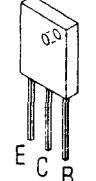
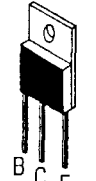
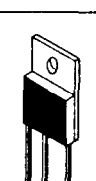
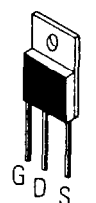
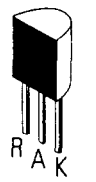

P : Sync width

Q : Back porch

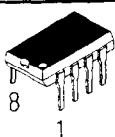

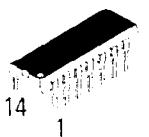

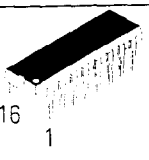

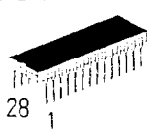

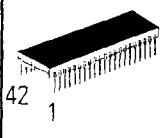

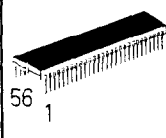



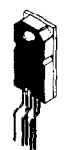

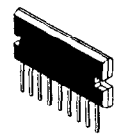

R : Active time

S : Front porch

2-2 Semiconductor lead Identification

| PARTS | TYPE NO. | REF. NO. | PARTS | TYPE NO. | REF. NO. |
|--|-------------|---|--|----------|--|
|  Cathode Anode | 1N4148 | D101, D102, D103, D107, D108, D109, D110, D111, D301, D303, D310, D401, D402, D404, D414, D417, D515, D602, D606, D802, D803, D804, DB1, DB2, DB3, DB4, DB5, DB6, DB7, DG1, DG2, DG3, DG4, DG5, DG6, DG7, DR1, DR2, DR3, DR4, DR5, DR6, DR7 |  E B C | KSC945-Y | Q106, Q108, Q402, Q418, Q602, Q804, Q805 |
| | BAV21 | D406, DB8, DB9, DG8, DG9, DR8, DR9 | | KSA733-Y | Q404, Q801, Q802 |
| | 2.7V ZENER | ZD105, ZD801 | | MPS3646 | Q105, Q111 |
| | 5.1 V ZENER | ZD101, ZD102, ZD103, ZD104, ZD107 | | KSC1008 | Q107, Q414, Q601 |
| | 6.2V ZENER | D201, D206 | | 2N3904 | Q110, Q112, Q290, Q301, Q302, Q303, Q333 |
| | 5.6 V ZENER | D106 | | 2N3906 | Q109 |
|  Cathode Anode | RGP02-12 | D508, D610 |  E C B | 2N5770 | Q114, Q115, Q116 |
| | 1N4002GP | D409, D503, D511, D512, D607 | | KS8772 | Q417 |
| | 1N4007GP | D105, D106, D603 |  E C B | KSD882 | Q416 |
| | 1N4937GP | D302, D412, D413, D510, D513 | | C3675 | Q415 |
| | 1R5GU41 | D613 |  B C E | MJW16212 | Q407, Q502 |
| | UF5404 | D403, D617, D618, D619, D620, D621 | | IRF610 | Q401, Q501 |
| | 1N4001GP | D407, D408, D501, D502, D623 | | IRF640 | Q409, Q410, Q411, Q412, Q413 |
| | UF4004 | D407, D408, D501, D502, D623 |  G D S | IRF740 | Q406, Q503 |
| | UF4007 | D421, D612 | | KA431 | IC103, IC402 |
| | 31DF6 | D614, D615, D616 |  R A K | VN066N | Q405 |
| | UF4001 | D411 | | | |
| | UF5408 | D506, D507 |  | | |
| | GBL06 | D601 | | | |

2-2 Semiconductor Lead Identification

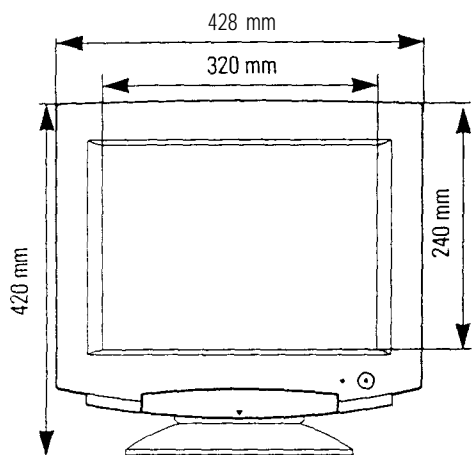
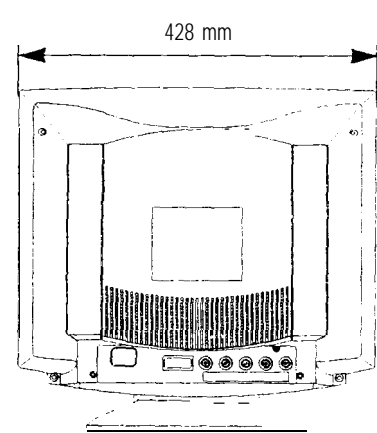
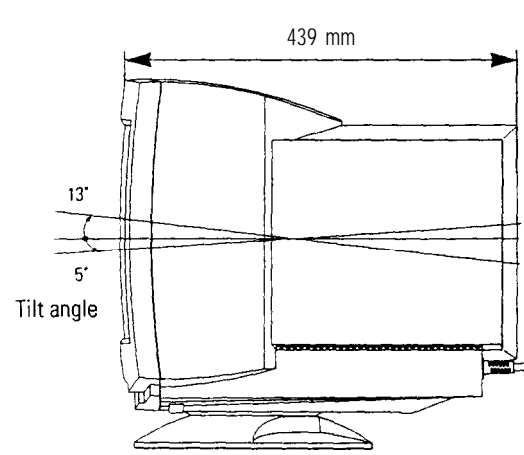
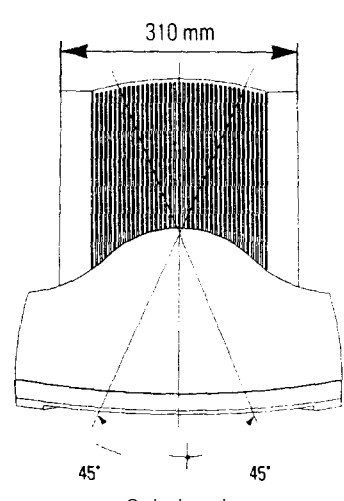
| PARTS | TYPE NO. | REF. NO. | PARTS | TYPE NO. | REF. NO. |
|---|-----------------------------|--------------------------------|---|-------------------------------|------------------|
|  | KA358 KA4558 | IC405 IC403 |  | KIA7045P | IC202 |
|  | 74HC125 LM319 MC14066 | IC102, IC106 IC101 IC406 |  | 2SK1358 | Q603 |
|  | DLA8494 LXC4320 | IC1 IC105 |  | R-NETWORK | RN202 |
|  | LM1205 | IC104 |  | R-NETWORK | RN203 |
|  | TDA9103 | IC401 |  | STR1706 | IC603 |
|  | ST7271A | IC201 |  | STR81145 | IC602 |
|  | TDA8172 TDA8138 | IC301 IC601 |  | HYBRID-IC (CUTOFF-CONTROL) | IC108 |
|  | TDA2006 | IC404 |  | SIZE-CONTROL H/V-REGULATOR | HIC401 HIC501 |
|  | VPS10 | IC107 |  | SMPS | HIC601 |

3 Product Specifications

3-1 Specifications

| Item \ Mode | SC-726GXL |
|--|--|
| Picture Tube: | 17-Inch (43 cm): 15.7-Inch (40 cm) Visual, Full square/flat face tube, 90° deflection, 0.26 mm Dot pitch, Semi-tint, Non-glare, Antistatic silica coating, Invar shadow mask |
| Scanning Frequency | Horizontal : 30 kHz to 85 kHz (Automatic) Vertical : 50 Hz to 120 Hz (Automatic) |
| Display Colors Analog input | Unlimited Colors |
| Maximum Resolution | Horizontal : 1280 Dots Vertical : 1024 Lines |
| Input Video Signal | Analog 0.714 Vp-p Positive at 75 Ω Terminated |
| Input Sync Signal | Separate Sync : TTL level Positive/Negative Sync-on-Green : Composite Sync 0.286 Vp-p \pm 5 % / Negative (Video on Vp-p positive) Composite Sync : TTL level Positive/Negative |
| Maximum Pixel Clock | 135 MHz |
| Active Display | Horizontal : 306 mm \pm 3 mm (4:3 ratio) / 287.5 mm \pm 3 mm (5:4 Ratio) Vertical : 230 mm \pm 3 mm |
| Input Voltage | AC 90-132 / 198-264 Volt, 60 Hz/50 Hz \pm 3 Hz |
| Power Consumption | 120 Watt (Max) |
| Dimensions Unit (HxWxD) Carton (HxWxD) | 16.5 x 16.9 x 17.3 Inches (420 x 428 x 439 mm) 21.2 x 21.5 x 21.9 Inches (538 x 545 x 554 mm) |
| Weight | Net/Gross: 41.9 Lbs (19 kg) / 48.5 Lbs (22 kg) |
| Environmental Considerations | Operating Temperature : 32°F to 104°F (0°C to 40°C) Humidity : 10 % to 80 % Storage Temperature : -4°F to 113°F (-20°C to 45°C) Humidity : 5 % to 95 % |
| CRT Code No. | 897 250130AA (Hitachi) : ASC Coating BH03-10008A (Samsung) : ASC Coating |
| <ul style="list-style-type: none"> SC-726GXL complies with SWEDAC (MPRII) recommendations for reduced electrostatic fields. Designs and specifications are subject to change without prior notice. | |

3-2 Dimensions

| SC-726GXL | |
|---|---|
|  <p>428 mm</p> <p>320 mm</p> <p>420 mm</p> <p>240 mm</p> |  <p>428 mm</p> |
|  <p>439 mm</p> <p>13°</p> <p>5°</p> <p>Tilt angle</p> |  <p>310 mm</p> <p>45°</p> <p>45°</p> <p>Swivel angle</p> |

3-3 Pin Assignments

| Pin No. | Sync Type | 15-Pin Signal Cable Connector (Figure 3-1) | | | Cable Adapter (Figure 3-2) |
|---------|-----------|--|----------------------|----------------------|----------------------------|
| | | Separate | Composite | Sync On Green | Macintosh |
| 1 | | Red | Red | Red | GND-R |
| 2 | | Green | Green | Green+H/V Sync | Red |
| 3 | | Blue | Blue | Blue | H/V Sync |
| 4 | | GND | GND | GND | Sense 0 |
| 5 | | DDC Return | DDC Return | DDC Return | Green |
| 6 | | GND-R | GND-R | GND-R | GND-G |
| 7 | | GND-G | GND-G | GND-G | Sense 1 |
| 8 | | GND-B | GND-B | GND-B | Reserved |
| 9 | | Reserved | Reserved | Reserved | Blue |
| 10 | | GND-Sync/Self-Raster | GND-Sync/Self-Raster | GND-Sync/Self-Raster | Sense 2 |
| 11 | | GND | GND | GND | GND |
| 12 | | DDC Data | DDC Data | DDC Data | V-Sync |
| 13 | | H-Sync | H/V-Sync | Not Used | GND-B |
| 14 | | V-Sync | Not Used | Not Used | GND |
| 15 | | DDC Clock | DDC Clock | DDC Clock | H-Sync |

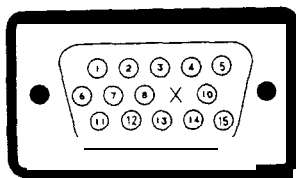


Figure 3-1. Male Type

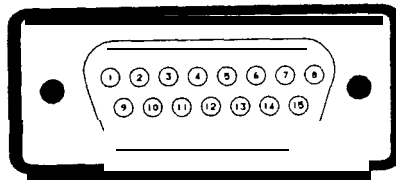


Figure 3-2. Male Type

BNC Connectors

BNC connectors are used with coaxial cable for improved signal transmission. Better signal transmission becomes critical at high frequencies such as those required for 1280X1024 resolution. Most video boards that operate at 1280X1024 resolution recommend using coaxial cable with BNC connectors. The 5 BNC connectors on the rear of the monitor can accept Red, Green, and Blue video. Composite sync can be applied separately, or combined with the Green video signal (commonly referred to as "composite sync-on-green"). If composite sync-on-green is used, then only 3 of the 5 BNC connectors are used. The connectors are labeled accordingly.

| Pin Assignment | Signals | | |
|----------------|---------------|----------------|---------------|
| | Sync-on-green | Composite Sync | Separate Sync |
| 1 | Red | Red | Red |
| 2 | Green+Sync | Green | Green |
| 3 | Blue | Blue | Blue |
| 4 | NC | H/V Comp. Sync | H-Sync |
| 5 | NC | NC | V-Sync |

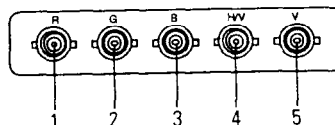


Figure 3-3. BNC Signal Input Type

4 User Controls

4-1 Front View and Controls

4-1-1 SC-726GXL Front View

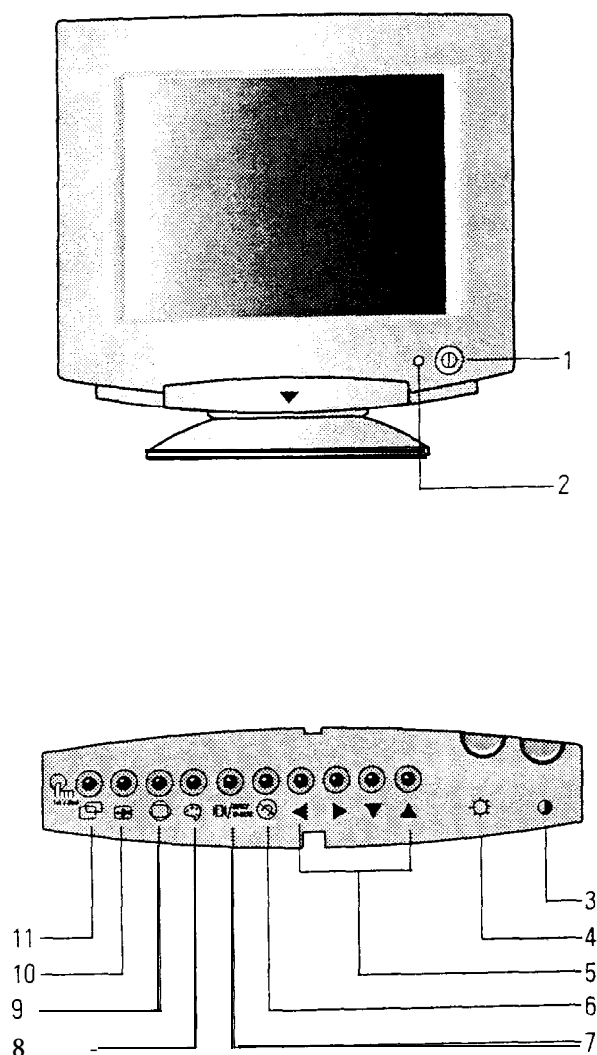


Figure 4-1. SC-726GXL Front Control Panel

User Adjustments

Directions for making User Adjustments are the same as those given in Chapter 6, Alignments and Adjustments, under the directions for "Without microcomputer control jig."

4-1-2 SC-726GXL Front Control Panel

| Location | Symbol | Description |
|----------|--------|---|
| 1 | | Power Button (Push) |
| 2 | | Power Indicator LED (Dual Color) |
| 3 | | Contrast Control |
| 4 | | Brightness Control |
| 5 | | Adjustment Controls |
| 6 | | Degauss Button |
| 7 | | BNC/D-SUB, Recall Button Push once: Recall Push twice: BNC/D-SUB |
| 8 | | Color Temperature Control / Color Control (Hue/Saturation)/Sync Select Push Once: Color Temperature Control Push twice: Color Control (Hue/Saturation) Push three times: Sync Select |
| 9 | | G/D (Geometric Distortion) Push once: Pincushion /Trapezoid Push twice: Parallelogram /Tilt |
| 10 | | Size and Information Push once: Size (Horizontal /Vertical) Push twice: Information |
| 11 | | Position and Modes Push once: Position (Horizontal /Vertical) Push twice: User and Preset Modes |

On Screen Display

The monitor features an On Screen Display (OSD) that shows information about the display settings. The OSD appears on the screen when you select a function button. The OSD shows the name, range and current setting of the control function. In addition, the OSD shows the current input signal frequency and the list of user and factory preset timings. The OSD remains active for approximately 10 seconds after completion of any adjustment.

Note 1: This monitor requires a cable adapter for use with a Macintosh computer. The MacMaster Cable Adapter supports all monitors and all Macintosh, Centris, Quadra, Duo Dock, and Power Macintosh computers. If you do not already have a cable adapter, check with your computer dealer.

Note 2: The monitor automatically returns to the normal operation state when horizontal and vertical sync returns. This occurs when you move your mouse or press a key on your keyboard.

This monitor is EPA Energy Star compliant and NUTEK compliant when used with a computer equipped with VESA DPMS function. If your computer system cannot support a display power management function, you may purchase an optional DPMS software program to take advantage of the power saving function. Please contact Samsung, or your dealer, for more information.

For Energy conservation, turn your monitor OFF when the monitor is not needed, or when leaving it unattended for long periods.

Table 4-I Display Power Management Signaling (DPMS) Standard

| State Items | Normal Operation | Standby Mode | Suspend Mode Position A1 | Power Off Mode Position A2 |
|-------------------|-----------------------------------|----------------------------------|-----------------------------|-------------------------------|
| Horizontal Sync | Active | Inactive | Active | Inactive |
| Vertical Sync | Active | Active | Inactive | Inactive |
| Video | Active | Blanked | Blanked | Blanked |
| Power Indicator | Green | Orange | Orange/Green Blinking | Orange Blinking |
| Power Consumption | 120 W(MAX) 94.5 W (nominal) | 75 W(MAX) 64.5 W (nominal) | Less than 15 W | Less than 5 W |

5 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for SC-726GXL monitor.

WARNING: This monitor contains electrostatically sensitive devices. Use caution when handling any components.

5-1 Disassembly

5-1-1 Removing the Cabinet

1. With a pad underneath it, stand the monitor on its front with the screen facing downward and the base closest to you. Make sure nothing will damage the screen.
2. Working from the back of the monitor, remove the six screws.

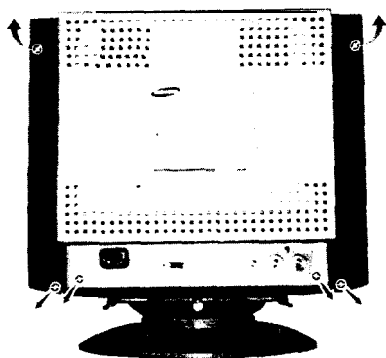


Figure 5-1.

3. Tilt the cabinet away to release the three tabs and pull it up and away from the monitor.
4. Remove the two screws from the cabinet bottom. Lift the bottom off and away from the monitor.

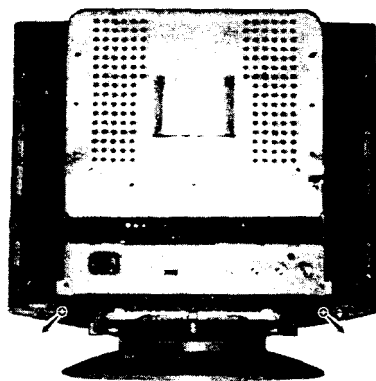


Figure 5-2.

5. Remove the 14 screws from around the metal shielding. Lift the shielding up and away from the CRT.

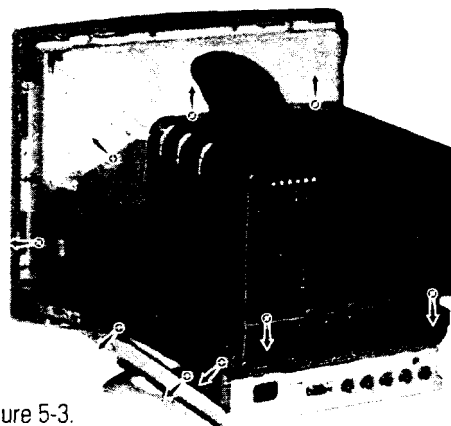


Figure 5-3.

5-1-2 Removing the Video PCB

1. Remove the four connectors:
 - Sync
 - Power
 - Video out
 - Color controller
2. Remove the three screws (A) holding the Video PCB Ass'y onto the main PCB Ass'y and slide it off.
3. Remove the six screws on the Video PCB Shield and lift the top off.
4. Remove the one screw holding the Video PCB Shield bottom and left the PCB out.
5. Set Video PCB on a smooth, level surface which is protected from static electricity.

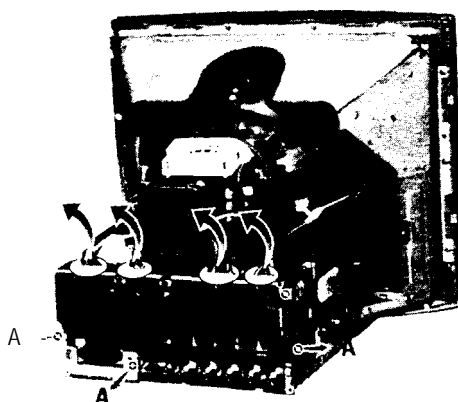


Figure 5-4.

5-1-3 Removing the Main PCB

1. If you have not already done so, remove the Video PCB.
2. Remove the CRT PCB.
3. Remove the two screws holding the main PCB Ass'y to the front cover.

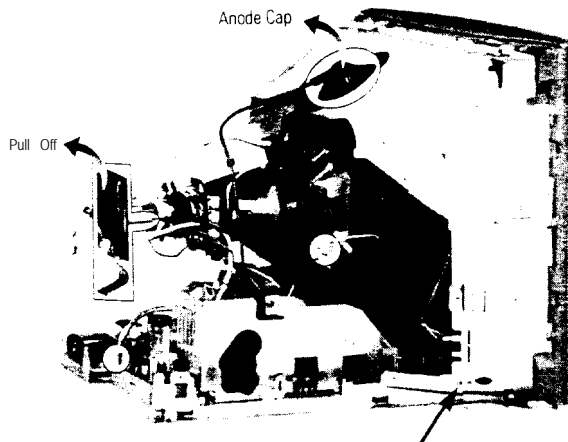


Figure 5-5.

4. Remove the accessible connectors:
 - Ground wire
 - tilt
 - Degaussing coil
 - Anode cap
5. Lift the Main PCB Ass'y up slightly and tilt it away from the CRT so that you can reach and remove the following connectors:
 - Horizontal deflection yoke
 - Vertical deflection yoke
 - Controller
 - Function key

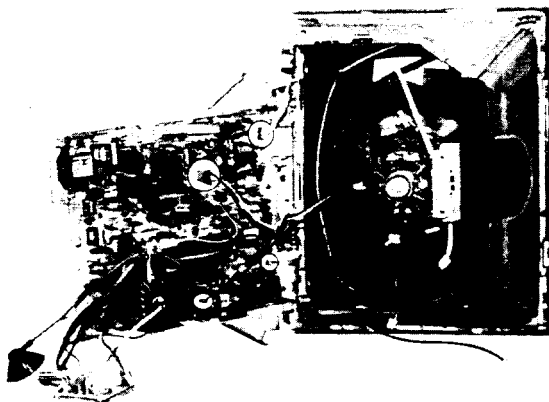


Figure 5-6.

6. Pull the Main PCB Ass'y away from the CRT.
7. Remove the eight screws holding the main PCB

in the PCB Bracket, remove the power shaft and lift the Main PCB out.

8. Set main PCB on a smooth, level surface which is protected from static electricity.

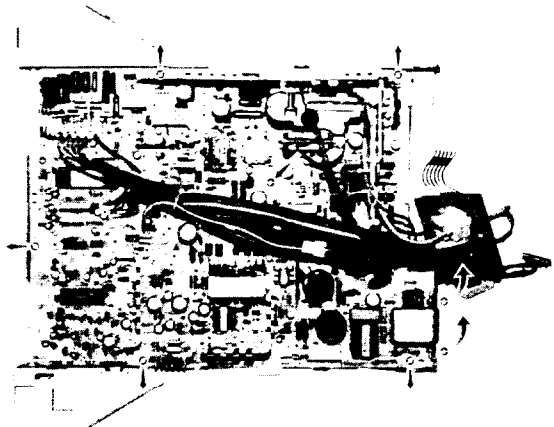


Figure 5-7

5-1-4 Removing the CRT

Caution: Do not touch the Anode

1. If you have not already done so, remove the Main PCB.
2. Remove the eight screws securing the CRT Bracket Assembly.
3. Release the grounding wire clips from the grounding prongs on the CRT Bracket Ass'y.
4. Lift the CRT Bracket Ass'y up and away from the CRT. The CRT Bracket Ass'y includes the bracket, degaussing coil and tilt coil.
5. Remove the screw at each of the four corners of the CRT. This releases the CRT and the CRT Ground Ass'y. Lift the CRT tube (do not lift by the tube neck) out of the Front Cover Assembly.
6. Remove the CRT Ground Ass'y.

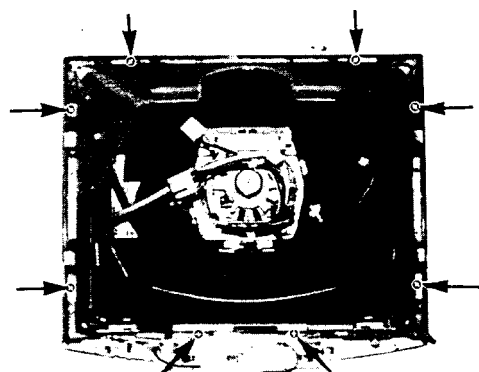


Figure 5-8.

5-2 Reassembly

With the CRT facing downward on a protective pad, use the steps that follow to reassemble the monitor.

5-2-1 Replacing the CRT

1. With the front cover assembly lying face down on a protective pad, position the CRT so that the corner metal tabs fit properly in the Front Cover.
2. Position the CRT Ground Ass'y around the CRT and secure it and the CRT at each of the four corners with the CRT screws. Make sure the grounding wire clips are accessible.
3. Position the CRT Bracket Ass'y around the CRT and replace the eight screws. Attach the grounding wire clips onto the grounding prongs on the CRT Bracket Ass'y.

5-2-2 Replacing the Video PCB

1. Place the Video PCB in the Video Shield bottom and replace the one screw that holds it in place.
2. Position the Video Shield top on the bottom and replace the six screws.
3. Slide the Video PCB Ass'y onto the Main PCB Ass'y and secure it with two screws.
4. Reconnect the four connectors:
 - Color controller
 - Video out
 - Power
 - Sync

5-2-3 Replacing the Main PCB

1. Set the Main PCB in the PCB bracket and secure it with eight screws.
2. Hold the Main PCB Ass'y close to the CRT as shown in figure 5-7 and reconnect the following connectors:
 - Function key
 - Controller
 - Vertical deflection yoke
 - Horizontal deflection yoke
 - Anode cap
 - Degaussing coil
 - Tilt control
 - Ground coil

3. Replace the CRT PCB

4. Position the Main PCB Ass'y on the front cover (see figure 5-5) and hold it secure with two screws.
5. If you have not already done so, replace the Video PCB.

5-2-4 Replacing the Cabinet

1. Position the metal shielding around the CRT. If so equipped, make sure the tabs are snapped in place. Replace the 14 screws. See figure 5-3.
2. Position the cabinet bottom and replace the two screws (see figure 5-2).
3. Position the cabinet top making sure the three tabs along the upper front edge are properly snapped in place. Replace the six screws.
4. Set the monitor on its base and make sure that the CRT screen was not scratched or otherwise damaged.

6 Alignments and Adjustments

This section of the service manual explains how to control the linearity, raster, size, position, pincushion, parallelogram, trapezoid, and pinbalance. Additionally, this section describes how to use the micom control jig to make the adjustments.

6-1 Adjustment Conditions

Caution: Changes made without the micom jig are saved only to the user mode settings. As such, the settings are not permanently stored and may be inadvertently deleted by the user.

Direction

When servicing, always face the monitor toward the East and, whenever possible, use magnetic field isolation such as a helmholtz field around the monitor.

Caution: Other electrical equipment may cause external magnetic fields.

During servicing, use an external degaussing coil to limit magnetic build up. If an external degaussing coil is not available, use the internal degaussing circuit, but not more than once per minute.

After finishing all adjustments, test the monitor in all directions. If, for example, the monitor does not meet adjustment specifications when facing in a northerly direction, face the monitor eastward again and readjust the monitor to the smallest error possible within a reasonable time limit. Test the unit again in all directions. If the monitor again fails to meet specifications in a non-easterly direction, contact your region's main service center for possible CRT replacement.

Testing and Burn-in Mode

For testing and burn-in, remove the signal cable from the monitor. Power on the monitor and warm it up. Use the burn-in mode to age the monitor.

Power Supply Voltage

AC 90-132 / 198-264 Volt (60/50 Hz \pm 3 Hz).

High Voltage Control

Adjust VR501 to 26 kV \pm 0.2 kV.

Warm-Up Time

The display must be on for 30 minutes before starting alignment. Warm-up time is especially critical in color temperature and white balance adjustments.

Signal

Video analog 0.714 Vp-p positive at 75 ohm terminated.

Sync: Separate/composite
(TTL level negative/positive).

Sync-on-Green:
Composite sync 0.286 Vp-p negative
(Video 0.714 Vp-p positive).

Scanning Frequency

Horizontal : 30 kHz-85 kHz (Automatic).
Vertical : 50 Hz-120 Hz (Automatic).

Unless otherwise specified, adjust to 1024x768 mode (H: 60 kHz, V: 75 Hz) signals. Refer to table 2-1 on pages 2-1 and 2-2.

6-2 Prepare Main PCB for Adjustment

+B195V Line Adjustment

No beam, Contrast: Minimum,
Brightness: Minimum.

Adjust VR601 to DC 195 V \pm 1 V at Q406 heat sink and GND.

High Voltage Adjustment

No beam, Contrast: Minimum,
Brightness: Minimum
Adjust VR501 to 26 kV \pm 0.2 kV.

Center Raster

Adjust SW401 so that the back raster comes to the center when you apply a signal of 60 kHz/75 Hz.

6-3 Using the Microcomputer Control Jig

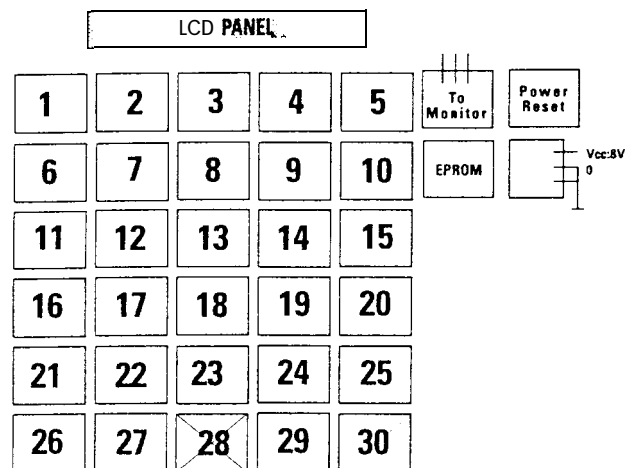


Figure 6-1. Micom Control Jig Keypad

Notes:

Changes made without the micom jig are saved only to the user mode settings. As such, these settings are not permanently stored and may be inadvertently deleted by the user.

Selecting the monitor series and type:

1. Simultaneously press buttons 29 and 24 to select "M-Project" as the monitor series.
2. Press button 25 to select the monitor type. Hold down button 25 until you see "M17H" plus the OEM name for the monitor under test. For example, hold down button 25 until you see "M17H" if you are working on a "Dell 17."

Table 6-1. Micom Control Jig Function Keys

| Key No. | General Control Key Function | Color Control Key Function |
|---------|-------------------------------|------------------------------|
| 1 | Horizontal Position Right | R-Gain Increase |
| 2 | Horizontal Position Left | R-Gain Decrease |
| 3 | Parallelogram Right | ACL Increase |
| 4 | Parallelogram Left | ACL Decrease |
| 5 | Mode Save | Color Save |
| 6 | Horizontal Size Increase | G-Gain Increase |
| 7 | Horizontal Size Decrease | G-Gain Decrease |
| 8 | Vertical Linearity Increase | Color CH-1 Standard Save |
| 9 | Vertical Linearity Decrease | Color CH-2 Standard Save |
| 10 | Standard Save | ACL Save |
| 11 | Vertical Position Up | B-Gain Increase |
| 12 | Vertical Position Down | B-Gain Decrease |
| 13 | Pinbalance Left | No Function (Don't Use) |
| 14 | Pinbalance Right | No Function (Don't Use) |
| 15 | All Mode Save | No Function (Don't Use) |
| 16 | Vertical Size Increase | R-Bias Increase |
| 17 | Vertical Size Decrease | R-Bias Decrease |
| 18 | Tilt up | No Function (Don't Use) |
| 19 | Tilt Down | No Function (Don't Use) |
| 20 | User Mode Delete | No Function (Don't Use) |
| 21 | Barrel | G-Bias Increase |
| 22 | Pincushion | G-Bias Decrease |
| 23 | Horizontal Linearity Increase | No Function (Don't Use) |
| 24 | Horizontal Linearity Decrease | No Function (Don't Use) |
| 25 | Model Selection | No Function (Don't Use) |
| 26 | Trapezoid Up | B-Bias Increase |
| 27 | Trapezoid Down | B-Bias Decrease |
| 28 | No Function (Don't Use) | No Function (Don't Use) |
| 29 | Shift | Shift |
| 30 | No Function (Don't Use) | Manual/Auto Color Control |
| 2 t23 | Color/General Control toggle | Color/General Control toggle |
| 2 t24 | F-Project/M-Project toggle | F-Project/M-Project toggle |

6-3-1 General Control

Use general control to test and adjust the shape and size of the display.

1. Simultaneously press buttons 28 and 23 to toggle between General Control and Color Control. Select "General Control."
2. Standard Save: Press button **10** to do a memory data dump and load the standard picture data from the EPROM on the micom control jig.

Note: This step is necessary only if the EPROM on the control jig has more recent data than the EPROM on the monitor PCB. Check for a Service Bulletin or Service Manual Supplement.

3. Optimize the standard timing mode (60 kHz/75 Hz) using the micom control jig as described on pages 6-3 through 6-5 of this manual.
4. After completing all standard timing mode adjustments, press button 15 to save the data for all modes. The monitor's microprocessor adjusts the other modes according to a predefined formula.
5. Using a signal generator, scan the other timing modes and make adjustments as needed. Each time you make a change, press button number 5 to save the data.

6-3-2 Color Control

Use color control to test and adjust the color coordinates the monitor displays.

1. Simultaneously press buttons 28 and 23 to toggle between General Control and Color Control. Select "Color Control."
2. Press button 8 (for 9300K setting) or 9 (for 6500K settings) to do a memory data dump and to load the standard picture color data from the micom control jig.

Note: This step is necessary only if the EPROM on the control jig has more recent data than the EPROM on the monitor PCB. Check for a Service Bulletin or Service Manual Supplement.

3. Optimize the standard timing mode using the micom control jig as described on pages 6-6 and 6-7 of this manual.
4. Press button 5 to save the picture color data.
5. Press button 10 to save ACL data.
6. When you are through, disconnect the micom control jig and proceed with other tests and adjustments.

6-4 Display Control Adjustments

Unless otherwise specified, adjust the **EXT-VR**:

Contrast : Max. (Fully clockwise)
Brightness : Max. (Fully clockwise)

6-4-1 Centering

Centering means to position the center point of the display in the middle of the display area. Horizontal size and position and vertical size and position control the centering of the display.

Adjust the horizontal size and vertical size to their optimal settings: 306 mm (H) x 230 mm (V)

Adjust the horizontal position and vertical position to ≤ 4.0 mm of the center point of the screen.

$|A - B| \leq 4.0$ mm.
 $|C - D| \leq 4.0$ mm.

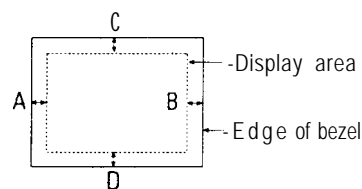


Figure 6-2. Centering

6-4-2 Horizontal Size Adjustment

With microcomputer control jig:

Press the horizontal size up button (6) or horizontal size down button (7) to adjust the horizontal size of the display pattern to 306 mm. (Tolerance: ± 3 mm.)

Without microcomputer control jig:

After pushing the size button, push the (\blacktriangleright) button or (\blacktriangleleft) button to adjust the horizontal size of the display pattern to 306 mm. (Tolerance ± 3 mm.)

6-4-3 Vertical Size Adjustment

With microcomputer control jig:

Press the vertical size increase button (16) or the vertical size decrease button (17) to adjust the vertical image or pattern to 230 mm. (Tolerance: ± 3 mm.)

Without microcomputer control jig:

After pushing the size button, push the (▲) button or (▼) button to adjust the vertical size of the display pattern to 230 mm. (Tolerance: ± 3 mm.)

6-4-4 Horizontal Position Adjustment

With microcomputer control jig:

Press the horizontal position right button (1) or the horizontal position left button (2) to center the image or test pattern on the raster.

Without microcomputer control jig:

After pushing the position button, push the (►) button (move right) or (◄) button (move left) to center the image or test pattern on the raster.

6-4-5 Vertical Position Adjustment

With microcomputer control jig:

Press the vertical position up button (11) or vertical position down button (12) to center the vertical image or pattern on the raster.

Without microcomputer control jig:

After pushing the position button, push the (▲) button (move up) or (▼) button (move down) to center the image or the test pattern on the raster.

6-4-6 Vertical Linearity Adjustment

Linearity affects the symmetry of images on the screen. Unless each row or column of blocks in a crosshatch pattern is of equal size, or within the tolerances shown in Tables 6-2 and 6-3, an image appears distorted, elongated or squashed.

To adjust the Vertical and Horizontal Linearity, refer to Tables 6-2 and 6-3 for the tolerance range.

Table 6-2. Standard Mode Linearity: 60.023 kHz/75 Hz, 79.976 kHz/75 Hz

| Standard Mode | Factory Preset Timing Modes | |
|-----------------|-----------------------------|---|
| | Each block (5%) | Difference between adjacent blocks (4%) |
| 800x600/75 Hz | Horizontal: 18.2 ~ 20.1 | Horizontal: Less than 0.8 mm |
| 1024x768/75 Hz | Vertical: 18.2 ~ 20.1 | Vertical: Less than 0.8 mm |
| 1280x1024/75 Hz | Horizontal: 17.1 ~ 18.9 | Horizontal: Less than 0.7 mm |
| | Vertical: 18.2 ~ 20.1 | Vertical: Less than 0.8 mm |

Table 6-3. Other Modes Linearity: VGA, 8514/A, XGA, MAC, etc.

| Screen Ratio | Supported Timing Modes | |
|--------------|--|--|
| | Each block (7%) | Difference between adjacent blocks (5%) |
| 4:3 | Horizontal: 17.8 ~ 20.5 Vertical: 17.8 ~ 20.5 | Horizontal: less than 1.0 mm Vertical: less than 1.0 mm |
| 5:4 | Horizontal: 16.7 ~ 19.2 Vertical: 17.8 ~ 20.5 | Horizontal: less than 0.9 mm Vertical: less than 1.0 mm |

With microcomputer control jig:

Press the vertical linearity increase button (8) or vertical linearity decrease button (9) to optimize the image or the test pattern.

Without microcomputer control jig:

To activate the vertical linearity adjustment function, push and hold in both the position and the size buttons for longer than three seconds, or until the power indicator LED changes from orange to green and back to orange. Use the right (►) and left (◄) buttons to correct the vertical linearity.

6-4-7 Horizontal Linearity Adjustment

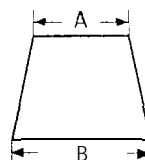
With microcomputer control jig:

Press the horizontal linearity increase button (23) or horizontal linearity decrease button (24) to optimize the image or the test pattern.

Without microcomputer control jig:

After pushing G/D button once, push the (▼) button or (▲) button to make the image or the test pattern rectangular.

$$|A - B| < 2 \text{ mm}$$



$$|C - D| < 2 \text{ mm}$$

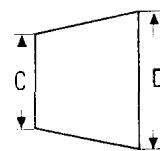


Figure 6-3. Trapezoid

6-4-8 Pinbalance Adjustment

With microcomputer control jig:

Press the pinbalance left button (13) or pinbalance right button (14) to optimize the image or test pattern.

Without microcomputer control jig:

To activate the pinbalance adjustment function, push and hold in both the position and the size buttons for longer than three seconds, or until the power indicator LED changes from orange to green and back to orange.

Use the up (▶) and down (◀) buttons to correct the pinbalance distortion of one or both sides.

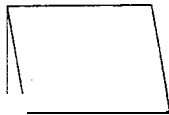
6-4-9 Parallelogram Adjustment

With microcomputer control jig:

Press the parallelogram right button (3) or the parallelogram left button (4) to make the image or test pattern rectangular.

Without microcomputer control jig:

After pushing G/D button twice, push (▶) button or (4) button to make the image or test pattern rectangular.



2 mm

Figure 6-4. Parallelogram

6-4-10 Side Pincushion Adjustment

With microcomputer control jig:

Press the barrel button (21) or the pincushion button (22) to straighten the sides of the test pattern or image.

Without microcomputer control jig:

After pushing G/D button once, push (▶) button or (◀) button to straighten the sides of the test pattern or the image.

$$|C1|, |C2| \leq 2 \text{ mm}, |D1|, |D2| \leq 2 \text{ mm}.$$

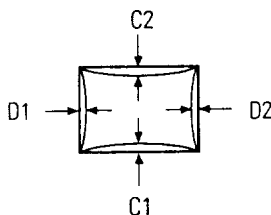


Figure 6-5. Pincushion

6-4-11 Tilt Adjustment

Direction: Monitor MUST face to the East.

Use mechanical adjustment if correction needed is >1.5 mm.

With microcomputer control jig:

Press the tilt up button (18) or the tilt **down button (19) to correct the tilt of the display.**

Without microcomputer control jig:

Push the G/D button twice to display the tilt OSD. Push either the tilt up (▲) or down (▼) button to display the tilt OSD.

Use the up (▲) and down (▼) buttons again to correct the tilt of the display.

CRT Tilt Adjustment

Mechanical Adjustment:

Reassemble the CRT with fastening screws so that the dimensions A, B and C, D are separately equal.

If you are unable to correct the tilt, contact the regional service center for CRT replacement.

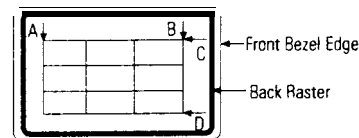


Figure 6-6. CRT Tilt Adjustment

Degauss

No adjustments available for degaussing circuit. The degaussing circuit can effectively function only once per minute. If available, use an external degaussing coil during servicing.

Warning: Don't hold the degauss button down for longer than 3 seconds. If you do, it resets all data in the user memory area. If this occurs, you must remake the user adjustments.

6-4-12 To Delete the User Mode Data

With microcomputer control jig:

To delete the picture data from user's modes, push user's mode delete button (20).

Without microcomputer control jig:

To delete the picture data from user's modes, press the degaussing button for 5 or more seconds.

6-4-13 Save the Data

With microcomputer control jig:

To save the picture data for a mode, push the mode save button (5).

6-5 Color Adjustments

Note: To make color adjustments you must have one of the following configurations:

1. Micom Control Jig and Signal Generator.
or
2. Micom Control Jig and Computer with Samsung DM 200 software or DisplayMate for Windows software from Sonera Technologies.

Before making adjustments check that the video signals are as follows:

Video : Analog 0.714 Vp-p (at 75 Ω terminated).

Sync : Synchronizing: Separate TTL level.

Unless otherwise specified, use 1024x768 signal (60 kHz/75 Hz) for the adjustments.

6-5-1 Color Coordinates (Temperature)

Color temperature is a measure of the radiant energy transmitted by a color. For computer monitors, the color temperature refers to the radiant energy transmitted by white. Color coordinates are the X and Y coordinates on the chromaticity diagram of wavelengths for the visible spectrum.

Table 6-4. Color Coordinates

| | |
|------------|--|
| Value | 9300" K : $x = 0.283 \pm 0.02$, $y = 0.298 \pm 0.02$. 6500" K : $x = 0.313 \pm 0.02$, $y = 0.329 \pm 0.02$. |
| Conditions | Display Image: White flat field at the center of display area. Luminance : Min : 5 ft-L, Max : 24 ft-L. |

6-5-2 Luminance Uniformity

Luminance uniformity means that the luminance at the position of the lowest brightness must be more than 75% of the luminance at the area with the highest brightness. Luminance is considered uniform only if the ratio of lowest to highest brightness is not less than 7.5:10.

Table 6-5. Computing Luminance Uniformity

| | |
|------------|---|
| Value | 75 % (Min) Variation = $\frac{C}{A} \times 100$ |
| Conditions | Display Image : White flat field. Luminance : Brightness cut off, Contrast Max. A : Luminance at position of highest brightness. C : Luminance at position of lowest brightness. |

6-5-3 Color Adjustments for 9300°K

6-5-3 (a) Adjustment of the Back Raster Color (60 kHz/75 Hz, Back raster pattern)

1. Turn the contrast and the brightness controls fully clockwise (maximum condition).
2. Adjust the screen VR of the FBT so that the brightness of back raster is 0.5 to 0.7 ft-L (typically 0.6 ft-L).

3. Press button 8 to download the standard color data (channel 1) from the micom jig.

For 9300" K color adjustment:
 $x = 0.283 \pm 0.02$, $y = 0.298 \pm 0.02$.

For 6500" K color adjustments see section 6-5-4 "Color Adjustments for 6500" K."

4. Use buttons 26 and 27 to set the "y" coordinate to 0.298 ± 0.02 .
5. Use buttons 16 and 17 to set the "x" coordinate to 0.283 ± 0.02 .

Note: If the above adjustments cannot be done to each coordinate, press button 21 to increase the green bias, or button 22 to decrease the green bias and repeat procedures 4 and 5.

6. After completing the adjustments, press button 5 to save the data.

6-5-3 (b) Video Gain Adjustment (60 kHz/75 Hz, Green box pattern)

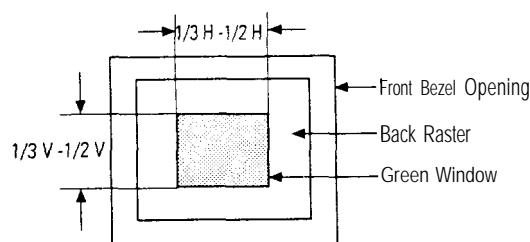


Figure 6-7. Green Box Pattern

1. Display the green window pattern using a range for which the ACL Circuit is not active (within ranges $1/3$ to $1/2H$ and $1/3$ to $1/2V$).

2. Turn the contrast and the brightness controls fully clockwise.
3. Press buttons 6 and 7 (G-Gain control) to adjust the brightness of the green gain to 37 ± 1 ft-L.

Note: If you can't increase the green gain to the appropriate value, press button 3 to increase the ACL point.

6-5-3 (c) White Balance Adjustment (60 kHz/75 Hz, Full white Pattern)

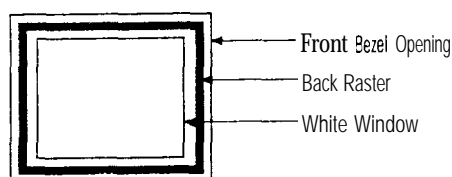


Figure 6-8. Full White Pattern

1. Turn the contrast and the brightness controls fully clockwise.
2. Use the R-Gain buttons 1 and 2 and B-Gain buttons 11 and 12 to make the video white.
(For 9300°K color adjustment:
 $x = 0.283 \pm 0.02$, $y = 0.298 \pm 0.02$.)
Note: Do not touch buttons 6 and 7.
3. Press button 5 to save the data.

6-5-3 (d) White Balance Fine Adjustment ($x = 0.283 \pm 0.02$, $y = 0.298 \pm 0.02$, Full White pattern)

Note: Do not touch buttons 6 and 7 (G-Gain).

1. Adjust the contrast control so that the brightness of the video is about 5 ft-L.
2. Check whether the white coordinates of the video meets the above coordinate spec.
3. Adjust the contrast control so that the brightness of the video is about 20 ft-L.
4. Check whether the white coordinates of the video satisfies the above spec.
5. If the white balance differs from the above spec, readjust it to within specifications.
When correct, press buttons 5 to save.

6-5-3 (e) ACL point Adjustment

1. Display the full white pattern.
2. Turn the contrast and the brightness controls fully clockwise.
3. Press buttons 3 and 4 (ACL) so that the brightness is 30 ± 1 ft-L.
4. Press button 10 to save the ACL setting value.

6-5-4 Color Adjustments for 6500°K

6-5-4 (a) Back Raster Color Adjustment

1. Display the back raster pattern.
2. Turn the contrast and the brightness controls fully clockwise.
3. Press button 9 to load the standard color data (channel 2) for 6500°K from micom control jig.
4. Adjust the brightness of the back raster to 0.5 to 1.0 ft-L using buttons 21 or 22 (G-Bias control). If you don't need to adjust the brightness, skip this step.

Note: For 6500°K adjustments you must not control the screen VR of the FBT. If you do so, the 9300°K setting values are changed.
5. Using buttons 16, 17, 26 and 27, adjust the R-Bias to $x = 0.313 \pm 0.02$ and B-Bias to $y = 0.329 \pm 0.02$.

6. Press button 5 to save the bias data for 6500°K.

6-5-4 (b) Video Gain Adjustment

1. This procedure is the same as that of 9300°K.
2. Refer to the procedure for 9300°K on page 6-6.

6-5-4 (c) White Balance Adjustment

1. Display a full white pattern.
2. Turn the contrast and the brightness controls fully clockwise.
3. Using buttons 1, 2, 11 and 12 set the R/B gain data to $x = 0.313 \pm 0.02$, $y = 0.329 \pm 0.02$.

6-5-4 (d) White Balance Fine Adjustment

Refer to the procedure for 9300°K on page 6-7.

6-5-4 (e) ACL Point Adjustment

Refer to the procedure for 9300°K on page 6-7.

6-6 Focus Adjustment

1. Display the H character pattern so that the focus adjustment can be done. (Apply 1280x1024/60 Hz mode to the monitor.)
2. Turn the contrast and the brightness controls fully clockwise.
3. Adjust the focus control of the FBT to display the sharpest image possible.
4. Use locktite to seal the focus control in position.

6-7 Color Purity Adjustment

Color purity is the absence of undesired color. Conspicuous mislanding (unexpected color in a uniform field) within the display area shall not be visible at a distance of 50 cm from CRT surface.

Conditions

Direction : Monitor facing east.

Display image: White flat field.

Luminance : Cutoff point at the center of display area.

Note: Color purity adjustments should only be attempted by qualified personnel.

For trained and experienced service technicians only.

Use the following procedure to correct minor color purity problems:

1. Make sure the display is not affected by external magnetic fields. Use an external degaussing coil to neutralize magnetic fields which may be affecting color purity.
2. Very carefully break the glue seal between the two-pole purity convergence magnets (PCM), band and the spacer (see Figure 6-10).
Caution: The convergence bow magnets are not user or service technician adjustable. Do not allow these magnets to move.
3. Make sure the spacing between the PCM assembly and the CRT stem is $29 \text{ mm} \pm 1 \text{ mm}$.

4. Display a red pattern over the entire display area.
5. Adjust the purity magnet rings on the PCM assembly to display a pure red pattern. (Optimum setting: $X=0.625 \pm 0.015$, $Y=0.340 \pm 0.015$)
6. Adjust each corner and the center to meet the red color tolerances listed below.
7. Repeat steps 4 through 6 using a green pattern and again, using a blue pattern.

Table 6-6. Color Purity Tolerances

| | | |
|--------|-------------------|-------------------|
| Red: | $X=0.63 \pm 0.02$ | $Y=0.34 \pm 0.02$ |
| Green: | $x=0.2 \pm 0.02$ | $Y=0.61 \pm 0.02$ |
| Blue: | $X=0.15 \pm 0.02$ | $Y=0.07 \pm 0.02$ |

(For 9300°K color adjustment: $X=0.283 \pm 0.02$, $Y=0.298 \pm 0.02$)

8. When you have the PCMs properly adjusted, carefully glue them together to prevent their movement during shipping.

6-8 Convergence Adjustments

Misconvergence occurs when one or more of the electron beams in a multi beam CRT fail to meet the other beams at a specified-point.

Table 6-7. Misconvergence Tolerances

| Position | Error in mm | CRT Dot Pitch | Remark |
|------------|-------------|---------------|----------------------|
| Center (A) | 0.30 | 0.26 | _____ |
| Edge (B) | 0.30 | 0.26 | ≥ 800x600 resolution |
| | 0.40 | 0.26 | < 800x600 resolution |

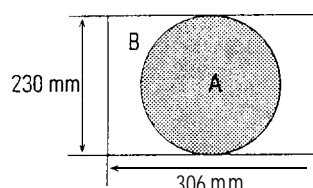


Figure 6-9 Convergence Measurement Areas

6-8-1 Static (Center) Convergence

Static convergence involves the alignment of the red, blue and green lines in the center area of the display.

See Dynamic Convergence” for alignment of the color fields around the edges of the display.

Conditions

Direction : Monitor facing east

Warm-up : 30 minutes

Display image: Crosshatch pattern

Tolerances : See Table 6-7

As shown in Figures 6-10, CRTs used in these monitors all have the same magnet configuration as shown in Table 6-8 below.

Table 6-8. Magnet Configurations

| Magnet Order from Front of CRT |
|--|
| Convergence bow, two-pole, four-pole, six-pole |

Use the following steps to correct any static misconvergence:

1. Locate the pair of four-pole magnet rings.
2. Unlock the rings and rotate the individual rings (change the spacing between tabs) to converge the vertical red and blue lines.

3. Rotate the pair of rings (maintaining the spacing between tabs) to converge the horizontal red and blue lines.
4. After completing the red and blue center convergence adjustment, locate the pair of 6-pole magnet rings.
5. Rotate the individual rings (change the spacing between tabs) to converge the vertical red and blue (magenta) and green lines.
6. Rotate the pair of rings (maintaining the spacing between tabs) to converge the horizontal red and blue (magenta) and green lines. Don't rotate the 2-pole magnets, as they adjust for color purity.
7. Mark the correct position for the magnets and apply a small line of glue to hold the magnets in place. Lock the rings in place.

6-8-2 Dynamic (Edge) Convergence

Use the following procedure to correct minor dynamic (edge) misconvergence. If, after using this procedure, dynamic, misconvergence is still greater than the tolerance around the periphery of the display area, contact the Regional Service Center for possible CRT replacement.

1. Make sure the display is not affected by external magnetic fields.
2. Make sure the static convergence is properly adjusted.
3. Strategically place small magnetic strips on the back of the CRT to correct the misconvergence. Be careful not to remove the paper protecting the adhesive on the magnetic strip until you are satisfied with their placement and the dynamic convergence.
4. When you are satisfied with the convergence around the edge of the CRT, permanently glue the magnets to the back of the CRT.

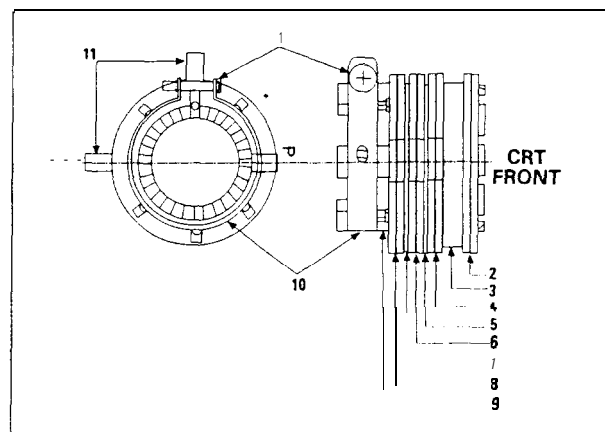
Table 6-9. Magnetic Strips

| Description | Size | Code Number |
|--------------|---------------|--------------|
| Magnet Sheet | 5 mm x 80 mm | 937 319004CA |
| Magnet Sheet | 10 mm x 80 mm | 937 319004AA |

Warning



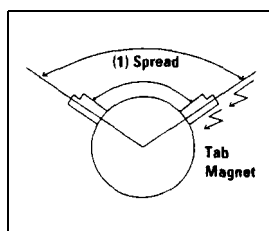
Do not remove or change the position of the factory installed wedges. These wedges were installed by the CRT manufacturer and are properly placed for this CRT. Removal may result in damage to the CRT.



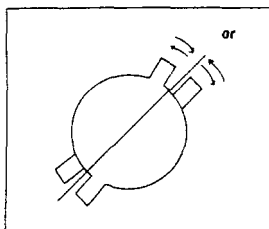
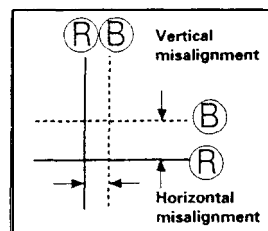
| Samsung and Hitachi CRT | | | |
|-------------------------|-----------------|----------|-----------------|
| 1 Setup Bolt | 2 Bow Magnet | 3 Band | 4 2-Pole Magnet |
| 5 Spacer | 6 4-Pole Magnet | 7 Spacer | 8 6-Pole Magnet |
| 9 Holder | 10 Band | 11 Tabs | |

Figure 6-10. Magnet Configuration

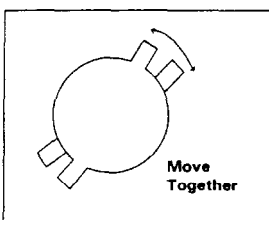
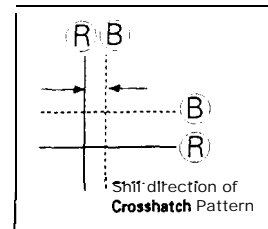
Red and Blue Alignment (4-pole magnet movement)



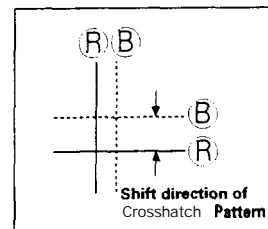
**0-Magnetic
Field**



Motion (1)



Motion (2)



Red, Blue and Green Alignment (6-pole magnet movement)

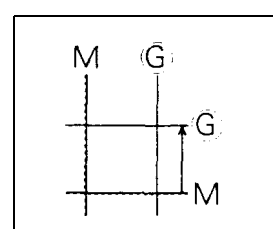
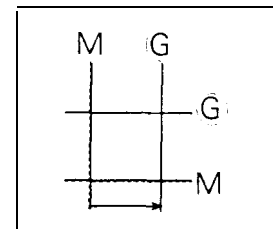
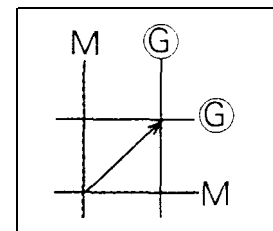


Figure 6-11. Magnet Movements

6-8-3 Bow Convergence Adjustments

Conditions

Direction: Monitor facing East.

Display Image: Crosshatch pattern mixed with RGB colors.

Bow convergence adjustments are not available for any of the CRTs used in the SC-726GXL. While all the CRTs have bow convergence magnets, they are sealed in the CRT factory and are not user or service technician adjustable. Do not touch these magnets (see Figures 6-10). If color convergence bow adjustment is out of alignment, replace the CRT.

Bow misconvergence should not exceed the values listed in Table 6-7: Misconvergence tolerances.

6-8-4 Balance Convergence Adjustments

Balance Convergence involves the alignment of the red and blue lines when they are misaligned at one end more so than at the other (X). The deflection yoke holds the balance coils which can correct balance misconvergences.

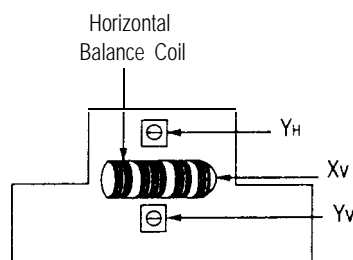


Figure 6-12. Samsung and Hitachi Deflection Yoke

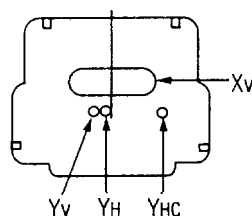


Figure 6-13. New Hitachi Deflection Yoke

6-8-4 (a) Horizontal Line Red and Blue Balance Convergence

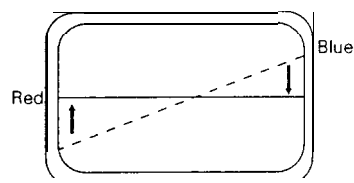


Figure 6-14. Horizontal Line Balance Misconvergence

Use a #0 hexdriver at the Horizontal Balance Coil (Xv). Turning the VR to the right raises the right end of the blue line and lowers the left end. Turning the VR to the left lowers the right end of the blue line and raises the left end.

6-8-4 (b) Vertical Red and Blue Balance Convergence

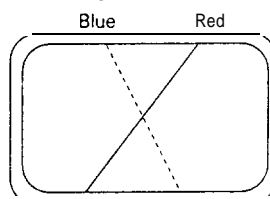


Figure 6-15. Vertical Line Balance Misconvergence

Use a #0 screwdriver (flat-head [—] for Samsung and Hitachi DYs and Phillips type [+] for Matsushita [Panasonic] DYs) at the YH variable register. Turning the VR to the left tilts the blue line to the right. Turning it to the right tilts the blue line to the left.

6-8-4 (c) Upper and Lower Horizontal Line Convergence

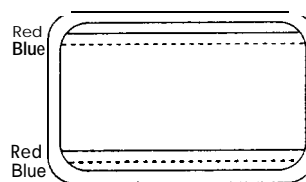


Figure 6-16. Upper and Lower Balance Misconvergence

Use a #0 screwdriver (flat-head [—] for Samsung and Hitachi DYs and phillips type [+] for Matsushita [Panasonic] DYs) at the Yv variable register. Turning the VR to the left moves the blue line at the top upward and at the bottom the line moves downward. Turning it to the right moves the blue line at the top downward and at the bottom the line moves upward.

7 Troubleshooting

Notes: 1. If picture does not appear, fully rotate the brightness and contrast controls clockwise before inspection.

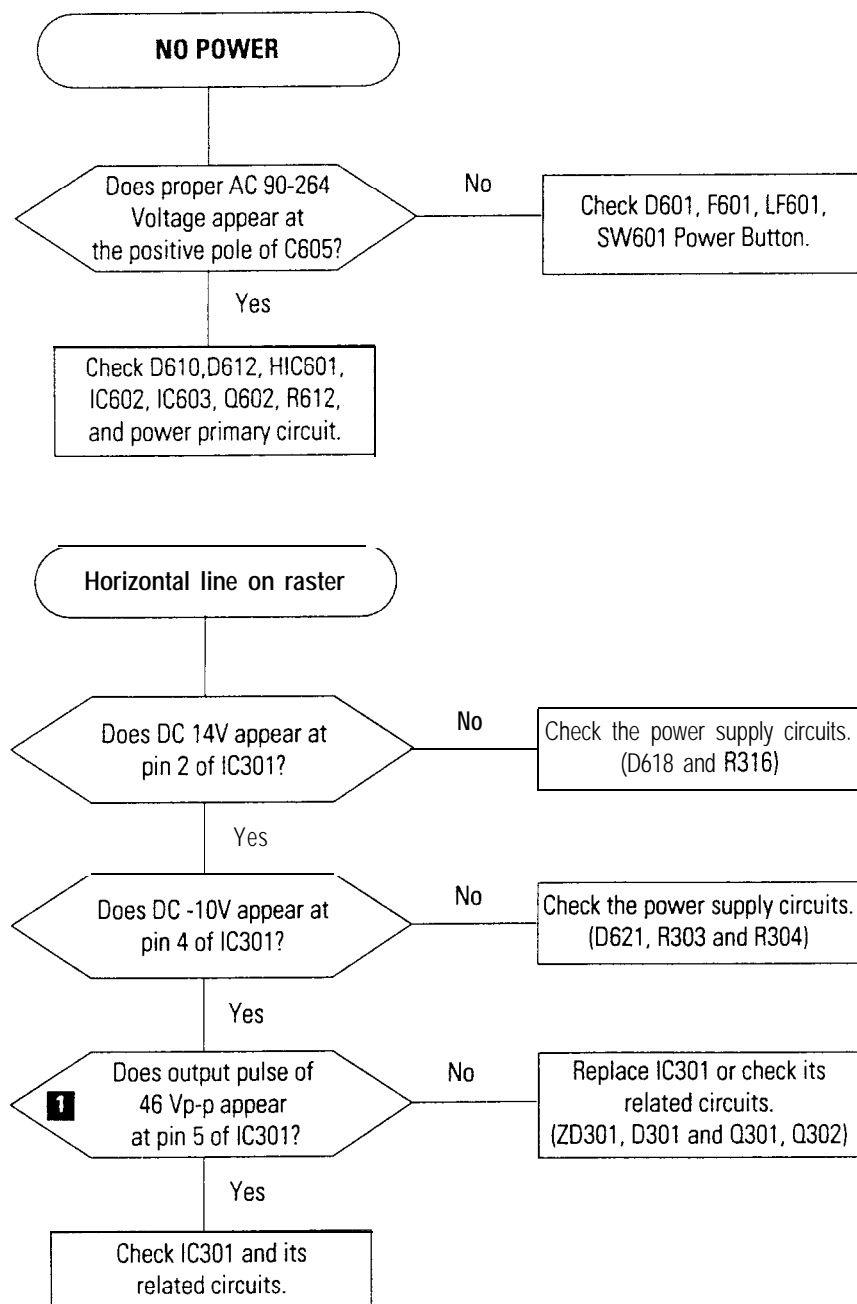
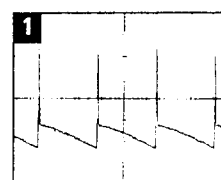
2. Check the following circuits:

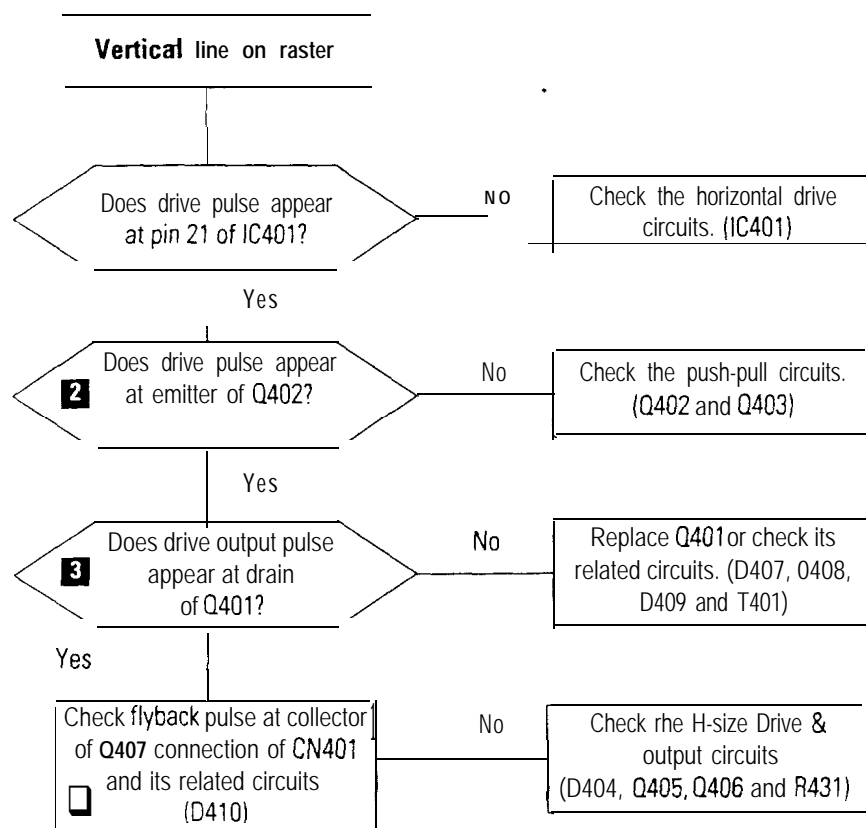
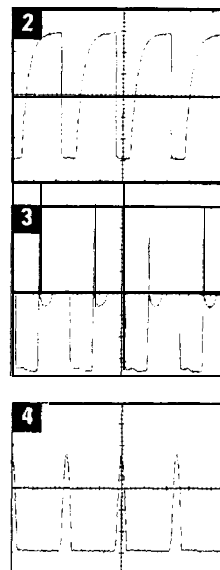
• No raster appears: Power circuit, horizontal output circuit, H/V control circuit and H/V output circuit.

*High voltage develops but no raster appears: Video output circuits.

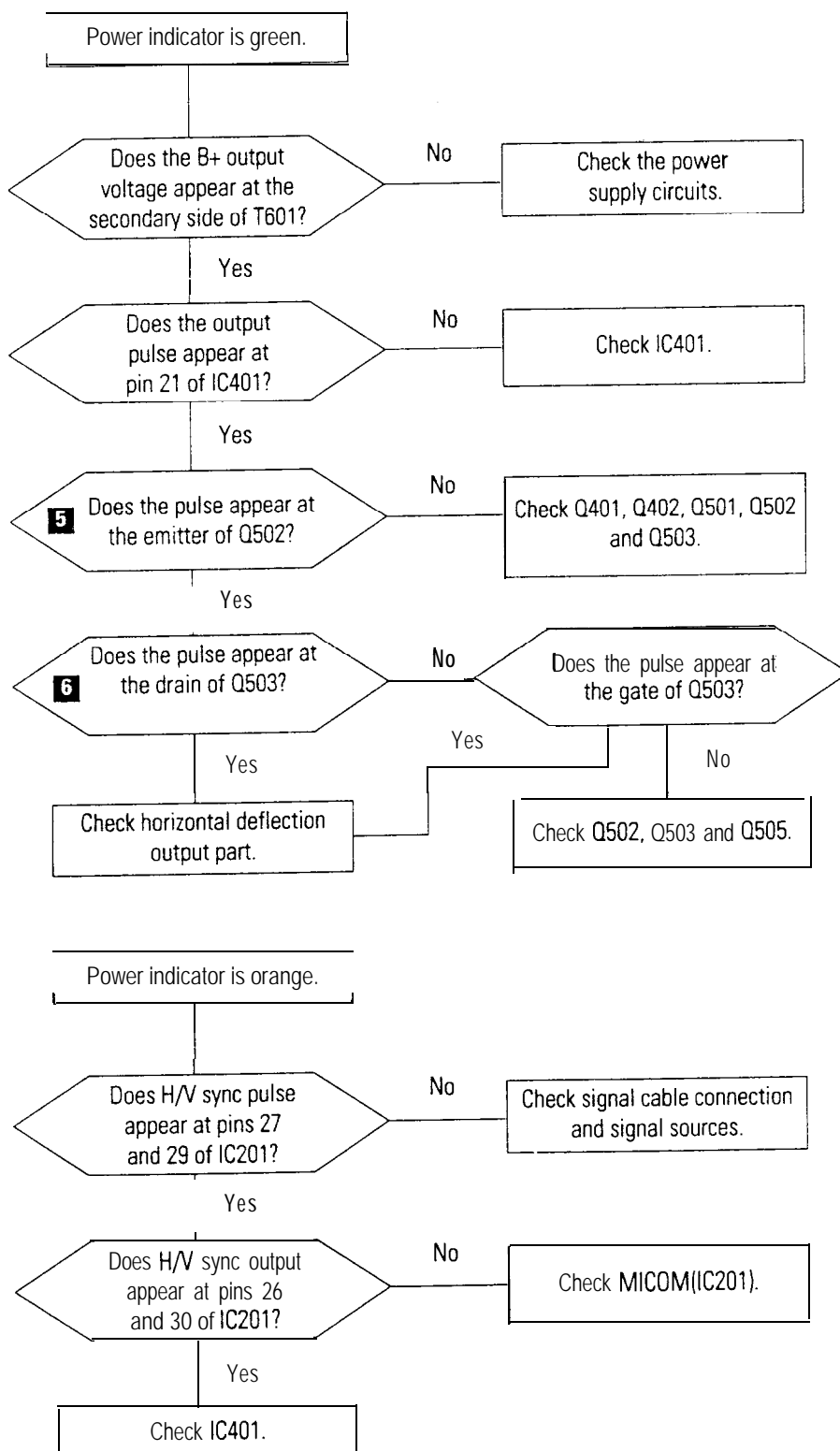
*High voltage does not develop: Horizontal output circuits.

WAVEFORMS

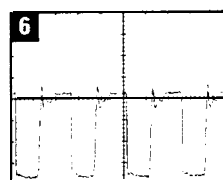
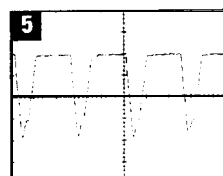


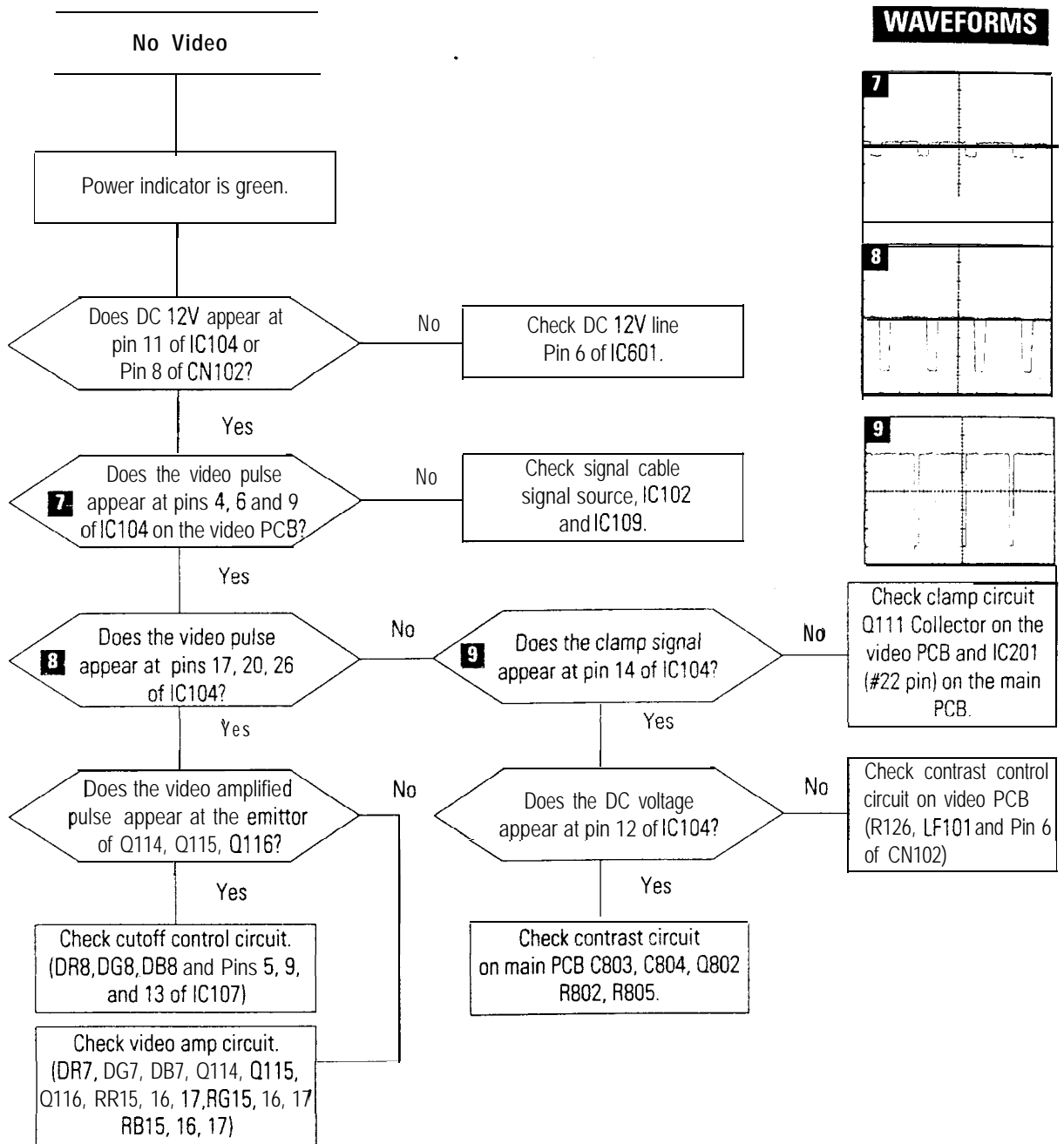
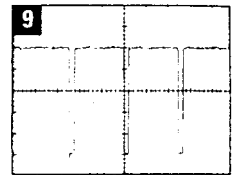
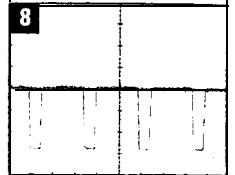
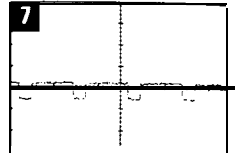
**WAVEFORMS**

No raster



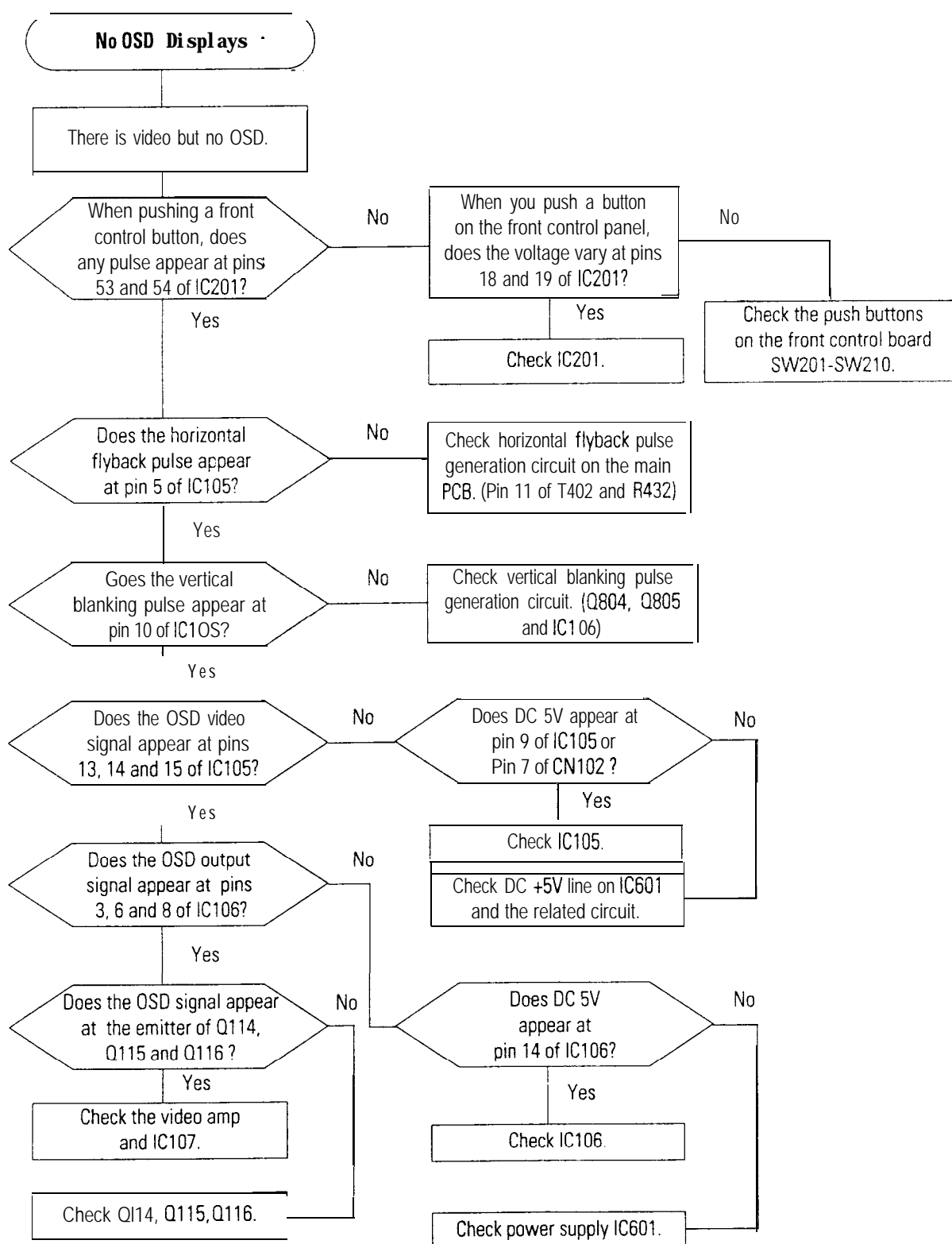
WAVEFORMS

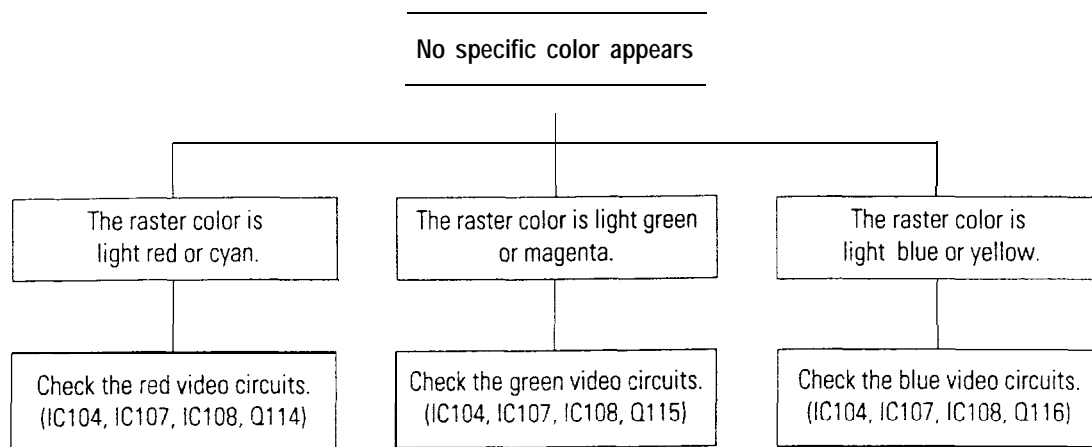


**WAVEFORMS**

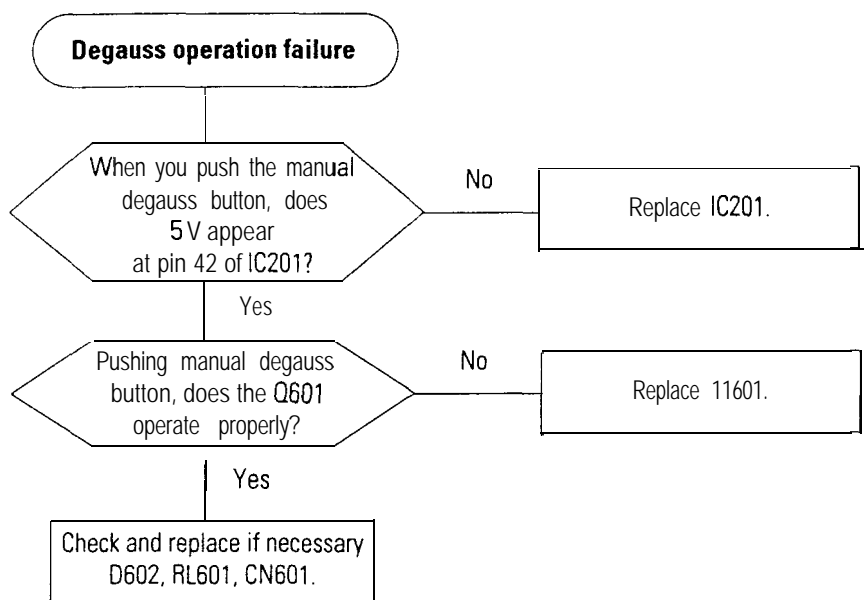
Check clamp circuit Q111 Collector on the video PCB and IC201 (#22 pin) on the main PCB.

Check contrast control circuit on video PCB (R126, LF101 and Pin 6 of CN102)





Note: Removing the signal cable displays a self raster screen. This screen displays the message "check signal cable" along with red, green and blue boxes. Use these boxes to check whether each individual color (R, G, B) is operating or not.



Power save management system failure

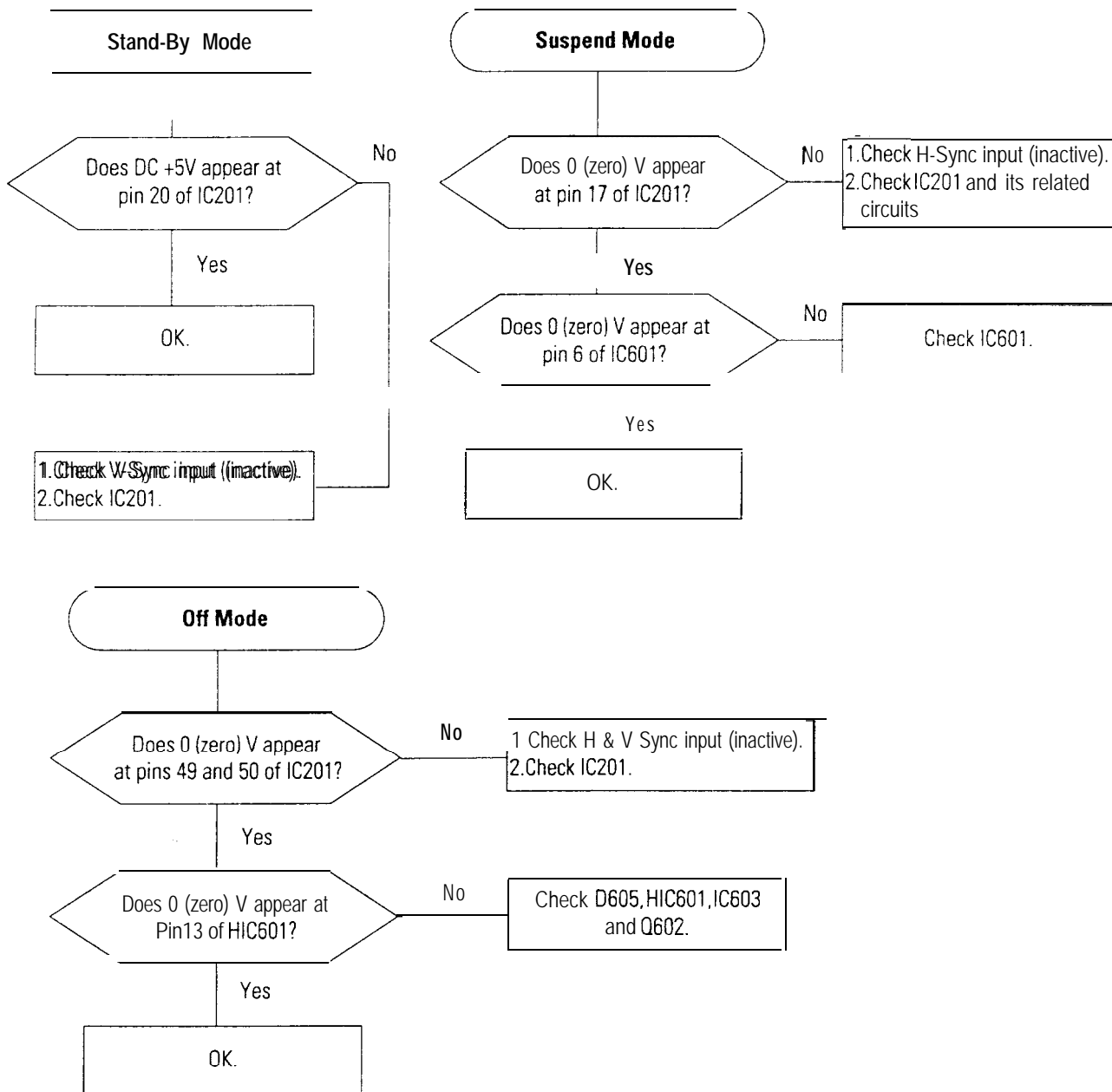


Table 9-2. DPMS Logic Table

| Mode | SYNC | | Video | LED Color |
|----------|----------|----------|---------|-----------------------|
| | H | V | | |
| Normal | Active | Active | Active | Green |
| Stand-By | Inactive | Active | Blanked | Orange |
| Suspend | Active | Inactive | Blanked | Orange/Green blanking |
| Off | Inactive | inactive | Blanked | Orange blanking |

Note: If signal cable is removed, DPMS function does not operate and a self raster is displayed.

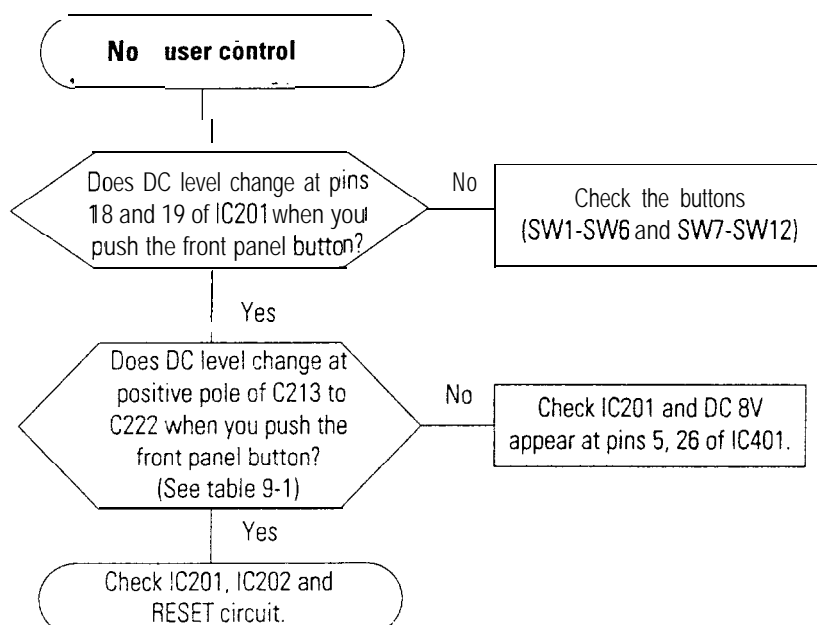
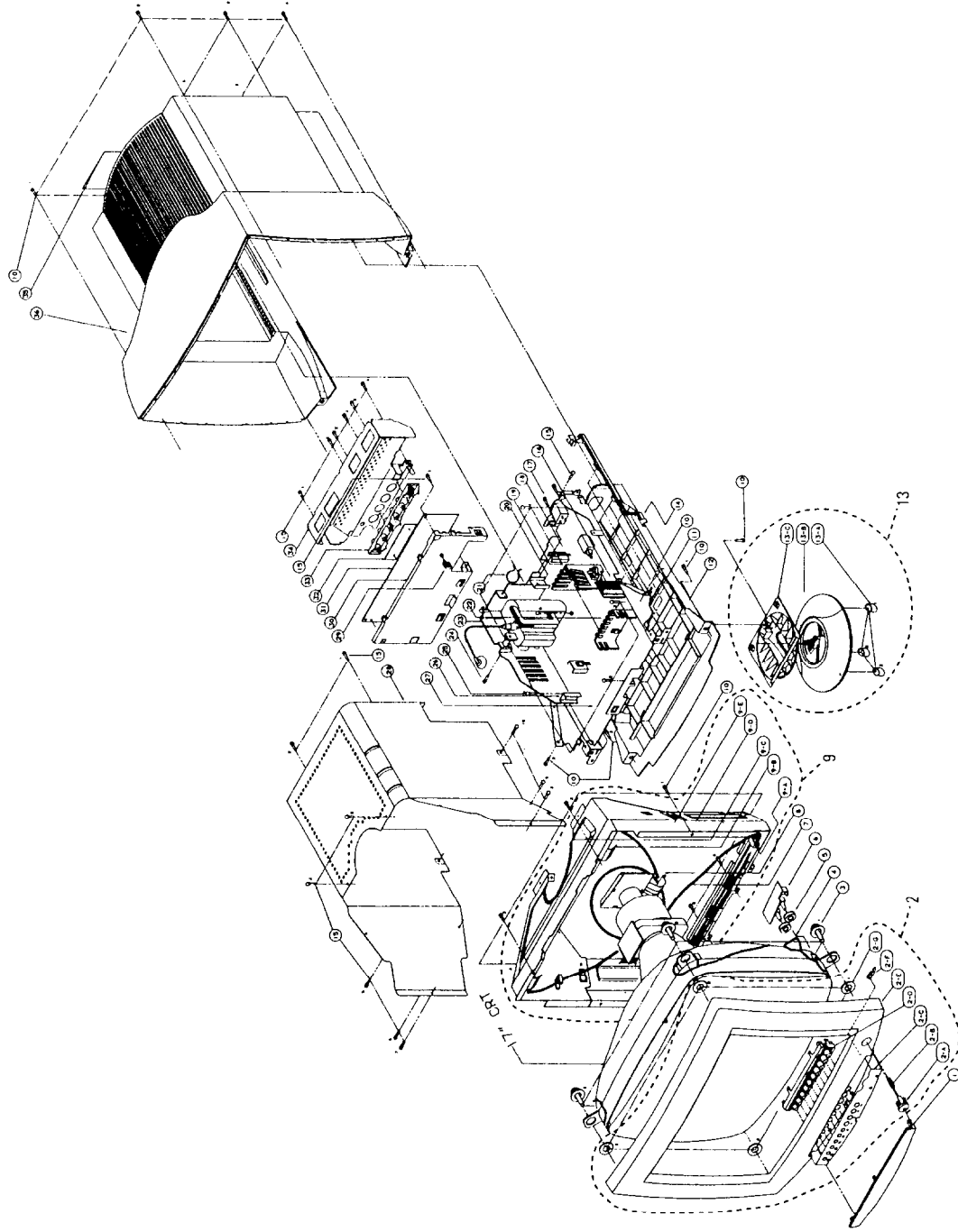


Table 9-1. Front Panel Button

| Location | Function |
|----------|---------------------|
| C213 | Pin Balance |
| C214 | Tilt |
| c215 | Vertical Linerity |
| C216 | Horizontal Size |
| c217 | Vertical Size |
| C218 | Horizontal Position |
| c219 | Vertical Position |
| C220 | Side Pincushion |
| c221 | Trapezoid |
| c222 | Parallelogram |

8 Exploded View and Parts List

SC-726GXL



| No. | Description | Code No. | Specification | QTY | Remark |
|------|---------------------|----------------|----------------------|-----|--------|
| 1 | PLT DOOR | 821 467040AA | ABS C7262 | 1 | △ |
| 2 | ASSY COVER FRONT | BH75-10011A | SC-726GXL | 1 | ● |
| 2-A | PLT KNOB-POWER | BH64-10013A | ABS C7262 | 1 | ● |
| 2-B | COM SPRING-POWER | 831 522033AD | SPS 2.0 0.05 | 1 | ● |
| 2-C | LABEL-INLAY | BH68-40001D | PC T0 254 C7262 | 1 | ● |
| 2-D | PLT KNOB-FUNCTION | BH64-10014A | ABS C7262 | 1 | ● |
| 2-E | PLT COVER-FRONT | BH72-60020A | ABS C7262 | 1 | ● |
| 2-F | PLT LENS-LED | 821 468392AA | ACRYL | 1 | ● |
| 2-G | COM WASHER-PLANE | 601-100001D | NEOPRENE YEL | 4 | △ |
| 3 | TAPITIE SCREW-CRT | 847 502048C | M5 L20 ZPC3 SWCHI 8 | 4 | △ |
| 4 | ASSY CRT-GROUND | 955 460435AAAA | TBC WIRE 3X16X0.16 | 1 | △ |
| 5 | COM KNOB-VR | BH64-10015A | ABS C7262 | 2 | △ |
| 6 | ASSY-VR PCB | | CMH7389 | 1 | △ |
| 7 | ASSY D-COIL | 925 460184DA | DC1000V/500MOHM | 1 | △ |
| 8 | NMP S/CRT PCB | 813 464190AB | SPTE T0.5 | 1 | △ |
| 9 | BRKT CRT ASSY | 811 466028AA | CMH7389 | 1 | △ |
| 9-A | COM MISECL CLAMP | 857 170024EA | DAWS-IN-1 | 4 | ● |
| 9-B | COM EARTH-PLATE | 815 462029AA | PBS T0.2 | 7 | ● |
| 9-C | COM COVER-BUSHING | 831 151003AA | NYLON616 NTR DACB-08 | 1 | ● |
| 9-D | NMP BRKT-BOTTOM | 813 460285AA | SECC T0.8 | 1 | ● |
| 9-E | NMP BRKT-TOP | 813 460284AA | SECC T0.8 | 1 | ● |
| 10 | TAPITIE BH 4X16 | 847 501007FC | M4 L16 ZPC3 SWCHI 9A | 16 | ● |
| 11 | BRKT PCB | 813 460281AA | SECC T1.0 | 1 | ● |
| 12 | BOTTOM COVER | BH72-60022M | ABS C7262 | 1 | ● |
| 13 | STAND-ASSY | 811 460056AA | CMH7389 | 1 | ● |
| 13-A | RUBBER-FOOT | 831 313024AB | NEOPRENE VI 80E | 3 | ● |
| 13-B | STAND-BASE | 821 463106AA | ABS C7262 | 1 | ● |
| 13-C | STAND-TOP | 921 463097AB | ABS C7262 | 1 | ● |
| 14 | SHAFT-POWER | 821 468288AA | ABS-PC ALLOY 75064 | 1 | ● |
| 15 | TAPITIE BH | 847 501007EG | BH 3X8 YEL | 19 | ● |
| 16 | COM H/S DIODE | 831 512007AB | AG063 EXTR | 1 | ● |
| 17 | TAPITIE FH 3X10 BLK | 842 243073AC | SPCC T1.0 | 2 | △ |
| 18 | COM H/S-TR | 831 513023AA | AL1050S H14 T3.0 | 1 | △ |
| 19 | COM H/S-POWER | 831 513024AA | SPCC T1.0 | 1 | △ |
| 20 | COM H/S-TR | 831 513021AA | ABS V0 GRAY | 2 | △ |
| 21 | MISECL CLAMPER FBT | 857 170053AA | AL1050S H14 T3.0 | 1 | △ |
| 22 | COM H/S POWER | 831 513022AA | AL1050S H14 T2.0 | 1 | △ |
| 23 | HEAT SINK-FBT | 831 513033AA | AL1050S H14 T2.0 | 1 | △ |
| 24 | TAPITIE BH | 847 501007FB | BH 4X12 YEL | 2 | △ |
| 25 | TAPITIE-W/W3X10 | 847 502005AA | M3 L10 ZPC3 SWCHI 8A | 6 | △ |
| 26 | COM H/S-TR | 831 511012AG | AG063 EXTR | 1 | △ |
| 27 | MAIN-PCB | 257 211080AAKE | CMH7389 | 1 | △ |
| 28 | SHIELD-TOP | 815 464125AA | A1050S T0.5 | 1 | △ |
| 29 | COM MISECL CLAMP | 857 170024EA | DAWS-IN-1 | 1 | △ |
| 30 | BRKT-VIDEO | 813 460282AA | SECC-1 T0.8 | 1 | △ |
| 31 | VIDEO-PCB | 947 460044BA | CMH7389 | 1 | △ |
| 32 | COM H/S PACK | 831 516030BA | A1050S T2.0 | 1 | △ |
| 33 | ASSY BRKT-BNC | 811 466042AC | CMH7389 | 1 | △ |
| 34 | SHIELD-VIDEO | 815 464121AA | AL1050S H14 T1.6 | 1 | △ |
| 35 | INC LABEL-RATING | 825 139500AD | PE T0.075 | 1 | △ |
| 36 | PLT COVER REAR | BH72-60021A | ABS C7262 | 1 | △ |

Caution

Specialty part for this monitor only

△

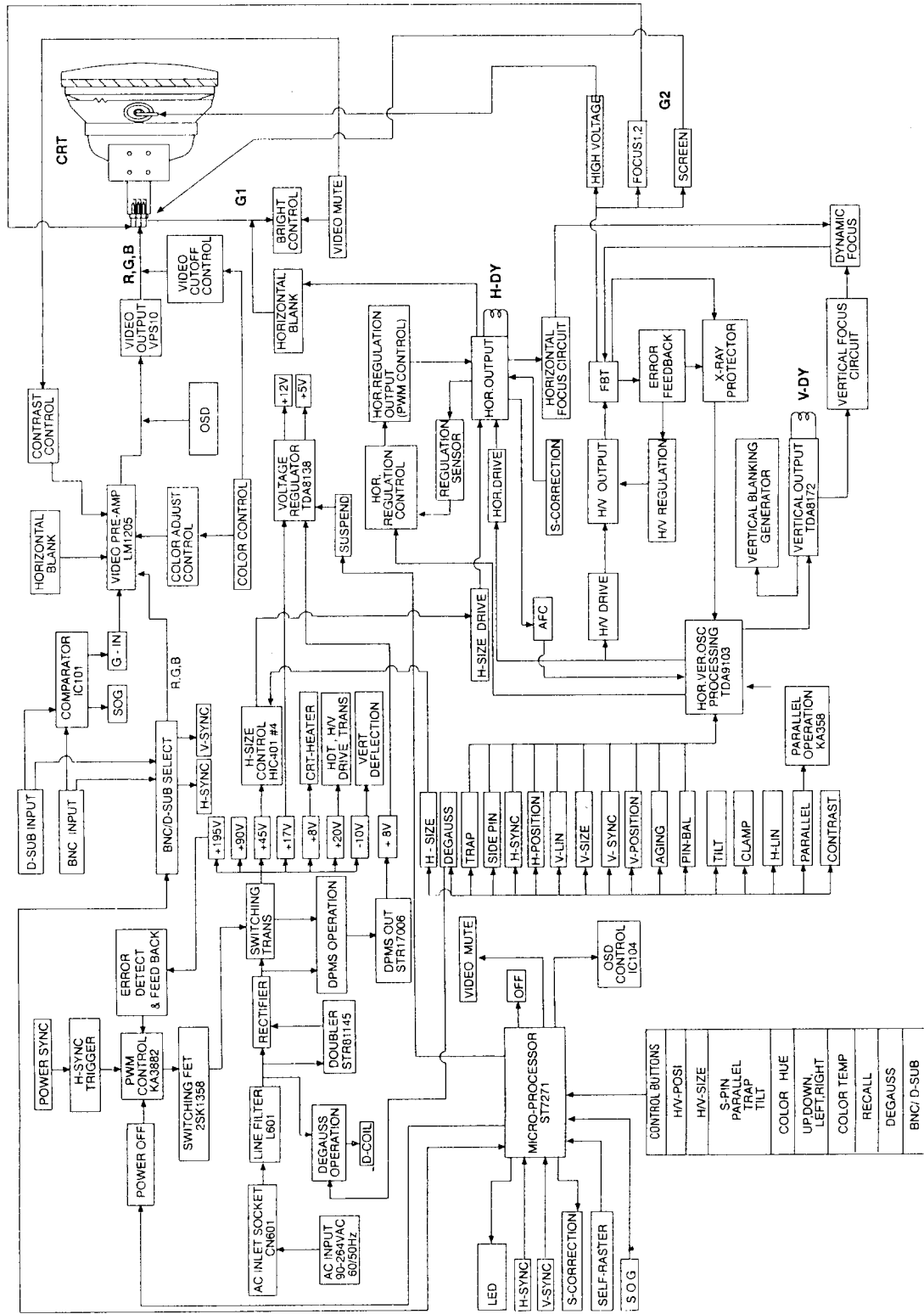
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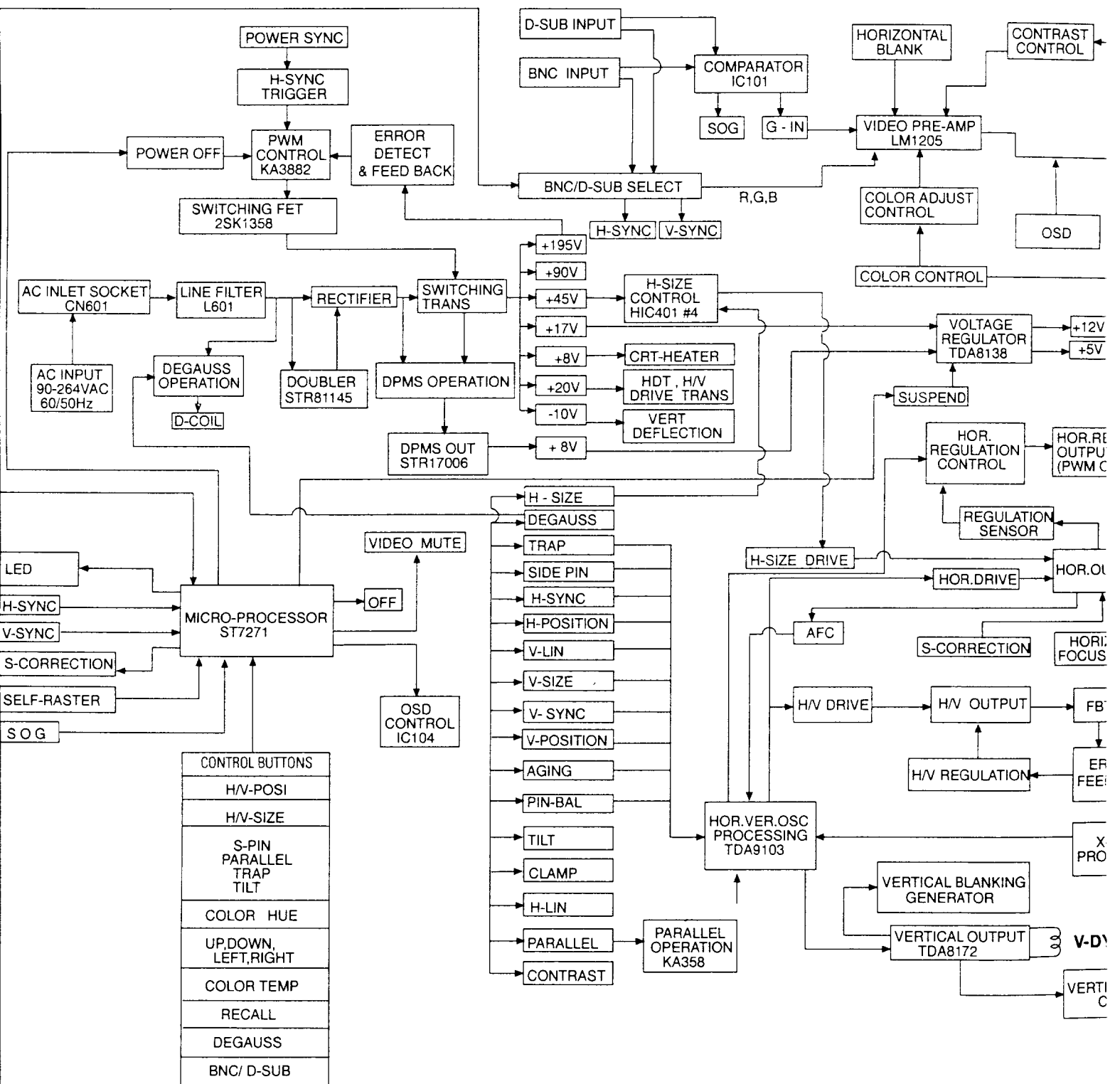
9 Servicing Diagrams

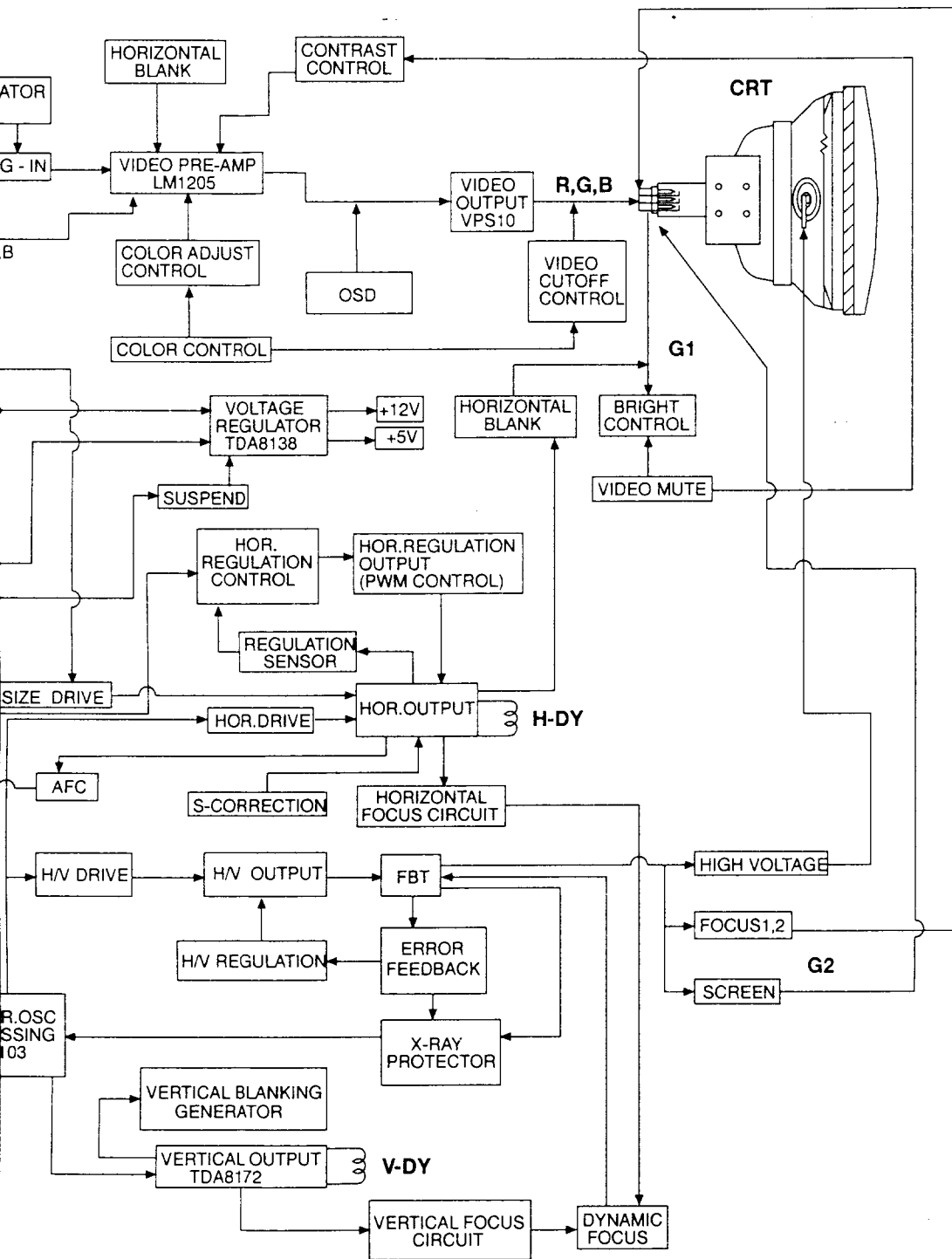
9-1 Block Diagram



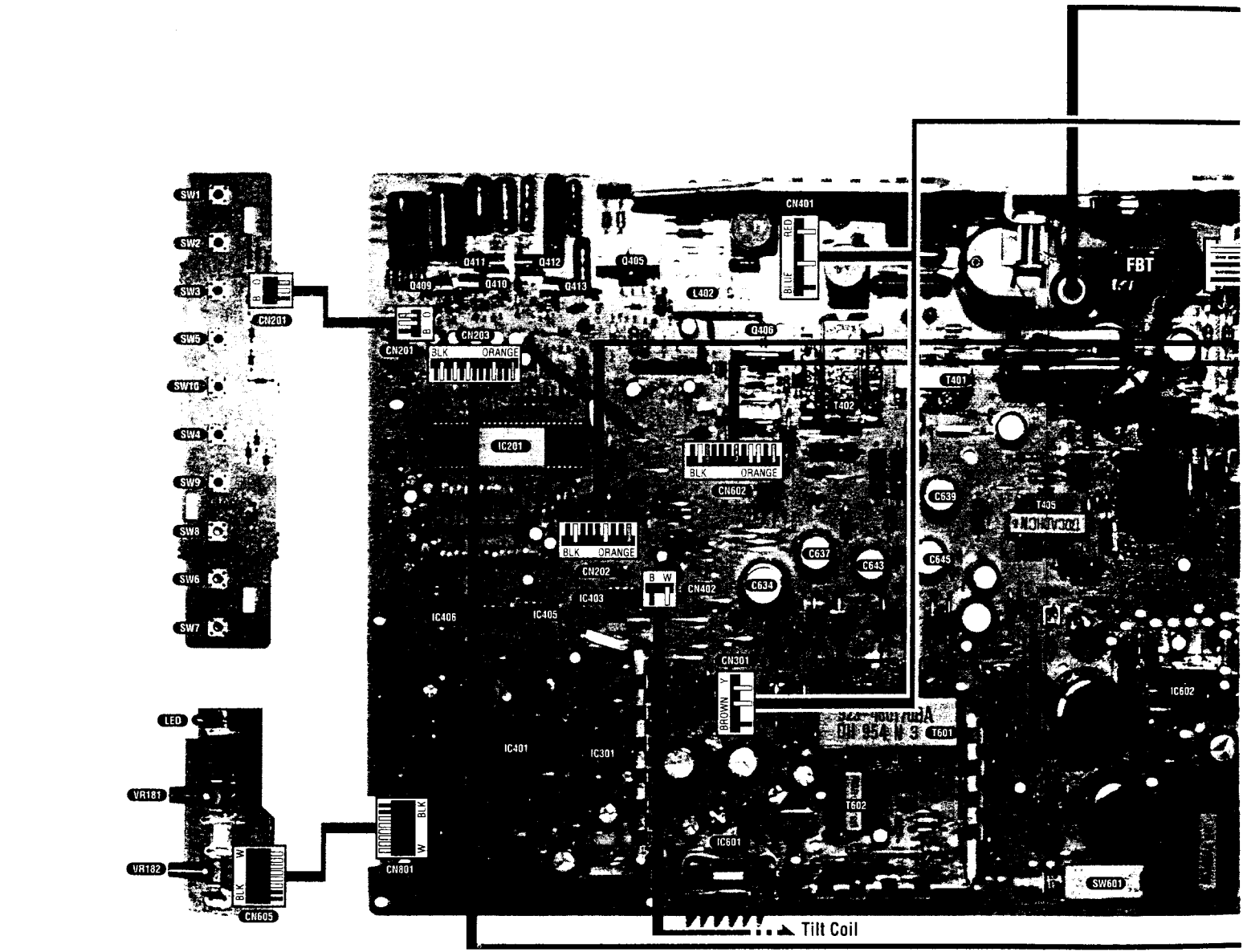
Servicing Diagrams

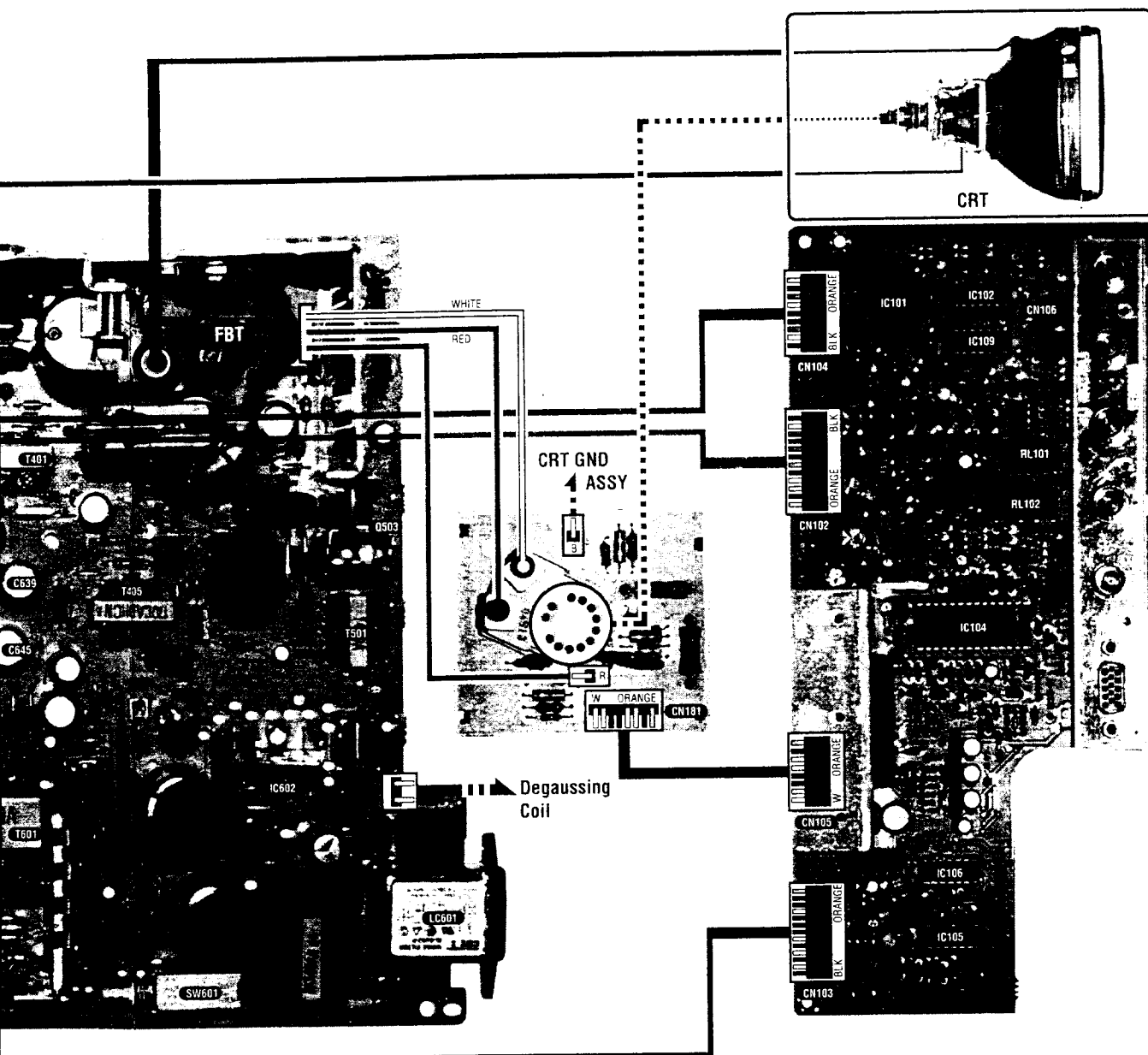
1 Block Diagram



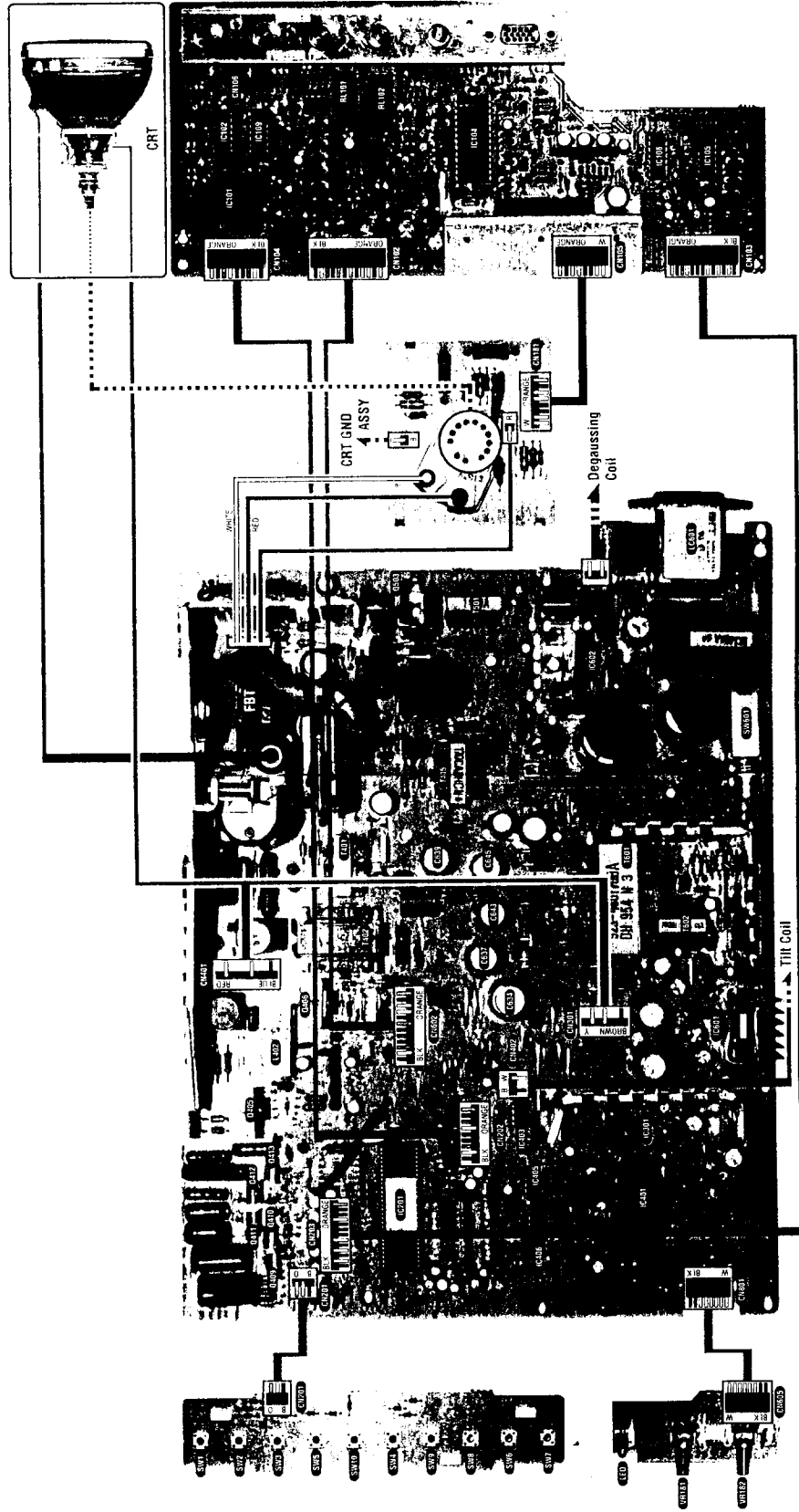


9-2 Wiring Diagrams

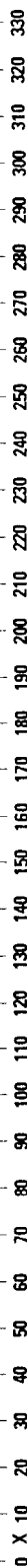




9-2 Wiring Diagrams

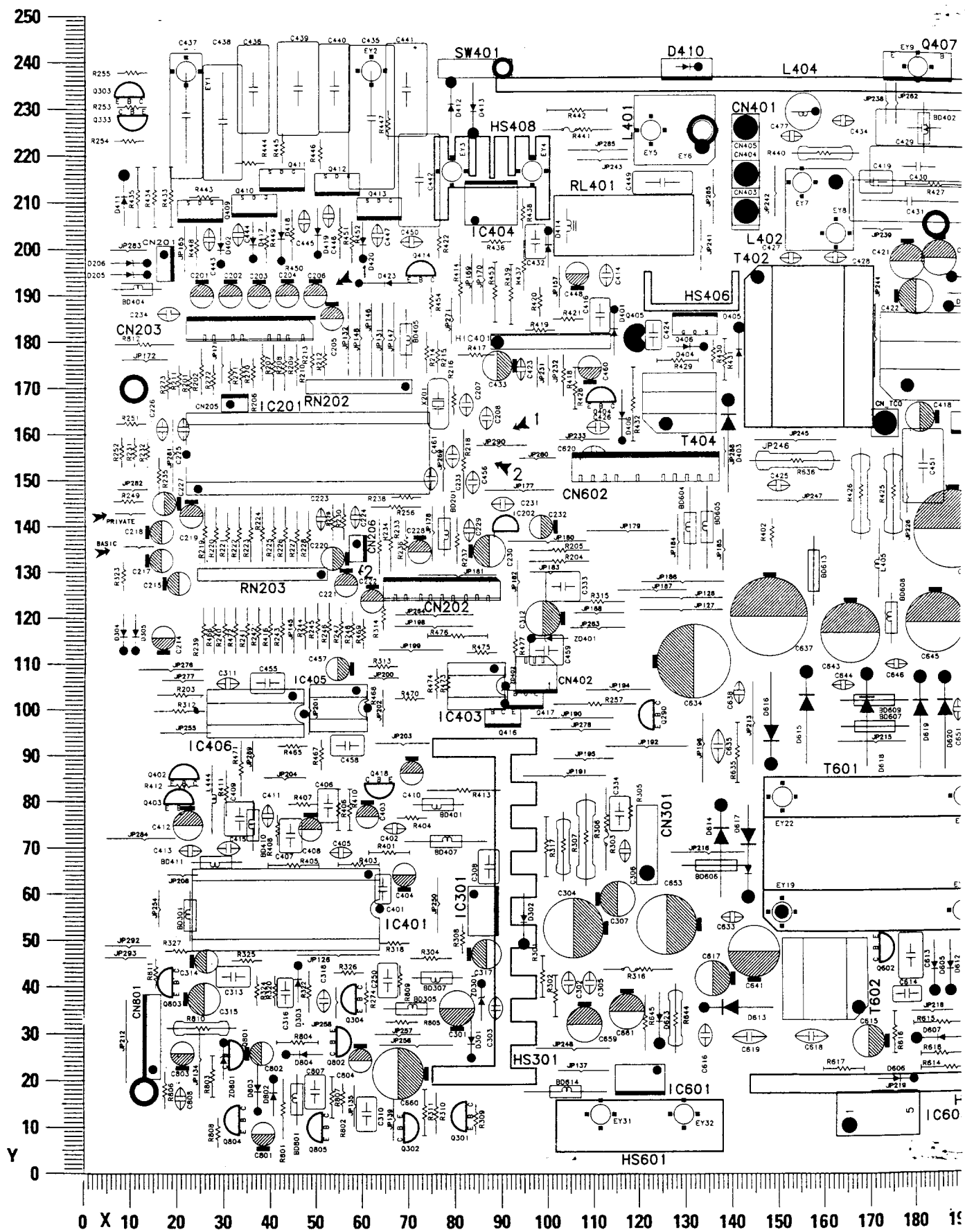


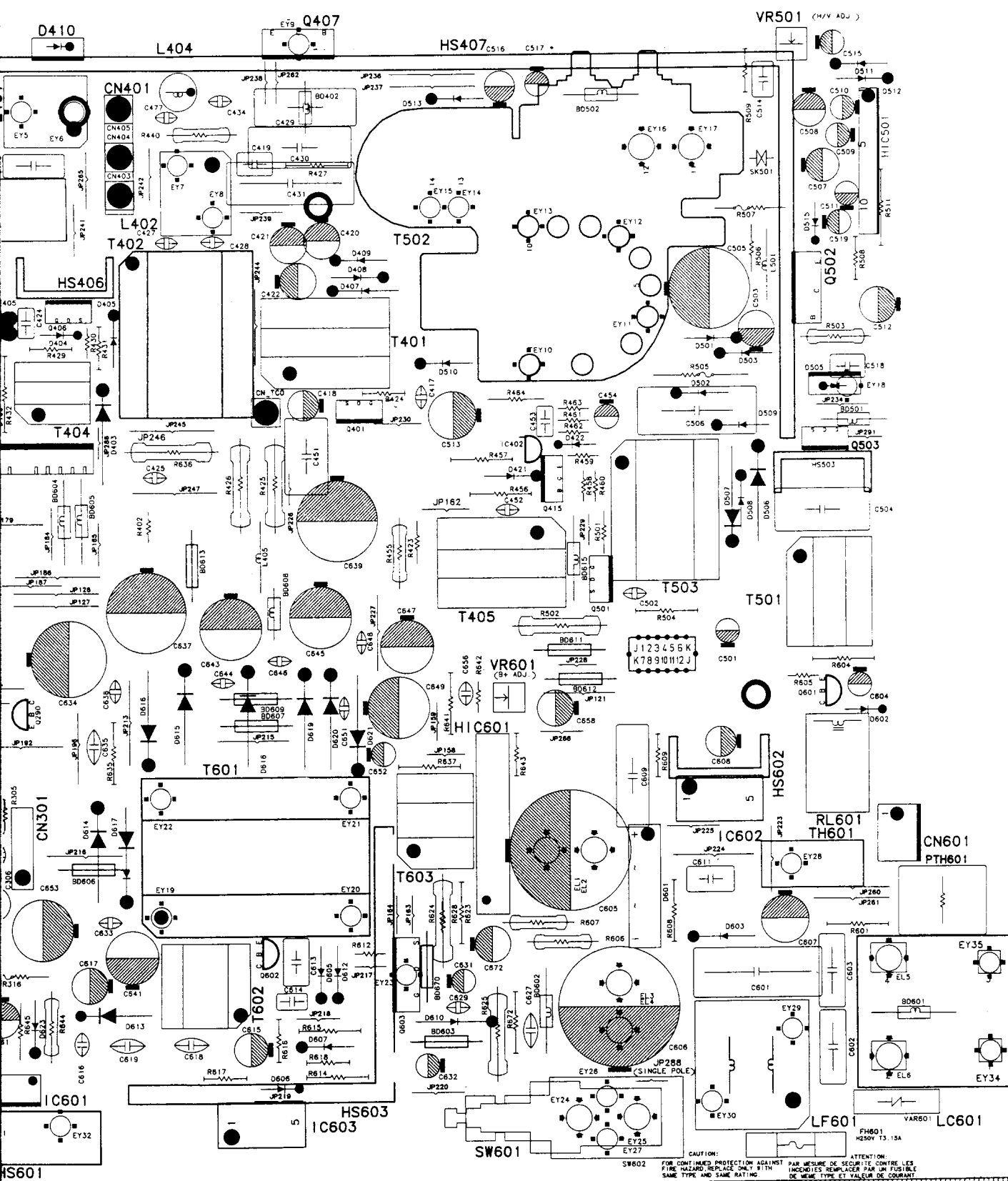
Main PCB Top View



PCB Layout

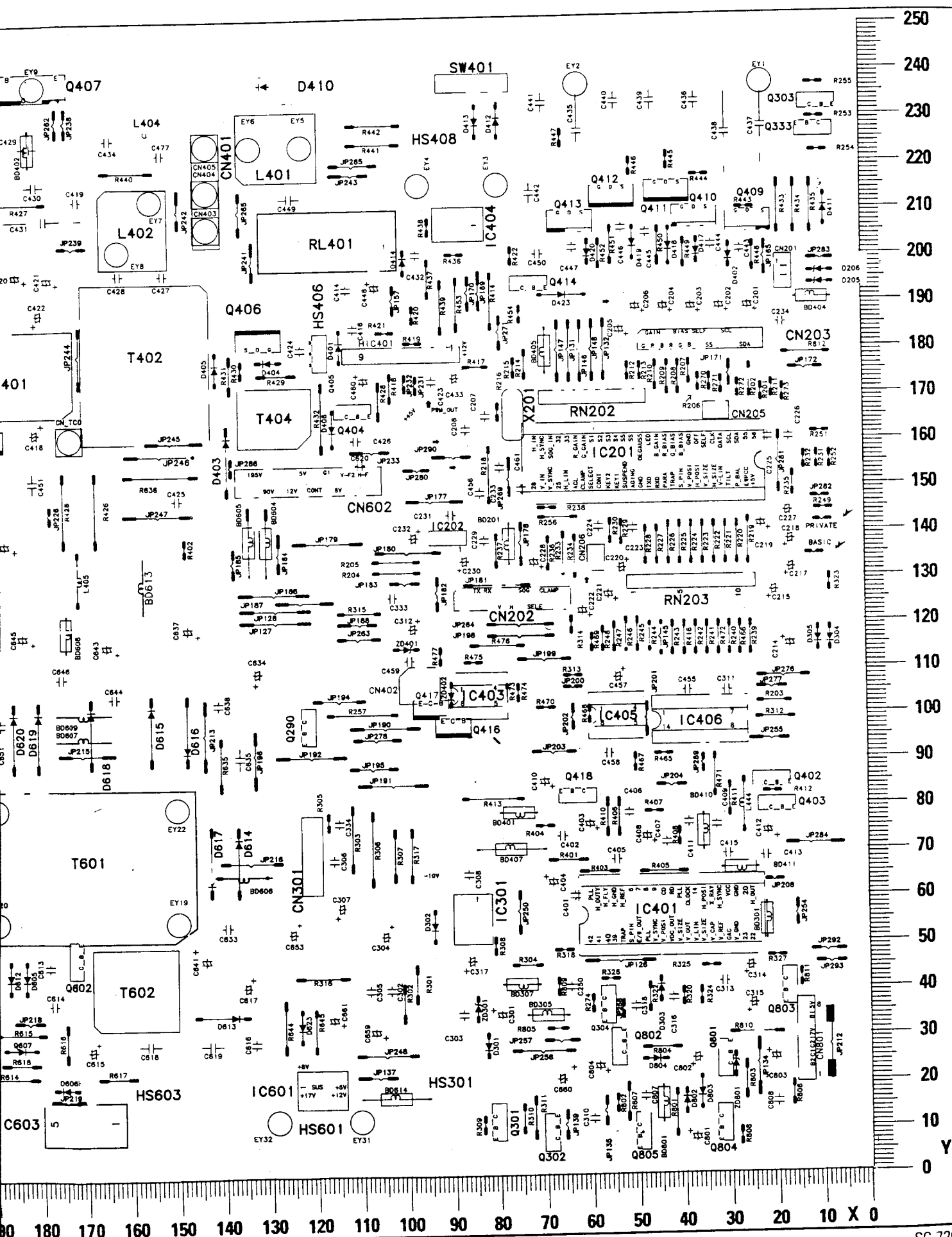
PCB Top View



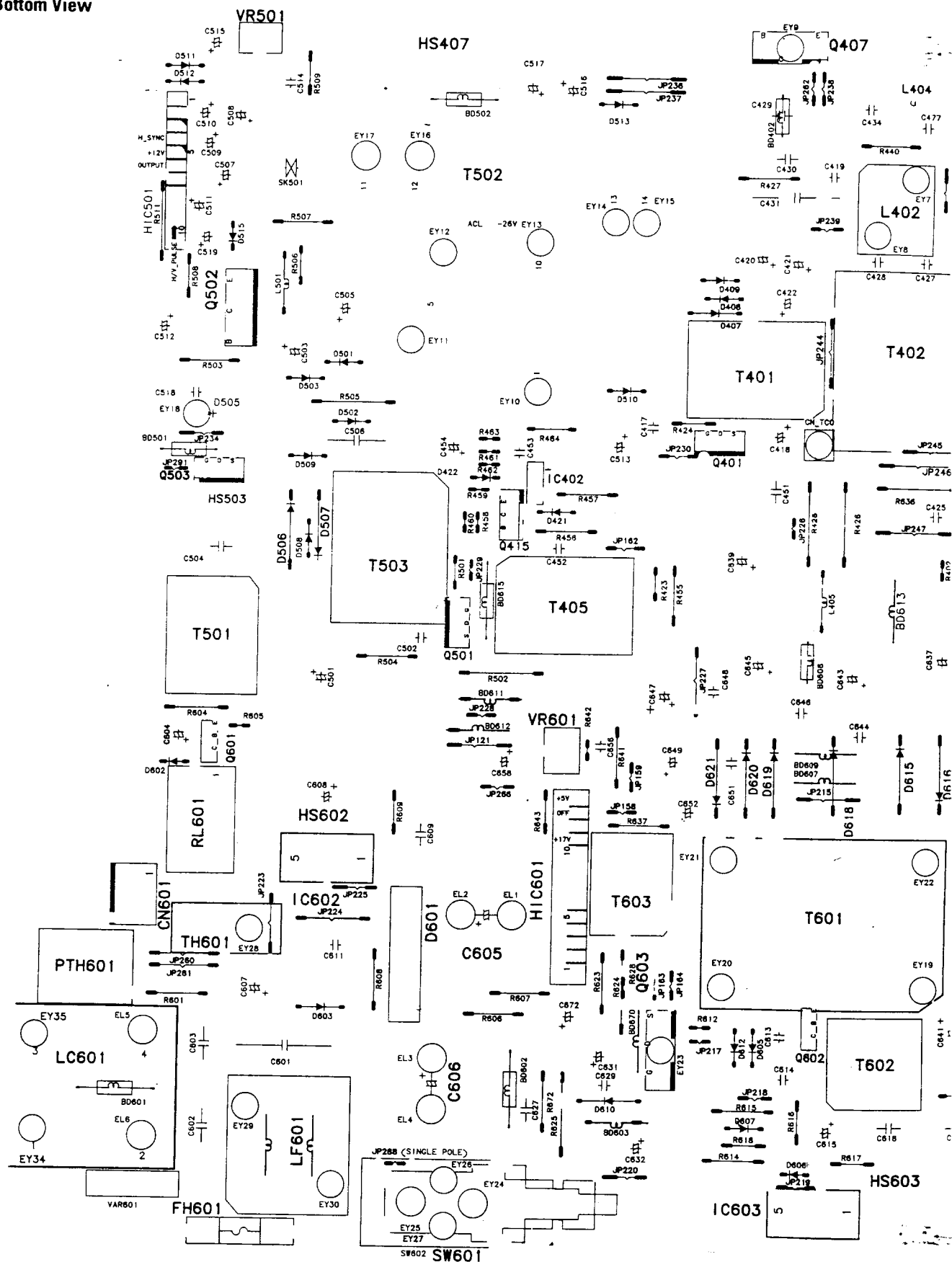


| | | | | |
|-------|--|--|--|------------|
| EY27 | CAUTION: | | | ATTENTION: |
| SW602 | FOR CONTINUED PROTECTION AGAINST FIRE HAZARD, REPLACE ONLY WITH SAME TYPE AND SAME RATING. | PAR MESURE DE SECURITE CONTRE LES INCENDIES REMPLACER PAR UN FUSIBLE DE MEME TYPE ET VALEUR DE COURANT | | |

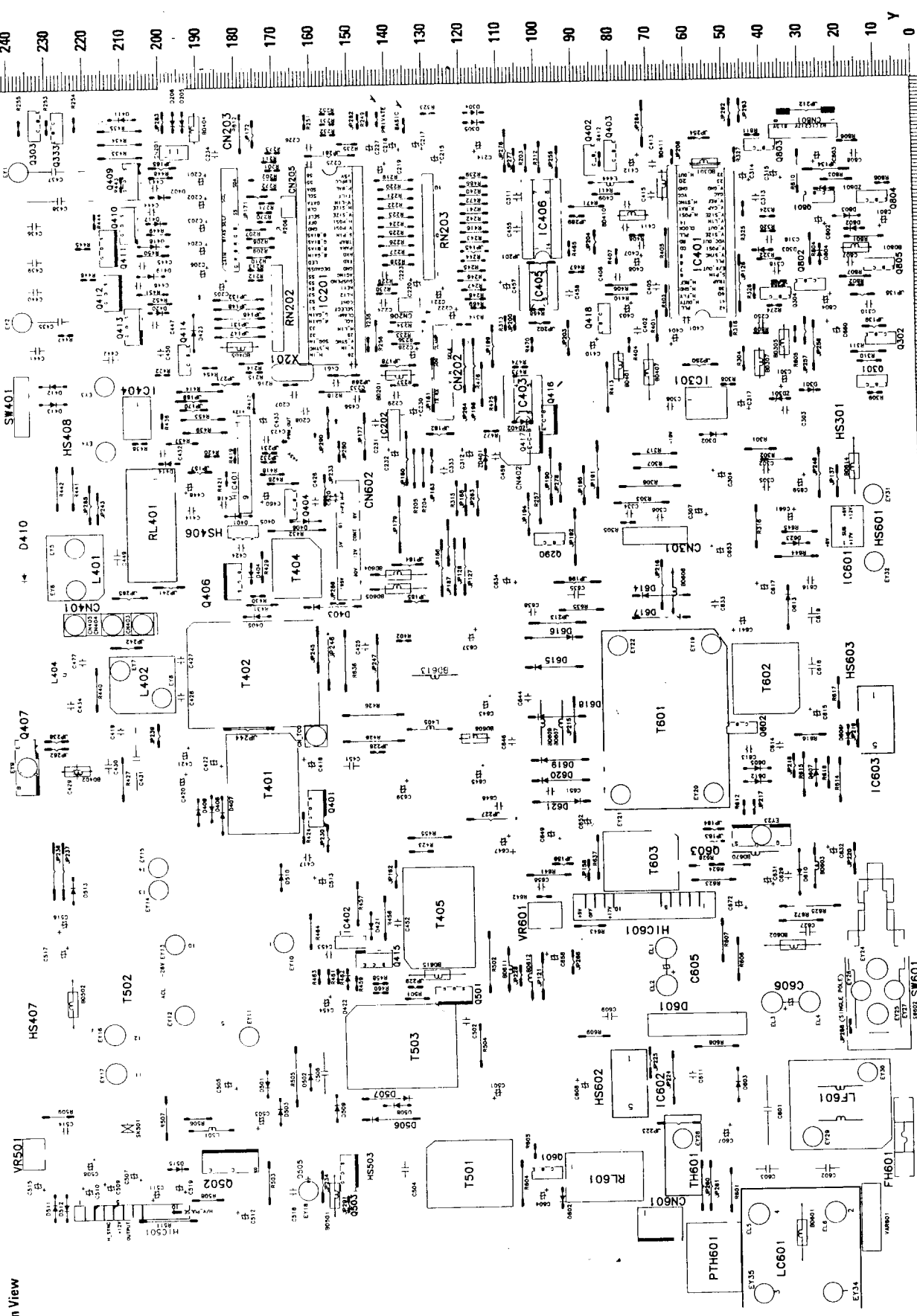
120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330



Main PCB Bottom View



Main PCB Bottom View



SC-7266XL

9-3-2 Main Parts List

(⚠ : Caution, ● : Specialty part for this monitor only, ⚡ : ESD Caution)

| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|-------|----------------|--------------------------|---------------------------------|---------|
| BD201 | 78.2 | 145.1 | 937 120211AA | MAG-CORE,FERRITE,BEAD | 1.2UH,3.5_5.7MM,10 OHM | |
| BD301 | 22.9 | 50.7 | 937 120211AA | MAG-CORE,FERRITE,BEAD | 1.2UH,3.5_5.7MM,10 OHM | |
| BD305 | 65 | 35.9 | 937 120211AA | MAG-CORE,FERRITE,BEAD | 1.2UH,3.5_5.7MM,10 OHM | |
| BD307 | 82.2 | 42.6 | 937 120211AA | MAG-CORE,FERRITE,BEAD | 1.2UH,3.5_5.7MM,10 OHM | |
| BD401 | 82.4 | 80.2 | 937 120211AA | MAG-CORE,FERRITE,BEAD | 1.2UH,3.5_5.7MM,10 OHM | |
| BD402 | 182.9 | 232.3 | 937 120211AA | MAG-CORE,FERRITE,BEAD | 1.2UH,3.5_5.7MM,10 OHM | |
| BD404 | 5.7 | 192.2 | 937 120211AA | MAG-CORE,FERRITE,BEAD | 1.2UH,3.5_5.7MM,10 OHM | |
| BD405 | 69.9 | 187.7 | 937 120211AA | MAG-CORE,FERRITE,BEAD | 1.2UH,3.5_5.7MM,10 OHM | |
| BD406 | | | 937 120211AA | MAG-CORE,FERRITE,BEAD | 1.2UH,3.5_5.7MM,10 OHM | |
| BD407 | 69.5 | 72.2 | 937 120213AA | AM MAG-CORE FERRITE BEAD | ST 02429-048-017 | |
| BD410 | 36.5 | 70.2 | 937 120211AA | MAG-CORE,FERRITE,BEAD | 1.2UH,3.5_5.7MM,10 OHM | |
| BD411 | 34.1 | 67.8 | 937 120211AA | MAG-CORE,FERRITE,BEAD | 1.2UH,3.5_5.7MM,10 OHM | |
| BD501 | 305 | 160.4 | 937 120211AA | MAG-CORE,FERRITE,BEAD | 1.2UH,3.5_5.7MM,10 OHM | |
| BD502 | 237.1 | 229 | 937 120211AA | MAG-CORE,FERRITE,BEAD | 1.2UH,3.5_5.7MM,10 OHM | |
| BD601 | 301 | 35.4 | 937 120213AA | AM MAG-CORE FERRITE BEAD | ST 02429-048-017 | |
| BD602 | 232.8 | 45.4 | 937 120213AA | AM MAG-CORE FERRITE BEAD | ST 02429-048-017 | |
| BD603 | 219.2 | 30 | 937 120213AA | AM MAG-CORE FERRITE BEAD | ST 02429-048-017 | |
| BD604 | 131.6 | 130.9 | 937 120213AA | AM MAG-CORE FERRITE BEAD | ST 02429-048-017 | |
| BD605 | 135.3 | 131.1 | 937 120213AA | AM MAG-CORE FERRITE BEAD | ST 02429-048-017 | |
| BD606 | 144.9 | 66.8 | 937 120213AA | AM MAG-CORE FERRITE BEAD | ST 02429-048-017 | |
| BD607 | 164.6 | 96.9 | 937 120213AA | AM MAG-CORE FERRITE BEAD | ST 02429-048-017 | |
| BD608 | 175.9 | 114.9 | 937 120211AA | MAG-CORE,FERRITE,BEAD | 1.2UH,3.5_5.7MM,10 OHM | |
| BD609 | 179.5 | 102.6 | 937 120213AA | AM MAG-CORE FERRITE BEAD | ST 02429-048-017 | |
| BD611 | 245.5 | 112.4 | 937 120213AA | AM MAG-CORE FERRITE BEAD | ST 02429-048-017 | |
| BD612 | 232.8 | 106.3 | 937 120213AA | AM MAG-CORE FERRITE BEAD | ST 02429-048-017 | |
| BD613 | 158.7 | 138.2 | 937 120213AA | AM MAG-CORE FERRITE BEAD | ST 02429-048-017 | |
| BD614 | 95.5 | 17.9 | 937 120211AA | MAG-CORE,FERRITE,BEAD | 1.2UH,3.5_5.7MM,10 OHM | |
| BD615 | 239 | 140.7 | 937 120211AA | MAG-CORE,FERRITE,BEAD | 1.2UH,3.5_5.7MM,10 OHM | |
| BD670 | 207.7 | 53.4 | 937 120213AA | AM MAG-CORE FERRITE BEAD | ST 02429-048-017 | |
| BD801 | 46.1 | 10.8 | 937 120211AA | MAG-CORE,FERRITE,BEAD | 1.2UH,3.5_5.7MM,10 OHM | |
| C201 | 25.4 | 188.1 | 917 121470HM | CAP-AL.ELEC,475M,1H | (T)50V 4.7M | |
| C202 | 31.6 | 188.1 | 917 121470HM | CAP-AL.ELEC,475M,1H | (T)50V 4.7M | |
| C203 | 37.8 | 188 | 917 121470HM | CAP-AL.ELEC,475M,1H | (T)50V 4.7M | |
| C204 | 43.9 | 188.1 | 917 121470HM | CAP-AL.ELEC,475M,1H | (T)50V 4.7M | |
| C205 | 53.6 | 183.1 | 917 121470HM | CAP-AL.ELEC,475M,1H | (T)50V 4.7M | |
| C206 | 50 | 188.1 | 917 121470HM | CAP-AL.ELEC,475M,1H | (T)50V 4.7M | |
| C207 | 83 | 164.4 | 915 312470HJXH | CAP-CERAMIC,470J,1H,NPO | 47PF,50V,5%,NPOPPM,NPO | |
| C208 | 87.4 | 161.5 | 915 312470HJXH | CAP-CERAMIC,470J,1H,NPO | 47PF,50V,5%,NPOPPM,NPO | |
| C213 | 22.6 | 124.9 | 917 121470HM | CAP-AL.ELEC,475M,1H | (T)50V 4.7M | |
| C214 | 17 | 119.1 | 917 121470HM | CAP-AL.ELEC,475M,1H | (T)50V 4.7M | |
| C215 | 22.9 | 128.3 | 917 121470HM | CAP-AL.ELEC,475M,1H | (T)50V 4.7M | |
| C216 | 19.0 | 123.1 | 917 121470HM | CAP-AL.ELEC,475M,1H | (T)50V 4.7M | |
| C217 | 19.1 | 133.3 | 917 121470HM | CAP-AL.ELEC,475M,1H | (T)50V 4.7M | |
| C218 | 19.2 | 139.5 | 917 121470HM | CAP-AL.ELEC,475M,1H | (T)50V 4.7M | |
| C219 | 23.1 | 140.4 | 917 121470HM | CAP-AL.ELEC,475M,1H | (T)50V 4.7M | |
| C220 | 51.2 | 133.6 | 917 121470HM | CAP-AL.ELEC,475M,1H | (T)50V 4.7M | |
| C221 | 56.7 | 125.3 | 917 121470HM | CAP-AL.ELEC,475M,1H | (T)50V 4.7M | |
| C222 | 62.4 | 121.8 | 917 121470HM | CAP-AL.ELEC,475M,1H | (T)50V 4.7M | |
| C223 | 51.2 | 144.7 | 915 313100HJHH | CAP-CERAMIC,101J,1H,SL | 100PF,50V,5%,P350TON1000PPM | |
| C224 | 58.7 | 145.1 | 915 313100HJHH | CAP-CERAMIC,101J,1H,SL | 100PF,50V,5%,P350TON1000PPM | |
| C225 | 21.4 | 159.3 | 915 325100HZVH | CAP-CERAMIC,103Z,1H,Y5V | 10NF,50V,-20 TO 80%,-80TO30%,Y5 | |
| C226 | 16.8 | 159.3 | 915 325100HZVH | CAP-CERAMIC,103Z,1H,Y5V | 10NF,50V,-20 TO 80%,-80TO30%,Y5 | |
| C227 | 14.7 | 145.7 | 917 122100EM | CAP-AL.ELEC,106M,1E | (T)25V 10M | |
| C228 | 72.8 | 132.5 | 917 121470HM | CAP-AL.ELEC,475M,1H | (T)50V 4.7M | |
| C229 | 83.6 | 142.2 | 915 324100HKPH | CAP-CERAMIC,102K,1H,Y5P | 1NF,50V,10%,10%,Y5P,DISC-RADIAL | |
| C230 | 90.5 | 135.2 | 917 123100CM | CAP-AL.ELEC,107M,1C | (T)16V 100M | |

(⚠ : Caution, ● : Specialty part for this monitor only, ⚡ : ESD Caution)

| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|-------|----------------|-----------------------------|---------------------------------|---------|
| C231 | 88.4 | 145.4 | 915 336100HZVH | CAP-CERAMIC,104Z,1H,Y5V | 100NF,50V,-20 TO 80%,-82TO22% | |
| C232 | 96.7 | 140.4 | 917 122100EM | CAP-AL.ELEC,106M,1E | (T)25V 10M | |
| C233 | 80 | 158.2 | 915 313100HJXH | CAP-CERAMIC,101J,1H,NPO | 100PF,50V,5%,-,NPOPPM,NPO | |
| C234 | 20.7 | 186.8 | 915 336100HZVH | CAP-CERAMIC,104Z,1H,Y5V | 100NF,50V,-20 TO 80%,-82TO22% | |
| C250 | 65.9 | 39.5 | 916 165470LJAH | CAP-MYLAR,473J,2A,5P | (T)100V 473J | |
| C301 | 81 | 38.5 | 917 863470CMAH | CAP-AL.ELEC,477M,1C,8x11.5 | (T)470UF,16V,20%,R-RADIAL | |
| C302 | 105.2 | 43.9 | 915 336100HZVH | CAP-CERAMIC,104Z,1H,Y5V | 100NF,50V,-20 TO 80%,-82TO22% | |
| C303 | 89.4 | 38.5 | 915 336100HZVH | CAP-CERAMIC,104Z,1H,Y5V | 100NF,50V,-20 TO 80%,-82TO22% | |
| C304 | 103.8 | 53.3 | 917 874100FMAH | CAP-AL.ELEC,108M,1V,105C | (T)1000UF,35V,20%,R-RADIAL | |
| C305 | 109.8 | 43.9 | 915 336100HZVH | CAP-CERAMIC,104Z,1H,Y5V | 100NF,50V,-20 TO 80%,-82TO22% | |
| C306 | 117.5 | 72.5 | 915 323470HKPH | CAP-CERAMIC,471K,1H,Y5P | 470PF,50V,10%,10%,Y5P,DISC-RADI | |
| C307 | 118.4 | 59.6 | 917 873330CMAH | CAP-AL.ELEC,337M,1C,105C | (T)330UF,16V,20%,R-RADIAL | |
| C308 | 87.9 | 64.2 | 916 566220JJAH | CAP-MPETP,224J,1J,5P | (T)63V 224J | |
| C310 | 61.3 | 15.7 | 916 165330LKAH | CAP-MYLAR,333K,2A,5P | (T)100V 333K | |
| C311 | 33.5 | 106.6 | 915 325100HZVH | CAP-CERAMIC,103Z,1H,Y5V | 10NF,50V,-20 TO 80%,-80TO30%,Y5 | |
| C312 | 97.1 | 120.5 | 917 221330HMAH | CAP-AL.NP-ELEC,335M,1H,6X11 | (T)50V 3.3M | |
| C313 | 29.8 | 42.9 | 916 566220JJAH | CAP-MPETP,224J,1J,5P | (T)63V 224J | |
| C314 | 29 | 46.3 | 917 120470HM | CAP-AL.ELEC,474M,1H | (T)50V 0.47M | |
| C315 | 28.5 | 38.1 | 917 123100CM | CAP-AL.ELEC,107M,1C | (T)16V 100M | |
| C316 | 43.6 | 36.9 | 916 164100LJAH | CAP-MYLAR,102J,2A,5P | (T)100V 102J | |
| C317 | 89.9 | 47.7 | 917 863100FMAH | CAP-AL.ELEC,107M,1V,6.3x11 | (T)100UF,35V,20%,R-RADIAL | |
| C318 | 51.9 | 40.1 | 915 336100HZVH | CAP-CERAMIC,104Z,1H,Y5V | 100NF,50V,-20 TO 80%,-82TO22% | |
| C333 | 101.5 | 127.4 | 916 567100JKAH | CAP-MPETP,105K,1J,5P | (T)63V 105K | |
| C334 | 116.3 | 75.6 | 916 165470LJAH | CAP-MYLAR,473J,2A,5P | (T)100V 473J | |
| C401 | 64.8 | 64.4 | 916 165220LJAH | CAP-MYLAR,223J,2A,5P | (T)100V 223J | |
| C402 | 69.9 | 75 | 915 163470LJXH | CAP-CERAMIC,471J,2A,MONO | 470PF,100V,5%,NPO,RE-RADIAL,DIP | |
| C403 | 61.4 | 75.1 | 917 723100CM | CAP-AL.ELEC,107M,1C | (T)16V 100M | |
| C404 | 69.5 | 67.5 | 917 122100CM | CAP-AL.ELEC,106M,1C | (T)10UF,16V,20%,R-RADIAL,GP,5MM | |
| C405 | 53.1 | 69.8 | 915 163680HJXH | CAP-CERAMIC,681J,1H,MONO | 680pF,50V,5%,COG,RE-RADIAL | |
| C406 | 52.8 | 77.5 | 916 565100LKAH | CAP-MPETP,103K,2A,5P | (T)100V 103K | |
| C407 | 44.6 | 71 | 916 585220LJAX | CAP-MPETP,223J,2A | (T)100V 223J | |
| C408 | 48.9 | 72.3 | 917 121470HM | CAP-AL.ELEC,475M,1H | (T)50V 4.7M | |
| C409 | 33.6 | 74.7 | 916 567100JKAH | CAP-MPETP,105K,1J,5P | (T)63V 105K | |
| C410 | 71.1 | 84.5 | 917 122100CM | CAP-AL.ELEC,106M,1C | (T)10UF,16V,20%,R-RADIAL,GP,5MM | |
| C411 | 39.7 | 75.3 | 915 325100HZVH | CAP-CERAMIC,103Z,1H,Y5V | 10NF,50V,-20 TO 80%,-80TO30%,Y5 | |
| C412 | 22.4 | 73.3 | 917 873100FMAH | CAP-AL.ELEC,107M,1E,105C | (T)100UF,25V,20%,R-RADIAL | |
| C413 | 25.4 | 70.3 | 915 325100HZVH | CAP-CERAMIC,103Z,1H,Y5V | 10NF,50V,-20 TO 80%,-80TO30%,Y5 | |
| C414 | 113.4 | 197.3 | 915 336100HZVH | CAP-CERAMIC,104Z,1H,Y5V | 100NF,50V,-20 TO 80%,-82TO22% | |
| C415 | 33.7 | 70.8 | 915 336100HZVH | CAP-CERAMIC,104Z,1H,Y5V | 100NF,50V,-20 TO 80%,-82TO22% | |
| C416 | 112 | 188.7 | 916 165270LJAH | CAP-MYLAR,273J,2A,5P | (T)100V 273J | |
| C417 | 207 | 168.3 | 915 164100LJXH | CAP-CERAMIC,102J,2A,MONO | 1NF,100V,5%,NPO,RE-RADIAL,DIPPE | |
| C418 | 179.7 | 164.2 | 917 873100FMAH | CAP-AL.ELEC,107M,1E,105C | (T)100UF,25V,20%,R-RADIAL | |
| C419 | 174.8 | 214.9 | 916 585220LJAX | CAP-MPETP,223J,2A | (T)100V 223J | |
| C420 | 186.2 | 196.3 | 917 312330DK | CAP-TANTAL,336K,1D | (T)33UF,20V,10%,DIP-RADIAL,5MM | |
| C421 | 179.2 | 195.4 | 917 312330DK | CAP-TANTAL,336K,1D | (T)33UF,20V,10%,DIP-RADIAL,5MM | |
| C422 | 183.7 | 190.3 | 917 312330DK | CAP-TANTAL,336K,1D | (T)33UF,20V,10%,DIP-RADIAL,5MM | |
| C423 | 94.8 | 177.1 | 915 265100HJXH | CAP-CERAMIC,103J,1H,MONO | 10NF,50V,5%,X7R,RE-RADIAL,DIPPE | |
| C424 | 123.6 | 184.3 | 916 164330LJAH | CAP-MYLAR,332J,2A,5P | (T)100V 332J | |
| C425 | 148.3 | 149.2 | 915 325100VZVH | CAP-CERAMIC,103Z,2H,DISC | 10NF,500V,80-20%,Y5V,RADIAL | |
| C426 | 114.1 | 161.9 | 915 313100HJXH | CAP-CERAMIC,101J,1H,NPO | 100PF,50V,5%,-,NPOPPM,NPO | |
| C427 | 151 | 198.5 | 915 323100YKPH | CAP-CERAMIC,101K,3D,Y5P | 100PF,2KV,10%,10%,Y5P | |
| C428 | 160.8 | 198.6 | 915 324100XKPH | CAP-CERAMIC,102K,3A,DISC | 1NF,1KV,10%,Y5P,DISC-RADIAL | ● |
| C429 | 186.7 | 226.8 | 916 944250ZJAL | CAP-MPE/PP,252J,3E,12P | 2.5KV 5%,RE-RADIAL | ● |
| C430 | 185.5 | 218.4 | 916 354200YJAL | CAP-PPF,202J,3C,7.5P | 2NF,1.6KV,5%,RE-RADIAL | |
| C431 | 190.5 | 210.9 | 916 944300YJAH | CAP-MPE/PPF,302J,3C,20P | 2NF,1.6KV,5%,RE-RADIAL | |
| C432 | 98 | 204.7 | 916 566220JJAH | CAP-MPETP,224J,1J,5P | (T)63V 224J | |

(⚠ : Caution, ● : Specialty part for this monitor only, ⚡ : ESD Caution)

| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|-------|----------------|-----------------------------|---------------------------------|---------|
| C433 | 87.2 | 175.3 | 917 873100EMAH | CAP-AL.ELEC,107M,1E,105C | (T)100UF,25V,20%,R-RADIAL | |
| C434 | 167.6 | 228.1 | 915 324100VKPH | CAP-CERAMIC,102K,2H,Y5P | 1NF,500V,20%,10%,Y5P,DISC-RADIA | ● |
| C435 | 62.3 | 239.1 | 916 356150QJAX | CAP-PPF,154J,2E,20P | 150NF,250V,5%,RE-RADIAL | ● |
| C436 | 36.6 | 239 | 916 356120QJAL | CAP-PPF,124J,2E,7.5P | 120NF,250V 5%,RE-RADIAL | ● |
| C437 | 22.1 | 239.1 | 916 656680QJAH | CAP-MPPF,684J,2E,20P | 680NF,250V,5%,RE-RADIAL | ● |
| C438 | 30 | 239.1 | 916 656560QJAX | CAP-MPPF,564J,2E | 250V 564J(22P) | ● |
| C439 | 46.3 | 239.1 | 916 656220QJAL | CAP-MPPF,224J,2E,7.5P | 250V ,250V,5%,RE-RADIAL | ● |
| C440 | 54.2 | 239.1 | 916 656120QJAH | CAP-MPPF,124J,2E, | 250V 124J | ● |
| C441 | 70 | 238.8 | 916 656100QJAL | CAP-MPPF,104J,2G,12.5P | 250V 104J | ● |
| C442 | 72.8 | 219.3 | 916 355100WJAL | CAP-PPF,103J,2J,7.5P | (T)630V 103J | |
| C443 | 27 | 205.4 | 915 325100HZVH | CAP-CERAMIC,103Z,1H,Y5V | 10NF,50V,-20 TO 80%,-80TO30%,Y5 | |
| C444 | 33.3 | 206.4 | 915 325100HZVH | CAP-CERAMIC,103Z,1H,Y5V | 10NF,50V,-20 TO 80%,-80TO30%,Y5 | |
| C445 | 47.6 | 209.2 | 915 325100HZVH | CAP-CERAMIC,103Z,1H,Y5V | 10NF,50V,-20 TO 80%,-80TO30%,Y5 | |
| C446 | 52.9 | 210.3 | 915 325100HZVH | CAP-CERAMIC,103Z,1H,Y5V | 10NF,50V,-20 TO 80%,-80TO30%,Y5 | |
| C447 | 63.6 | 206.1 | 915 325100HZVH | CAP-CERAMIC,103Z,1H,Y5V | 10NF,50V,-20 TO 80%,-80TO30%,Y5 | |
| C448 | 107.1 | 197.7 | 917 742470EM | CAP-AL.ELEC,476M,1E,105 C | (T)25V 47M | |
| C449 | 121.8 | 214.8 | 916 555220QJAL | CAP-MPETP,223J,2E,7.5P | (T)250V 223J | |
| C450 | 73.6 | 202.2 | 915 325100HZVH | CAP-CERAMIC,103Z,1H,Y5V | 10NF,50V,-20 TO 80%,-80TO30%,Y5 | |
| C451 | 182.8 | 157.3 | 916 165470TKAX | CAP-MYLAR,473K,2G | 400V 473K | |
| C452 | 227.5 | 142 | 915 324100VKPH | CAP-CERAMIC,102K,2H,Y5P | 1NF,500V,20%,10%,Y5P,DISC-RADIA | |
| C453 | 233.1 | 158 | 916 164390LKAH | CAP-MYLAR,392K,2A,5P | (T)100V 392K | |
| C454 | 246 | 158.9 | 917 122330CM | CAP-AL.ELEC,336M,1C | (T)16V 33M | |
| C455 | 42.1 | 106.7 | 916 566220JJAH | CAP-MPETP,224J,1J,5P | (T)63V 224J | |
| C456 | 84.4 | 147.6 | 915 313100HJXH | CAP-CERAMIC,101J,1H,NPO | 100PF,50V,5%,NPOPPM,NPO | |
| C457 | 52.3 | 109.7 | 917 121330HM | CAP-AL.ELEC,335M,1H | (T)50V 3.3M | |
| C458 | 54.5 | 93 | 916 566220JJAH | CAP-MPETP,224J,1J,5P | (T)63V 224J | |
| C459 | 97.9 | 113.6 | 916 567100JKAH | CAP-MPETP,105K,1J,5P | (T)63V 105K | |
| C460 | 109.8 | 177.4 | 917 122100EM | CAP-AL.ELEC,106M,1E | (T)25V 10M | |
| C461 | 75.3 | 148.4 | 915 336100HZVH | CAP-CERAMIC,104Z,1H,Y5V | 100NF,50V,-20 TO 80%,-82TO22% | |
| C477 | 156.2 | 224.8 | 915 323100VKPH | CAP-CERAMIC,101K,2H,Y5P | 100PF,500V,10%,Y5P,DISC-RAD | |
| C501 | 271.2 | 118.7 | 917 122470EM | CAP-AL.ELEC,476M,1E | (T)25V 47M | |
| C502 | 254.2 | 124.2 | 915 163470LJXH | CAP-CERAMIC,471J,2A,MONO | 470PF,100V,5%,NPO,RE-RADIAL,DIP | |
| C503 | 277.5 | 182.1 | 917 312330DK | CAP-TANTAL,336K,1D | (T)33UF,20V,10%,DIP-RADIAL,5MM | |
| C504 | 287.5 | 141.5 | 916 354100ZKAL | CAP-PPF,102K,3D,17.5P | 2KV 102K | |
| C505 | 270.2 | 188.2 | 917 872470QM | CAP-AL.ELEC,476M,2E,105C | (T)250V 47M | |
| C506 | 272.5 | 162.5 | 916 656330TJAX | CAP-MPPF,334J,2G | 400V 334J | |
| C507 | 294.1 | 213.8 | 917 123100CM | CAP-AL.ELEC,107M,1C | (T)16V 100M | |
| C508 | 288.8 | 222.9 | 917 123100CM | CAP-AL.ELEC,107M,1C | (T)16V 100M | |
| C509 | 292.3 | 220 | 917 121330HM | CAP-AL.ELEC,335M,1H | (T)50V 3.3M | |
| C510 | 293.3 | 225.8 | 917 742150FM | CAP-AL.ELEC,156M,1V,105C | (T)35V 15M | |
| C511 | 296.7 | 210.3 | 917 122470CM | CAP-AL.ELEC,476M,1C | (T)16V 47M | |
| C512 | 300.6 | 184.4 | 917 742470FM | CAP-AL.ELEC,476M,1V,105C | (T)35V 47M | |
| C513 | 211 | 161.9 | 917 872100QM | CAP-AL.ELEC,106M,2E,105C | (T)250V 10M | |
| C514 | 279.2 | 229.3 | 916 566100JJAH | CAP-MPETP,104J,1J,5P | (T)63V 104J | |
| C515 | 296.3 | 239.4 | 917 121330HM | CAP-AL.ELEC,335M,1H | (T)50V 3.3M | |
| C516 | 223.8 | 233.4 | 917 863100FMAH | CAP-AL.ELEC,107M,1V,6.3x11 | (T)100UF,35V,20%,R-RADIAL | ● |
| C517 | 231.7 | 228.8 | 917 122100EM | CAP-AL.ELEC,106M,1E | (T)25V 10M | |
| C518 | 299.2 | 171.5 | 916 585220LJAX | CAP-MPETP,223J,2A | (T)100V 223J | |
| C519 | 297.6 | 201.8 | 917 741680HM | CAP-AL.ELEC,685M,1H,105C | (T)50V 6.8M | |
| C601 | 266 | 44.2 | 918 146470QK | CAP-MPAPER,474K,250VAC | 470NF,250VAC,10%,X2,RE-RAD,25.4 | ⚡ |
| C602 | 293 | 33.3 | 918 144470QM | CAP-MPAPER,472M,250VAC | 4.7NF,250VAC,20%,Y,RE-RADI,10.2 | ⚡ |
| C603 | 292.9 | 49.4 | 918 144470QM | CAP-MPAPER,472M,250VAC | 4.7NF,250VAC,20%,Y,RE-RADI,10.2 | ⚡ |
| C604 | 299 | 102.2 | 917 722470CM | CAP-AL.ELEC,476M,1C,6.3X7MM | (T)16V 47M | |
| C605 | 243 | 70.3 | 917 793470QMBX | CAP-AL.ELEC,477M,2E 85 C | (B)250V 470M 85 C | ● |
| C606 | 248.1 | 42.2 | 917 793470QMBX | CAP-AL.ELEC,477M,2E 85 C | (B)250V 470M 85 C | ● |
| C607 | 283.1 | 52.9 | 917 871330UM | CAP-AL.ELEC,335M,2W,105C | (T)450V 3.3M | |

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| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|-------|----------------|-------------------------------|-----------------------------------|---------|
| C608 | 267.2 | 92.9 | 917 873100EMAH | CAP-AL.ELEC,107M.1E,105C | (T)100UF,25V,20%,R-RADIAL | |
| C609 | 251.1 | 89.6 | 916 655470WJAX | CAP-MPPF,473J,2J,15P | 630V 473J | |
| C611 | 264.9 | 64 | 916 166100LJAH | CAP-MYLAR,104J,2A,5P | (T)100V 104J | |
| C613 | 180.2 | 44.6 | 916 166100LJAH | CAP-MYLAR,104J,2A,5P | (T)100V 104J | |
| C614 | 181.8 | 38.8 | 916 164680LJAH | CAP-MYLAR,682J,2A,5P | (T)100V 682J | |
| C615 | 168.2 | 28.7 | 917 123100CM | CAP-AL.ELEC,107M.1C | (T)16V 100M | |
| C616 | 135 | 27.5 | 915 336100HZVH | CAP-CERAMIC,104Z,1H,Y5V | 100NF,50V,-20 TO 80%,-82TO22% | |
| C617 | 134.1 | 42.3 | 917 863470CMAH | CAP-AL.ELEC,477M,1C,8x11.5 | (T)470UF,16V,20%,R-RADIAL | |
| C618 | 161.9 | 29.8 | 915 344470MMVH | CAP-CERAMIC,472M,2B,DISC | 4.7NF,125VAC,20%,Y5V,RADIAL | |
| C619 | 148.3 | 29.7 | 915 344470MMVH | CAP-CERAMIC,472M,2B,DISC | 4.7NF,125VAC,20%,Y5V,RADIAL | |
| C620 | 108.2 | 156.6 | 915 325100HZVH | CAP-CERAMIC,103Z,1H,Y5V | 10NF,50V,-20 TO 80%,-80TO30%,Y5 | |
| C627 | 229.5 | 28.5 | 915 325100YPUX | CAP-CERAMIC,103P,3D,Y5U | 10NF,2KV,-0 TO 100%,-55TO20%,Y5 | |
| C629 | 216.7 | 37.2 | 915 325100HZVH | CAP-CERAMIC,103Z,1H,Y5V | 10NF,50V,-20 TO 80%,-80TO30%,Y5 | |
| C631 | 217.9 | 42.8 | 917 122470EM | CAP-AL.ELEC,476M,1E | (T)25V 47M | |
| C632 | 205.3 | 25 | 917 122470EM | CAP-AL.ELEC,476M,1E | (T)25V 47M | |
| C633 | 143.4 | 55.6 | 915 323100YKPX | CAP-CERAMIC,101K,3D,Y5P | 100PF,2KV,10%,10%,Y5P,DISC-RADIL | ● |
| C634 | 136.2 | 111.1 | 917 873220LMAH | CAP-AL.ELEC,227M.2A,105C | (T)220UF,100V,20%,R-RADIAL | |
| C635 | 137.8 | 88.9 | 915 325100VPUX | CAP-CERAMIC,103P,2H,Y5U | 10NF,500V,-0 TO 100%,-55TO20% | |
| C637 | 148.9 | 118.3 | 917 872470QM | CAP-AL.ELEC,476M,2E,105C | (T)250V 47M | |
| C638 | 142.3 | 106.8 | 915 326100VZVH | CAP-CERAMIC,103Z,2H,DISC | 10NF,500V,80-20%,Y5V,RADIAL | |
| C639 | 189.2 | 137.4 | 917 872470QM | CAP-AL.ELEC,476M,2E,105C | (T)250V 47M | |
| C641 | 145.6 | 50.7 | 917 873100JMAH | CAP-AL.ELEC,107M.1J,105C | (T)100UF,63V,20%,R-RADIAL | ● |
| C643 | 166.8 | 114.8 | 917 854220EM | CAP-AL.ELEC,228M.1E,105C | (T)2200UF,25V,20%,R-RADIAL | ● |
| C644 | 167.7 | 106 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| C645 | 185.6 | 117.1 | 917 874100FMAH | CAP-AL.ELEC,108M.1V,105C | (T)1000UF,35V,20%,R-RADIAL | |
| C646 | 179.5 | 110.5 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| C647 | 203.8 | 110.8 | 917 874100CMAH | CAP-AL.ELEC,108M.1C,105C | (T)1000UF,16V,20%,R-RADIAL | ● |
| C648 | 194.2 | 111.8 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| C649 | 204.5 | 100.5 | 917 854220EM | CAP-AL.ELEC,228M.1E,105C | (T)2200UF,25V,20%,R-RADIAL | ● |
| C651 | 190.5 | 103 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| C652 | 201.3 | 90.7 | 917 741470FM | CAP-AL.ELEC,475M,1V,105C | (T)35V 4.7M | |
| C653 | 124.1 | 54 | 917 854220EM | CAP-AL.ELEC,228M.1E,105C | (T)2200UF,25V,20%,R-RADIAL | |
| C656 | 216.1 | 100.9 | 915 324220VKPH | CAP-CERAMIC,222K,2H,Y5P | 2.2NF,500V,10%,10%,Y5P,DISC-RADIL | ● |
| C658 | 232.5 | 100.2 | 917 863470CMAH | CAP-AL.ELEC,477M,1C,8x11.5 | (T)470UF,16V,20%,R-RADIAL | ● |
| C659 | 108.7 | 29.9 | 917 863470CMAH | CAP-AL.ELEC,477M,1C,8x11.5 | (T)470UF,16V,20%,R-RADIAL | ● |
| C660 | 65.7 | 21.9 | 917 874100CMAH | CAP-AL.ELEC,108M.1C,105C | (T)1000UF,16V,20%,R-RADIAL | ● |
| C661 | 117.9 | 32.7 | 917 863470CMAH | CAP-AL.ELEC,477M,1C,8x11.5 | (T)470UF,16V,20%,R-RADIAL | ● |
| C672 | 224.1 | 50.6 | 917 872470EMAH | CAP-AL.ELEC,476M,1E,105C,5x11 | (T)25V 47UF,20%,R-RADIAL | |
| C801 | 38.8 | 11.4 | 917 121330HM | CAP-AL.ELEC,335M,1H | (T)50V 3.3M | |
| C802 | 41 | 26.3 | 917 121100HM | CAP-AL.ELEC,105M,1H | (T)50V 1M | |
| C803 | 21.3 | 28.9 | 917 121100HM | CAP-AL.ELEC,105M,1H | (T)50V 1M | |
| C804 | 59.9 | 22.2 | 917 122100HM | CAP-AL.ELEC,106M,1H | (T)50V 10M | |
| C807 | 50 | 20.5 | 916 566100JJAH | CAP-MPETP,104J,1J,5P | (T)63V 104J | |
| C808 | 20.9 | 14.1 | 915 324100VKPH | CAP-CERAMIC,102K,2H,Y5P | 1NF,500V,20%,10%,Y5P,DISC-RADIA | |
| CF1 | | | 955 460556AAAA | CBF-CONN,ASSY 200MM,3P | M17L/H,51004-03,50011-8 | |
| CF2 | | | 955 460555AAAA | CBF-CONN ASSY,100MM,8P | M17 L?H,51004-08,50011-8 | |
| CN201 | 17.2 | 199.7 | 935 240103JA | CON-BOX HEADER,3P,2MM | 1R,STRAIGHT,SN | ● |
| CN202 | 87.9 | 127 | 955 460509AAAA | CBF-CONN ASSY,430MM,9P | CFA7679,5102,5395-09 | |
| CN203 | 48 | 183.3 | TMP CBF13PIN | CBF-CONN ASSY,250MM,13P | VIDEO,13PIN,CVT4857 | ● |
| CN205 | 31.5 | 167.2 | 935 240102JA | CON-BOX HEADER,2P,2MM | 1R,STRAIGHT,SN | ● |
| CN206 | 59 | 136.8 | 935 240102JA | CON-BOX HEADER,2P,2MM | 1R,STRAIGHT,SN | ● |
| CN301 | 122.3 | 65.2 | 935 220103TE | CON-NOWALL HEADER,3P,1R | STRAIGHT,SN,-9.15MM | |
| CN401 | 143.6 | 208.5 | 935 220103TD | CON-NOWALL HEADER,3P,1R | STRAIGHT,SN,8.0MM,9.1MM | |
| CN402 | 100.7 | 108.3 | 955 460573AAAA | CBF-CONN ASSY,200MM,3P | OSD,CMB,5395-03,G.R.W | ● |
| CN403 | 143.7 | 208.5 | 935 810106AB | AM CON-TERMINAL PIN | RU 03124-700-810 | |
| CN404 | 143.7 | 216.5 | 935 810106AB | AM CON-TERMINAL PIN | RU 03124-700-810 | |

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| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|-------|----------------|---------------------------|---------------------------------|---------|
| CN405 | 143.6 | 226.6 | 935 810106AB | AM CON-TERMINAL PIN | RU 03124-700-810 | |
| CN601 | 306.7 | 77.4 | 935 240903DLSA | CON-WALL HEADER,3P,3.96 | STRAIGHT,1WALL,- | |
| CN602 | 107.9 | 153.1 | 955 460510AAAA | CBF-CONN ASSY,330MM,12P | CFA7679,5102,5395-12 | |
| CN801 | 14.9 | 22.9 | 935 240508JA | CON-BOX HEADER,8P,2MM | 1R,ANGLE,SN | ● |
| CRT GND | | | 955 460557AAAA | CBF-CRT,GND ASSY,CMH7379 | RU:TBC WIRE:3X16X.16,1478,AWG18 | |
| D205 | 5.5 | 195.4 | 893 299004AF | DIODE-ZEN,BZX79C6V2,D035 | 0.5W,-.5MA,-,-,- | |
| D206 | 5.5 | 197.9 | 893 299004AF | DIODE-ZEN,BZX79C6V2,D035 | 0.5W,-.5MA,-,-,- | |
| D301 | 84.1 | 33.3 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D302 | 95.5 | 60.9 | 893 314937AB | DIODE-REC,1N4937,D0-41 | 420V,1A,1.2V,1A,200NS,1A | |
| D303 | 46.3 | 37.3 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D304 | 8.3 | 121.8 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D305 | 10.9 | 121.8 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D401 | 115.1 | 177.4 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D402 | 29.5 | 205.6 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D403 | 139.9 | 147.7 | 893 399044AA | DIODE-REC,UF5404,D0201AD | -,1V,3A,50NS | |
| D404 | 126.6 | 179.3 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D405 | 142.2 | 172.4 | 893 394004AA | DIODE-REC,UF4004,D0-41 | 400V,1A,1V,1A,50NS,0.5A | |
| D406 | 116.8 | 170 | 893 190021AANA | DIODE-SIG,BAV21,D0-35 | 250V,250MA,1V,100MA | |
| D407 | 202.4 | 188.3 | 893 314001AANH | DIODE-REC,1N4001,D0-41 | 50V,1A,1.1V,1A,-,- | |
| D408 | 188.1 | 191.1 | 893 314001AANH | DIODE-REC,1N4001,D0-41 | 50V,1A,1.1V,1A,-,- | |
| D409 | 200 | 194.7 | 893 314002AB | DIODE-REC,1N4002,D0-41 | 70V,1A,1.1V,1A,2000NS,0.5A | |
| D410 | 133.3 | 239.7 | 893 399068AA | AM DIODE-REC,MUR10150E | ST 02169-205-180 | ⚠ |
| D411 | 8.6 | 205.9 | 893 394001AA | DIODE-REC,UF4001,D0-41 | 50V,1A,1V,1A,50NS,0.5A | |
| D412 | 79.7 | 225.6 | 893 314937AB | DIODE-REC,1N4937,D0-41 | 420V,1A,1.2V,1A,200NS,1A | |
| D413 | 84.5 | 236.6 | 893 314937AB | DIODE-REC,1N4937,D0-41 | 420V,1A,1.2V,1A,200NS,1A | |
| D414 | 100.8 | 196.5 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D417 | 36.5 | 206.7 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D418 | 42.6 | 209.2 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D419 | 50.5 | 209.5 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D420 | 60.4 | 206.6 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D421 | 220.2 | 149.1 | 893 394007AA | AM DIODE-REC,UF4007,D0-41 | ST 02169-218-100 | |
| D422 | 243.8 | 155.6 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D423 | 72.5 | 193.3 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D501 | 262.3 | 177.7 | 893 314001AANH | DIODE-REC,1N4001,D0-41 | 50V,1A,1.1V,1A,-,- | |
| D502 | 271.6 | 166.2 | 893 314001AANH | DIODE-REC,1N4001,D0-41 | 50V,1A,1.1V,1A,-,- | |
| D503 | 280.8 | 174.5 | 893 314002AB | DIODE-REC,1N4002,D0-41 | 70V,1A,1.1V,1A,2000NS,0.5A | |
| D505 | 291.5 | 167.4 | 893 399068AA | AM DIODE-REC,MUR10150E | ST 02169-205-180 | ⚠ |
| D506 | 277.8 | 134.9 | 893 395408AA | DIODE-REC,UF5408,D0201AD | 1KV,1.5A,1.4V,3A,75nS | |
| D507 | 272.2 | 155 | 893 395408AA | DIODE-REC,UF5408,D0201AD | 1KV,1.5A,1.4V,3A,75nS | |
| D508 | 274.1 | 137.8 | 893 399006AA | AM DIODE-REC,RGP02-12E | T 02169-206-297 | |
| D509 | 280.1 | 159.4 | 893 394004AA | DIODE-REC,UF4004,D0-41 | 400V,1A,1V,1A,50NS,0.5A | |
| D510 | 217.8 | 172.9 | 893 314937AB | DIODE-REC,1N4937,D0-41 | 420V,1A,1.2V,1A,200NS,1A | |
| D511 | 305.4 | 234.9 | 893 314002AB | DIODE-REC,1N4002,D0-41 | 70V,1A,1.1V,1A,2000NS,0.5A | |
| D512 | 294.4 | 231.8 | 893 314002AB | DIODE-REC,1N4002,D0-41 | 70V,1A,1.1V,1A,2000NS,0.5A | |
| D513 | 220.4 | 228.4 | 893 314937AB | DIODE-REC,1N4937,D0-41 | 420V,1A,1.2V,1A,200NS,1A | |
| D515 | 290 | 206 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D601 | 254.2 | 73.6 | 893 399012AA | DIODE-REC,KBL06,BRIDGE | 420V,4A,1.1V,4A,-,- | ⚠ |
| D602 | 295.7 | 99.4 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D603 | 276.7 | 51.9 | 893 314007BA | DIODE-REC,1N4007GP,D0-41 | 1000V,1A,1.1V,1A,2uS | |
| D605 | 185.4 | 50.4 | 893 394004AA | DIODE-REC,UF4004,D0-41 | 400V,1A,1V,1A,50NS,0.5A | |
| D606 | 172.7 | 20.5 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D607 | 192.3 | 29.2 | 893 314002AB | DIODE-REC,1N4002,D0-41 | 70V,1A,1.1V,1A,2000NS,0.5A | |
| D610 | 205.3 | 34.2 | 893 399006AA | AM DIODE-REC,RGP02-12E | ST 02169-206-297 | |
| D612 | 188.9 | 50.4 | 893 394007AA | AM DIODE-REC,UF4007,D0-41 | ST 02169-218-100 | |
| D613 | 149.7 | 36 | 893 399030AA | DIODE-REC,1R5GU41, | -,1.5A,1.2V,1.5A,100NS,1A | |
| D614 | 138.4 | 59.9 | 893 390031AA | DIODE-REC,31DF6,D0201AD | ST :600V,3A,1.25V,10uA400nS | ● |

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| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|-------|----------------|--------------------------|-----------------------------|---------|
| D615 | 157.1 | 88.8 | 893 390031AA | DIODE-REC,31DF6,D0201AD | ST :600V,3A,1.25V,10uA400nS | ● |
| D616 | 149.2 | 108.8 | 893 390031AA | DIODE-REC,31DF6,D0201AD | ST :600V,3A,1.25V,10uA400nS | ● |
| D617 | 144.3 | 80 | 893 399044AA | DIODE-REC,UF5404,D0201AD | -, -,1V,3A,50NS | |
| D618 | 170.4 | 88.3 | 893 399044AA | DIODE-REC,UF5404,D0201AD | -, -,1V,3A,50NS | |
| D619 | 182.2 | 87.7 | 893 399044AA | DIODE-REC,UF5404,D0201AD | -, -,1V,3A,50NS | |
| D620 | 187.6 | 87.6 | 893 399044AA | DIODE-REC,UF5404,D0201AD | -, -,1V,3A,50NS | |
| D621 | 193.3 | 107.5 | 893 399044AA | DIODE-REC,UF5404,D0201AD | -, -,1V,3A,50NS | |
| D623 | 125 | 39.3 | 893 314001AANH | DIODE-REC,1N4001,D0-41 | 50V,1A,1.1V,1A,-,- | |
| D802 | 41 | 12.8 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D803 | 37.6 | 23.8 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| D804 | 51.7 | 26.1 | 893 114148AANM | DIODE-SIG,1N4148,D0-35 | 75V,150MA,1V,10MA | |
| EL1 | 233 | 70.3 | 857 120032AB | EYELET | EYELET 2.2 HOLE 3.0 PAD 5.0 | |
| EL2 | 243 | 70.3 | 857 120032AB | EYELET | EYELET 2.2 HOLE 3.0 PAD 5.0 | |
| EL3 | 248.1 | 42.2 | 857 120032AB | EYELET | EYELET 2.2 HOLE 3.0 PAD 5.0 | |
| EL4 | 248.1 | 32.2 | 857 120032AB | EYELET | EYELET 2.2 HOLE 3.0 PAD 5.0 | |
| EL5 | 304.9 | 46.9 | 857 120032AB | EYELET | EYELET 2.2 HOLE 3.0 PAD 5.0 | |
| EL6 | 304.8 | 26.3 | 857 120032AB | EYELET | EYELET 2.2 HOLE 3.0 PAD 5.0 | |
| EL7 | | | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY1 | 22.1 | 239.2 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY2 | 62.3 | 239.1 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY3 | 79.9 | 217.4 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY4 | 97.3 | 217.4 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY5 | 123 | 226.1 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY6 | 134.2 | 226 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY7 | 156 | 214.8 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY8 | 163.4 | 203.8 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY9 | 181.6 | 240 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY10 | 229.7 | 172.5 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY11 | 254.7 | 182.3 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY12 | 248.7 | 199.3 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY13 | 229.7 | 201.5 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY14 | 215 | 205.7 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY15 | 209 | 205.7 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY16 | 253.6 | 218 | 857 120032AB | EYELET | EYELET 2.2 HOLE 3.0 PAD 5.0 | |
| EY17 | 264.1 | 217.9 | 857 120032AB | EYELET | EYELET 2.2 HOLE 3.0 PAD 5.0 | |
| EY18 | 296.5 | 167.4 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY19 | 151.7 | 56.7 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY20 | 191.7 | 56.8 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY21 | 191.7 | 81.7 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY22 | 151.7 | 81.7 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY23 | 203.3 | 44.2 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY24 | 239.6 | 13.9 | 857 120032AB | EYELET | EYELET 2.2 HOLE 3.0 PAD 5.0 | |
| EY25 | 251.7 | 14.1 | 857 120032AB | EYELET | EYELET 2.2 HOLE 3.0 PAD 5.0 | |
| EY26 | 245.4 | 18.4 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY27 | 245.4 | 9.5 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY28 | 284.4 | 67.1 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY29 | 284.5 | 32.2 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY30 | 267.5 | 17.2 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY31 | 112.2 | 13 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY32 | 130.3 | 13 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY45 | 264.1 | 217.9 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY46 | 253.6 | 218.0 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| EY48 | 97.3 | 217.4 | 857 120032AA | EYELET | EYELET 1.5 HOLE 2.2 PAD 4.0 | |
| FG601 | | | 949 115105THNA | FUSE-CERA TUB,3.15A,250V | TIME-LAG,5X20MM,NON | |
| FH601 | 274.6 | 7.9 | 953 260023BC | FUSE-CLIP,5.2X20,30MOHM | 800GF,400-800GF | |
| HIC401 | 92.3 | 180.4 | 887 490046AA | IC-HYB,HS17H,9P | IC-HYB,CMH7379,SIZE, CONT | ● ⚠ ⚡ |

(⚠ : Caution, ● : Specialty part for this monitor only, ⚡ : ESD Caution)




| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|-------|----------------|----------------------------|---------------------------------|---------|
| HIC501 | 301.3 | 228.2 | 887 490047AA | MV17H,10P | IC-HYB,CMH7379,H/V,REGUL | ● ⚠ ⚠ |
| HIC601 | 220.2 | 59.9 | 887 490044AA | IC-HYB,POWER,CMH7379 | MP17H,14P,HIS0161A(MP17H) | ● ⚠ ⚠ |
| HS301 | 75.7 | 20 | 831 513022AA | H/SINK-IC | HEAT-SINK(IC) | |
| HS406 | 131.9 | 188.3 | 831 513021AA | H/SINK-TR | HEAT-SINK(TR) | |
| HS407 | 285 | 237 | 831 515033AA | ST-A1050S-H14 t2.0 | COM,HEAT-SINK(FBT) | |
| HS408 | 88.6 | 217.4 | 831 511012AC | H/SINK-TR | HEAT-SINK(TR) | |
| HS503 | 291.4 | 152.4 | 831 513021AA | H/SINK-TR | HEAT-SINK(TR) | |
| HS601 | 130.2 | 13 | 831 512007AA | H/SINK-DIODE | HEAT-SINK(DIODE) | |
| HS602 | 269.3 | 94 | 831 513023AA | H/SINK-TR | HEAT-SINK(TR) | |
| HS603 | 200.2 | 18 | 831 515030AA | H/SINK-TR | HEAT-SINK(TR) | |
| IC201 | 24.5 | 148.8 | 877 307271AA | IC-CUS,ST7271A,CONTROLLER | DIP,56,8MHz,88it | ● ⚠ ⚠ |
| IC202 | 89 | 140.5 | 881 307045TA | IC-LIN,7045,REGULATOR | TO-92,3,-,+.45V | ⚠ ⚠ |
| IC301 | 84.6 | 60.8 | 881 708172SA | IC-LIN,8172,VERTICAL | -,7,-,- | ⚠ ⚠ |
| IC401 | 61.6 | 65.1 | 881 709103AA | IC-LIN,9103,H/V CONTROLLER | POS,SIZE,PARA,XRAY,H/V REG. CON | ● ⚠ ⚠ |
| IC402 | 229.9 | 157.2 | 881 300431TANB | IC-LIN,431,REGULATOR | TO-92,3,-,36V(T)-SIMPLE | ⚠ ⚠ |
| IC403 | 89 | 109.7 | 881 104558AA | IC-LIN,4558,OP AMP | DIP,8,DUAL | ● ⚠ ⚠ |
| IC404 | 84.9 | 206.8 | 881 102006AA | IC-LIN,2006,AUDIO AMP | PENTAWATT,5P,SINGLE | ● ⚠ ⚠ |
| IC405 | 58.9 | 105 | 881 100358AANA | IC-LIN,358,OP AMP | DIP,8,DUAL | ⚠ ⚠ |
| IC406 | 45 | 103.8 | 873 404066AANH | IC-MOS,4066,SWITCH | DIP,14,300MIL,QUAD | ⚠ ⚠ |
| IC601 | 124.5 | 22.5 | 881 308138SA | IC-LIN,8138A,REGULATOR | HEPTAWATT,7,-,5.1V/12V | ⚠ ⚠ |
| IC602 | 263 | 83.4 | 887 490018AA | IC-HYB,CSG-9511,AMP | ST : | ⚠ ⚠ |
| IC603 | 166.5 | 10.5 | 887 490042AA | IC-HYB,CFA7679,VIDEO-AMP | STR17006 | ⚠ ⚠ |
| BASIC | 14.7 | 136.4 | 955 005001AAAB | JUMPER | JUMPER | |
| JP121 | 247.5 | 103.4 | 955 005001AAAB | JUMPER | JUMPER | |
| JP126 | 64.1 | 47.6 | 955 005001AAAB | JUMPER | JUMPER | |
| JP127 | 138.7 | 122.3 | 955 005001AAAB | JUMPER | JUMPER | |
| JP128 | 138.7 | 124.9 | 955 005001AAAB | JUMPER | JUMPER | |
| JP131 | 64.7 | 189 | 955 005001AAAB | JUMPER | JUMPER | |
| JP132 | 57.2 | 189.3 | 955 005001AAAB | JUMPER | JUMPER | |
| JP134 | 25 | 31.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP135 | 58.6 | 19.4 | 955 005001AAAB | JUMPER | JUMPER | |
| JP137 | 114 | 22.5 | 955 005001AAAB | JUMPER | JUMPER | |
| JP139 | 67.2 | 16.4 | 955 005001AAAB | JUMPER | JUMPER | |
| JP145 | 45.3 | 123.1 | 955 005001AAAB | JUMPER | JUMPER | |
| JP146 | 62.3 | 189 | 955 005001AAAB | JUMPER | JUMPER | |
| JP147 | 67.2 | 189 | 955 005001AAAB | JUMPER | JUMPER | |
| JP148 | 59.7 | 189.1 | 955 005001AAAB | JUMPER | JUMPER | |
| JP157 | 103.2 | 196.9 | 955 005001AAAB | JUMPER | JUMPER | |
| JP158 | 215.8 | 90.6 | 955 005001AAAB | JUMPER | JUMPER | |
| JP159 | 210 | 101.5 | 955 005001AAAB | JUMPER | JUMPER | |
| JP162 | 217 | 142.2 | 955 005001AAAB | JUMPER | JUMPER | |
| JP163 | 204.7 | 60.9 | 955 005001AAAB | JUMPER | JUMPER | |
| JP164 | 201.4 | 60.9 | 955 005001AAAB | JUMPER | JUMPER | |
| JP165 | 21.7 | 205.9 | 955 005001AAAB | JUMPER | JUMPER | |
| JP169 | 84.2 | 199.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP170 | 86.6 | 198.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP171 | 29.7 | 179.8 | 955 005001AAAB | JUMPER | JUMPER | |
| JP172 | 18 | 176.9 | 955 005001AAAB | JUMPER | JUMPER | |
| JP177 | 102 | 148.4 | 955 005001AAAB | JUMPER | JUMPER | |
| JP178 | 75.6 | 145 | 955 005001AAAB | JUMPER | JUMPER | |
| JP179 | 127.1 | 139.5 | 955 005001AAAB | JUMPER | JUMPER | |
| JP180 | 109 | 137.3 | 955 005001AAAB | JUMPER | JUMPER | |
| JP181 | 89.5 | 130 | 955 005001AAAB | JUMPER | JUMPER | |
| JP182 | 94.1 | 133.2 | 955 005001AAAB | JUMPER | JUMPER | |
| JP183 | 105.8 | 130.6 | 955 005001AAAB | JUMPER | JUMPER | |
| JP184 | 128.9 | 143 | 955 005001AAAB | JUMPER | JUMPER | |






(⚠ : Caution, ● : Specialty part for this monitor only, ⚡ : ESD Caution)

| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|-------|----------------|-------------|---------------|---------|
| JP185 | 138.8 | 139.8 | 955 005001AAAB | JUMPER | JUMPER | |
| JP186 | 139 | 128.4 | 955 005001AAAB | JUMPER | JUMPER | |
| JP187 | 130.9 | 126.6 | 955 005001AAAB | JUMPER | JUMPER | |
| JP188 | 117.3 | 121.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP190 | 114.9 | 98.9 | 955 005001AAAB | JUMPER | JUMPER | |
| JP191 | 113.3 | 86.4 | 955 005001AAAB | JUMPER | JUMPER | |
| JP192 | 131.2 | 92.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP194 | 123 | 105 | 955 005001AAAB | JUMPER | JUMPER | |
| JP195 | 115 | 90.1 | 955 005001AAAB | JUMPER | JUMPER | |
| JP196 | 134.4 | 99.8 | 955 005001AAAB | JUMPER | JUMPER | |
| JP198 | 84.4 | 118.9 | 955 005001AAAB | JUMPER | JUMPER | |
| JP199 | 77.9 | 113.8 | 955 005001AAAB | JUMPER | JUMPER | |
| JP200 | 68 | 107.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP201 | 48.6 | 105.4 | 955 005001AAAB | JUMPER | JUMPER | |
| JP202 | 64.8 | 105.1 | 955 005001AAAB | JUMPER | JUMPER | |
| JP203 | 75 | 93.5 | 955 005001AAAB | JUMPER | JUMPER | |
| JP204 | 47.9 | 86.1 | 955 005001AAAB | JUMPER | JUMPER | |
| JP208 | 24.3 | 65.1 | 955 005001AAAB | JUMPER | JUMPER | |
| JP212 | 9.1 | 38 | 955 005001AAAB | JUMPER | JUMPER | |
| JP213 | 145.3 | 106.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP215 | 178.9 | 93.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP216 | 143.5 | 69.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP217 | 198.9 | 46 | 955 005001AAAB | JUMPER | JUMPER | |
| JP218 | 189.3 | 35.1 | 955 005001AAAB | JUMPER | JUMPER | |
| JP219 | 181.4 | 18 | 955 005001AAAB | JUMPER | JUMPER | |
| JP220 | 215.4 | 19.4 | 955 005001AAAB | JUMPER | JUMPER | |
| JP223 | 280.2 | 75.1 | 955 005001AAAB | JUMPER | JUMPER | |
| JP224 | 276.5 | 69.2 | 955 005001AAAB | JUMPER | JUMPER | |
| JP225 | 269.3 | 75.3 | 955 005001AAAB | JUMPER | JUMPER | |
| JP226 | 179.2 | 149.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP227 | 197.6 | 124.3 | 955 005001AAAB | JUMPER | JUMPER | |
| JP228 | 243.7 | 109.3 | 955 005001AAAB | JUMPER | JUMPER | |
| JP229 | 242.2 | 140.8 | 955 005001AAAB | JUMPER | JUMPER | |
| JP230 | 207 | 160.3 | 955 005001AAAB | JUMPER | JUMPER | |
| JP231 | 98.4 | 177 | 955 005001AAAB | JUMPER | JUMPER | |
| JP232 | 100.8 | 177.4 | 955 005001AAAB | JUMPER | JUMPER | |
| JP233 | 114.1 | 159.3 | 955 005001AAAB | JUMPER | JUMPER | |
| JP236 | 218.5 | 233.5 | 955 005001AAAB | JUMPER | JUMPER | |
| JP237 | 218.6 | 231 | 955 005001AAAB | JUMPER | JUMPER | |
| JP238 | 174.6 | 236.5 | 955 005001AAAB | JUMPER | JUMPER | |
| JP239 | 178.1 | 204.8 | 955 005001AAAB | JUMPER | JUMPER | |
| JP241 | 133.9 | 206.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP242 | 150 | 218.4 | 955 005001AAAB | JUMPER | JUMPER | |
| JP243 | 118 | 219.8 | 955 005001AAAB | JUMPER | JUMPER | |
| JP244 | 172.2 | 188.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP245 | 158.9 | 161.9 | 955 005001AAAB | JUMPER | JUMPER | |
| JP246 | 159 | 159.1 | 955 005001AAAB | JUMPER | JUMPER | |
| JP247 | 164.1 | 146 | 955 005001AAAB | JUMPER | JUMPER | |
| JP248 | 114.2 | 27.3 | 955 005001AAAB | JUMPER | JUMPER | |
| JP250 | 76.8 | 64.4 | 955 005001AAAB | JUMPER | JUMPER | |
| JP254 | 16.1 | 61.8 | 955 005001AAAB | JUMPER | JUMPER | |
| JP255 | 27.3 | 95.9 | 955 005001AAAB | JUMPER | JUMPER | |
| JP256 | 80.1 | 28.1 | 955 005001AAAB | JUMPER | JUMPER | |
| JP257 | 73.1 | 30.4 | 955 005001AAAB | JUMPER | JUMPER | |
| JP258 | 54.6 | 40.3 | 955 005001AAAB | JUMPER | JUMPER | |

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| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|-------|----------------|------------------------------|----------------------------|---------|
| JP260 | 305.1 | 62 | 955 005001AAAB | JUMPER | JUMPER | |
| JP261 | 305.1 | 59.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP262 | 176.8 | 236.5 | 955 005001AAAB | JUMPER | JUMPER | |
| JP263 | 117.5 | 118.5 | 955 005001AAAB | JUMPER | JUMPER | |
| JP264 | 84.5 | 121.4 | 955 005001AAAB | JUMPER | JUMPER | |
| JP265 | 136.6 | 217.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP266 | 240.8 | 95.3 | 955 005001AAAB | JUMPER | JUMPER | |
| JP269 | 78 | 159.1 | 955 005001AAAB | JUMPER | JUMPER | |
| JP271 | 79.8 | 190.1 | 955 005001AAAB | JUMPER | JUMPER | |
| JP276 | 25.6 | 109.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP277 | 25.7 | 107.3 | 955 005001AAAB | JUMPER | JUMPER | |
| JP278 | 114.2 | 96.4 | 955 005001AAAB | JUMPER | JUMPER | |
| JP280 | 102.4 | 155.3 | 955 005001AAAB | JUMPER | JUMPER | |
| JP281 | 19.1 | 164.3 | 955 005001AAAB | JUMPER | JUMPER | |
| JP282 | 13.4 | 148.8 | 955 005001AAAB | JUMPER | JUMPER | |
| JP283 | 13.5 | 200.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP285 | 118 | 221.9 | 955 005001AAAB | JUMPER | JUMPER | |
| JP286 | 139 | 159.6 | 955 005001AAAB | JUMPER | JUMPER | |
| JP288 | 251.7 | 21.5 | 955 005001AAAB | JUMPER | JUMPER | |
| JP289 | 36.4 | 93.9 | 955 005001AAAB | JUMPER | JUMPER | |
| JP290 | 96.1 | 158.1 | 955 005001AAAB | JUMPER | JUMPER | |
| JP291 | 304 | 156.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP292 | 14.4 | 49.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP293 | 13.4 | 47.1 | 955 005001AAAB | JUMPER | JUMPER | |
| L401 | 134.1 | 222.5 | 925 460193DA | COIL-CHOKE,7.5mH | DR14X20MM,370,5T,6oHM | ● |
| L402 | 163.4 | 214.8 | 925 460194BA | COIL-H,LINEARITY,2.3uH | F:2.3uH,16T,S:54mH,1000T | ● |
| L404 | 159 | 230.1 | 925 460186BA | COIL-PEAKING,22uH | DR 6.5X7.5MM | |
| L405 | 173.1 | 124.9 | 925 001001AN | INDUCTOR-AXIAL,220UH | FIX,220UH,10%,4X10.5MM | |
| L444 | 27.6 | 88.9 | 925 001001AN | INDUCTOR-AXIAL,220UH | FIX,220UH,10%,4X10.5MM | |
| L501 | 279.8 | 185.5 | 925 001001AN | INDUCTOR-AXIAL,220UH | FIX,220UH,10%,4X10.5MM | |
| LC601 | 326.1 | 27.4 | 943 150034BA | FIL-LPF,EMI,250V,3A | 250V,3A,-,2MHZ(300B) | ⚠ |
| LF601 | 284.3 | 17.2 | 925 460148AA | COIL-LINE FILTER | 39UH(25X32) | ⚠ |
| PRIVATE | 12.9 | 143.6 | 955 005001AAAB | JUMPER | JUMPER | |
| PTH601 | 316.3 | 64.1 | 897 110541AA | POSISTOR,14,SQUARE,13.5X17.7 | 20%, -,15~20%/C | ● |
| Q290 | 122.7 | 97 | 891 390006XB | TR-NPN,KSC945,TO-92,EBC | 0.25W,60V,50V,5V,0.15A | |
| Q301 | 82 | 10.1 | 891 323904XANC | TR-NPN,2N3904,TO-92,EBC | 0.625W,60V,40V,6V,0.2A | |
| Q302 | 70.5 | 12.7 | 891 323904XANC | TR-NPN,2N3904,TO-92,EBC | 0.625W,60V,40V,6V,0.2A | |
| Q303 | 7.3 | 234.7 | 891 323904XANC | TR-NPN,2N3904,TO-92,EBC | 0.625W,60V,40V,6V,0.2A | |
| Q304 | 57.9 | 35.5 | 891 390006XB | TR-NPN,KSC945,TO-92,EBC | 0.25W,60V,50V,5V,0.15A | |
| Q333 | 13 | 228.7 | 891 323904XANC | TR-NPN,2N3904,TO-92,EBC | 0.625W,60V,40V,6V,0.2A | |
| Q401 | 196.4 | 163.2 | 891 890610AA | FET-N,IRF610,TO-220AB,GDS | 43W,200V,3.3A | ⚠ |
| Q402 | 19 | 86.9 | 891 390006XB | TR-NPN,KSC945,TO-92,EBC | 0.25W,60V,50V,5V,0.15A | |
| Q403 | 17.9 | 81.5 | 891 190733XC | TR-PNP,KSA733,TO-92,EBC | 0.25W,-60V,-50V,-5V,-0.15A | |
| Q404 | 109.7 | 168.4 | 891 190733XC | TR-PNP,KSA733,TO-92,EBC | 0.25W,-60V,-50V,-5V,-0.15A | |
| Q405 | 119.2 | 178.7 | 891 890606AA | FET-N,VN0606M,TO-237 | 1W,60V,0.47A | |
| Q406 | 130.1 | 183.9 | 891 890740AA | AM FET-N,IRF740,TO-220 | ST 02149-601-441 | ⚠ |
| Q407 | 187 | 240 | 891 499010AA | AM TR-NPN,MJF16212,340B-03 | ST 02149-301-640 | ⚠ |
| Q409 | 27.6 | 209.3 | 891 890021AB | FET-N,IRF640,TO-220AB,GDS | 125W,200V,18A | |
| Q410 | 39.3 | 210.4 | 891 890021AB | FET-N,IRF640,TO-220AB,GDS | 125W,200V,18A | |
| Q411 | 45.3 | 215.9 | 891 890021AB | FET-N,IRF640,TO-220AB,GDS | 125W,200V,18A | |
| Q412 | 57.3 | 214.9 | 891 890021AB | FET-N,IRF640,TO-220AB,GDS | 125W,200V,18A | |
| Q413 | 66.5 | 209.6 | 891 890021AB | FET-N,IRF640,TO-220AB,GDS | 125W,200V,18A | |
| Q414 | 70.6 | 195.9 | 891 391008XA | TR-NPN,KSC1008,TO-92,ECB | 0.8W,80V,60V,8V,0.7A | |
| Q415 | 234.5 | 145.9 | 891 463675AA | TR-NPN,2SC3675,TO-220,BCE | 10W,1500V,900V,5V,0.1A | |
| Q416 | 93.2 | 98.8 | 891 490882AB | TR-NPN,KSD882,TO-126,ECB | 1W,40V,30V,5V,3A | ● |

( : Caution,  : Specialty part for this monitor only,  : ESD Caution)

| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|-------|--------------|----------------------------|---------------------------------|---|
| Q417 | 98.1 | 102.8 | 891 290772AA | TR-PNP,KSB772,TO-126,ECB | 1W,-40V,-30V,-5V,-3A | ● |
| Q418 | 66.5 | 83.8 | 891 390006XB | TR-NPN,KSC945,TO-92,EBC | 0.25W,60V,50V,5V,0.15A | |
| Q501 | 244.4 | 129.8 | 891 890610AA | FET-N,IRF610,TO-220AB,GDS | 43W,200V,3.3A |  |
| Q502 | 288.1 | 182.6 | 891 499010AA | AM TR-NPN,MJF16212,340B-03 | ST 02149-301-640 |  |
| Q503 | 294.4 | 156.7 | 891 890740AA | AM FET-N,IRF740,TO-220 | ST 02149-601-441 |  |
| Q601 | 292.9 | 105.9 | 891 391008XA | TR-NPN,KSC1008,TO-92,ECB | 0.8W,80V,60V,8V,0.7A | |
| Q602 | 174.3 | 51.4 | 891 390006XB | TR-NPN,KSC945,TO-92,EBC | 0.25W,60V,50V,5V,0.15A | |
| Q603 | 203.2 | 38.8 | 891 881358AA | FET-N,2SK1358,TO-3P,GDS | 150W,900V,9A | |
| Q801 | 32.4 | 28.5 | 891 190733XC | TR-PNP,KSA733,TO-92,EBC | 0.25W,-60V,-50V,-5V,-0.15A | |
| Q802 | 55.7 | 31.3 | 891 190733XC | TR-PNP,KSA733,TO-92,EBC | 0.25W,-60V,-50V,-5V,-0.15A | |
| Q803 | 18.1 | 39.2 | 891 390006XB | TR-NPN,KSC945,TO-92,EBC | 0.25W,60V,50V,5V,0.15A | |
| Q804 | 32.6 | 9.4 | 891 390006XB | TR-NPN,KSC945,TO-92,EBC | 0.25W,60V,50V,5V,0.15A | |
| Q805 | 50.5 | 7.8 | 891 390006XB | TR-NPN,KSC945,TO-92,EBC | 0.25W,60V,50V,5V,0.15A | |
| R201 | 22.8 | 174.9 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R202 | 25.3 | 179.3 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL |  |
| R203 | 15.7 | 104.1 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R204 | 96.6 | 132.9 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R205 | 109.7 | 135.3 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R206 | 36.5 | 177.2 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R207 | 38.5 | 180.3 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R208 | 40.9 | 180.1 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R209 | 43.3 | 180.1 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R210 | 45.9 | 180.1 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R211 | 20.5 | 175.7 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R212 | 52 | 179.8 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R213 | 49.3 | 179.8 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R214 | 74.4 | 173.7 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R215 | 76.8 | 173.9 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R216 | 80.3 | 171.1 | 911 174707YA | REF-CF,4.7M,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL |  |
| R218 | 82.4 | 161.6 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R219 | 26 | 145.8 | 911 143907YA | REF-CF,3.9K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R220 | 28.4 | 145 | 911 143907YA | REF-CF,3.9K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R221 | 30.9 | 145 | 911 151807YA | REF-CF,18K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R222 | 33.4 | 145 | 911 153307YA | REF-CF,33K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R223 | 35.9 | 145 | 911 143907YA | REF-CF,3.9K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R224 | 38.4 | 145 | 911 151807YA | REF-CF,18K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R225 | 40.9 | 145 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R226 | 43.4 | 145 | 911 142707YA | REF-CF,2.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R227 | 46 | 144 | 911 143907YA | REF-CF,3.9K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R228 | 48.5 | 144 | 911 143907YA | REF-CF,3.9K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R229 | 53.8 | 145.4 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R230 | 56.2 | 145.7 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R231 | 10.8 | 153.6 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R232 | 13.6 | 153.5 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R233 | 66.5 | 142.9 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R234 | 64 | 142.2 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R235 | 16.1 | 155.7 | 911 143907YA | REF-CF,3.9K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R236 | 69.8 | 141.9 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R237 | 81 | 142.5 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R238 | 66.6 | 146.9 | 911 132207YA | REF-CF,220,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R239 | 25.7 | 113.1 | 911 151507YA | REF-CF,15K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R240 | 30.3 | 113.1 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R241 | 35.2 | 113.1 | 911 153907YA | REF-CF,39K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R242 | 37.7 | 113.1 | 911 154307YA | REF-CF,43K,5%,1/6W | 150V,-1300 TO +350PPM/C,1.9X3.2 | |
| R243 | 42.8 | 113.1 | 911 147507YA | REF-CF,7.5K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R244 | 47.8 | 114 | 911 156807YA | REF-CF,68K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |

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| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|-------|--------------|-------------------------|---------------------------------|---------|
| R245 | 50.5 | 114 | 911 152707YA | REF-CF,27K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R246 | 53 | 114 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R247 | 55.6 | 114 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R248 | 58.1 | 114.1 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R249 | 12.7 | 146.2 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R251 | 6.8 | 163 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R252 | 8 | 153.6 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R253 | 13.6 | 231.5 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R254 | 13 | 224.2 | 911 142707YA | REF-CF,2.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R255 | 7.2 | 238.9 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R256 | 73.1 | 144.8 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R257 | 101.9 | 101.9 | 911 151207YA | REF-CF,12K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R270 | 34 | 177.2 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R271 | 31.5 | 176.6 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R272 | 27.9 | 175.8 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R273 | 18.1 | 174.8 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R274 | 61.2 | 41.6 | 911 152007YA | REF-CF,20K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R301 | 99.6 | 48.3 | 911 451005DA | REF-MF,10K,1%,1/4W | 250V,-100 TO +100PPM/C,R-AXIAL | |
| R302 | 102.4 | 44.1 | 911 444705DA | REF-MF,4.7K,1%,1/4W | 250V,-100 TO +100PPM/C,R-AXIAL | |
| R303 | 113.4 | 83.8 | 911 811207FA | REF-FUSIBLE,1.2,5%,1/2W | -,350 TO +350PPM/C,R-AXIAL | |
| R304 | 79.8 | 46.8 | 911 151507YA | REF-CF,15K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R305 | 118.7 | 75.2 | 911 146807YA | REF-CF,6.8K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R306 | 109 | 62.5 | 911 334707JA | REF-MO,470,5%,2W | 350V,-200 TO +200PPM/C,R-AXIAL | |
| R307 | 104.1 | 78.5 | 911 309007JF | REF-MO,0.9,5%,2W | 350V,-350 TO +350PPM/C,R-AXIAL | ● |
| R308 | 82.2 | 54.3 | 911 142207YA | REF-CF,2.2K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R309 | 85.1 | 15.2 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R310 | 76.5 | 17.8 | 911 152207YA | REF-CF,22K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R311 | 74 | 19.5 | 911 141007FF | REF-CF,1K,5%,1/2W | 300V,-200 TO +200PPM/C,R-AXIAL | |
| R312 | 15 | 100.6 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R313 | 61.5 | 110.2 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R314 | 64.9 | 118 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,R-AXIAL | |
| R315 | 105.4 | 124.1 | 911 161807YA | REF-CF,180K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R316 | 127.8 | 44.3 | 911 811207FA | REF-FUSIBLE,1.2,5%,1/2W | -,350 TO +350PPM/C,R-AXIAL | |
| R317 | 100.4 | 78.5 | 911 111507FA | REF-CF,1.5,5%,1/2W | 350V,-350 TO +350PPM/C,R-AXIAL | |
| R318 | 70.6 | 50.1 | 911 161507YA | REF-CF,150K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R320 | 41.3 | 36.5 | 911 154707YA | REF-CF,47K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R322 | 48.7 | 44.1 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R323 | 8.3 | 133.2 | 911 154707YA | REF-CF,47K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R324 | 37.4 | 43.1 | 911 151507YA | REF-CF,15K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R325 | 38.5 | 46.4 | 911 152407YA | REF-CF,24K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R326 | 54.1 | 43.7 | 911 153307YA | REF-CF,33K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R401 | 71.7 | 69.8 | 911 452205DA | REF-MF,22K,1%,1/4W | 250V,-100 TO +100PPM/C,R-AXIAL | |
| R402 | 149.4 | 135.6 | 911 154707YA | REF-CF,47K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R403 | 65 | 67.2 | 911 449105DA | REF-MF,9.1K,1%,1/4W | 250V,-100 TO +100PPM/C,R-AXIAL | |
| R404 | 67.9 | 77.3 | 911 142707YA | REF-CF,2.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R405 | 51.8 | 67.1 | 911 452205DA | REF-MF,22K,1%,1/4W | 250V,-100 TO +100PPM/C,R-AXIAL | ● |
| R406 | 55 | 73.6 | 911 446195DA | REF-MF,6.19K,1%,1/4W | 250V,-100 TO +100PPM/C,R-AXIAL | |
| R407 | 50.6 | 80.3 | 911 141207YA | REF-CF,1.2K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R408 | 41.8 | 78 | 911 152207YA | REF-CF,22K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R410 | 57.5 | 73.6 | 911 444705DA | REF-MF,4.7K,1%,1/4W | 250V,-100 TO +100PPM/C,R-AXIAL | |
| R411 | 30.7 | 77.8 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R412 | 24.6 | 84.4 | 911 143307YA | REF-CF,3.3K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R413 | 74.4 | 83.3 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,R-AXIAL | |
| R414 | 81.7 | 184.5 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R416 | 40.2 | 123.1 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |

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| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|-------|----------------|-------------------------|---------------------------------|---------|
| R417 | 81.1 | 177.7 | 911 154707YA | REF-CF,47K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R418 | 104.1 | 177.7 | 911 162707YA | REF-CF,270K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R419 | 102.2 | 183 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R420 | 99 | 185.9 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R421 | 101.8 | 185.4 | 911 152407YA | REF-CF,24K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R422 | 77.1 | 198.6 | 911 143907YA | REF-CF,3.9K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R423 | 206 | 130.8 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R424 | 193.6 | 166.7 | 911 141007DA | REF-CF,1K,5%,1/4W | 250V,-350 TO +350PPM/C,R-AXIAL | |
| R425 | 176.2 | 137.4 | 911 323307LAXA | REF-MO,33,5%,3W | 500V,-200 TO +200PPM/C,R-AXIAL | |
| R426 | 169 | 137.4 | 911 323307LAXA | REF-MO,33,5%,3W | 500V,-200 TO +200PPM/C,R-AXIAL | |
| R427 | 192.8 | 214.6 | 911 116807FA | REF-CF,6.8,5%,1/2W | 350V,-350 TO +350PPM/C,R-AXIAL | |
| R428 | 106.6 | 175.9 | 911 131207DA | REF-CF,120,5%,1/4W | 250V,-350 TO +350PPM/C,R-AXIAL | |
| R429 | 123.4 | 176.3 | 911 135607DA | REF-CF,560,5%,1/4W | 250V,-350 TO +350PPM/C,R-AXIAL | |
| R430 | 136.6 | 180.8 | 911 161007YA | REF-CF,100K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R431 | 139.1 | 182 | 911 112207FF | REF-CF,2.2,5%,1/2W | 300V,-200 TO +200PPM/C,R-AXIAL | |
| R432 | 119.2 | 157.9 | 911 136807DA | REF-CF,680,5%,1/4W | 250V,-350 TO +350PPM/C,R-AXIAL | |
| R433 | 18.8 | 219.6 | 911 113307FA | REF-CF,3.3,5%,1/2W | 350V,-350 TO +350PPM/C,R-AXIAL | |
| R434 | 15.2 | 219.6 | 911 113307FA | REF-CF,3.3,5%,1/2W | 350V,-350 TO +350PPM/C,R-AXIAL | |
| R435 | 11.6 | 219.6 | 911 113307FA | REF-CF,3.3,5%,1/2W | 350V,-350 TO +350PPM/C,R-AXIAL | |
| R436 | 86.2 | 202.2 | 911 151507YA | REF-CF,15K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R437 | 95.5 | 202.5 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R438 | 95.3 | 205 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R439 | 92.7 | 198.3 | 911 111207FA | REF-CF,1.2,5%,1/2W | 300V,-200 TO +200PPM/C,R-AXIAL | |
| R440 | 153.6 | 221.1 | 911 332207JF | REF-MO,220,5%,2W | 500V,-200 TO +200PPM/C,R-AXIAL | |
| R441 | 114.6 | 226.3 | 911 814707FA | REF-FUSIBLE,4.7,5%,1/2W | 250V,-500 TO +500PPM/C,R-AXIAL | |
| R442 | 114.5 | 230.5 | 911 341007GF | REF-MO,1K,5%,1W | 350V,-350 TO +350PPM/C,R-AXIAL | |
| R443 | 22.7 | 212 | 911 171007YA | REF-CF,1M,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R444 | 32.5 | 219.3 | 911 171007YA | REF-CF,1M,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R445 | 42.9 | 219.2 | 911 171007YA | REF-CF,1M,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R446 | 51.1 | 217.9 | 911 171007YA | REF-CF,1M,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R447 | 66 | 224.2 | 911 171007YA | REF-CF,1M,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R448 | 24.3 | 205.9 | 911 141207YA | REF-CF,1.2K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R449 | 39.4 | 206.7 | 911 141207YA | REF-CF,1.2K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R450 | 45 | 209.3 | 911 141207YA | REF-CF,1.2K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R451 | 55.4 | 209.6 | 911 141207YA | REF-CF,1.2K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R452 | 58 | 206.7 | 911 141207YA | REF-CF,1.2K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R453 | 89.2 | 183.8 | 911 122207FA | REF-CF,22,5%,1/2W | 350V,-350 TO +350PPM/C,R-AXIAL | |
| R454 | 75.4 | 185.9 | 911 154707YA | REF-CF,47K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R455 | 202.3 | 140.5 | 911 331007JF | REF-MO,100,5%,2W | 500V,-200 TO +200PPM/C,R-AXIAL | |
| R456 | 231.2 | 145.3 | 911 163307FA | REF-CF,330K,5%,1/2W | 350V,-600 TO -150PPM/C,R-AXIAL | |
| R457 | 212.2 | 152.6 | 911 163907FA | REF-CF,390K,5%,1/2W | 350V,-600 TO -150PPM/C,R-AXIAL | |
| R458 | 241.1 | 150.1 | 911 141207YA | REF-CF,1.2K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R459 | 237.8 | 153.2 | 911 149107YA | REF-CF,9.1K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R460 | 243.6 | 143.6 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R461 | 235.8 | 160.7 | 911 142707YA | REF-CF,2.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R462 | 235.8 | 158.2 | 911 142707YA | REF-CF,2.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R463 | 235.8 | 163.2 | 911 162207YA | REF-CF,220K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R464 | 232.9 | 165.2 | 911 161507YA | REF-CF,150K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R465 | 41.8 | 92.9 | 911 152407YA | REF-CF,24K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R466 | 28 | 113.1 | 911 162007YA | REF-CF,200K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R467 | 51.3 | 94.3 | 911 151207YA | REF-CF,12K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R468 | 61.2 | 104.9 | 911 151207YA | REF-CF,12K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R469 | 60.5 | 114.1 | 911 158207YA | REF-CF,82K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R470 | 67.4 | 103.2 | 911 164707YA | REF-CF,470K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R471 | 33.9 | 94.1 | 911 152007YA | REF-CF,20K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R472 | 32.7 | 123.1 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |

(⚠ : Caution, ● : Specialty part for this monitor only, ⚡ : ESD Caution)

| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|-------|--------------|-------------------------|---------------------------------|---------|
| R473 | 79 | 103.2 | 911-153607YA | REF-CF,36K,5%,1/6W | 150V,-1300 TO +350PPM/C,1.9X3.2 | |
| R474 | 76.6 | 109.7 | 911 149107YA | REF-CF,9.1K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R475 | 89.6 | 113.2 | 911 152007YA | REF-CF,20K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R476 | 88.6 | 116.8 | 911 124707FA | REF-CF,47,5%,1/2W | 350V,-350 TO +350PPM/C,R-AXIAL | |
| R477 | 93.6 | 111.3 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,C,R-AXIAL | |
| R501 | 245.3 | 141.6 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R502 | 225.9 | 117.5 | 911 331507LA | REF-MO,150,5%,3W | -, -350 TO +350PPM/C,R-AXIAL | |
| R503 | 286.7 | 177.8 | 911 316807JF | REF-MO,6.8,5%,2W | 500V,-200 TO +200PPM/C,R-AXIAL | |
| R504 | 265.9 | 120.5 | 911 132207FA | REF-CF,220,5%,1/2W | 350V,-350 TO +350PPM/C,R-AXIAL | |
| R505 | 255.8 | 170 | 911 811807JA | REF-FUSIBLE,1.8,5%,2W | -, -350 TO +350PPM/C,R-AXIAL | |
| R506 | 276.6 | 191.5 | 911 143307YA | REF-CF,3.3K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R507 | 283.8 | 204.9 | 911 811207FA | REF-FUSIBLE,1.2,5%,1/2W | -, -350 TO +350PPM/C,R-AXIAL | |
| R508 | 298.5 | 199.7 | 911 452405DA | REF-MF,24K,1%,1/4W | 250V,-100 TO +100PPM/C,R-AXIAL | |
| R509 | 275.4 | 228.2 | 911 459105DA | REF-MF,91K,1%,1/4W | 250V,-100 TO +100PPM/C,R-AXIAL | ● |
| R511 | 303.9 | 213.8 | 911 112207FF | REF-CF,2.2,5%,1/2W | 300V,-200 TO +200PPM/C,R-AXIAL | |
| R601 | 305.9 | 54.2 | 911 163307FA | REF-CF,330K,5%,1/2W | 350V,-600 TO -150PPM/C,R-AXIAL | |
| R604 | 288.1 | 110.1 | 911 124707FF | REF-CF,47,5%,1/2W | 300V,-200 TO +200PPM/C,R-AXIAL | |
| R605 | 283.8 | 106.6 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R606 | 228.8 | 51 | 911 361007JF | REF-MO,100K,5%,2W | 500V,-200 TO +200PPM/C,R-AXIAL | |
| R607 | 223.7 | 55.1 | 911 361007JF | REF-MO,100K,5%,2W | 500V,-200 TO +200PPM/C,R-AXIAL | |
| R608 | 259.7 | 64.9 | 911 231008FA | REF-CC,100,10%,1/2W | 350V,-R-AXIA2Q | |
| R609 | 256.4 | 84.6 | 911 114707DA | REF-CF,4.7,5%,1/4W | 250V,-350 TO +350PPM/C,R-AXIAL | |
| R612 | 199 | 48.7 | 911 152207YA | REF-CF,22K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R614 | 181.3 | 22.8 | 911 162707FA | REF-CF,270K,5%,1/2W | 350V,-600 TO -150PPM/C,R-AXIAL | |
| R615 | 194.7 | 32.5 | 911 162707FA | REF-CF,270K,5%,1/2W | 350V,-600 TO -150PPM/C,R-AXIAL | |
| R616 | 176.5 | 36.1 | 911 131507DA | REF-CF,150,5%,1/4W | 250V,-350 TO +350PPM/C,R-AXIAL | |
| R617 | 170.8 | 22.8 | 911 115607FF | REF-CF,5.6,5%,1/2W | 300V,-200 TO +200PPM/C,R-AXIAL | |
| R618 | 192.3 | 25.9 | 911 115607DA | REF-CF,5.6,5%,1/4W | 250V,-350 TO +350PPM/C,R-AXIAL | |
| R623 | 215 | 64.7 | 911 114707FA | REF-CF,4.7,5%,1/2W | 350V,-350 TO +350PPM/C,R-AXIAL | |
| R624 | 210.9 | 53.1 | 911 161007YA | REF-CF,100K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R625 | 222.5 | 21.5 | 911 356807LF | REF-MO,68K,5%,3W | 500V,-200 TO +200PPM/C,R-AXIAL | |
| R628 | 211.1 | 65.5 | 911 602205JV | REF-WW,0.22,1%,2W | -, -250 TO +250PPM/C,R-AXIAL | |
| R635 | 141.9 | 83.8 | 911 161007FA | REF-CF,100K,5%,1/2W | 350V,-600 TO -150PPM/C,R-AXIAL | |
| R636 | 144.4 | 154.6 | 911 361007LF | REF-MO,100K,5%,3W | 500V,-200 TO +200PPM/C,R-AXIAL | |
| R637 | 215.9 | 88 | 911 342707GF | REF-MO,2.7K,5%,1W | 350V,-200 TO +200PPM/C,R-AXIAL | |
| R641 | 212.9 | 108.8 | 911 161807FA | REF-CF,180K,5%,1/2W | 350V,-600 TO -150PPM/C,R-AXIAL | |
| R642 | 218.7 | 105.9 | 911 146807YA | REF-CF,6.8K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R643 | 226.7 | 85 | 911 442005DA | REF-MF,2K,1%,1/4W | 250V,-100 TO +100PPM/C,R-AXIAL | |
| R644 | 128.5 | 26.2 | 911 323307GA | REF-MO,33,5%,1W | 350V,-350 TO +350PPM/C,R-AXIAL | |
| R645 | 121.9 | 26.8 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R672 | 226.3 | 41.5 | 911 153907FA | REF-CF,39K,5%,1/2W | 350V,-600 TO -150PPM/C,R-AXIAL | |
| R801 | 43.1 | 20.8 | 911 152207YA | REF-CF,22K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R802 | 56.1 | 13.3 | 911 141507YA | REF-CF,1.5K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R803 | 27.8 | 15.9 | 911 141007DA | REF-CF,1K,5%,1/4W | 250V,-350 TO +350PPM/C,R-AXIAL | |
| R804 | 40.7 | 28.7 | 911 151007FF | REF-CF,10K,5%,1/2W | 300V,-200 TO +200PPM/C,R-AXIAL | |
| R805 | 65.5 | 33 | 911 141507YA | REF-CF,1.5K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R806 | 17.5 | 14.4 | 911 171007YA | REF-CF,1M,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R807 | 53.7 | 22.3 | 911 141007DA | REF-CF,1K,5%,1/4W | 250V,-350 TO +350PPM/C,R-AXIAL | |
| R808 | 29 | 12.4 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R809 | 68.6 | 38.8 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R810 | 32.9 | 31.8 | 911 332707JF | REF-MO,270,5%,2W | 500V,-200 TO +200PPM/C,R-AXIAL | |
| R811 | 15.5 | 46.9 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R812 | 6.4 | 180.2 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RL401 | 104.8 | 201.8 | 927 300063AB | RELAY-MINIATURE,12V | 2FORMC,5A,530mW,15mS,5mS | |
| RL601 | 289.1 | 97 | 927 300052BB | RELAY-MINIATURE,12VDC | 2FORMA,8A,200MW,10MS,10MS | |
| RN202 | 69.7 | 170.9 | 887 135472SG | IC-HYB,R-NETWORK,9P | SIP,9,8,4.7KOHM,5% | |

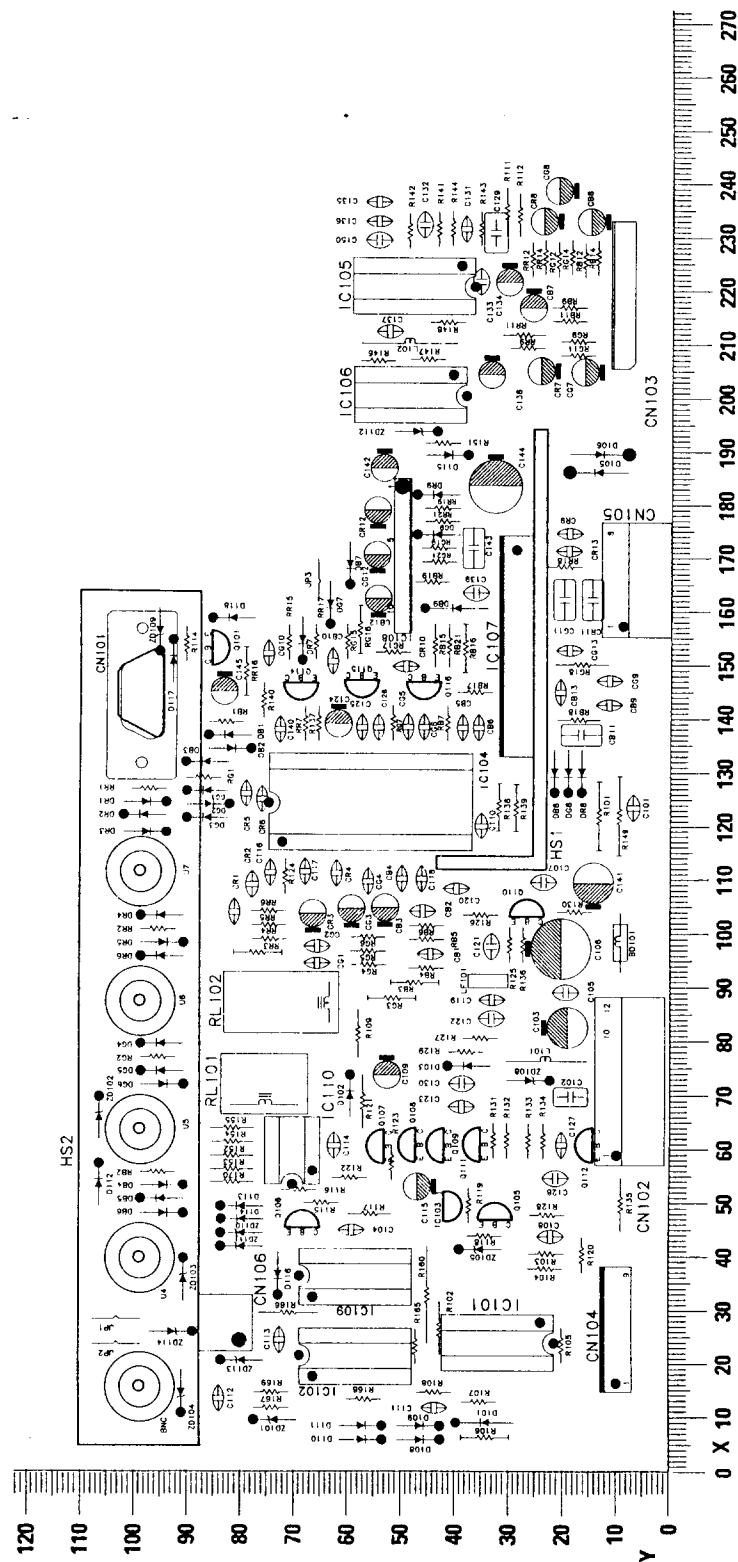
KOREA

(⚠ : Caution, ● : Specialty part for this monitor only, ⚡ : ESD Caution)

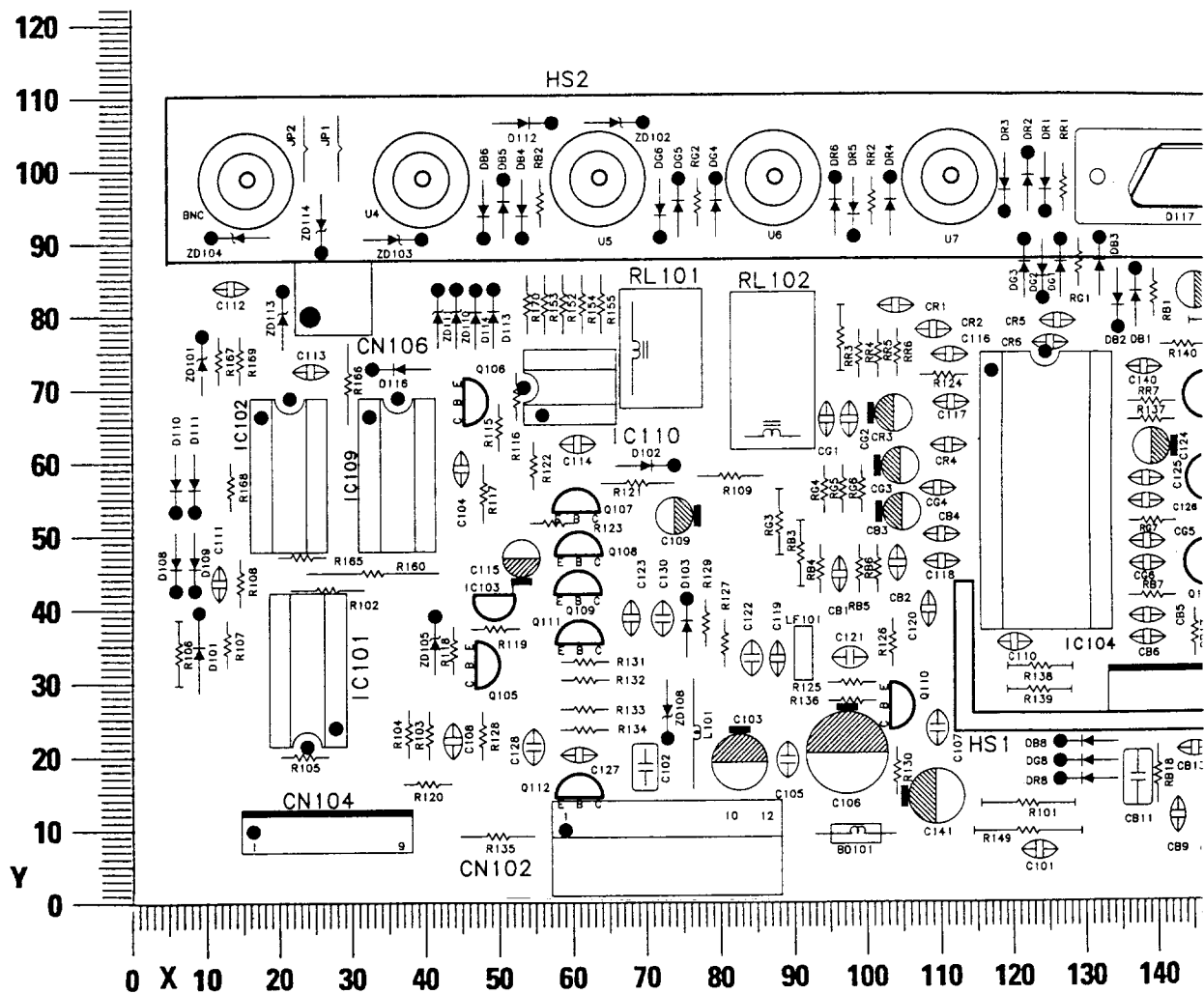
| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|-------|---------------|--------------------------|------------------------------|---------|
| RN203 | 51.2 | 130.2 | 887 135104SJ | IC-HYB,R-NETWORK,11P | SIP,11,10,100KOHM,5% | |
| SK501 | 276.2 | 215.3 | 04569-001-010 | AG20F,1000+-250V | AM:SPARK-GAP | |
| SW401 | 90.9 | 239.8 | 933 110034TC | SWITCH-TOGGLE,SP3T | -, -, -, ON-ON-ON,STRAIGHT,- | |
| SW601 | 251.8 | 14 | 933 210085AB | SWITCH-KEY,SPST | 250V,5A,SPST,Y,ANGLE | |
| SW602 | 257.4 | 18.4 | 933 217004AA | SWITCH-KEY,DPST | 250V,-,80A,DPST,Y,LUG | |
| T401 | 179.3 | 171.1 | 923 460149EA | TRANS-HDT,CSG9511 | CORE/BOBBIN;EI25 | |
| T402 | 146.2 | 194.3 | 923 460157EA | TRANS-HOR.PULSE | EI 33X29MM,CFA7679(PIN TYPE) | |
| T404 | 126.3 | 162.6 | 923 460149HA | TRANS-H-SIZE DRIVE | CORE/BOBBIN;EI16,CSG9511 | |
| T405 | 231.4 | 137.1 | 923 460190CA | TRANS-H,SENSE | EI 22X19mm | |
| T501 | 286.3 | 131.5 | 923 460149DA | TRANS-H/V.BASE DRIVE | CORE/BOBBIN;EI22,CSG9511 | ● |
| T502 | 241 | 187 | 923 460170AA | TRANS-FLYBACK,800mH | FSW-17A001 | ● |
| T503 | 249.2 | 151.7 | 923 460157FA | TRANS-H/V REG.CFA7679 | EI 28X20MM,CFA7679(PIN TYPE) | ● ⚡ |
| T601 | 151.8 | 56.8 | 923 460170BA | TRANS-POWER S/W | EER 44X45MM | |
| T602 | 168.5 | 48 | 923 460156AA | TRANS-POWER(DPSM | EE 19_27MM,110/220 FREE,8V | |
| T603 | 210 | 70.3 | 923 460065AA | TRANS-SYNC | 3MH (11X16MM) | |
| TH601 | 284.4 | 67.1 | 897 110011AA | THER,8.0,DISK,18MM | ST : | |
| VAR601 | 302.3 | 16.8 | 897 130528AA | VARI,679~829V,AXIAL,12MM | 640V,480V,-,270PF | |
| VR501 | 282.7 | 239.1 | 913 455008BF | RES-VAR,SF-ROUND,50KOHM | 30%,0.1W,SIDE | |
| VR601 | 225.1 | 100 | 913 435008BH | RES-VAR,SF-ROUND,5000OHM | 30%,0.1W,TOP,220 ,-, - | |
| X201 | 76.9 | 164.7 | 941 130073AA | OSC-CLOCK,8M,100 | -,5V,40MA,10NS,1 TO 10 TTL | ⚡ |
| ZD301 | 86.3 | 33.3 | 893 290031BB | DIODE-ZEN,UZ-12BM,DO-35 | 0.5W,-,5MA,-, -, - | |
| ZD801 | 30.2 | 20.7 | 893 290002AC | DIODE-ZEN,ZPD2,7,DO-35 | 0.5W,-,5MA,-, -, - | |

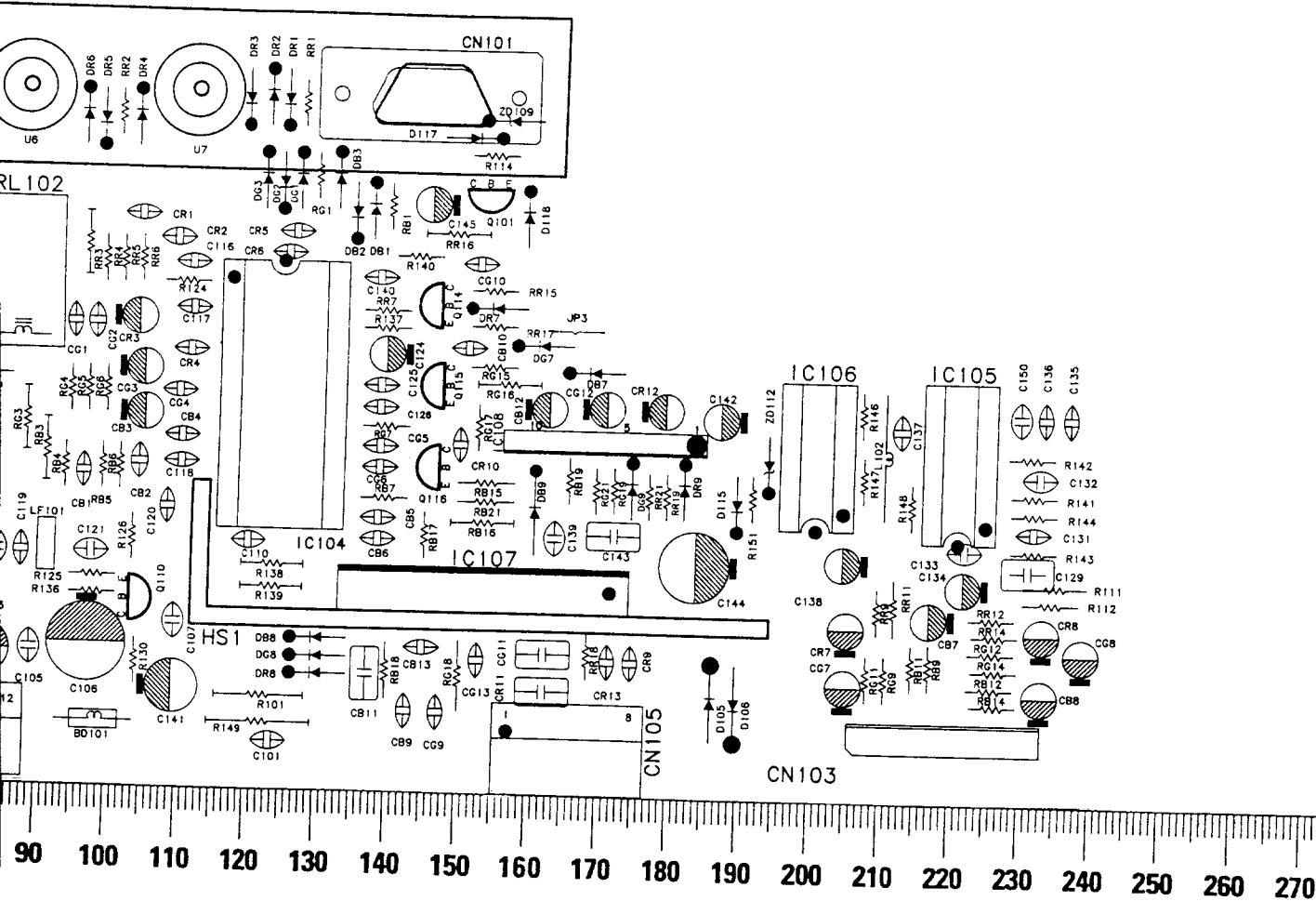
9-3-1 PCB Layout

Video PCB TOP View

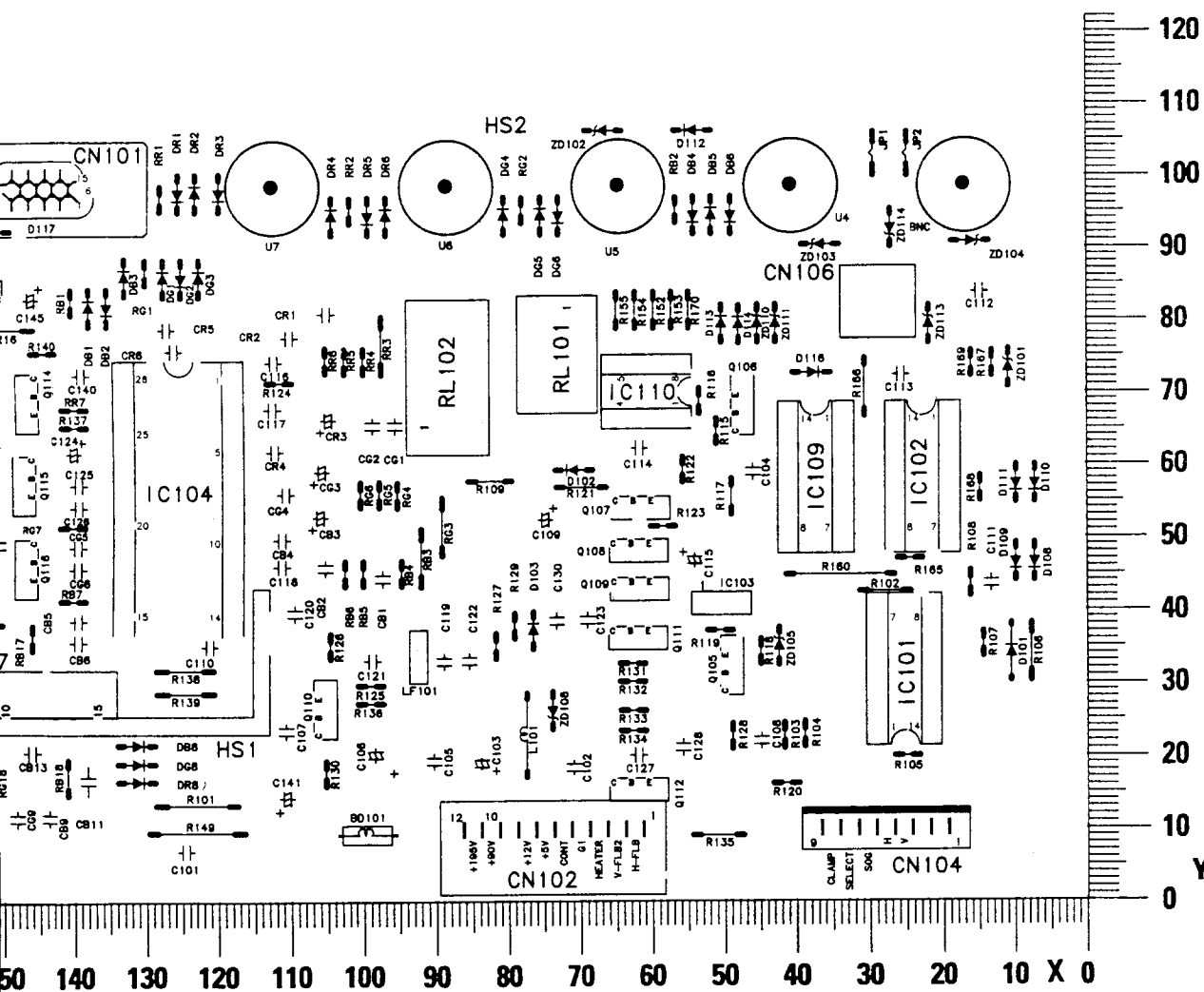


1 PCB Layout
to PCB TOP View

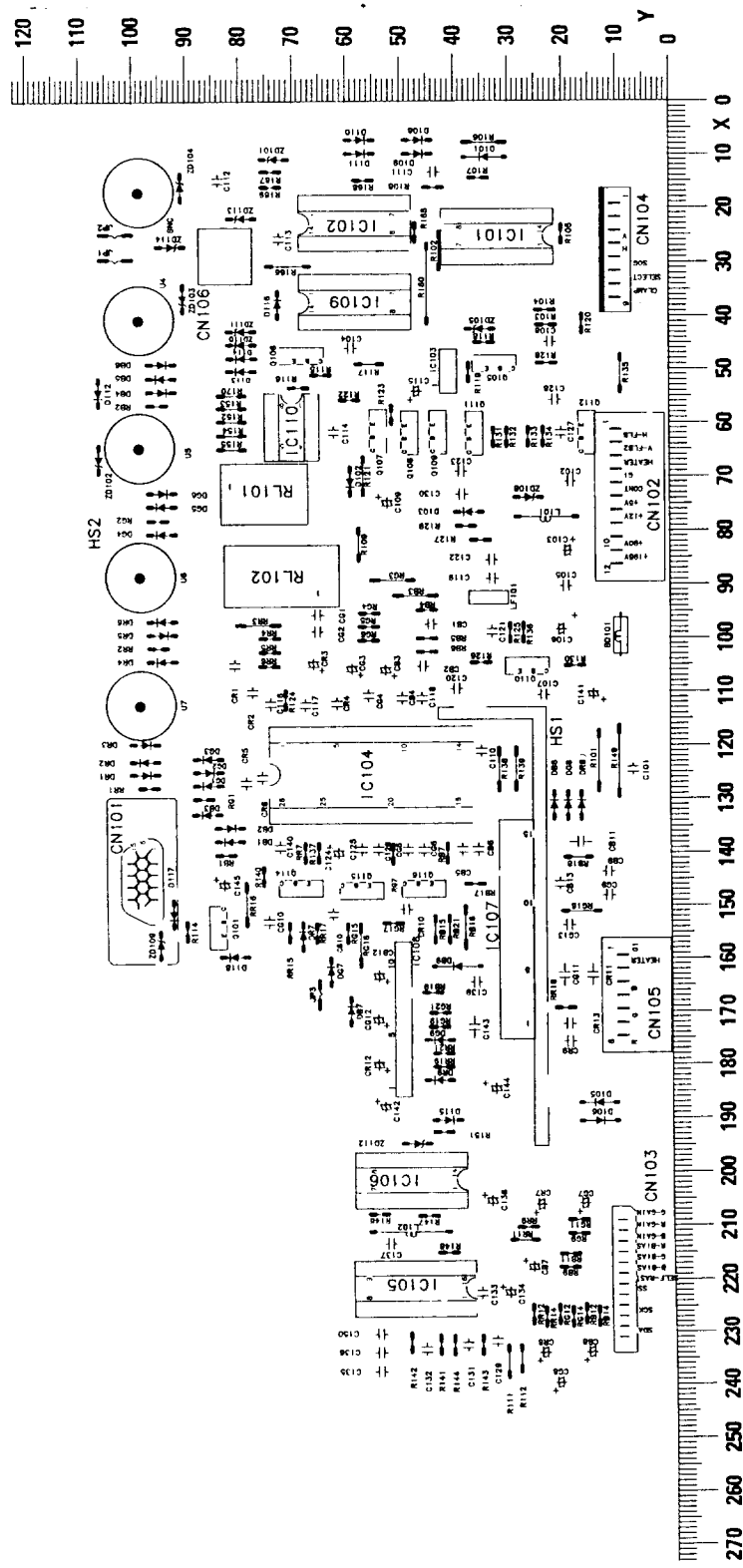








Video PCB Bottom View



9-3-2 Video Parts List

(⚠ : Caution, ● : Specialty part for this monitor only, ⚡ : ESD Caution)

| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|------|----------------|----------------------------|----------------------------------|---------|
| BD101 | 94.2 | 10.3 | 937 120211AA | MAG-CORE,FERRITE,BEAD | 1.2UH,3.5_5.7MM,10 OHM | |
| BNC | 16.7 | 100 | 935 620901AA | CON-JACK BNC | ST : | |
| C101 | 127.5 | 8 | 915 325100HZVH | CAP-CERAMIC,103Z,1H,Y5V | 10NF,50V,-20 TO 80%,-80TO30%,Y5 | |
| C102 | 71 | 17.1 | 916 164220LJAH | CAP-MYLAR,222J,2A,5P | (T)100V 222J | |
| C103 | 83.9 | 17.7 | 917 863470CMAH | CAP-AL.ELEC,477M,1C,8x11.5 | (T)470UF,16V,20%,R-RADIAL | ● |
| C104 | 46 | 63 | 915 265100HJXH | CAP-CERAMIC,103J,1H,MONO | 10NF,50V,5%,X7R,RE-RADIAL,DIPPE | |
| C105 | 90.5 | 18 | 915 336100HZVH | CAP-CERAMIC,104Z,1H,Y5V | 100NF,50V,-20 TO 80%,-82TO22% | |
| C106 | 98.6 | 18.9 | 917 863680EMAH | CAP-AL.ELEC,687M,1E | (T)680UF,25V,20%,R-RADIAL | ● |
| C107 | 110.9 | 22.2 | 915 336100HZVH | CAP-CERAMIC,104Z,1H,Y5V | 100NF,50V,-20 TO 80%,-82TO22% | |
| C108 | 44.8 | 20.8 | 915 325100HZVH | CAP-CERAMIC,103Z,1H,Y5V | 10NF,50V,-20 TO 80%,-80TO30%,Y5 | |
| C109 | 72.5 | 53.9 | 917 121100HM | CAP-AL.ELEC,105M,1H | (T)50V 1M | |
| C110 | 119 | 36.4 | 915 323330HKPH | CAP-CERAMIC,331K,1H,Y5P | 330PF,50V,10%,10%,Y5P,DISC-RADI | |
| C111 | 12.9 | 42.5 | 915 265330LKXX | CAP-CERAMIC,333K,2A,X7R | 33NF,100V,10%,15%,X7R,RE-RADIAL | |
| C112 | 12.1 | 85.3 | 915 312220HJXH | CAP-CERAMIC,220J,1H,NPO | 22PF,50V,5%,NPOPPM,NPO | |
| C113 | 28 | 73.9 | 915 265100HJXH | CAP-CERAMIC,103J,1H,MONO | 10NF,50V,5%,X7R,RE-RADIAL,DIPPE | |
| C114 | 64.3 | 63.8 | 915 325100HZVH | CAP-CERAMIC,103Z,1H,Y5V | 10NF,50V,-20 TO 80%,-80TO30%,Y5 | |
| C115 | 54.1 | 50.8 | 917 122100EM | CAP-AL.ELEC,106M,1E | (T)25V 10M | |
| C116 | 110.1 | 75.8 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| C117 | 110.3 | 69.3 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| C118 | 109 | 47.5 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| C119 | 89.1 | 31.8 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| C120 | 109.7 | 43.5 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| C121 | 101.5 | 34.4 | 915 313100HJXH | CAP-CERAMIC,101J,1H,NPO | 100PF,50V,5%,-,NPOPPM,NPO | |
| C122 | 85.6 | 31.9 | 915 336100HZVH | CAP-CERAMIC,104Z,1H,Y5V | 100NF,50V,-20 TO 80%,-82TO22% | |
| C123 | 69.1 | 37.5 | 915 164100LJXH | CAP-CERAMIC,102J,2A,MONO | 1NF,100V,5%,NPO,RE-RADIAL,DIPPE | |
| C124 | 138.1 | 63.2 | 917 122100EM | CAP-AL.ELEC,106M,1E | (T)25V 10M | |
| C125 | 137.4 | 58.8 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| C126 | 142.4 | 55.7 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| C127 | 64.4 | 21.3 | 915 312560HJHH | CAP-CERAMIC,560J,1H,SL | 56PF,50V,5%,P350TON1000PPM | |
| C128 | 55.7 | 24.9 | 915 313100HJXH | CAP-CERAMIC,101J,1H,NPO | 100PF,50V,5%,-,NPOPPM,NPO | |
| C129 | 229.9 | 34.1 | 916 165470LJAH | CAP-MYLAR,473J,2A,5P | (T)100V 473J | |
| C130 | 73.4 | 42.4 | 915 313100HJXH | CAP-CERAMIC,101J,1H,NPO | 100PF,50V,5%,-,NPOPPM,NPO | |
| C131 | 230.6 | 39.6 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| C132 | 236.4 | 47.4 | 915 312330HJXH | CAP-CERAMIC,330J,1H,NPO | 33PF,50V,5%,NPOPPM,NPO | |
| C133 | 220.8 | 36.8 | 915 336100HZVH | CAP-CERAMIC,104Z,1H,Y5V | 100NF,50V,-20 TO 80%,-82TO22% | |
| C134 | 220.7 | 31.5 | 917 742470CM | CAP-AL.ELEC,476M,1C,105C | (T)16V 47M | |
| C135 | 238.1 | 58.4 | 915 312220HJXH | CAP-CERAMIC,220J,1H,NPO | 22PF,50V,5%,NPOPPM,NPO | |
| C136 | 234.5 | 58.4 | 915 312220HJXH | CAP-CERAMIC,220J,1H,NPO | 22PF,50V,5%,NPOPPM,NPO | |
| C137 | 214 | 56.3 | 915 325100HZVH | CAP-CERAMIC,103Z,1H,Y5V | 10NF,50V,-20 TO 80%,-80TO30%,Y5 | |
| C138 | 203.5 | 34.7 | 917 723100CM | CAP-AL.ELEC,107M,1C | (T)16V 100M | |
| C139 | 165 | 35 | 915 336100HZVH | CAP-CERAMIC,104Z,1H,Y5V | 100NF,50V,-20 TO 80%,-82TO22% | |
| C140 | 142 | 74.1 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| C141 | 113.3 | 15.4 | 917 742100LM | CAP-AL.ELEC,106M,2A,105C | (T)100V 10M | |
| C142 | 185.9 | 54.7 | 917 122100EM | CAP-AL.ELEC,106M,1E | (T)25V 10M | |
| C143 | 177.2 | 38 | 916 556100QJAL | CAP-MPETP,104J,2E,7.5P | (T)250V 104J | |
| C144 | 182.5 | 33.9 | 917 872100QM | CAP-AL.ELEC,106M,2E,105C | (T)250V 10M | |
| C145 | 144.1 | 84.6 | 917 822100EM | CAP-AL.ELEC,106M,1E,5X5 | (T)10UF,25V,20%,R-RADIAL | |
| C150 | 231 | 58.4 | 915 313100HJXH | CAP-CERAMIC,101J,1H,NPO | 100PF,50V,5%,-,NPOPPM,NPO | |
| CB1 | 97.6 | 43.3 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| CB2 | 105.5 | 44.8 | 915 323220HKPH | CAP-CERAMIC,221K,1H,Y5P | 220PF,50V,10%,10%,Y5P,DISC-RADIL | |
| CB3 | 108.7 | 54.3 | 917 122100EM | CAP-AL.ELEC,106M,1E | (T)25V 10M | |
| CB4 | 109 | 51.2 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| CB5 | 137.4 | 40 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| CB6 | 137.4 | 37 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| CB7 | 215.9 | 27 | 917 122100EM | CAP-AL.ELEC,106M,1E | (T)25V 10M | |
| CB8 | 234.5 | 18.8 | 917 122100EM | CAP-AL.ELEC,106M,1E | (T)25V 10M | |

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| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|-------|----------------|---------------------------|---------------------------------|---------|
| CB9 | 144.2 | 15.1 | 915 312270HJXH | CAP-CERAMIC,270J,1H,NPO | 27PF,50V,5%,NPOPPM,NPO | |
| CB10 | 149.7 | 64.3 | 915 265100HJXH | CAP-CERAMIC,103J,1H,MONO | 10NF,50V,5%,X7R,RE-RADIAL,DIPPE | |
| CB11 | 138.6 | 21.6 | 916 556100QJAL | CAP-MPETP,104J,2E,7.5P | (T)250V 104J | |
| CB12 | 166.4 | 55.8 | 917 741100QM | CAP-AL.ELEC,105M,2E,105 C | (T)250V 1M | |
| CB13 | 144 | 21.7 | 915 312120HJXH | CAP-CERAMIC,120J,1H,NPO | 12PF,50V,5%,NPOPPM,NPO | |
| CG1 | 95.9 | 64.5 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| CG2 | 99 | 64.5 | 915 323220HKPH | CAP-CERAMIC,221K,1H,Y5P | 220PF,50V,10%,10%,Y5P | |
| CG3 | 108.5 | 60.6 | 917 122100EM | CAP-AL.ELEC,106M,1E | (T)25V 10M | |
| CG4 | 108.5 | 57.5 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| CG5 | 137.5 | 50.2 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| CG6 | 137.5 | 47.2 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| CG7 | 206.5 | 19.8 | 917 122100EM | CAP-AL.ELEC,106M,1E | (T)25V 10M | |
| CG8 | 240.3 | 24.8 | 917 122100EM | CAP-AL.ELEC,106M,1E | (T)25V 10M | |
| CG9 | 148.7 | 10 | 915 312270HJXH | CAP-CERAMIC,270J,1H,NPO | 27PF,50V,5%,NPOPPM,NPO | |
| CG10 | 151.1 | 76.3 | 915 265100HJXH | CAP-CERAMIC,103J,1H,MONO | 10NF,50V,5%,X7R,RE-RADIAL,DIPPE | |
| CG11 | 160 | 21 | 916 556100QJAL | CAP-MPETP,104J,2E,7.5P | (T)250V 104J | |
| CG12 | 174.6 | 56 | 917 741100QM | CAP-AL.ELEC,105M,2E,105 C | (T)250V 1M | |
| CG13 | 154.3 | 22.5 | 915 312220HJXH | CAP-CERAMIC,220J,1H,NPO | 22PF,50V,5%,NPOPPM,NPO | |
| CN101 | 141.1 | 98 | 935 100215MA | CON-D-SUB,15P,RECEPTALE | STRAIGHT,AUFLASH,3.05MM | |
| CN102 | 60 | 11 | 935 241312EA | CON-WALL HEADER,12P,2.5M | ANGLE,1WALL,SN,7.5MM | |
| CN103 | 208.7 | 10 | TMP CBF13PIN | CBF-CONN ASSY,250MM,13P | VIDEO,13PIN,CVT4857 | |
| CN104 | 17.5 | 11 | 935 241309EA | CON-WALL HEADER,9P,2.5M | ANGLE,1WALL,SN | |
| CN105 | 158.8 | 10 | 935 241308EA | CON-WALL HEADER,8P,2.5MM | ANGLE,1WALL,SN | |
| CN106 | 25.4 | 81.4 | 935 720084AA | CON-MINIATURE JACK | 3P,8.6X8X12.7MM | |
| CR1 | 102.8 | 82.5 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| CR2 | 107.9 | 79.2 | 915 323220HKPH | CAP-CERAMIC,221K,1H,Y5P | 220PF,50V,10%,10%,Y5P | |
| CR3 | 107.6 | 67.8 | 917 122100EM | CAP-AL.ELEC,106M,1E | (T)25V 10M | |
| CR4 | 110 | 63.4 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| CR5 | 132 | 80.4 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| CR6 | 129 | 77.4 | 915 266100HJXH | CAP-CERAMIC,104J,1H,MONO | 100NF,50V,5%,X7R,RE-RADIAL,DIPP | |
| CR7 | 206.7 | 28 | 917 122100EM | CAP-AL.ELEC,106M,1E | (T)25V 10M | |
| CR8 | 234.6 | 27.6 | 917 122100EM | CAP-AL.ELEC,106M,1E | (T)25V 10M | |
| CR9 | 176.2 | 17.5 | 915 312270HJXH | CAP-CERAMIC,270J,1H,NPO | 27PF,50V,5%,NPOPPM,NPO | |
| CR10 | 151.3 | 53.1 | 915 265100HJXH | CAP-CERAMIC,103J,1H,MONO | 10NF,50V,5%,X7R,RE-RADIAL,DIPPE | |
| CR11 | 160 | 15.7 | 916 556100QJAL | CAP-MPETP,104J,2E,7.5P | (T)250V 104J | |
| CR12 | 183 | 55.9 | 917 741100QM | CAP-AL.ELEC,105M,2E,105 C | (T)250V 1M | |
| CR13 | 172.9 | 22.6 | 915 312220HJXH | CAP-CERAMIC,220J,1H,NPO | 22PF,50V,5%,NPOPPM,NPO | |
| D101 | 10.1 | 30 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| D102 | 67 | 60.8 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| D103 | 76.7 | 34.6 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| D105 | 187.7 | 9.1 | 893 314007BA | DIODE-REC,1N4007GP,DO-41 | 1000V,1A,1.1V,1A,2uS | |
| D106 | 191.1 | 20 | 893 314007BA | DIODE-REC,1N4007GP,DO-41 | 1000V,1A,1.1V,1A,2uS | |
| D108 | 6.9 | 52 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| D109 | 9.5 | 52 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| D110 | 6.9 | 62.8 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| D111 | 9.5 | 62.8 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| D112 | 50.4 | 107.7 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| D113 | 50.4 | 77 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| D114 | 48 | 76.9 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| D115 | 190.9 | 47 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| D116 | 41.9 | 74.2 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| D117 | 148.1 | 94.2 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| D118 | 160.2 | 78.8 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DB1 | 138.4 | 79.5 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DB2 | 135.9 | 87.5 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DB3 | 133.4 | 83.7 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |

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| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|-------|----------------|----------------------------|---------------------------------|---------|
| DB4 | 54.3 | 100 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DB5 | 51.8 | 92 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DB6 | 49.1 | 100 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DB7 | 174.5 | 61.1 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DB8 | 135.8 | 22.8 | 893 190021AANA | DIODE-SIG,BAV21,DO-35 | 250V,250MA,1V,100MA | |
| DB9 | 162.1 | 35.1 | 893 190021AANA | DIODE-SIG,BAV21,DO-35 | 250V,250MA,1V,100MA | |
| DG1 | 128 | 83.5 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DG2 | 125.5 | 91.5 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DG3 | 123 | 83.5 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DG4 | 80.8 | 92 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DG5 | 75.7 | 92 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DG6 | 73.2 | 100 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DG7 | 167.1 | 64.8 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DG8 | 135.8 | 20.2 | 893 190021AANA | DIODE-SIG,BAV21,DO-35 | 250V,250MA,1V,100MA | |
| DG9 | 175.9 | 40.5 | 893 190021AANA | DIODE-SIG,BAV21,DO-35 | 250V,250MA,1V,100MA | |
| DR1 | 125.9 | 103.3 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DR2 | 123.5 | 95.3 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DR3 | 120.2 | 103.3 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DR4 | 104.6 | 92 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DR5 | 99.6 | 100 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DR6 | 97.1 | 92 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DR7 | 160.4 | 70 | 893 114148AANM | DIODE-SIG,1N4148,DO-35 | 75V,150MA,1V,10MA | |
| DR8 | 135.8 | 17.7 | 893 190021AANA | DIODE-SIG,BAV21,DO-35 | 250V,250MA,1V,100MA | |
| DR9 | 183.4 | 40.5 | 893 190021AANA | DIODE-SIG,BAV21,DO-35 | 250V,250MA,1V,100MA | |
| HS1 | 195.5 | 26.7 | TMP HEATSINK | H/SINK-TR | HEAT-SINK(TR) | |
| HS2 | 88.9 | 100.2 | 813 460276AA | BRKT-BNC CON | BRKT-BNC | |
| IC101 | 28.8 | 25.1 | 881 200319AA | IC-LIN,LM319,COMPARATOR | DIP,14,DUAL | ⚠ ⚠ |
| IC102 | 18.7 | 67.7 | 873 760125AA | IC-MOS,74HC125,QUAD | DIP,4,300MIL,QUAD | ⚠ ⚠ |
| IC103 | 52.9 | 42.3 | 881 300431TANB | IC-LIN,431,REGULATOR | TO-92,3,-.36V(T)-SIMPLE | ⚠ ⚠ |
| IC104 | 118.3 | 73.6 | 881 101205AA | IC-LIN,1205,VIDEO AMP | DIP,28,SINGLE | ⚠ ⚠ |
| IC105 | 226.2 | 40.4 | 881 904320AA | IC-LIN,4320,OSD | DIP,16,-,- | ⚠ ⚠ |
| IC106 | 205.9 | 41.9 | 873 760125AA | IC-MOS,74HC125,QUAD | DIP,4,300MIL,QUAD | ⚠ ⚠ |
| IC107 | 173 | 29.9 | 887 490041AA | IC-HYB,CFA7679,VIDEO-AMP | VPS10 | ⚠ ⚠ |
| IC108 | 184.9 | 51.3 | 887 490045AA | MV17B,10P | IC-HYB,CMH7379,VIDEO-CUT | ⚠ ⚠ |
| IC109 | 33.5 | 67.7 | 873 760125AA | IC-MOS,74HC125,QUAD | DIP,4,300MIL,QUAD | ⚠ ⚠ |
| IC110 | 57 | 67.8 | 883 602421AA | IC-MEM,EEPROM,24LC21,128X8 | DIP,8,4000NS,5%,90MIL | ⚠ ⚠ |
| JP1 | 29.4 | 108.9 | 955 005001AAAB | JUMPER | JUMPER | |
| JP2 | 24.7 | 108.9 | 955 005001AAAB | JUMPER | JUMPER | |
| JP3 | 171.3 | 67 | 955 005001AAAB | JUMPER | JUMPER | |
| L101 | 77.6 | 31.6 | 925 001001AC | INDUCTOR-AXIAL,33UH | FIX,33UH,10%,33-90,-,4X10MM | |
| L102 | 211.8 | 59.1 | 925 001002AJ | INDUCTOR-AXIAL,150UH | FIX,150UH,10%,50,-,2.6X7MM | |
| LF101 | 92.6 | 32.5 | 943 150021AG | FILTER-LPF,EMI,LC,47PF | CFI 06B 1H 470M | |
| Q101 | 157.1 | 85.9 | 891 190733XC | TR-PNP,KSA733,TO-92,EBC | 0.25W,-60V,-50V,-5V,-0.15A | |
| Q105 | 48.9 | 36.2 | 891 393646AA | TR-NPN,MPS3646,TO-92,EBC | -.40V,15V,5V,0.3A | |
| Q106 | 47.4 | 72.2 | 891 390006XB | TR-NPN,KSC945,TO-92,EBC | 0.25W,60V,50V,5V,0.15A | |
| Q107 | 59.1 | 55.5 | 891 391008XA | TR-NPN,KSC1008,TO-92,ECB | 0.8W,80V,60V,8V,0.7A | |
| Q108 | 59.4 | 49.6 | 891 390006XB | TR-NPN,KSC945,TO-92,EBC | 0.25W,60V,50V,5V,0.15A | |
| Q109 | 59.3 | 44.3 | 891 123906XANC | TR-PNP,2N3906,TO-92,EBC | 0.625W,40V,40V,5V,0.2A | |
| Q110 | 105.5 | 30.3 | 891 323904XANC | TR-NPN,2N3904,TO-92,EBC | 0.625W,60V,40V,6V,0.2A | |
| Q111 | 59.5 | 37.5 | 891 393646AA | TR-NPN,MPS3646,TO-92,EBC | -.40V,15V,5V,0.3A | |
| Q112 | 59.4 | 16.5 | 891 323904XANC | TR-NPN,2N3904,TO-92,EBC | 0.625W,60V,40V,6V,0.2A | |
| Q114 | 147.2 | 67.8 | 891 325770AA | TR-NPN,2N5770,TO-92 | 0.45W,30V,15V,4.5V,8MA | |
| Q115 | 147.7 | 56.4 | 891 325770AA | TR-NPN,2N5770,TO-92 | 0.45W,30V,15V,4.5V,8MA | |
| Q116 | 147.4 | 44.8 | 891 325770AA | TR-NPN,2N5770,TO-92 | 0.45W,30V,15V,4.5V,8MA | |
| R101 | 130.9 | 14.4 | 911 354707GF | REF-MO,47K,5%,1W | 350V,-200 TO +200PPM/C,R-AXIAL | |
| R102 | 22.7 | 44 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |

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| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|------|--------------|---------------------|---------------------------------|---------|
| R103 | 41.6 | 20.8 | 911 143307YA | REF-CF,3.3K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R104 | 38.8 | 27.5 | 911 131207YA | REF-CF,120,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R105 | 27.8 | 21.2 | 911 142207YA | REF-CF,2.2K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R106 | 7.3 | 41 | 911 132207DA | REF-CF,220,5%,1/4W | 250V,-350 TO +350PPM/C,R-AXIAL | |
| R107 | 14 | 33.4 | 911 154707YA | REF-CF,47K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R108 | 15.8 | 41.8 | 911 154707YA | REF-CF,47K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R109 | 87.2 | 59.3 | 911 138207YA | REF-CF,820,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R111 | 231.8 | 32 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,R-AXIAL | |
| R112 | 231.7 | 29.6 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,R-AXIAL | |
| R114 | 152.1 | 91.7 | 911 152007YA | REF-CF,20K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R115 | 51.1 | 62.9 | 911 152207YA | REF-CF,22K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R116 | 53.5 | 73.6 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,R-AXIAL | |
| R117 | 49 | 53.1 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,R-AXIAL | |
| R118 | 44.9 | 32.4 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,R-AXIAL | |
| R119 | 53.8 | 38.6 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R120 | 38.1 | 17.4 | 911 143307YA | REF-CF,3.3K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R121 | 65 | 58.4 | 911 151207YA | REF-CF,12K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R122 | 55.8 | 64.1 | 911 145607YA | REF-CF,5.6K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R123 | 55.3 | 53 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R124 | 108.6 | 73 | 911 123307YA | REF-CF,33,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R125 | 102.5 | 31 | 911 142207YA | REF-CF,2.2K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R126 | 104.8 | 39.7 | 911 142207YA | REF-CF,2.2K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R127 | 81.9 | 39.7 | 911 142207YA | REF-CF,2.2K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R128 | 48.8 | 20.7 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,R-AXIAL | |
| R129 | 79.3 | 36 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R130 | 105.4 | 15.6 | 911 134707YA | REF-CF,470,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R131 | 59.5 | 34 | 911 141507YA | REF-CF,1.5K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R132 | 66 | 31.5 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R133 | 59.4 | 27.5 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R134 | 65.9 | 24.7 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,R-AXIAL | |
| R135 | 45.8 | 10.2 | 911 137507YA | REF-CF,750,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R136 | 96 | 28.5 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R137 | 137.3 | 66.9 | 911 121007YA | REF-CF,10,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R138 | 119.5 | 33.1 | 911 451205DA | REF-MF,12K,1%,1/4W | 250V,-100 TO +100PPM/C,R-AXIAL | |
| R139 | 130.4 | 29.9 | 911 442205DA | REF-MF,2.2K,1%,1/4W | 250V,-100 TO +100PPM/C,R-AXIAL | |
| R140 | 141.7 | 77.2 | 911 122207YA | REF-CF,22,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R141 | 229.8 | 44.7 | 911 143307YA | REF-CF,3.3K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R142 | 229.4 | 50.2 | 911 164707YA | REF-CF,470K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R143 | 229.9 | 36.8 | 911 147507YA | REF-CF,7.5K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R144 | 236.4 | 42.1 | 911 145107YA | REF-CF,5.1K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R146 | 208.5 | 52.7 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,R-AXIAL | |
| R147 | 208.8 | 43.4 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,R-AXIAL | |
| R148 | 215.7 | 39.7 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,R-AXIAL | |
| R149 | 114.9 | 10.6 | 911 131007FA | REF-CF,100,5%,1/2W | 350V,-350 TO +350PPM/C,R-AXIAL | |
| R151 | 193.1 | 47 | 911 152707YA | REF-CF,27K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R152 | 59.9 | 78.9 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R153 | 57.4 | 78.9 | 911 154707YA | REF-CF,47K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R154 | 62.5 | 78.9 | 911 125607YA | REF-CF,56,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R155 | 65.1 | 78.9 | 911 125607YA | REF-CF,56,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R160 | 24.9 | 46.3 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R165 | 27.5 | 48.5 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R166 | 30.6 | 77.7 | 911 121007YA | REF-CF,10,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R167 | 12.9 | 78.7 | 911 121007YA | REF-CF,10,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R168 | 14.5 | 61.4 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R169 | 15.8 | 78.7 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R170 | 55 | 78.9 | 911 154707YA | REF-CF,47K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |

(⚠ : Caution, ● : Specialty part for this monitor only, ⚡ : ESD Caution)

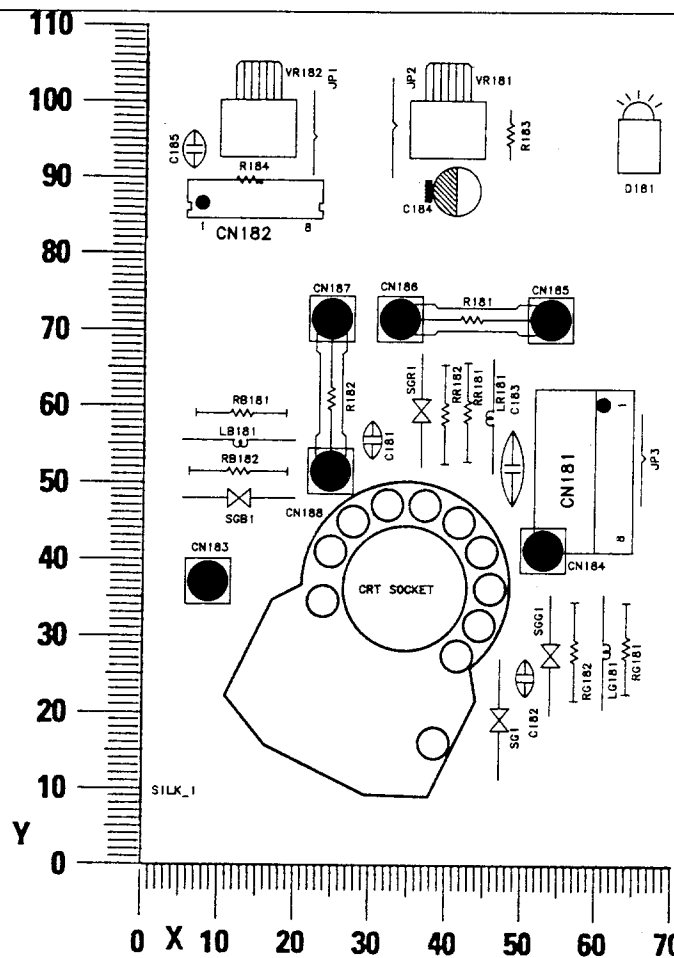
| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|-------|--------------|---------------------|---------------------------------|---------|
| RB1 | 140.9 | 81 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RB2 | 56.8 | 100 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RB3 | 92.3 | 43.2 | 911 133007DA | REF-CF,300,5%,1/4W | 250V,-350 TO +350PPM/C,R-AXIAL | |
| RB4 | 95 | 43.3 | 911 131207YA | REF-CF,120,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RB5 | 100.3 | 49.8 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RB6 | 102.8 | 49.8 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RB7 | 137.4 | 42.8 | 911 133907YA | REF-CF,390,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RB9 | 218.5 | 23.5 | 911 152007YA | REF-CF,20K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RB11 | 216 | 23.4 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,R-AXIAL | |
| RB12 | 224 | 17.3 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,R-AXIAL | |
| RB14 | 231 | 14.9 | 911 161207YA | REF-CF,120K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RB15 | 159.1 | 45.2 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RB16 | 149.2 | 39.5 | 911 132707FF | REF-CF,270,5%,1/2W | 300V,-200 TO +200PPM/C,R-AXIAL | |
| RB17 | 146.5 | 34.4 | 911 127507YA | REF-CF,75,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RB18 | 141.4 | 14.3 | 911 123307YA | REF-CF,33,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RB19 | 167 | 42.5 | 911 162707YA | REF-CF,270K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RB21 | 159.1 | 42.5 | 911 162707YA | REF-CF,270K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RG1 | 130.5 | 85.1 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RG2 | 78.3 | 93.5 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RG3 | 89.4 | 58.5 | 911 133007DA | REF-CF,300,5%,1/4W | 250V,-350 TO +350PPM/C,R-AXIAL | |
| RG4 | 95.6 | 60.6 | 911 131207YA | REF-CF,120,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RG5 | 98.1 | 54.2 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RG6 | 100.7 | 54.2 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RG7 | 137.5 | 53 | 911 133907YA | REF-CF,390,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RG9 | 212.2 | 21.8 | 911 152007YA | REF-CF,20K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RG11 | 209.6 | 21.8 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,R-AXIAL | |
| RG12 | 224.1 | 22.3 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,R-AXIAL | |
| RG14 | 231.1 | 19.8 | 911 161207YA | REF-CF,120K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RG15 | 159.1 | 61.6 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RG16 | 152.6 | 59.2 | 911 132707FF | REF-CF,270,5%,1/2W | 300V,-200 TO +200PPM/C,R-AXIAL | |
| RG17 | 153.9 | 49.8 | 911 127507YA | REF-CF,75,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RG18 | 151.7 | 22.7 | 911 123307YA | REF-CF,33,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RG19 | 173.4 | 41.2 | 911 162707YA | REF-CF,270K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RG21 | 170.8 | 47.6 | 911 162707YA | REF-CF,270K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RL101 | 69.4 | 83.2 | 927 300025AB | RELAY-MINIATURE,12V | 1FORMC,3A,400MW,5MS,5MS | |
| RL102 | 92.3 | 64.7 | 927 300023AB | RELAY-MINIATURE,12V | 2FORMC,3A,200MW,5MS,3MS | |
| RR1 | 128.4 | 101.8 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RR2 | 102.1 | 93.5 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RR3 | 97.8 | 72.6 | 911 133007DA | REF-CF,300,5%,1/4W | 250V,-350 TO +350PPM/C,R-AXIAL | |
| RR4 | 100.3 | 79.2 | 911 131207YA | REF-CF,120,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RR5 | 102.9 | 72.7 | 911 144707YA | REF-CF,4.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RR6 | 105.5 | 72.8 | 911 151007YA | REF-CF,10K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RR7 | 137.3 | 69.4 | 911 133907YA | REF-CF,390,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RR9 | 211 | 31.3 | 911 152007YA | REF-CF,20K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RR11 | 213.4 | 32.7 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,R-AXIAL | |
| RR12 | 224.1 | 27.2 | 911 141007YA | REF-CF,1K,5%,1/6W | 150V,-1300 TO +350PPM,R-AXIAL | |
| RR14 | 231.1 | 24.8 | 911 161207YA | REF-CF,120K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RR15 | 152.4 | 72.5 | 911 131007YA | REF-CF,100,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RR16 | 155.8 | 80.5 | 911 132707FF | REF-CF,270,5%,1/2W | 300V,-200 TO +200PPM/C,R-AXIAL | |
| RR17 | 159 | 67.4 | 911 127507YA | REF-CF,75,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RR18 | 169.9 | 24.1 | 911 123307YA | REF-CF,33,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RR19 | 180.9 | 40.5 | 911 162707YA | REF-CF,270K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RR21 | 178.4 | 40.5 | 911 162707YA | REF-CF,270K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| U4 | 40.7 | 100 | 935 620901AA | CON-JACK BNC | ST : | |
| U5 | 64.7 | 100 | 935 620901AA | CON-JACK BNC | ST : | |
| U6 | 88.7 | 100 | 935 620901AA | CON-JACK BNC | ST : | |

( : Caution,  : Specialty part for this monitor only,  : ESD Caution)

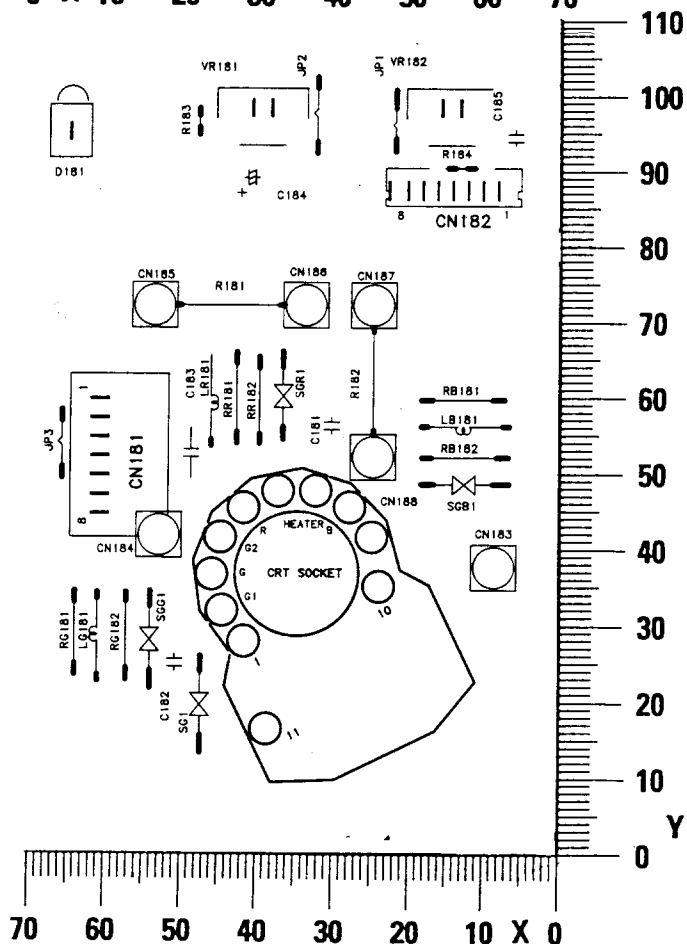
| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|----------|-------------------|-------|--------------|--------------------------|-------------------|---------|
| U7 | 112.7 | 100 | 935 620901AA | CON-JACK BNC | ST : | |
| ZD101 | 10.6 | 70.8 | 893 290031FB | DIODE-ZEN,UZ-5.1B,D0-35 | 0.5W,-,10MA,-,-,- | |
| ZD102 | 62.9 | 107.7 | 893 290031FB | DIODE-ZEN,UZ-5.1B,D0-35 | 0.5W,-,10MA,-,-,- | |
| ZD103 | 32.7 | 91.9 | 893 290031FB | DIODE-ZEN,UZ-5.1B,D0-35 | 0.5W,-,10MA,-,-,- | |
| ZD104 | 19.9 | 92.3 | 893 290031FB | DIODE-ZEN,UZ-5.1B,D0-35 | 0.5W,-,10MA,-,-,- | |
| ZD105 | 42.4 | 32.4 | 893 290002AC | DIODE-ZEN,ZPD2,7,D0-35 | 0.5W,-,5MA,-,-,- | |
| ZD108 | 74 | 31.5 | 893 290031FB | DIODE-ZEN,UZ-5.1B,D0-35 | 0.5W,-,10MA,-,-,- | |
| ZD109 | 162 | 96.7 | 893 290031FB | DIODE-ZEN,UZ-5.1B,D0-35 | 0.5W,-,10MA,-,-,- | |
| ZD110 | 45.4 | 77 | 893 290031FB | DIODE-ZEN,UZ-5.1B,D0-35 | 0.5W,-,10MA,-,-,- | |
| ZD111 | 42.9 | 77 | 893 290031FB | DIODE-ZEN,UZ-5.1B,D0-35 | 0.5W,-,10MA,-,-,- | |
| ZD112 | 195.3 | 52.8 | 893 299004AE | DIODE-ZEN,BZX79C5V6,D035 | 0.5W,-,5MA,-,-,- | |
| ZD113 | 21.7 | 76.9 | 893 299004AE | DIODE-ZEN,BZX79C5V6,D035 | 0.5W,-,5MA,-,-,- | |
| ZD114 | 27 | 98.2 | 893 299004AE | DIODE-ZEN,BZX79C5V6,D035 | 0.5W,-,5MA,-,-,- | |

9-3-1 PCB Layout

CRT PCB and VR PCB (Top View)



CRT PCB and VR PCB (Bottom View)



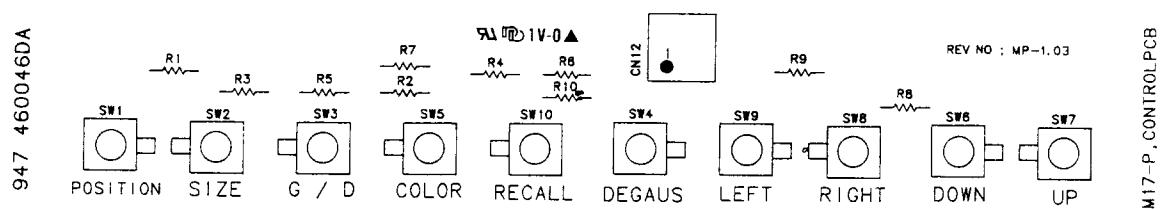
9-3-2 CRT and VR Parts List

(⚠ : Caution, ● : Specialty part for this monitor only, ⚡ : ESD Caution)

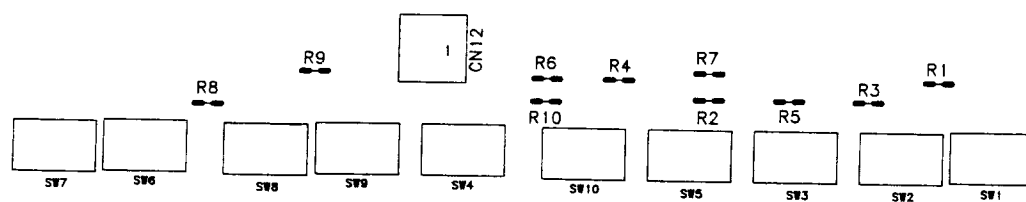
| Loc. No. | Coordinates (X,Y) | | Code No. | Description | Specification | Remarks |
|------------|-------------------|-------|----------------|-----------------------------|---------------------------------|-----------------------|
| C181 | 30.2 | 53.5 | 915 325100HZVH | CAP-CERAMIC,103Z,1H,Y5V | 10NF,50V,-20 TO 80%,-80TO30%,Y5 | ● |
| C182 | 50.8 | 27.3 | 915 325100VZVH | CAP-CERAMIC,103Z,2H,DISC | 10NF,500V,80-20%,Y5V,RADIAL | |
| C183 | 48.8 | 47.4 | 915 325100YKPY | CAP-CERAMIC,103K,3B,DISK | 10NF,2KV,10%,Y5P,DISK-RADIAL | |
| C184 | 43.5 | 88.7 | 917 863100FMAH | CAP-AL ELEC,107M,1V,6.3x11 | (T)100UF,35V,20%,R-RADIAL | |
| C185 | 6.1 | 91.5 | 915 336100HZVH | CAP-CERAMIC,104Z,1H,Y5V | 100NF,50V,-20 TO 80%,-82TO22% | |
| CN181 | 60.8 | 60.8 | 935 241308EA | CON-WALL HEADER,8P,2.5MM | ANGLE,1WALL,SN | |
| CN182 | 7.3 | 87 | 935 241308KB | CON-WALL HEADER,8P,2MM | ANGLE,3WALL,SN | |
| CN183 | 8.6 | 37.3 | 935 810106AB | AM CON-TERMINAL PIN | RU 03124-700-810 | |
| CN184 | 53 | 41.6 | 935 810106AB | AM CON-TERMINAL PIN | RU 03124-700-810 | |
| CN185 | 53.7 | 71.9 | 935 810106AB | AM CON-TERMINAL PIN | RU 03124-700-810 | |
| CN186 | 33.7 | 71.9 | 935 810106AB | AM CON-TERMINAL PIN | RU 03124-700-810 | |
| CN187 | 24.7 | 71.9 | 935 810106AB | AM CON-TERMINAL PIN | RU 03124-700-810 | |
| CN188 | 24.7 | 51.9 | 935 810106AB | AM CON-TERMINAL PIN | RU 03124-700-810 | ● |
| D181 | 66.3 | 94.8 | 895 110048DA | LED,G/Y,ROUND,4.8MM | 4.8MM,N,100/60MW,5V | |
| JP1 | 22 | 101.7 | 955 005001AAAB | JUMPER | JUMPER | |
| JP2 | 32.4 | 103.5 | 955 005001AAAB | JUMPER | JUMPER | |
| JP3 | 65.9 | 59.6 | 955 005001AAAB | JUMPER | JUMPER | |
| LB181 | 20 | 55.9 | 925 001001AU | INDUCTOR-AXIAL,0.47UH | FIX,0.47UH,20%,4X9.8MM | |
| LG181 | 61.1 | 35.7 | 925 001001AU | INDUCTOR-AXIAL,0.47UH | FIX,0.47UH,20%,4X9.8MM | |
| LR181 | 46.2 | 51.7 | 925 001001AU | INDUCTOR-AXIAL,0.47UH | FIX,0.47UH,20%,4X9.8MM | |
| R181 | 53.7 | 71.9 | 911 311207LA | REF-MO,1.2,5%,3W | -, -350 TO +350PPM/C,R-AXIAL | |
| R182 | 24.7 | 71.9 | 911 311207LA | REF-MO,1.2,5%,3W | -, -350 TO +350PPM/C,R-AXIAL | |
| R183 | 48 | 99.4 | 911 133307YA | REF-CF,330,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R184 | 10 | 90 | 911 151507YA | REF-CF,15K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| RB181 | 19.8 | 59.4 | 911 136807DA | REF-CF,680,5%,1/4W | 250V,-350 TO +350PPM/C,R-AXIAL | |
| RB182 | 5 | 51.8 | 911 223908FA | REF-CC,39,10%,1/2W | 350V,-,R-AXIAL | |
| RG181 | 64.1 | 35.7 | 911 136807DA | REF-CF,680,5%,1/4W | 250V,-350 TO +350PPM/C,R-AXIAL | |
| RG182 | 57.3 | 20.8 | 911 223908FA | REF-CC,39,10%,1/2W | 350V,-,R-AXIAL | |
| RR181 | 42.8 | 52.2 | 911 136807DA | REF-CF,680,5%,1/4W | 250V,-350 TO +350PPM/C,R-AXIAL | |
| RR182 | 39.8 | 66.9 | 911 223908FA | REF-CC,39,10%,1/2W | 350V,-,R-AXIAL | |
| SG1 | 47.4 | 27.3 | 04569-002-210 | DSP-301N | SPARK-GAP | |
| SGB1 | 20 | 48.3 | 04569-002-210 | DSP-301N | SPARK-GAP | |
| SGG1 | 54.1 | 35.8 | 04569-002-210 | DSP-301N | SPARK-GAP | |
| SGR1 | 36.7 | 52.5 | 04569-002-210 | DSP-301N | SPARK-GAP | |
| VR181 | 42.2 | 98 | 913 145007AB | RES-VAR,ROTARY,5K | 20%,0.05W,SIDE,300 | ● ● ● ⚠ ⚠ |
| VR182 | 17.1 | 98 | 913 151007AB | RES-VAR,ROTARY,10K | 20%,0.05W,SIDE,300,5/6TURN | |
| CRT | | | 897 250130AA | SC-726GXL, CMH7379, HITACHI | M41KKL180X12, ASC COATING | |
| CRT | | | 8H03-10008A | SC-726GXL, CMH7379, SAMSUNG | M41KUN26X01E, ASC COATING | |
| CRT Socket | | | 935 720913AA | CON-JACK CRT SOCKET,12P | PHI29_D/F,SMALL TYPE | |

9-3-1 PCB Layout

Control Top View



Control Bottom View



9-3-2 Control Panel Parts List




(⚠ : Caution, ● : Specialty part for this monitor only, ⚡ : ESD Caution)

| Loc. No. | Code No. | Description | Specification | Remarks |
|----------|--------------|------------------------|---------------------------------|---------|
| SW1 | 933 213005AB | SWITCH-TACT,2P,669.5MM | -,12VDC,50MA,SPST,LOCK | |
| SW2 | 933 213005AB | SWITCH-TACT,2P,669.5MM | -,12VDC,50MA,SPST,LOCK | |
| SW3 | 933 213005AB | SWITCH-TACT,2P,669.5MM | -,12VDC,50MA,SPST,LOCK | |
| SW4 | 933 213005AB | SWITCH-TACT,2P,669.5MM | -,12VDC,50MA,SPST,LOCK | |
| SW5 | 933 213005AB | SWITCH-TACT,2P,669.5MM | -,12VDC,50MA,SPST,LOCK | |
| SW6 | 933 213005AB | SWITCH-TACT,2P,669.5MM | -,12VDC,50MA,SPST,LOCK | |
| SW7 | 933 213005AB | SWITCH-TACT,2P,669.5MM | -,12VDC,50MA,SPST,LOCK | |
| SW8 | 933 213005AB | SWITCH-TACT,2P,669.5MM | -,12VDC,50MA,SPST,LOCK | |
| SW9 | 933 213005AB | SWITCH-TACT,2P,669.5MM | -,12VDC,50MA,SPST,LOCK | |
| SW10 | 933 213005AB | SWITCH-TACT,2P,669.5MM | -,12VDC,50MA,SPST,LOCK | |
| R7 | 911 142707YA | REF-CF,2.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R8 | 911 142707YA | REF-CF,2.7K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R1 | 911 133007YA | REF-CF,300,5%,1/6W | 150V,-600 PPM/C,1.6X3.8MM | |
| R2 | 911 133007YA | REF-CF,300,5%,1/6W | 150V,-600 PPM/C,1.6X3.8MM | |
| R3 | 911 143007YA | REF-CF,3K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R4 | 911 143007YA | REF-CF,3K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R5 | 911 142207YA | REF-CF,2.2K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R6 | 911 142207YA | REF-CF,2.2K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R10 | 911 143907YA | REF-CF,3.9K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| R9 | 911 143907YA | REF-CF,3.9K,5%,1/6W | 150V,-1300 TO +350PPM/C,R-AXIAL | |
| CN12 | 935 240103JA | CON-BOX HEADER,3P,2MM | 1R,STRAIGHT,SN | |


Memo

9-4 Schematic Diagrams

Caution

1. The areas shaded or marked with  on the schematic diagram and parts list designate components which have special characteristics important for safety. Replace these parts only with parts identical to those in the original circuit or specified in the parts list. Before replacing any of these components carefully read the "Product Safety Notice."
2. When taking measurements, pay special attention to the following:
 - 1) Do not use your instrument between primary ground (symbol ) and secondary circuit.
 - 2) Do not use your instrument between secondary ground (symbol ) and primary circuit.

Warning



This equipment contains safety critical components. All parts shown with the  mark on the schematic are safety critical.



Replace safety critical parts with only manufacturer's recommended parts. See parts list for exact replacements.

Note

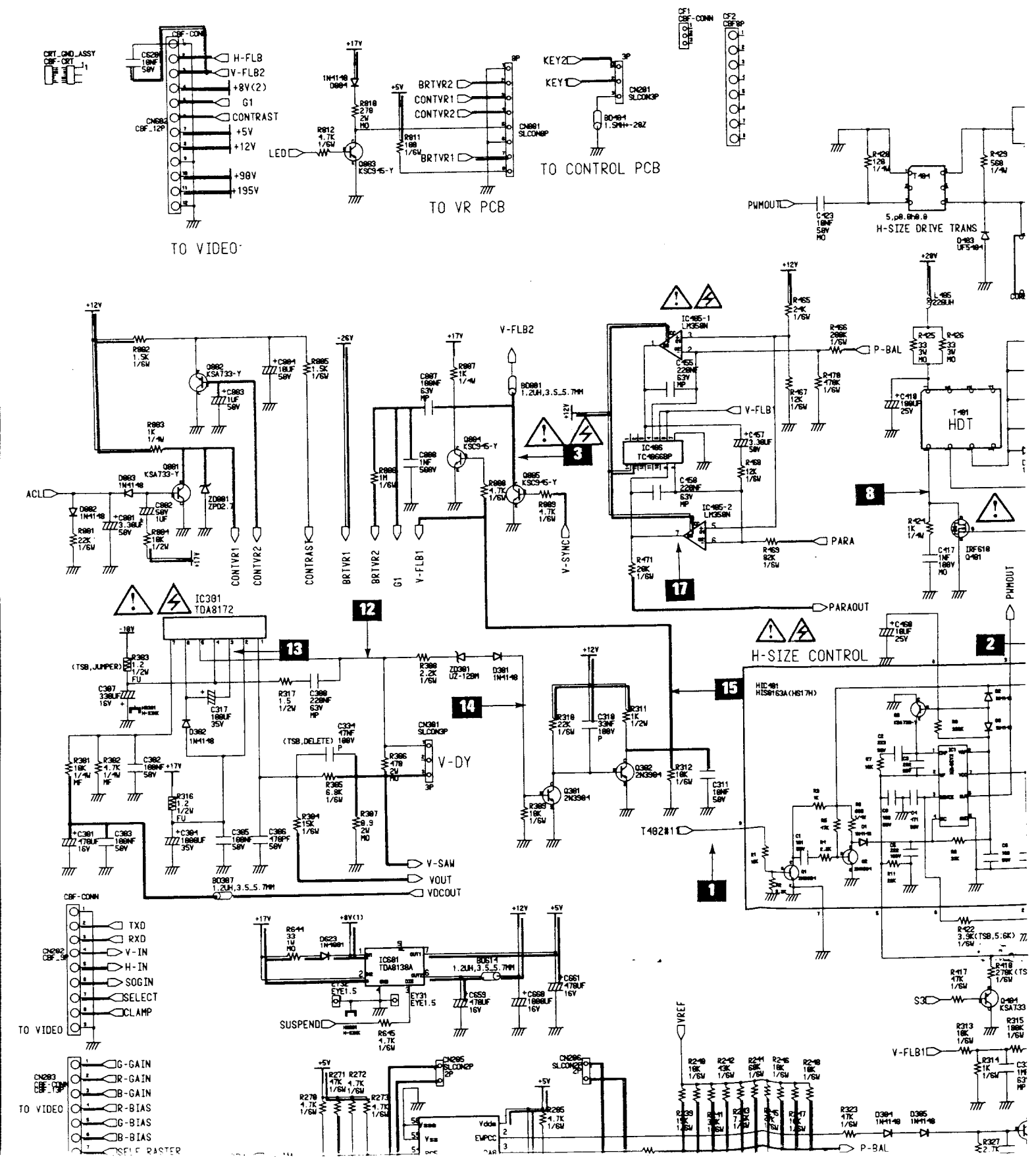
1. Resistance is shown in OHM. K = 1000 M = 1,000,000. The rated power of resistors not noted in schematic diagram is 1/4W.
2. Capacitance is shown in μF . Capacitances not otherwise noted are shown in pF ($1\mu\text{F} = 1,000,000 \text{ pF}$). Rated voltage of condensers not otherwise noted in schematic diagram is 50 V.

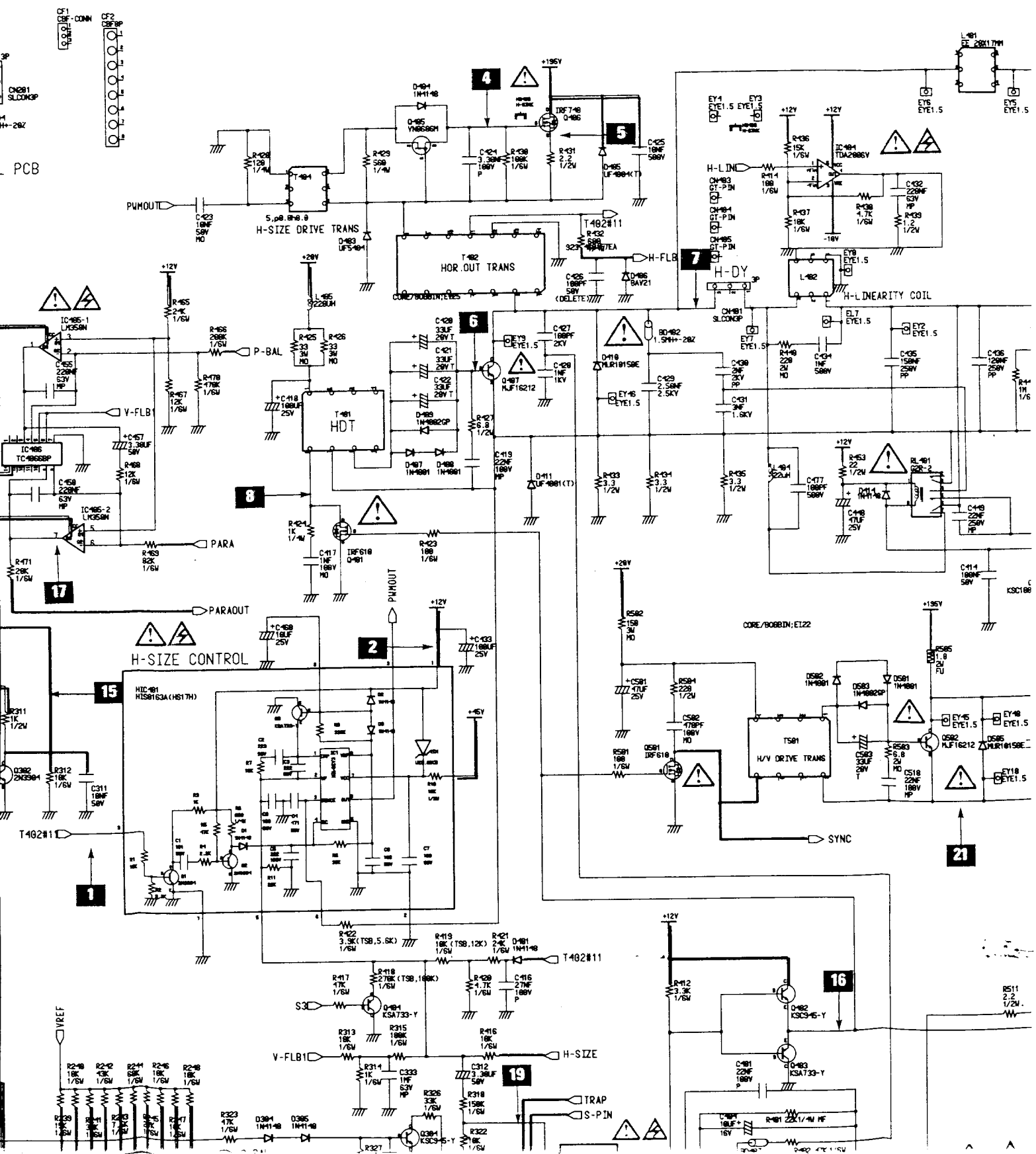
3. Abbreviations and Symbols

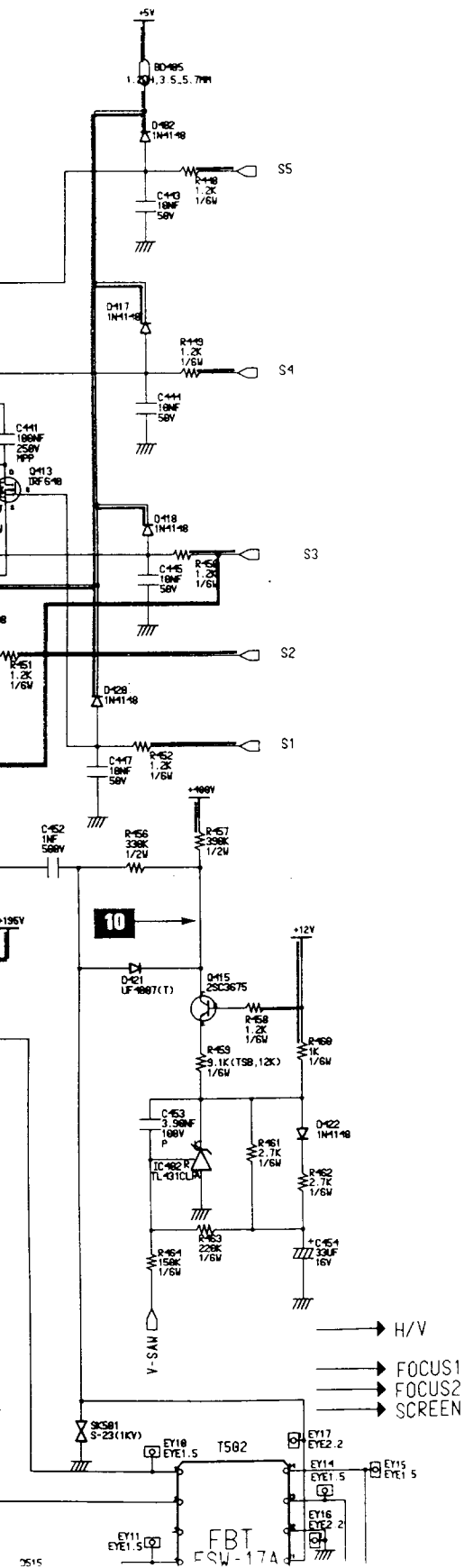
| | | | |
|---|----------------------------------|---|-----------------|
| MO | R-METAL OXIDE | WW | R-WIRE WOUND |
| FU | FUSIBLE | C | R-COMPOSITION |
| CM | R-CEMENT MPP METAL POLYPROPYLENE | PP | C-POLYPROPYLENE |
| MP | C-METAL POLYESTOR | T | C-TANTALUM |
| P | C-POLYESTOR |  | COLD GROUND |
|  | HOT GROUND | | |

4. The secondary voltage is read with an SSVM from the indicated point to cold ground ().
The primary voltage is read with an SSVM from the indicated point to hot ground ().
5. This schematic diagram is subject to change without notice.

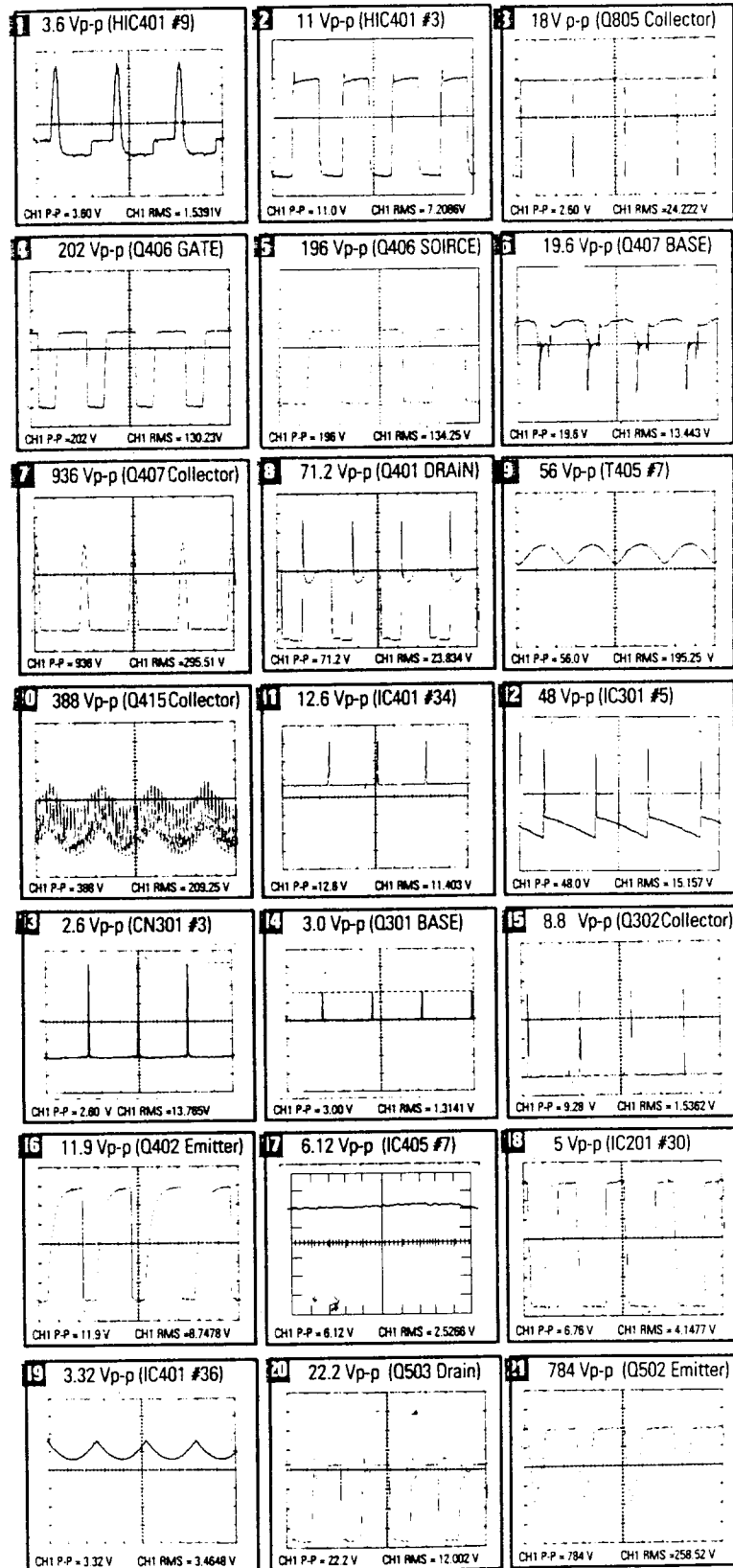
4-1 Main Schematic Diagram and Waveforms





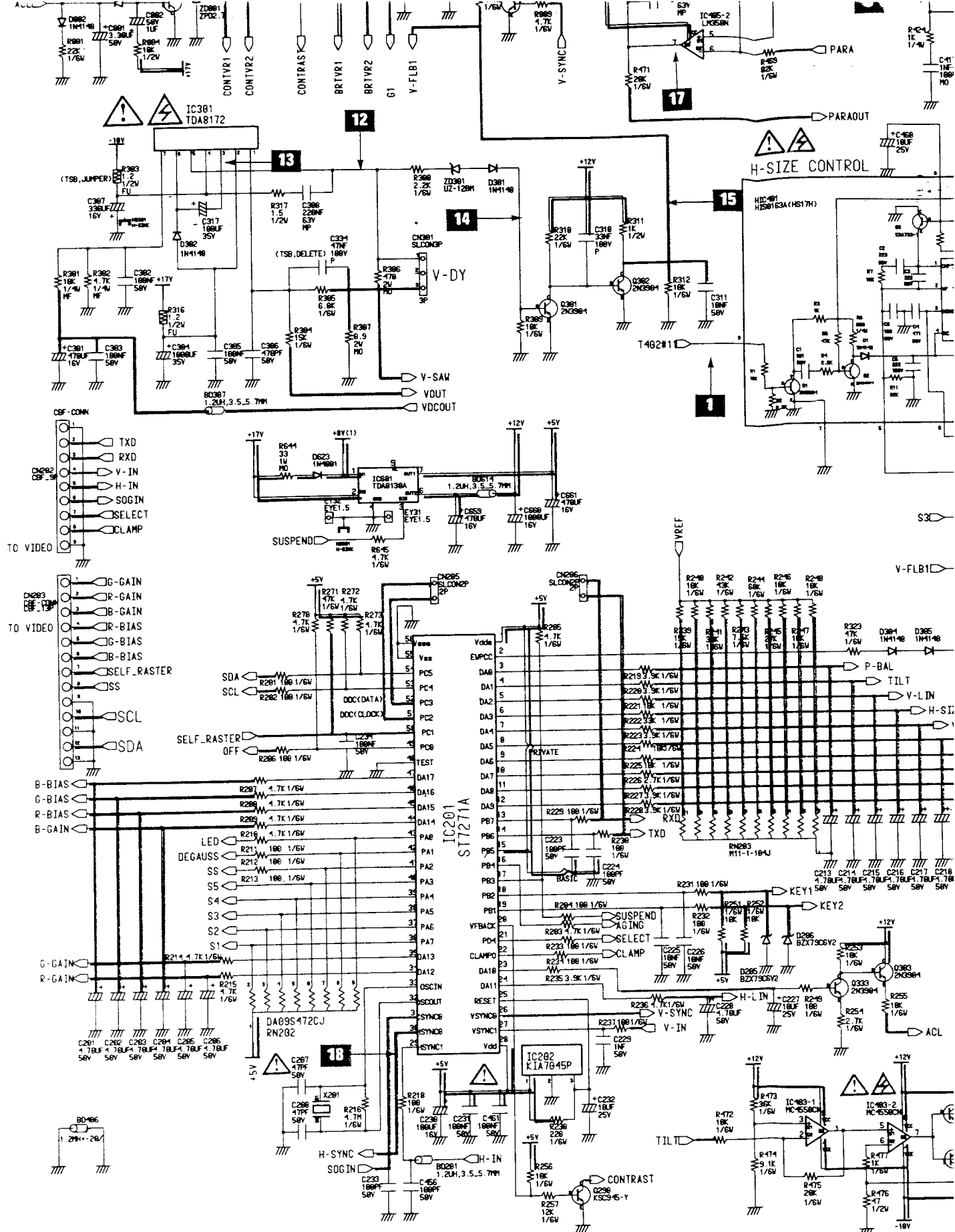


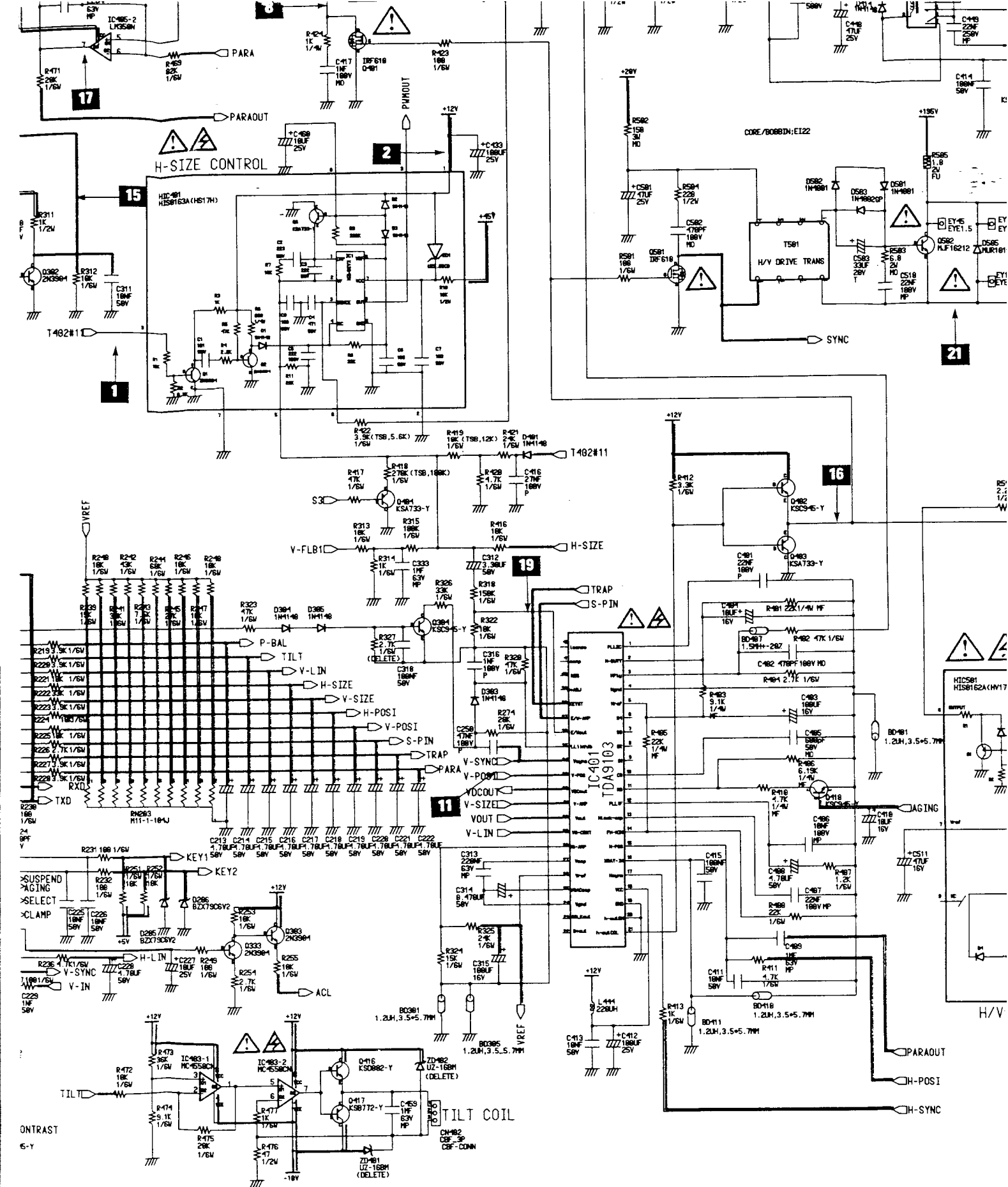
_____ : Power Line
_____ : Signal Line

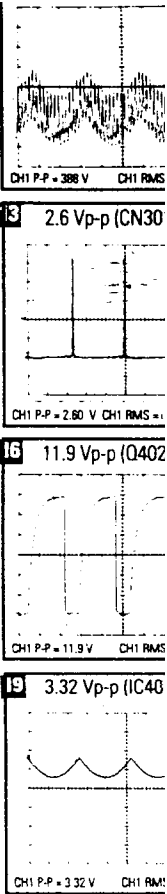


SENSE ☐ 42

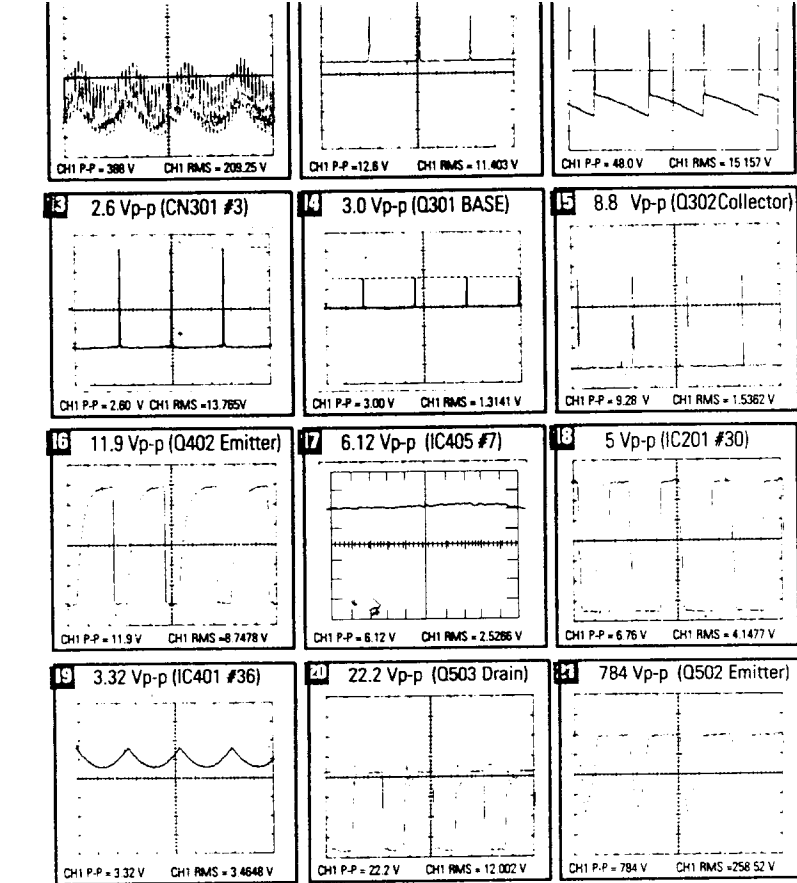
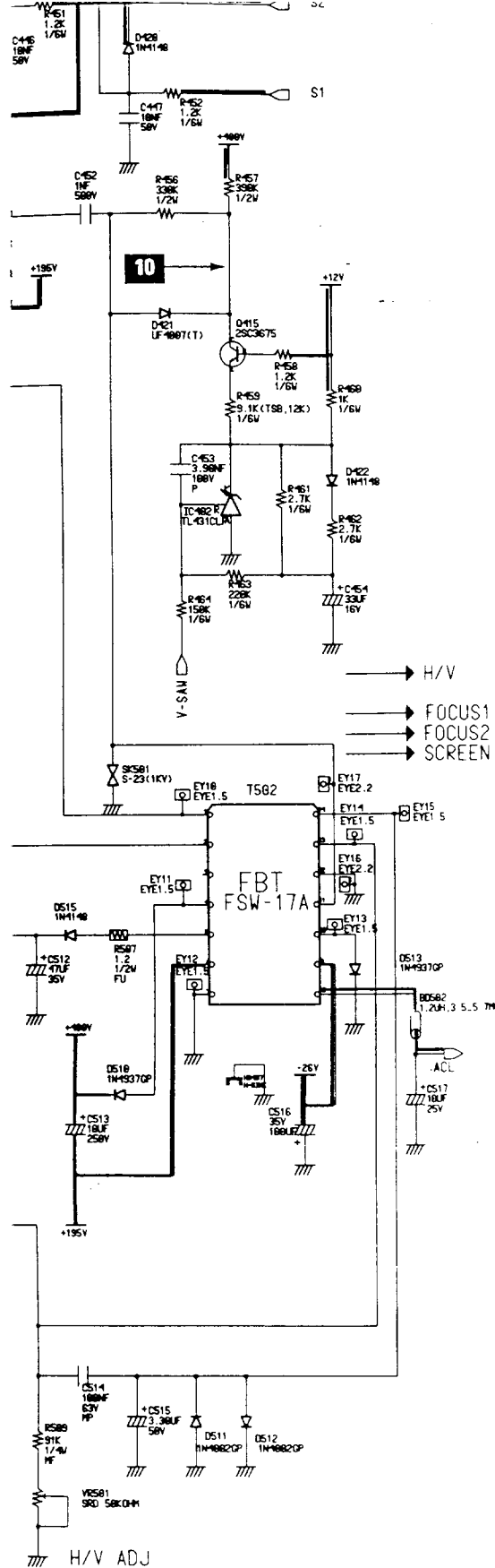
1 ☐ PLL2C





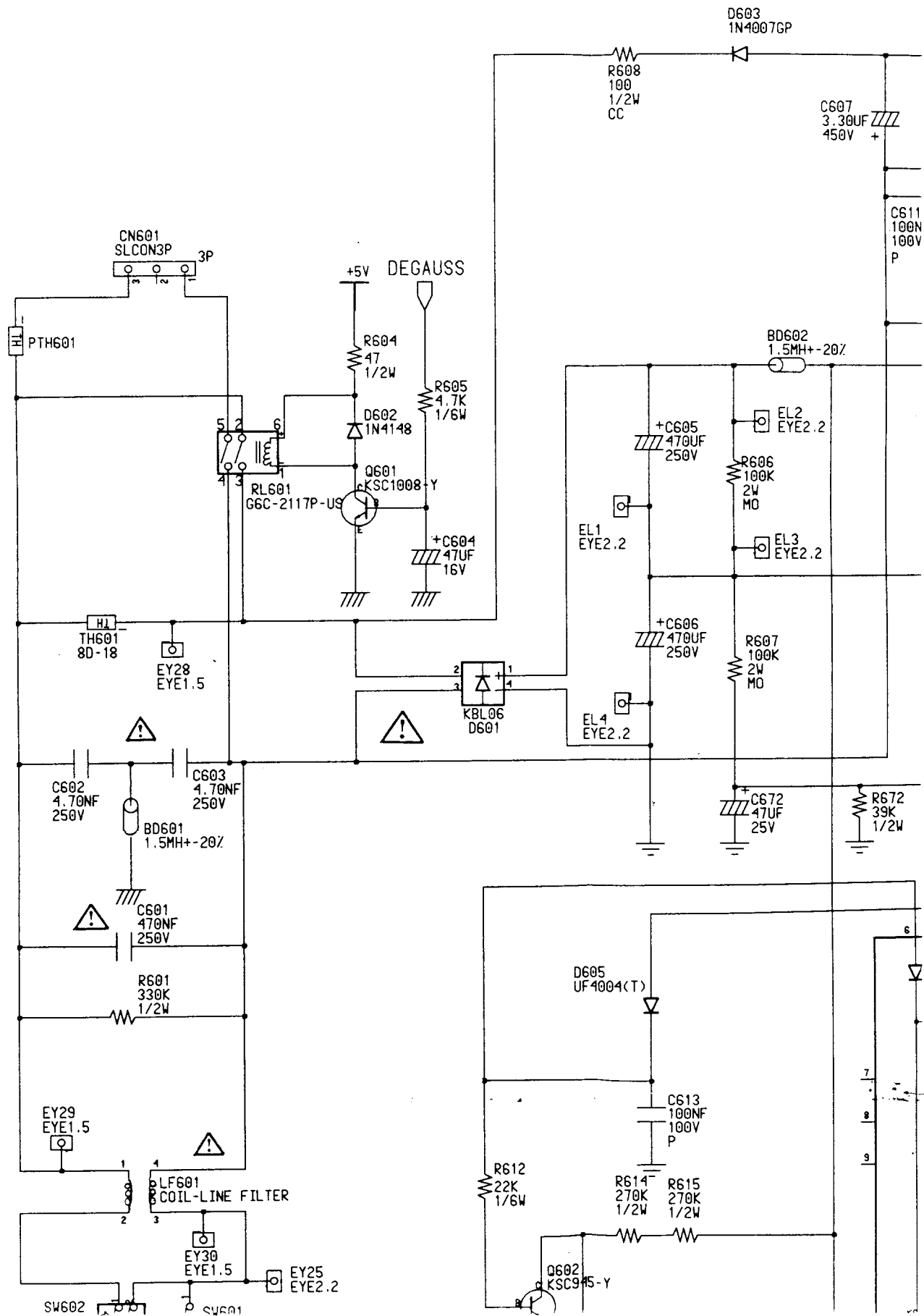


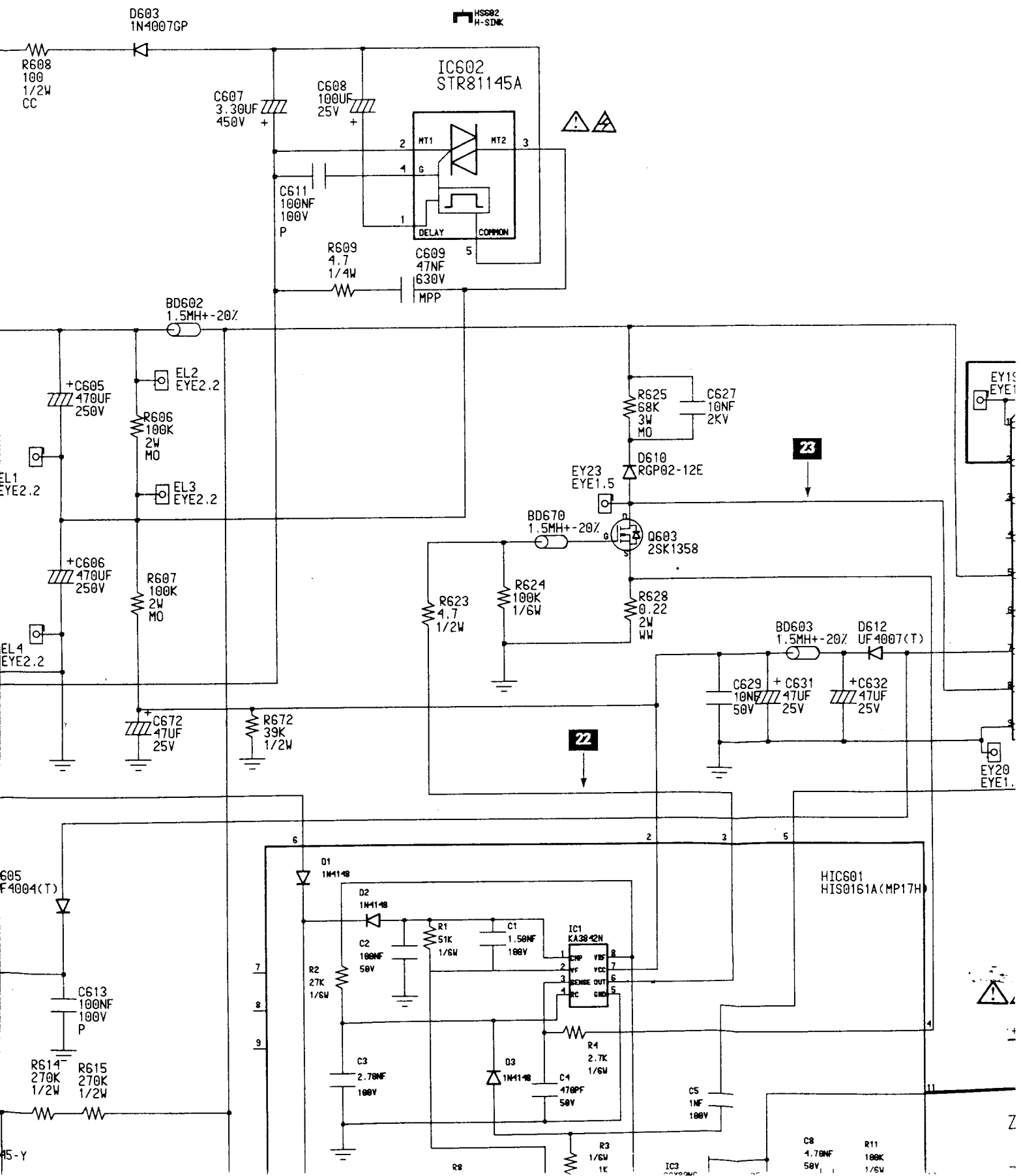
- [illegible]

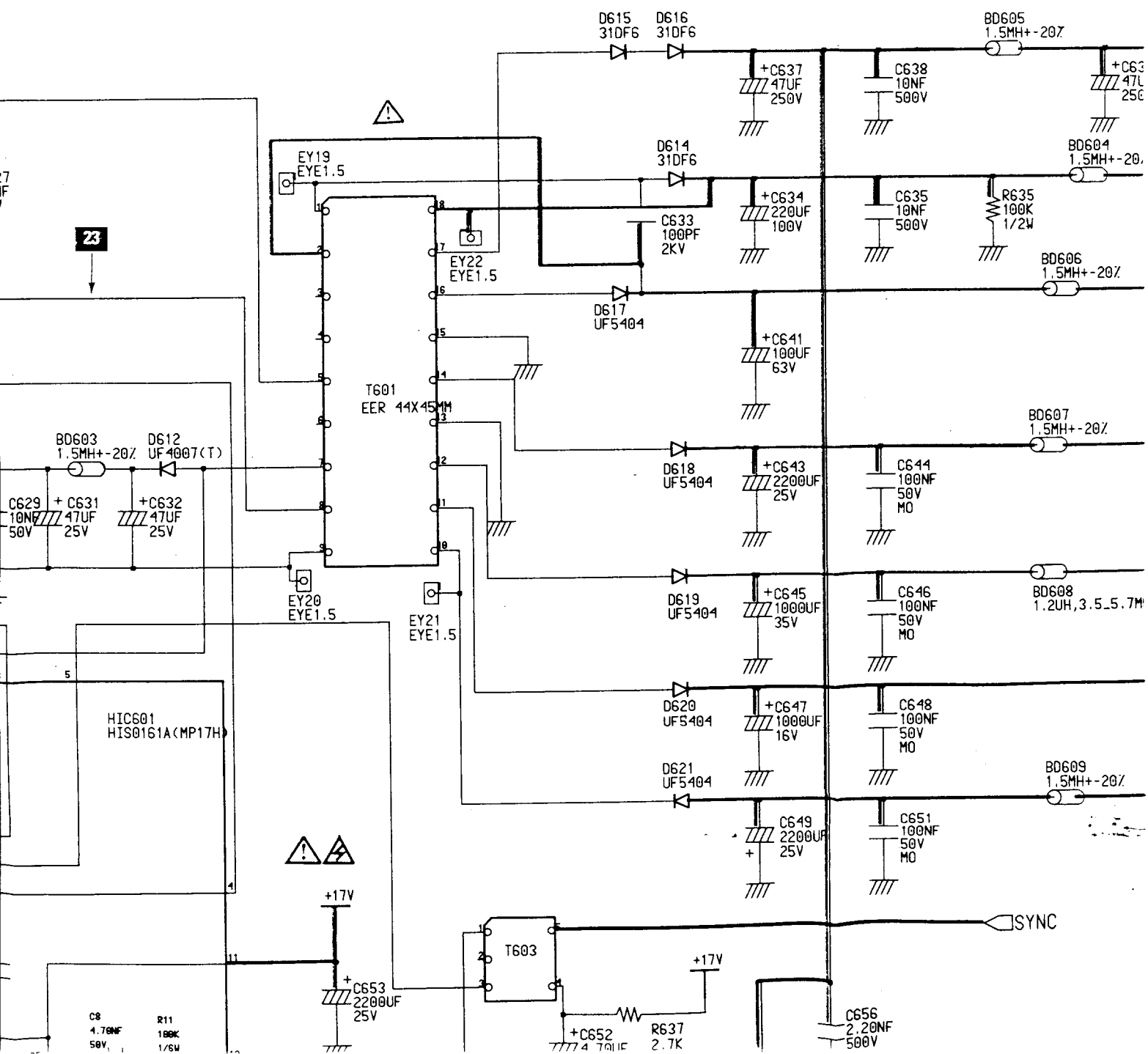


| | | | |
|-----------|----|----|-----------|
| SENSE | 42 | 1 | PLL2C |
| COMP | 41 | 2 | H-DUTY |
| REGIN | 40 | 3 | HFLY |
| B+-ADJ | 39 | 4 | HGND |
| KEYST | 38 | 5 | HREF |
| E/W-AMP | 37 | 6 | S4 |
| E/W OUT | 36 | 7 | S3 |
| PLL1INHIB | 35 | 8 | S2 |
| VSYNC | 34 | 9 | S1 |
| V-POS | 33 | 10 | C0 |
| VDCOUT | 32 | 11 | R0 |
| V-AMP | 31 | 12 | PLL1F |
| VOUT | 30 | 13 | HLOCK-CAP |
| VS-CENT | 29 | 14 | FH-MIN |
| VS-AMP | 28 | 15 | H-POS |
| VCAP | 27 | 16 | XRAY-IN |
| VREF | 26 | 17 | HSYNC |
| VAGCCAP | 25 | 18 | Vcc |
| VGND | 24 | 19 | GND |
| SBLKOUT | 23 | 20 | H-OUTEM |
| B+OUT | 22 | 21 | H-OUTCOL |

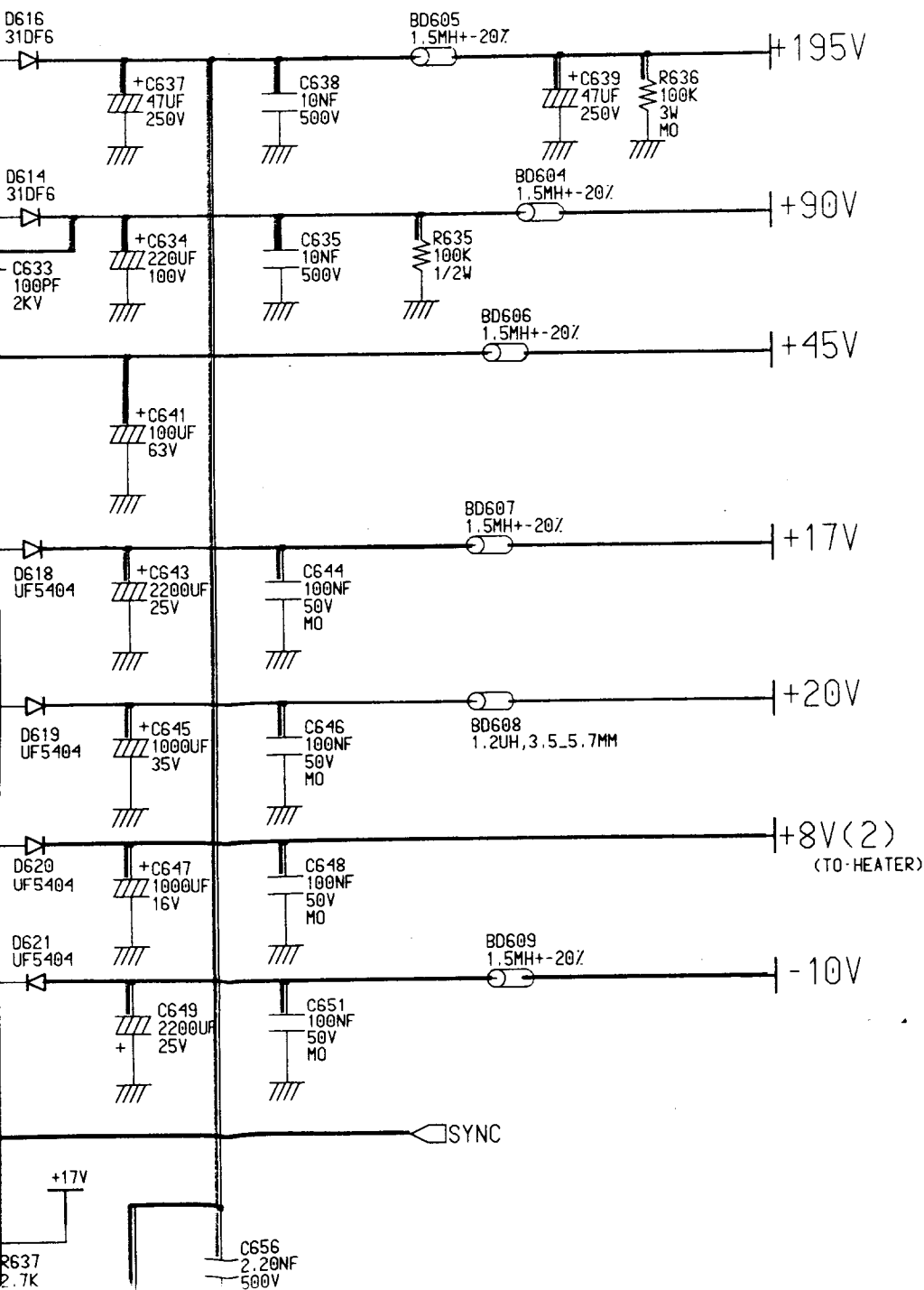
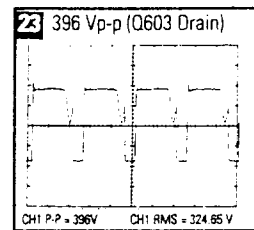
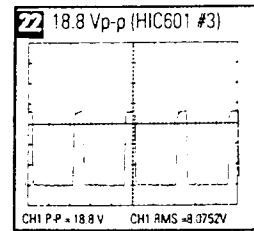
9-4-2 Power Schematic Diagram and Waveforms

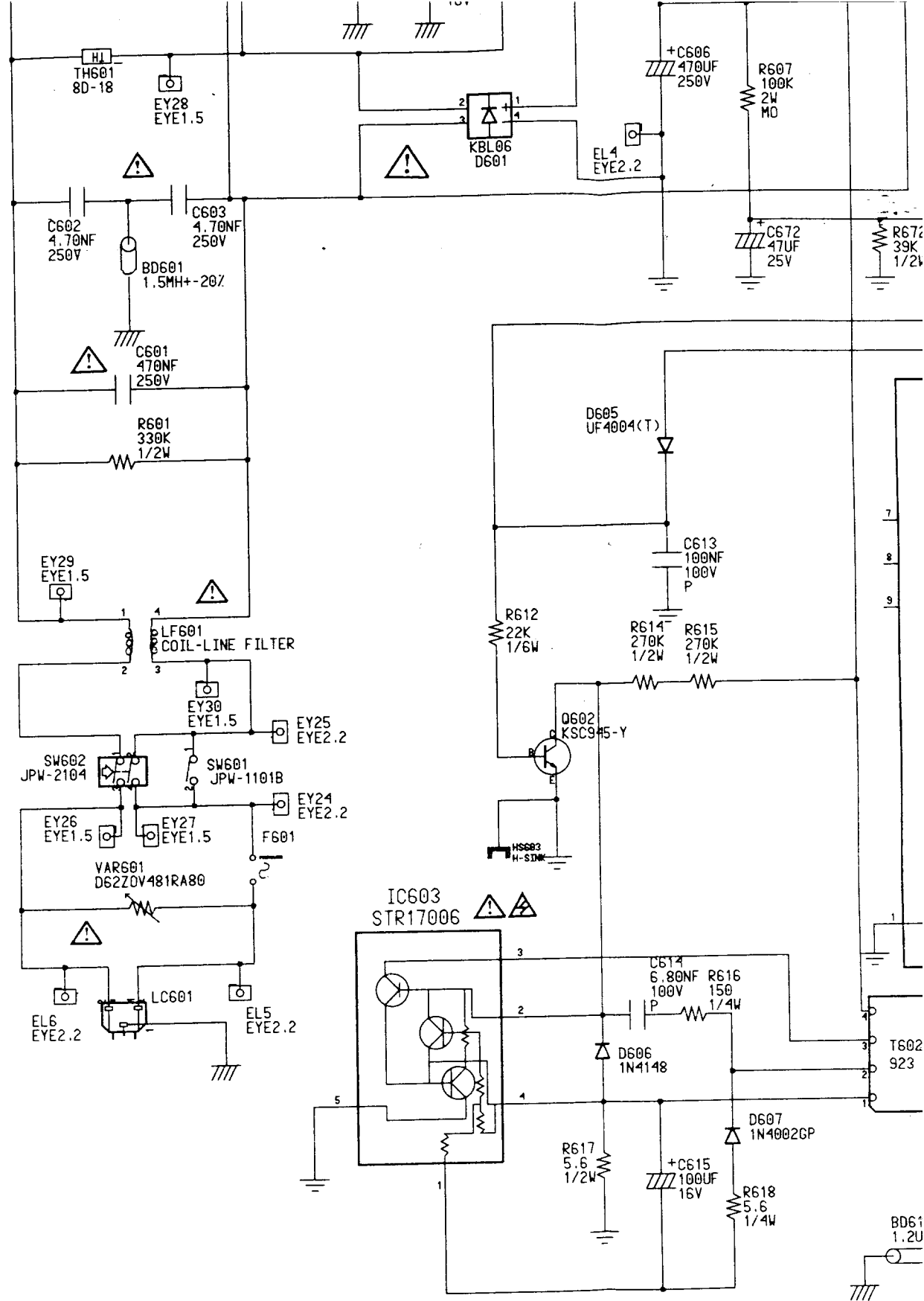


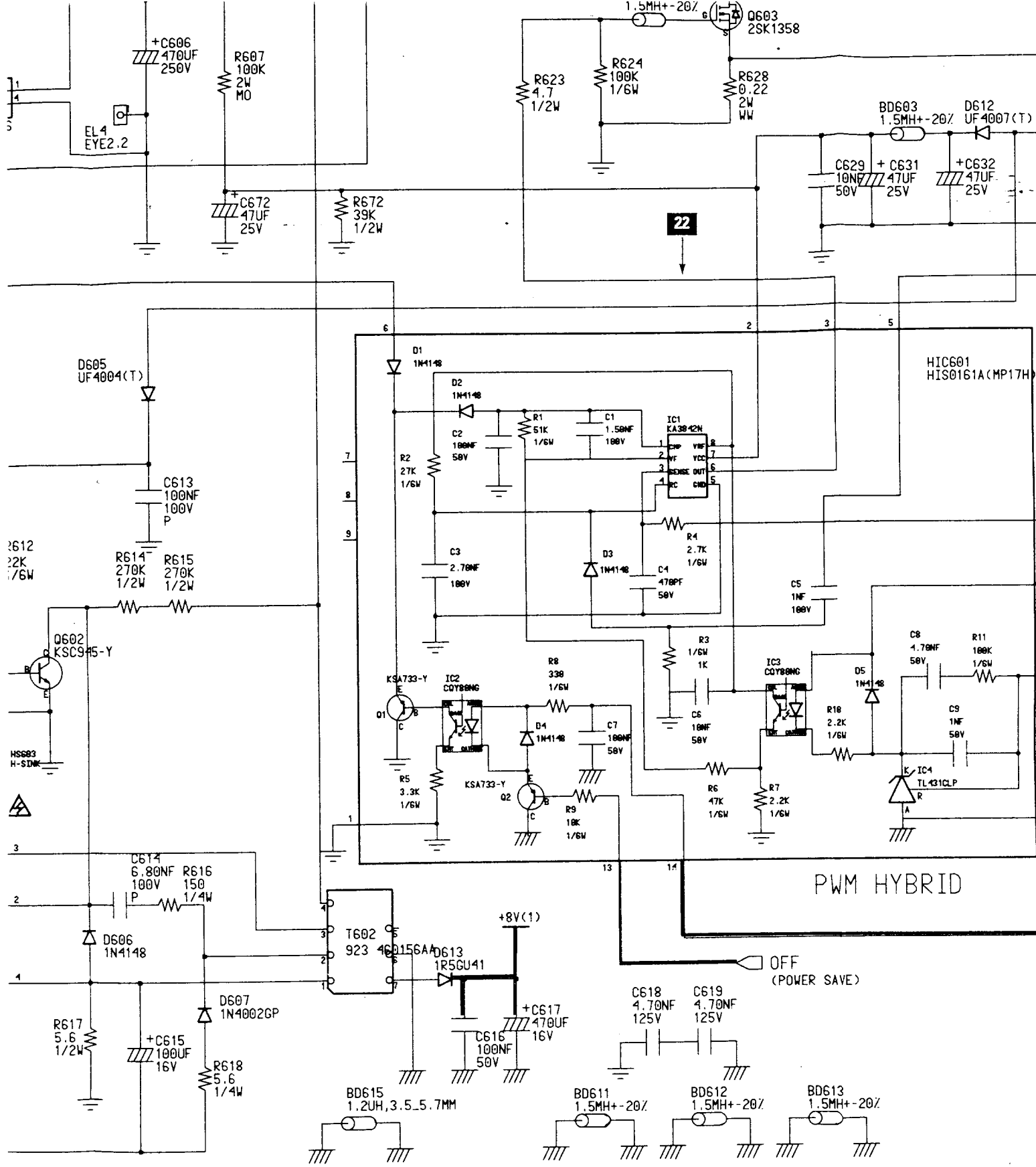




— : Power Line
 — : Signal Line

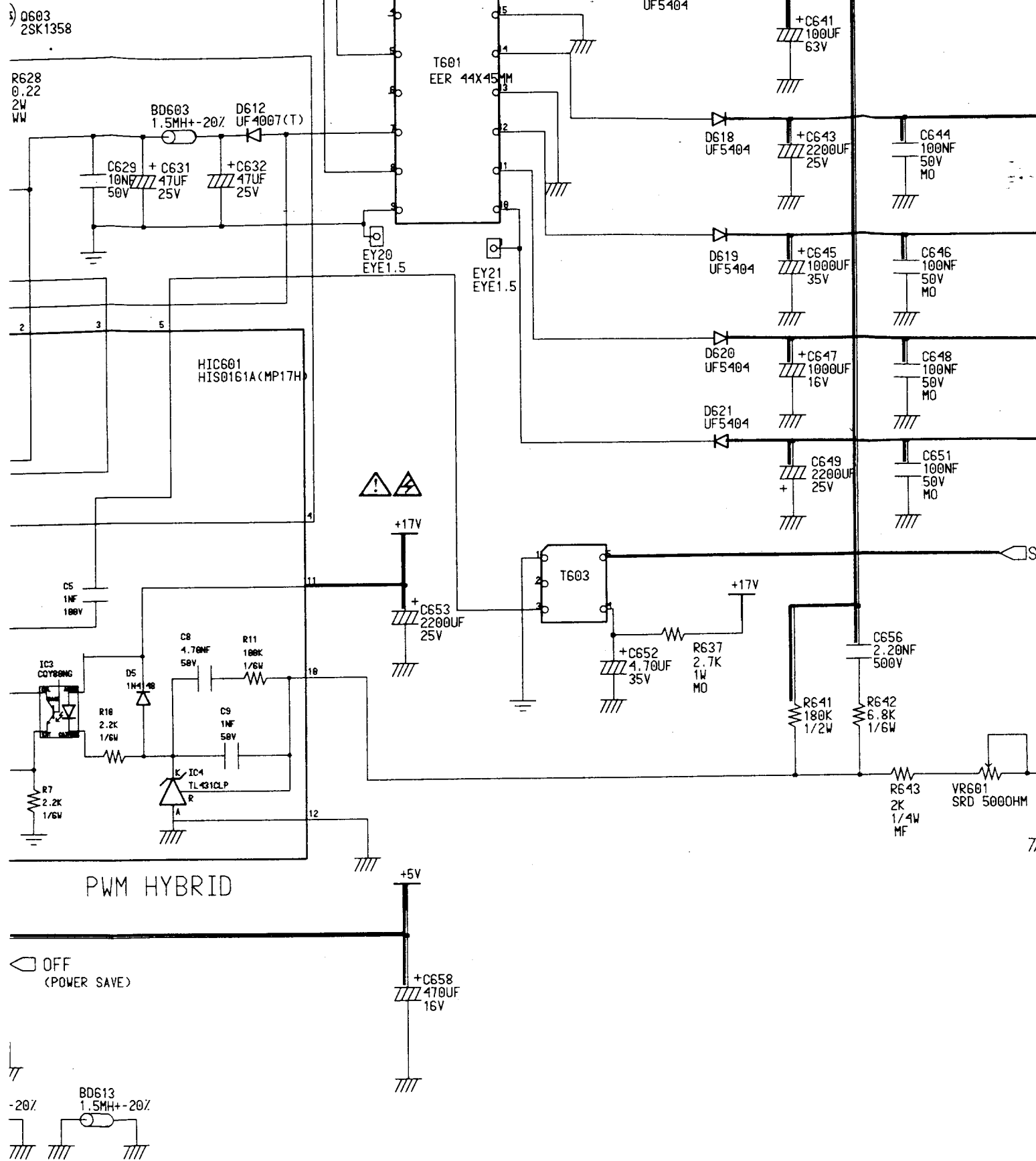




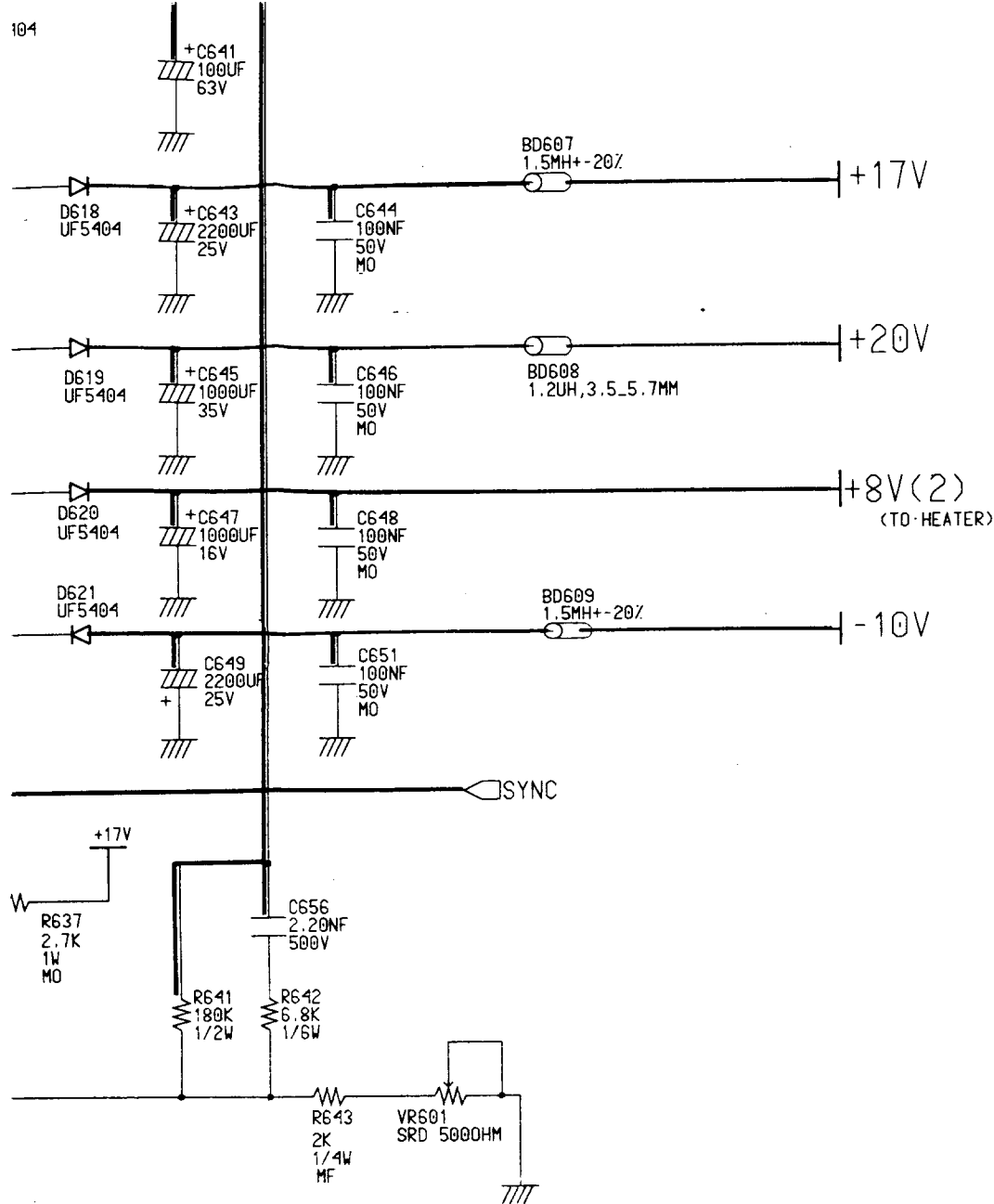


Q603
2SK1358

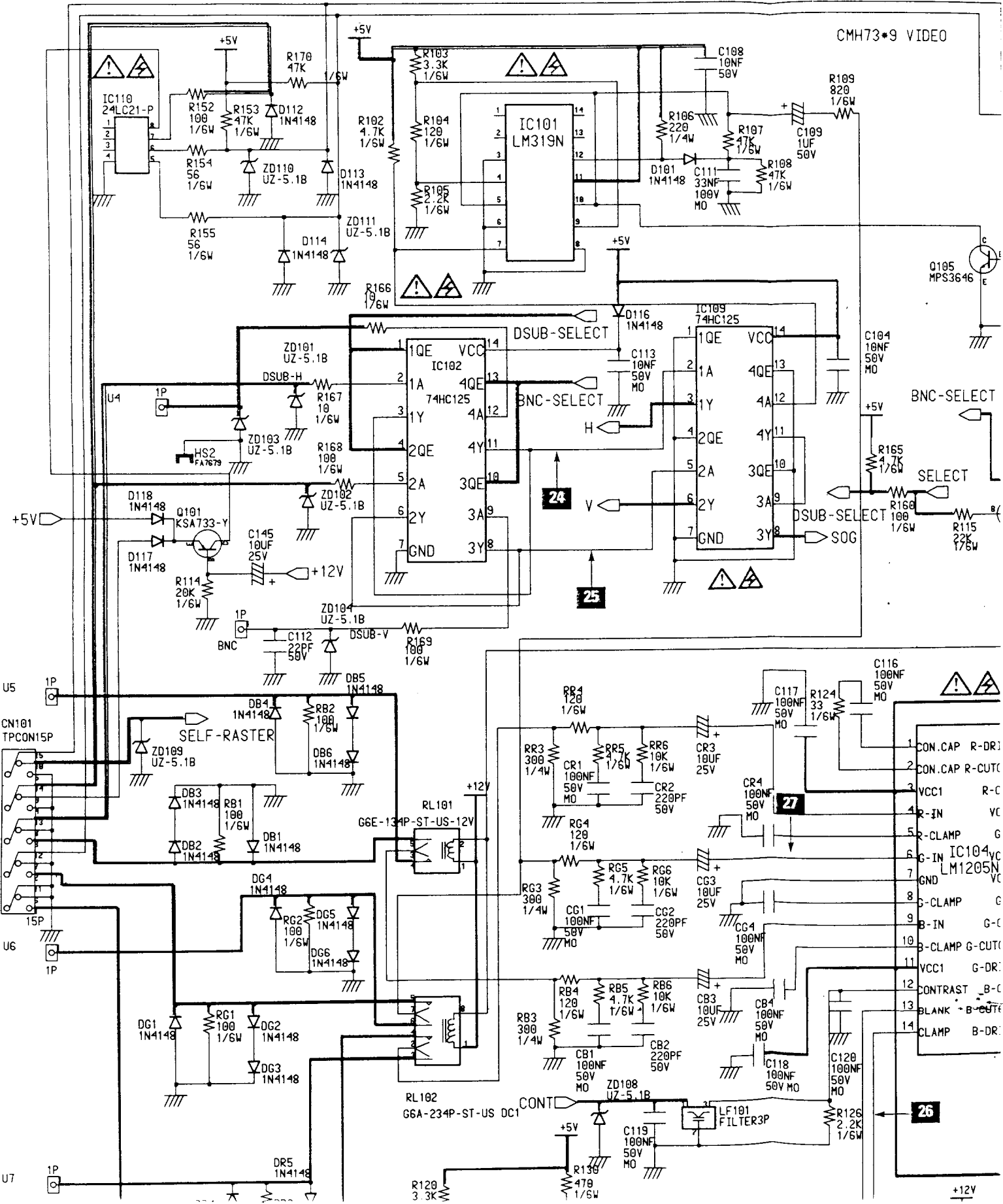
R628
0.22
2W
WW

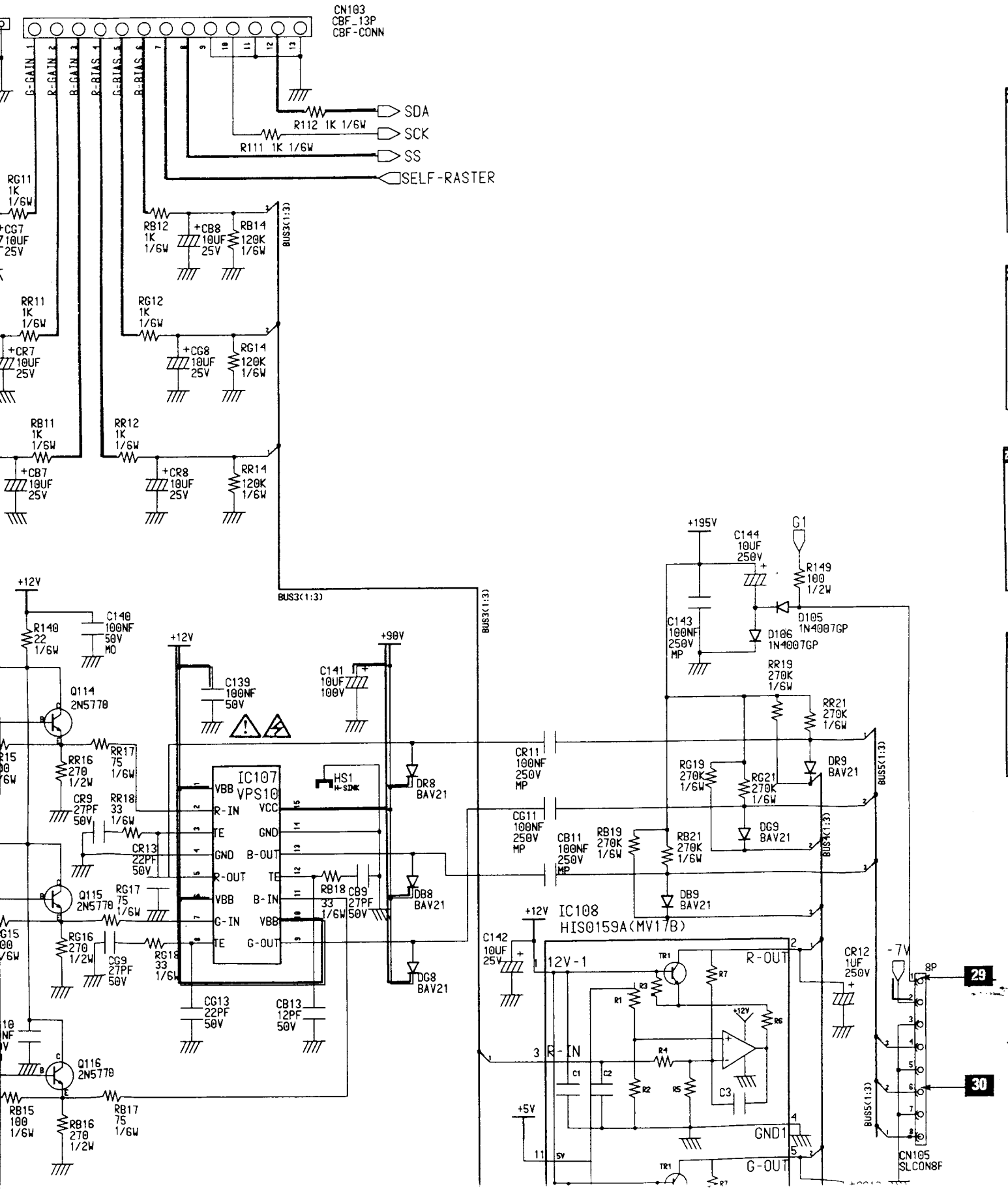


PWM HYBRID

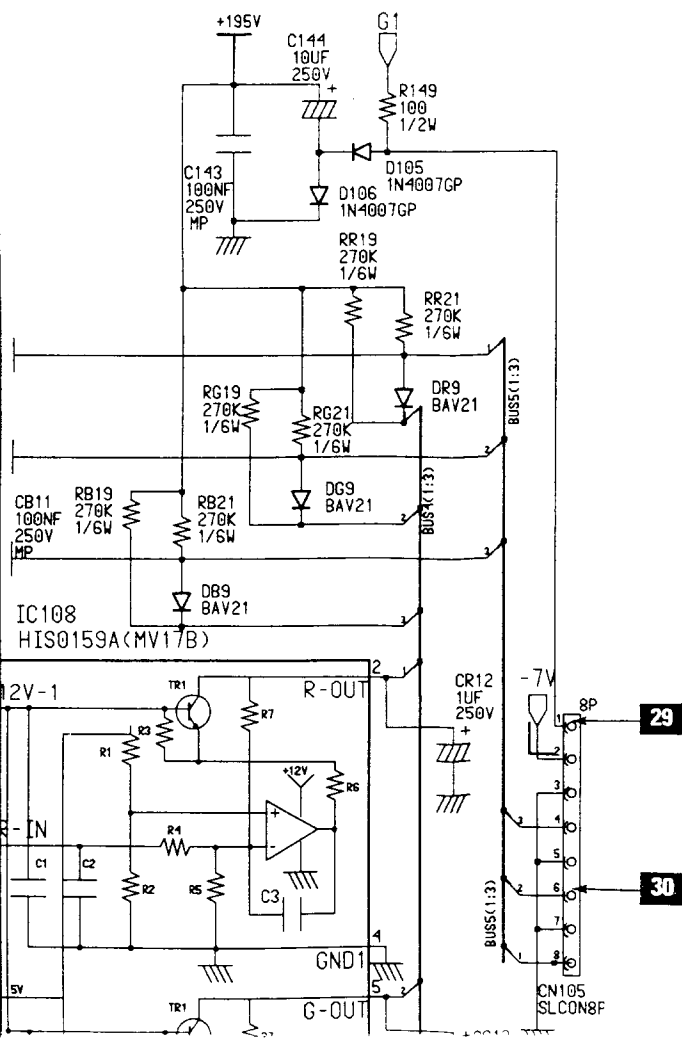
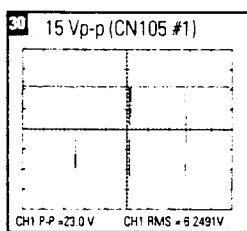
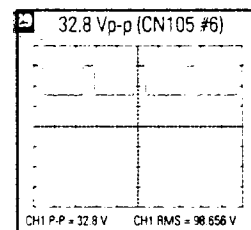
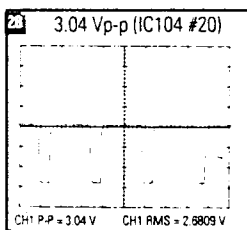
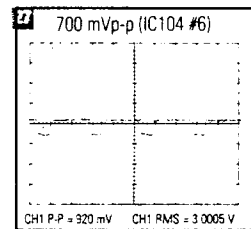
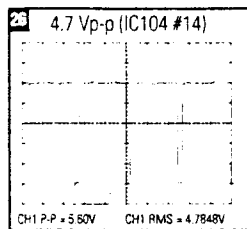
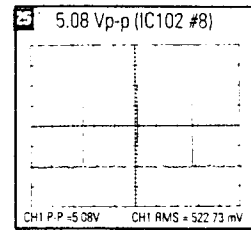
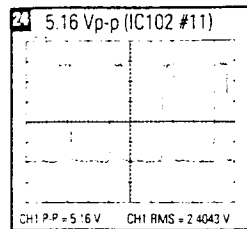


9-4-3 Video Schematic Diagram and Waveforms

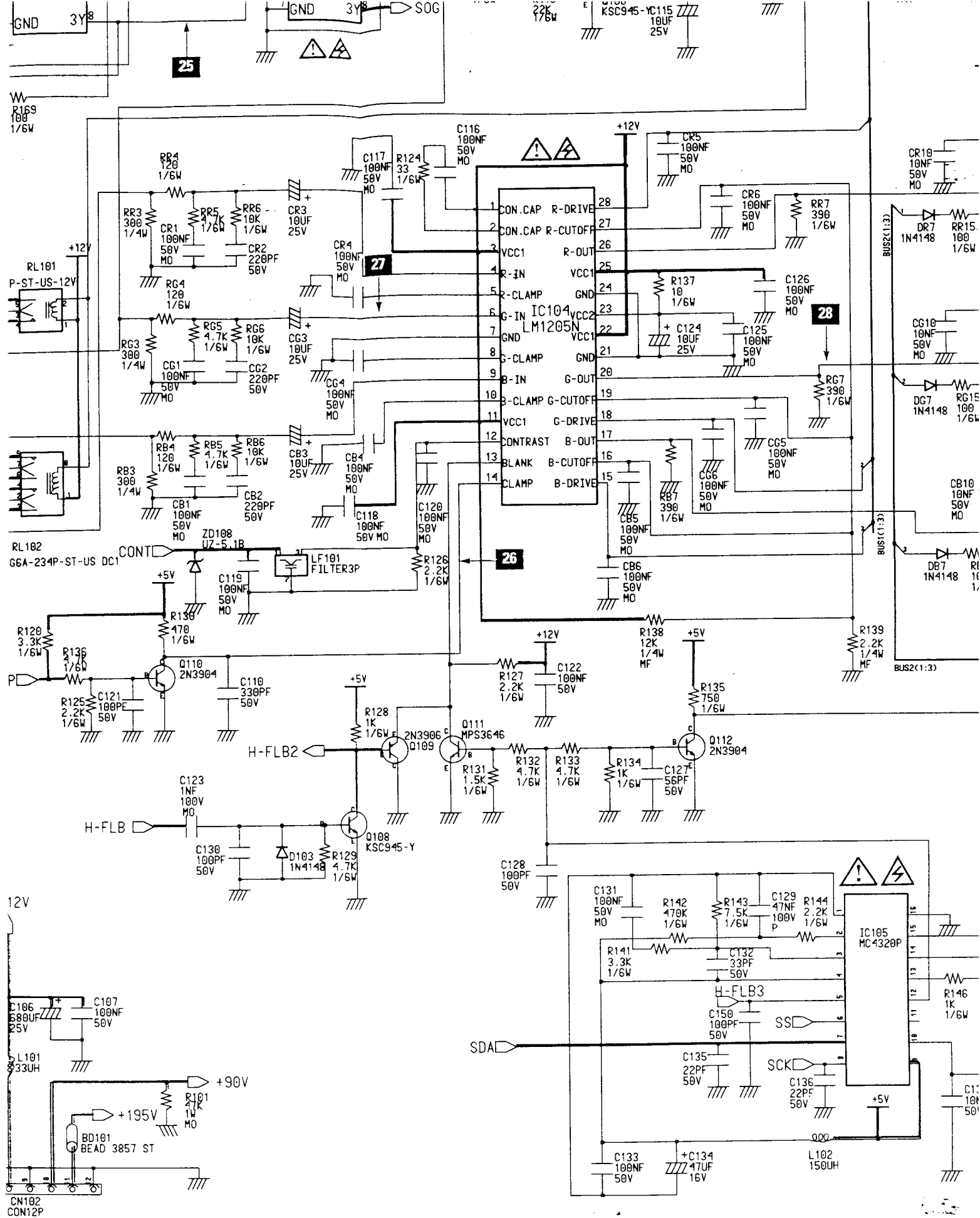


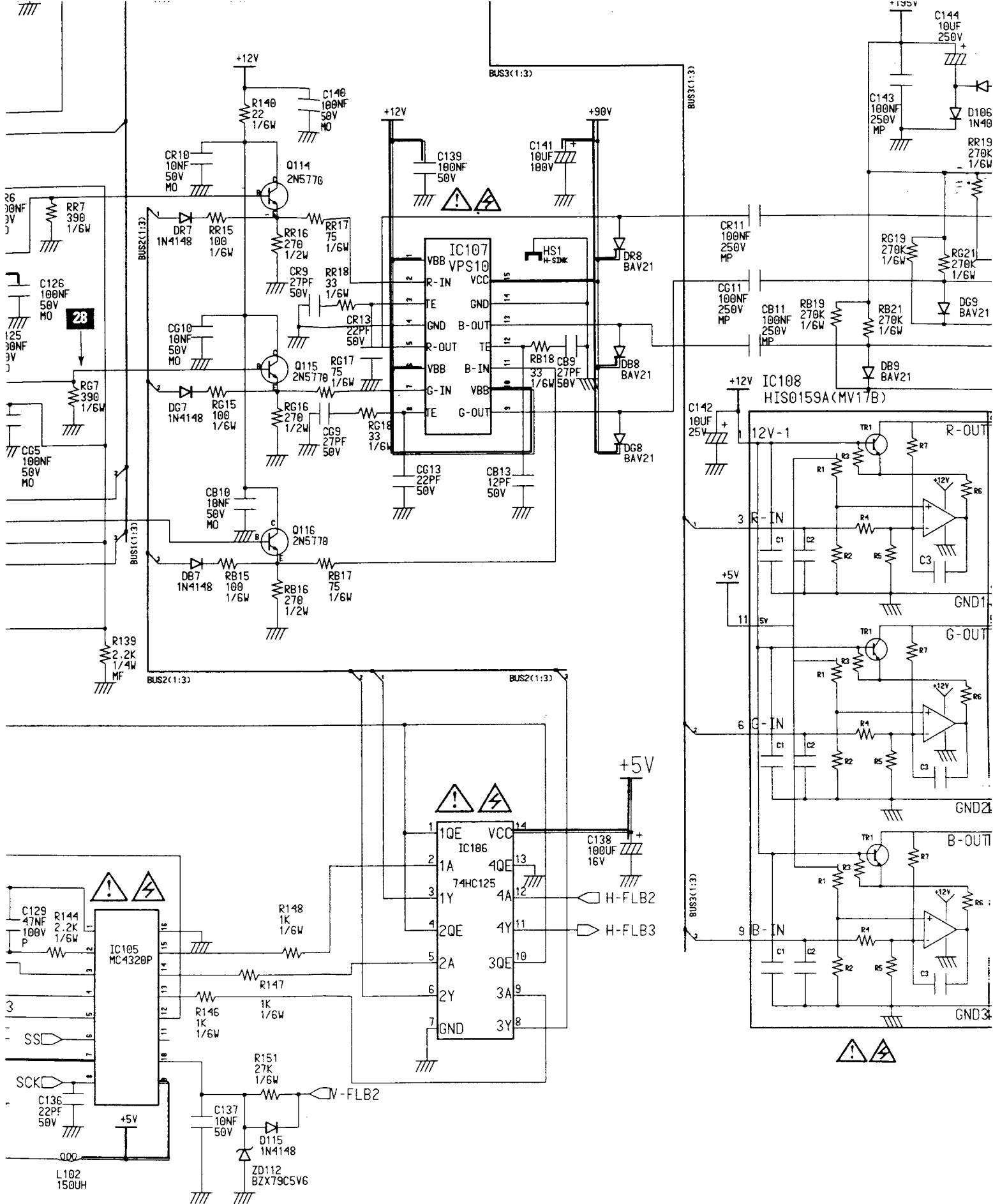


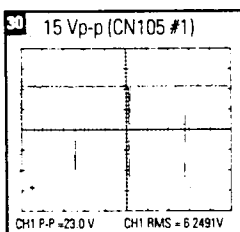
— : Power Line
— : Signal Line



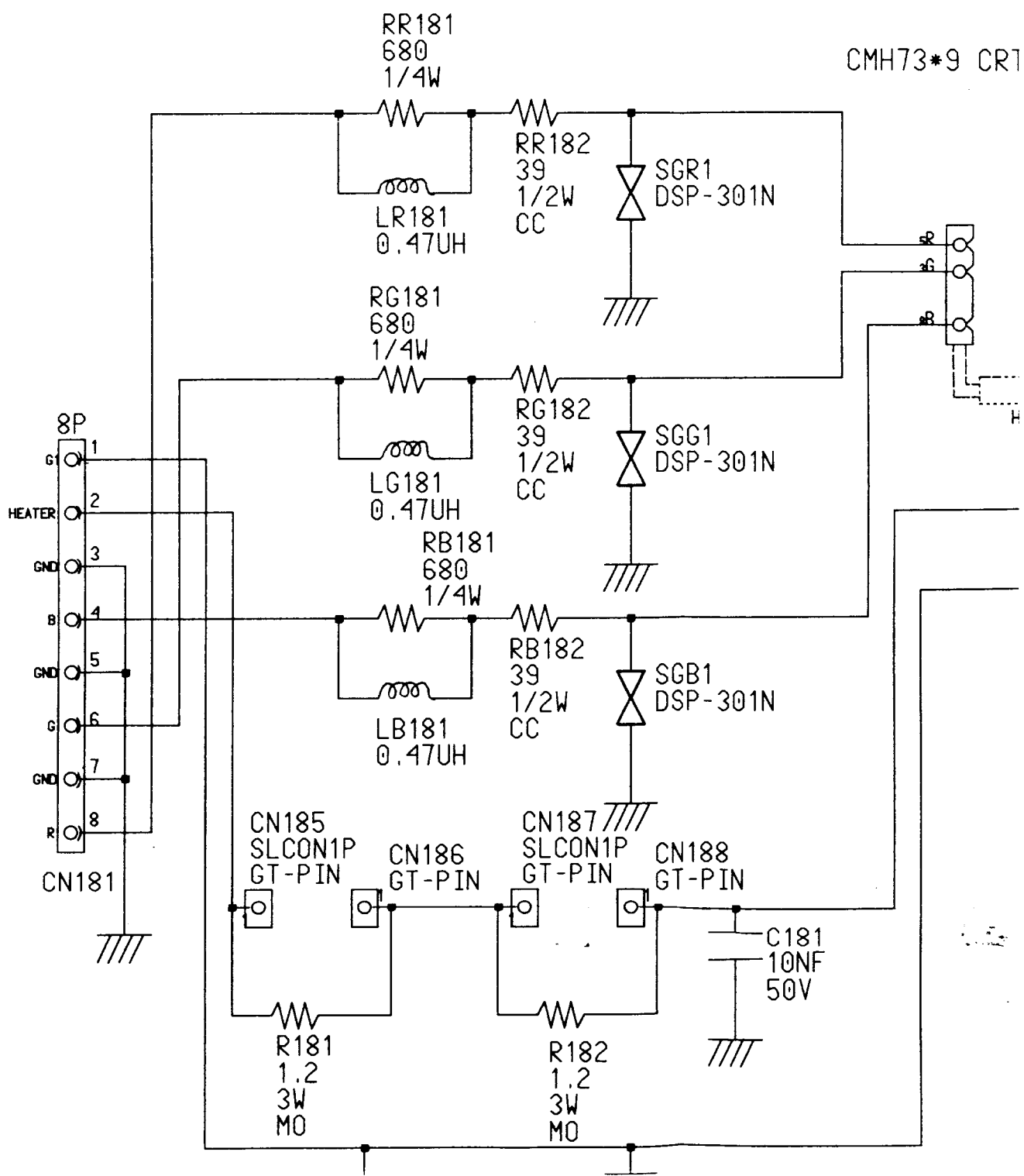


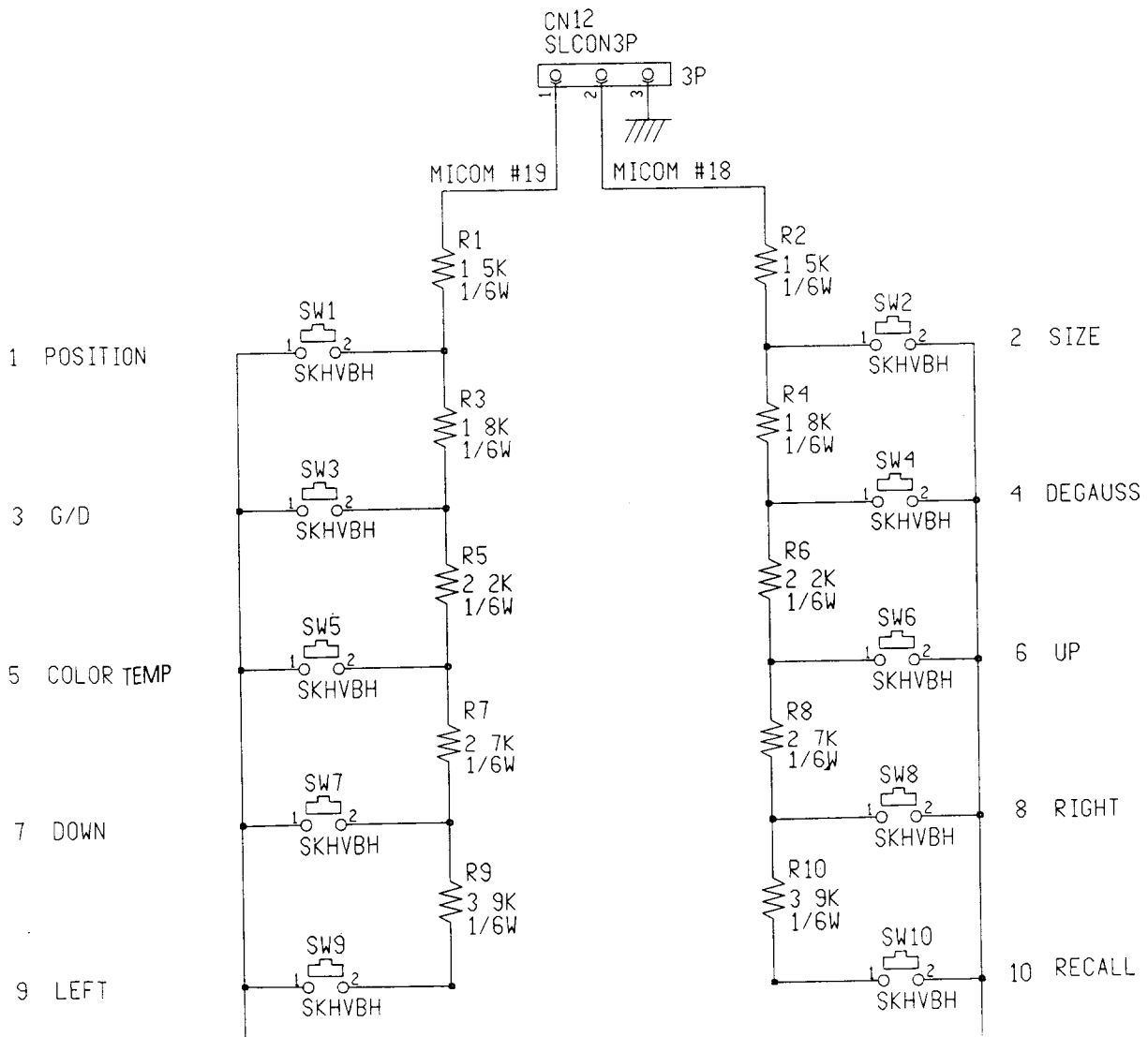
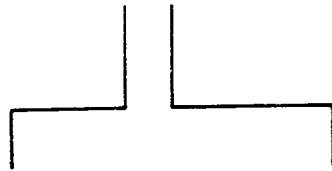




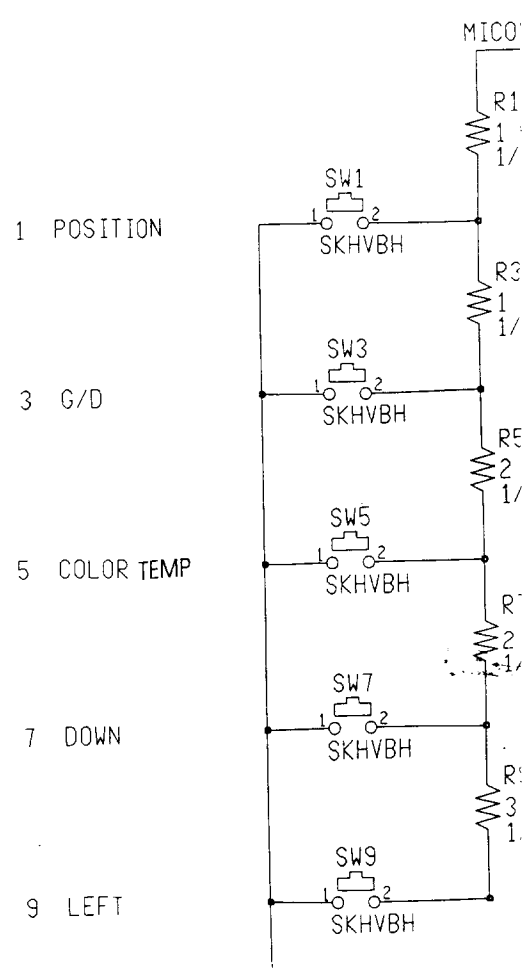
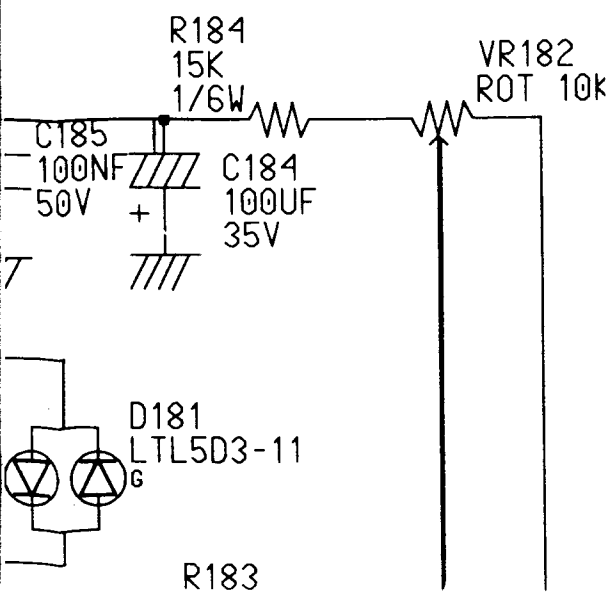
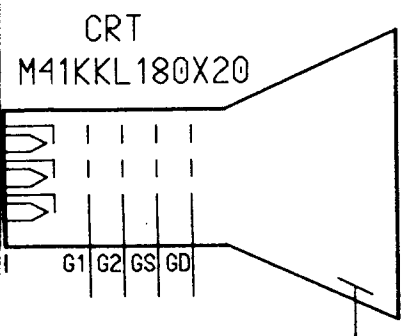


9-4-4 CRT & Control Panel Schematic Diagram and Waveforms

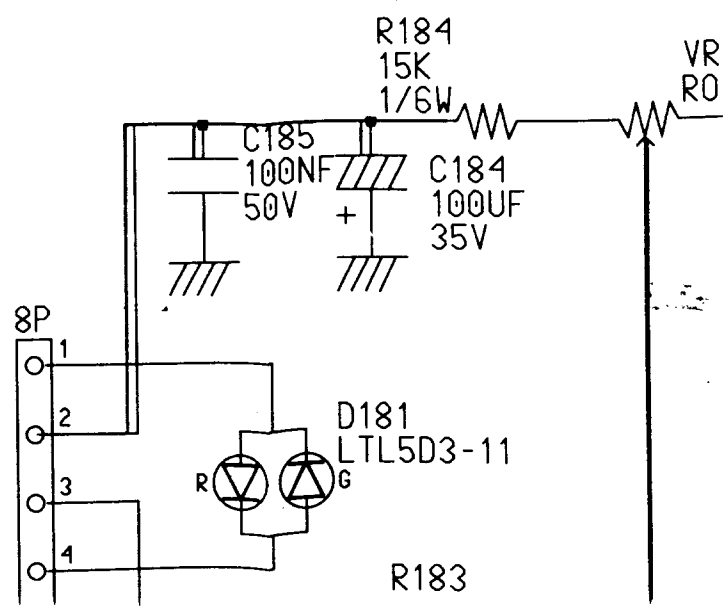
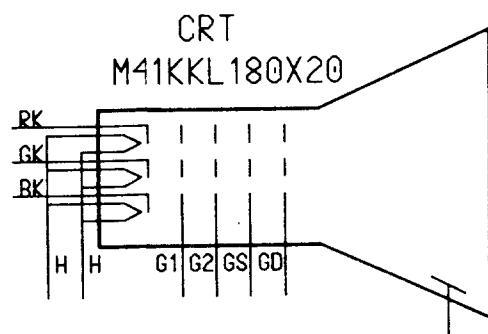
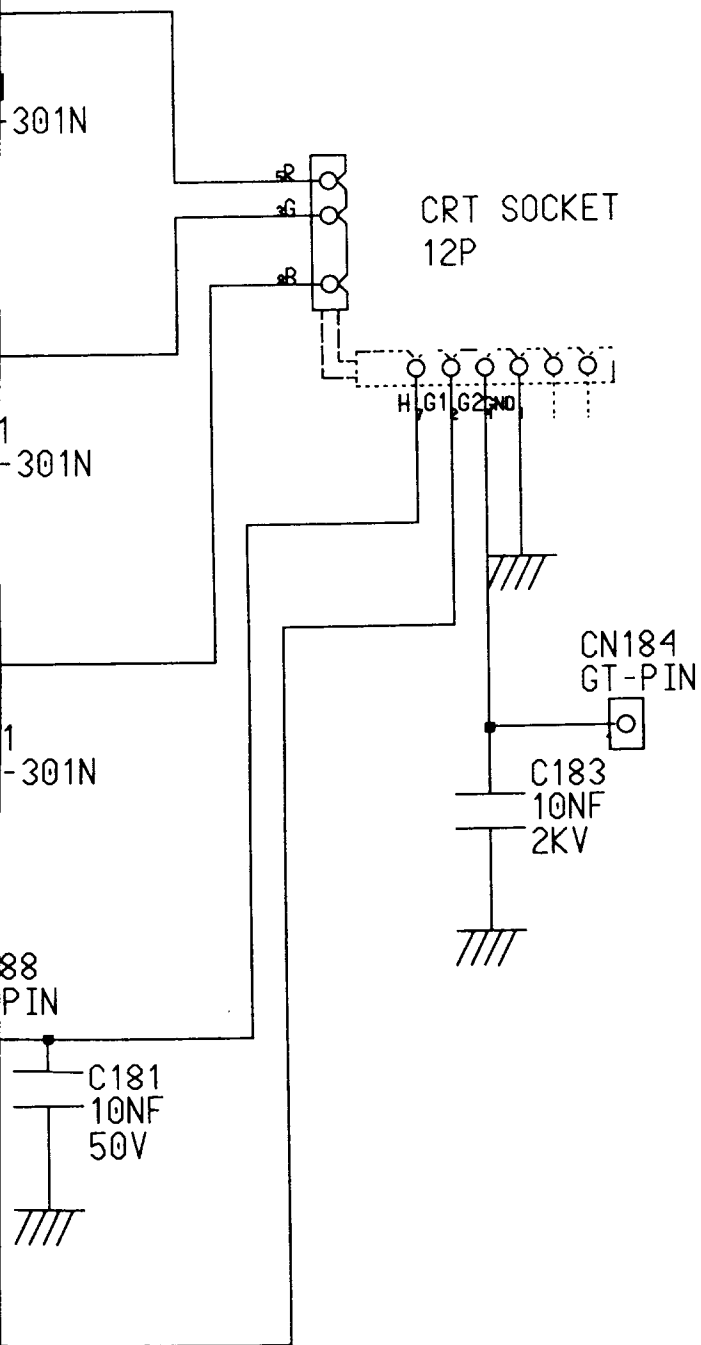


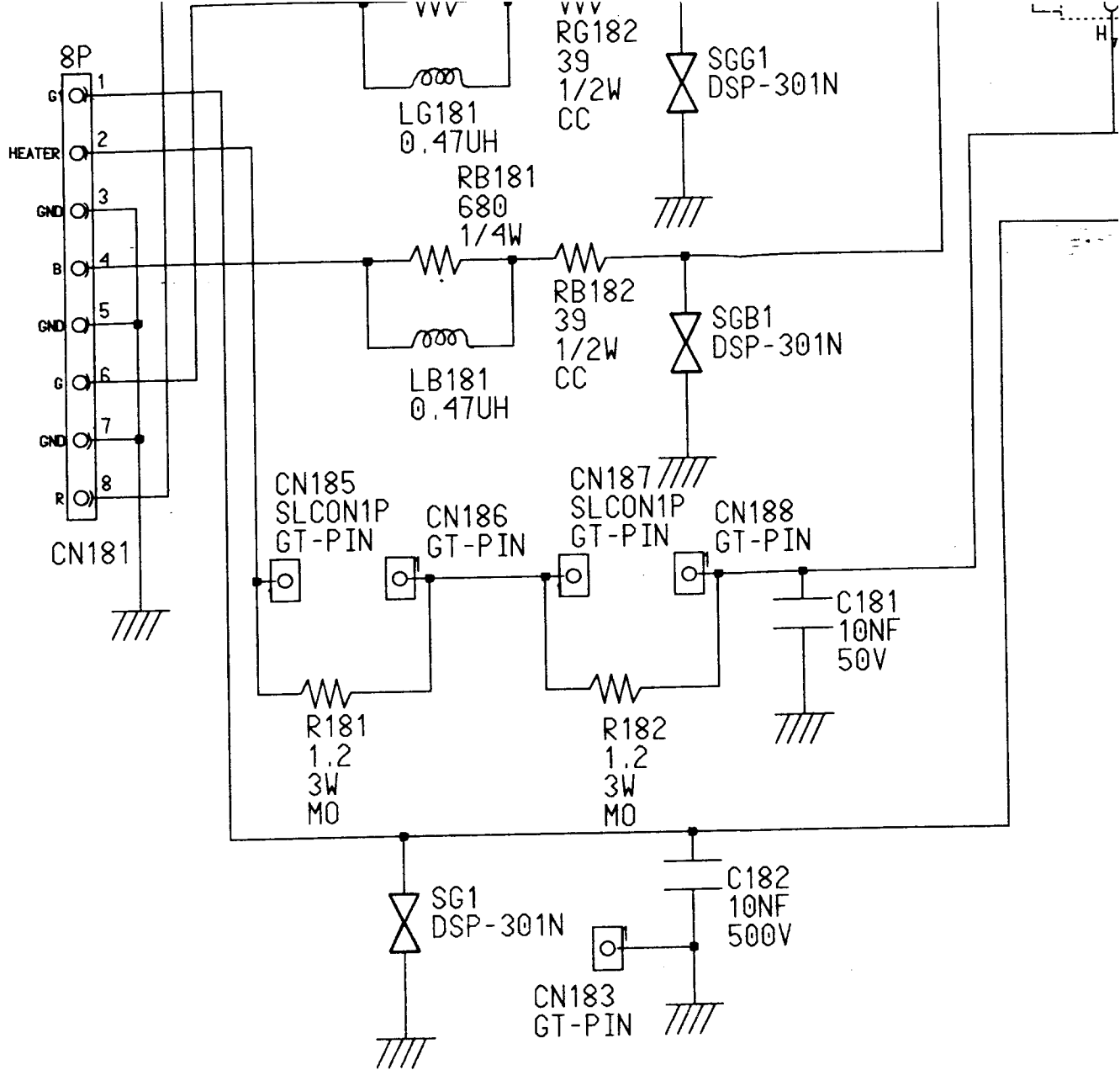


— : Power Line
— : Signal Line

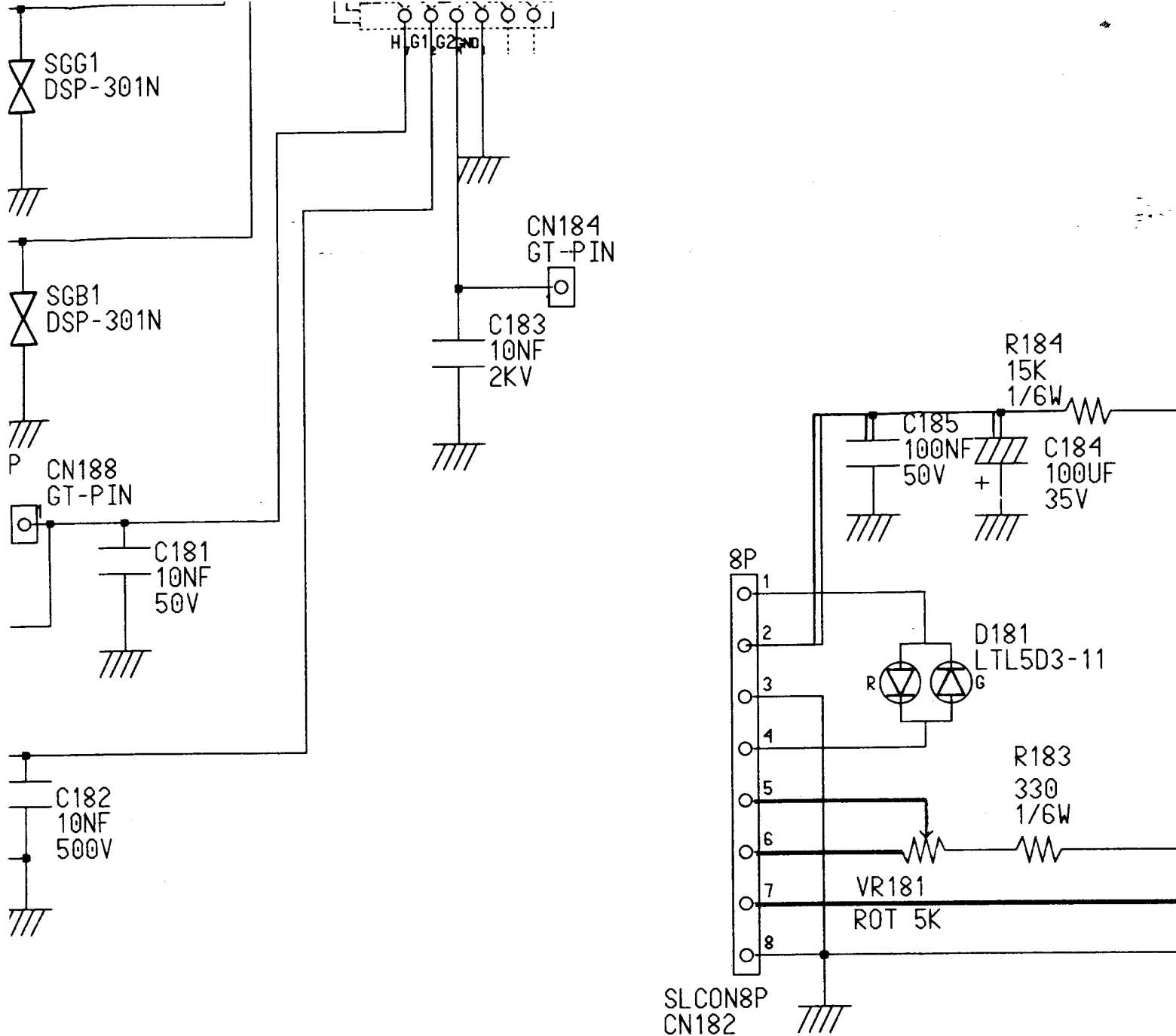


CMH73*9 CRT_MP

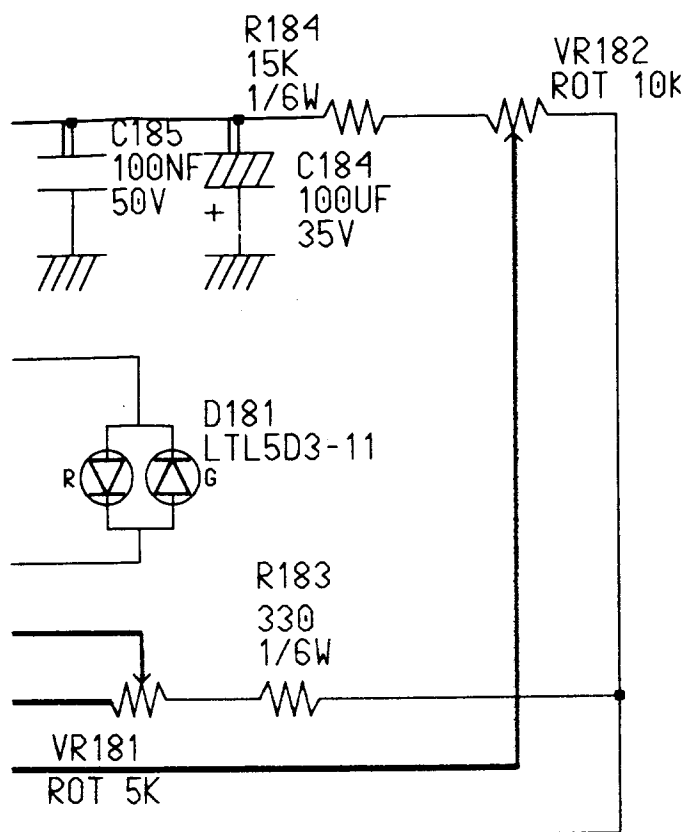




CRT Schematic Diagram



CRT Schematic Diagram



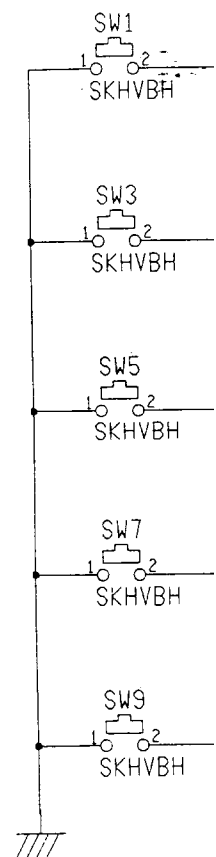
1 POSITION

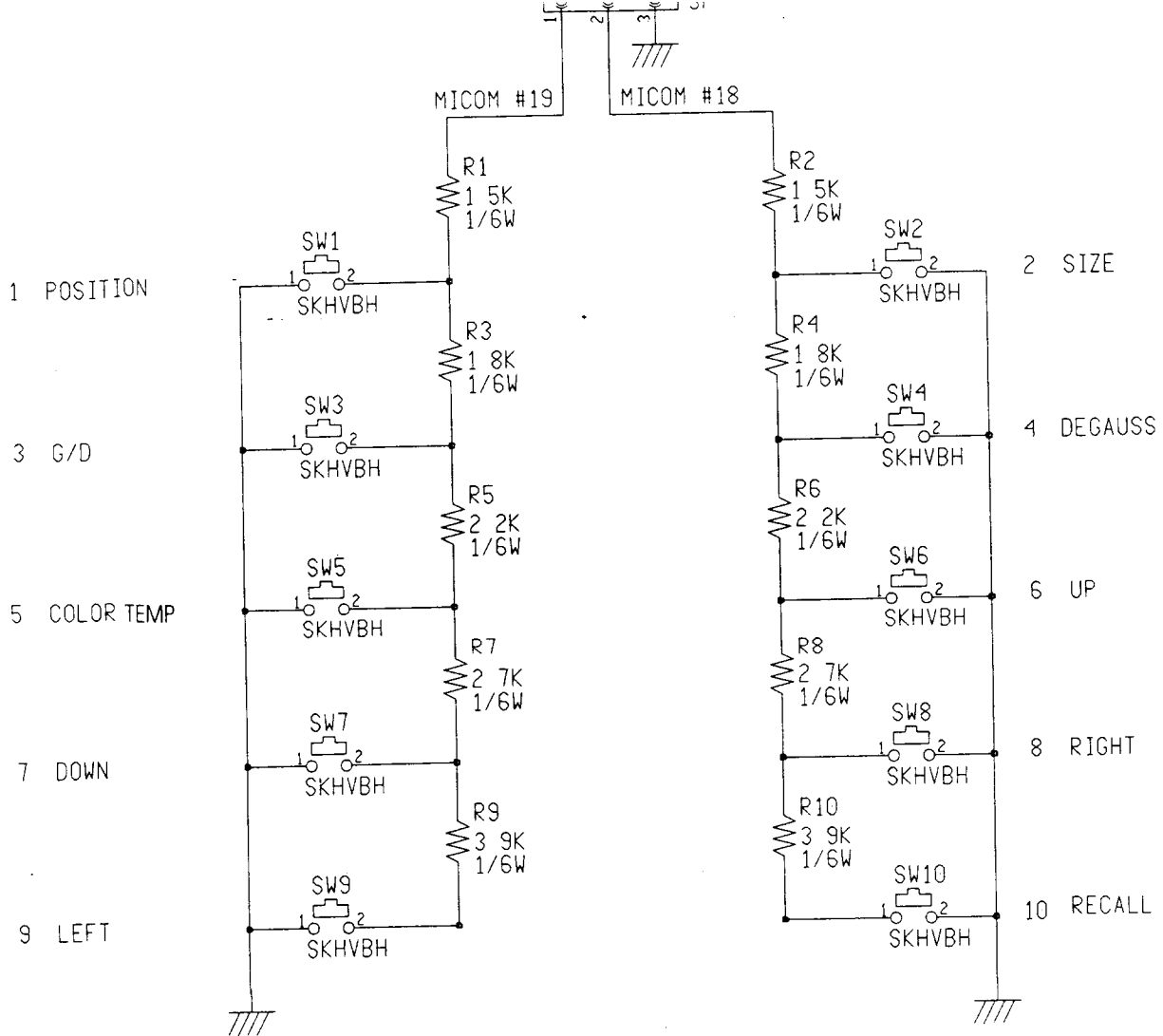
3 G/D

5 COLOR TEMP

7 DOWN

9 LEFT





Control Panel Schematic Diagram