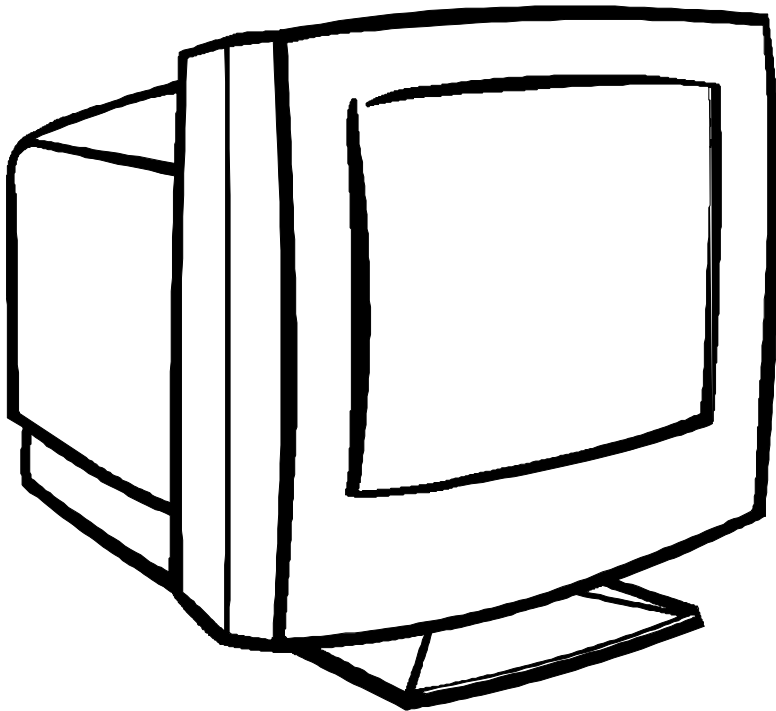


Fujitsu SERVICE MANUAL

COLOR MONITOR

MCM1514V D556Q 154V/C551



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1. SPECIFICATIONS FOR 154V/C551 COLOR MONITOR

1. CRT : 38.1CM(15V) 90 Deflection, 29mm Neck, 0.28mm Dot Pitch, Non-Glare Screen
2. Viewable image Size: 35.0CM (13.8") diagonal
3. Display Color: Unlimited Colors
4. External Controls:
Power On/Off, UP/Down key, Function key: Contrast, Brightness, H-Size, H-center, V-Size, V-Center, Pincushion, Trapezoid.
5. Input Video Signal

| | Mode 1 | Mode 2 | Mode 3 | Mode 4 | Mode 5 | Mode 6 | Mode 7 |
|--------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | RGB Analog | RGB Analog | RGB Analog | RGB Analog | RGB Analog | RGB Analog | RGB Analog |
| Horiz. Sync: | TTL Level Negative | TTL Level Negative | TTL Level Negative | TTL Level Negative | TTL Level Positive | TTL Level Positive | TTL Level Negative |
| Vert. Sync: | TTL Level Positive | TTL Level Negative | TTL Level Negative | TTL Level Negative | TTL Level Positive | TTL Level Positive | TTL Level Negative |

6. Resolution
Horizontal: 720 (H) 640 (H) 640 (H) 640 (H) 800 (H) 800 (H) 1024 (H)
Vertical : 400 (V) 480 (V) 480 (V) 480(V) 600(V) 600 (V) 768 (V)
Fh (KHz): 31.5 31.5 37.5 43.3 46.8 53.7 48.4
Fv (Hz) : 70 60 75 85 75 85 60

7. Display Size
Horizontal: 260 mm
Vertical: 195 mm

8. Scanning Frequencies
Horizontal: 30KHz ~ 54KHz
Vertical: 50 Hz ~ 120 Hz

9. Factory Preset Timings: 7
User Timings: 12

10. Misconvergence
Center: 0.3 mm Max.
Corner: 0.4 mm Max.

11. Video Bandwidth: 65 MHz

12. Power Source: Switching Mode Power Supply
AC 100 ~240V, 50/60Hz Universal Type

13. Operating Temperature: 0°C to 40°C Ambient

14. Humidity: 10% to 85% Relative, Non-Condensing

15. Weight: 12 Kgs(Net), 14Kgs(Gross)

16. Dimensions Monitor:
Carton: 460(W) × 425(H) × 494(D) mm
Monitor: 360(W) × 364(H) × 385(D) mm

17. External Connection:
15 Pin D-type Connector
AC Power Cord

2. PRECAUTIONS AND NOTICES

2-1 SAFETY PRECAUTIONS

1. Observe all caution and safety related notes located inside the display cabinet.
2. Operation of the display with the cover removed, may cause a serious shock hazard from the display power supply. Work on the display should not be attempted by anyone who is not thoroughly familiar with precautions necessary when working on high voltage equipment.
3. Do not install, remove or handle the picture tube in any manner unless shatter-proof goggles are worn. People who are not so equipped should be kept away while handling picture tube. Keep picture tube away from the body while handling.
4. The picture tube is constructed to limit X-RAY radiation to 0.5 mR/HR. For continued protection, use the designated replacement tube only, and adjust the voltages so that the designated maximum rating at the anode will not be exceeded.
5. Before returning a serviced display to the customer, a thorough safety test must be performed to verify that the display is safe to operate without danger or shock. Always perform an AC leakage current check on the exposed metallic parts of the cabinet, such as screw heads.
Test method for current leakage is described as follow.
 - (a) Plug the AC line cord directly into rated AC outlet (do not use a line isolation transformer during this check).
 - (b) Use an AC voltmeter having 5000 ohms per volt or with more sensitivity in the following manner: Connect a 1500 ohms 10 Watt resistor, paralleled by a 0.15UF, AC type capacitor between a known good earth ground (water pipe, conduit, etc.) and the exposed metallic parts simultaneously. Measure the AC voltage across the combination of 1500 ohms resistor and 0.15UF capacitor.
 - (c) Reverse the AC plug at the AC outlet and repeat AC voltage measurements for each exposed metallic part.
 - (d) Voltage measured must not exceed 0.5 volts RMS. This corresponds to 0.35 milliamp AC. Any value exceeding this limit constitutes a potential shock hazard and must be corrected immediately.

2-2 PRODUCT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety visual inspections and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Before replacing any of these components read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-RAY radiation or other hazards.

2-3 SERVICE NOTES

1. When replacing parts or circuit boards, clamp the lead wires around terminals before soldering.
2. When replacing a high wattage resistor (more than 1/2W of metal oxide film resistor) in circuit board, keep the resistor about 10mm (1/2 in) away from circuit board.
3. Keep wires away from high voltage or high temperature components.
4. Keep wires in their original position so as to reduce interference.
5. When re-assembling the monitor after service, take care to ensure that the degauss coil is not trapped and does not have its insulation damaged by screws, the metal card tray, or shielding edges.

HIGH VOLTAGE WARNING

Operation of monitor outside of cabinet or with back removed may cause a serious shock hazard. Work on this model should only be performed by those who are thoroughly familiar with precautions necessary when working on high voltage equipment.

Exercise care when servicing this chassis with power applied. Many B plus and high voltage terminals are exposed which, if carelessly contacted, can cause serious shock or result in damage to the chassis. Maintain interconnecting ground lead connections between chassis and picture tube dag when operating chassis.

Certain HV failures can increase X-ray radiation. Monitor should not be operated with HV levels exceeding the specified rating for the chassis type. The maximum operating HV specified for the chassis used in this monitor is

$$24.5KV \pm 1KV$$

with a line voltage of 120/240 VAC. Higher voltage may also increase possibility of failure in HV supply.

It is important to maintain specified values of all components in the horizontal and high voltage circuits and anywhere else in the monitor that could cause a rise in high voltage or operating supply voltages. No changes should be made to the original design of the monitor. Components shown in the shaded areas on the schematic should be replaced with exact factory replacement parts. The use of unauthorized substitute parts may create a shock, fire or other hazard.

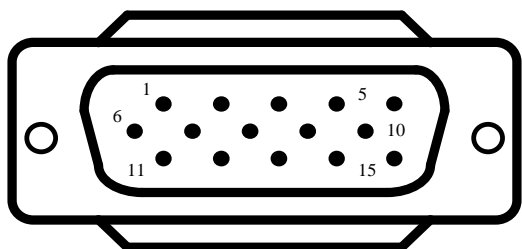
To determine the presence of high voltage, use an accurate, high impedance, HV meter connected between second anode lead and CRT dag grounding device. When servicing the High Voltage System, remove static charge from it by connecting a 10K ohm resistor in series with an insulated wire (such as a test probe) between picture tube dag and 2nd anode lead.(AC line cord disconnected from AC power outlet.)

The picture tube used in this monitor employs integral implosion protection. Replace with tube of the same type number for continue safety. Do not lift picture tube by the neck. Handle the picture tube only after discharging the high voltage completely.

3. OPERATING INSTRUCTIONS

This procedure gives you instructions for installing and using the 154V/C551 Series display.

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



15 - Pin Color Display
Signal Cable

| PIN NO. | DESCRIPTION | PIN NO. | DESCRIPTION |
|---------|-------------|---------|---------------------|
| 1. | RED | 9. | NC |
| 2. | GREEN | 10. | GND |
| 3. | BLUE | 11. | SYNC. GND |
| 4. | GND | 12. | SDA |
| 5. | GND | 13. | HORIZ. SYNC |
| 6. | GND-R | 14. | VERT. SYNC (* VCLK) |
| 7. | GND-G | 15. | SCL |
| 8. | GND-B | | |

3. Apply power to the display by turning the power switch to the "ON" position and allow about thirty seconds for display tube warm-up. The Power-On indicator lights when the display is on.
4. With proper signals feed to the display, a pattern or data should appear on the screen, adjust the brightness and contrast to the most pleasing display.
5. This monitor has power saving function following the VESA DPMS. Be sure to connect the signal cable to the PC.
6. If your 154V/C551 Series color display requires service, it must be returned with the power cord.

4. ADJUSTMENT

4-1 ADJUSTMENT CONDITIONS AND PRECAUTIONS

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

4-2 MAIN ADJUSTMENTS

| NO. | FUNCTION | LOCATION | DESIGNATION |
|-----|----------------|-------------|---------------|
| 1. | 15V ADJ | PCB - MAIN | VR901 |
| 2. | B + ADJ | PCB - MAIN | VR902 |
| 3. | R.B. DRIVE | CRT - BOARD | VR801,802 |
| 4. | R.G.B. CUT-OFF | CRT - BOARD | VR803,804,805 |
| 5. | ABL ADJ | PCB - MAIN | VR701 |
| 6. | UP KEY | PCB - MAIN | SW101 |
| 7. | DOWN KEY | PCB - MAIN | SW102 |
| 8. | FUNCTION KEY | PCB - MAIN | SW103 |

4-3 ADJUSTMENT METHOD

1. 15V, B + & HV protection voltage adjustment:
 - A. Chroma-2000 Signal generator or PC equivalent, set mode 1(VGA 640×480) pattern 1.0 .
 - B. Connect a DC voltage meter between TP 901 and ground, then adjust VR901 to be 15VDC.
 - C. Connect a DC voltage meter between TP 902 and ground, then adjust VR902 to be 88 VDC.
2. Factory preset timings adjustment:
 - A. When you turn on the monitor, the function LEDS will light up simultaneously for a while, then extinguish.
 - B. You can press the up/func two keys simultaneously, the most left four LEDS will light up for a while then extinguish.
 - C. Then you can select one of the eight functions including Contrast, Brightness, H-SIZE, H-CENTER, V-SIZE, V-CENTER, Pincushion and Trapezoid Simply press the function key and the LED will be light up corresponding to the one selected, then press the up/down keys to get the factory presetting parameter value to your satisfaction.
 - D. Then you will press the up/function two keys simultaneously again, the most right four LEDS will light up for a while then extinguish, the factory preset timings adjustment is finished.
3. White balance and luminance adjustment:
 - A. Bias (low light) adjustment:
 - (a) Set mode 5 (800×600 Fh: 46.8KHz) full white pattern.
 - (b) Adjust VR801, 802, 803, 804, 805, to make VR in the center position.
 - (c) Warm up more than 20 minute.
 - (d) Brightness set to max. Contrast set to min. full white pattern, then adjust FBT screen VR to make $Y= 1.0FL \pm 0.2FL$
 - (e) Brightness set to raster just cutoff, contrast set to 4FL, then adjust CRT board VR805 (B-Bias) VR803 (R-Bias) to make $Y= 4 \pm 0.2 FL, x= 281 \pm 10, y= 311 \pm 10$
 - B. Gain (High light) adjustment:
 - (a) Set mode 5 (800×600 Fh: 46.8KHz) full white pattern.
 - (b) Brightness set to raster just cutoff and set the contrast to max.
 - (c) Adjust VR801, 802 to make color code $x=281 \pm 10, y=311 \pm 10$.
 - C. Recheck item A&B to make sure both of them in spec.
 - D. Full white luminance:
 - (a) Set mode 5 (800×600 Fh: 46.8K) full white pattern.
 - (b) Image size : H:260±4mm, V:195±4mm.
 - (c) Brightness set to raster just cut off and set the contrast to max.
 - (d) Adjust VR701 to make sure white luminance at 28 FL.

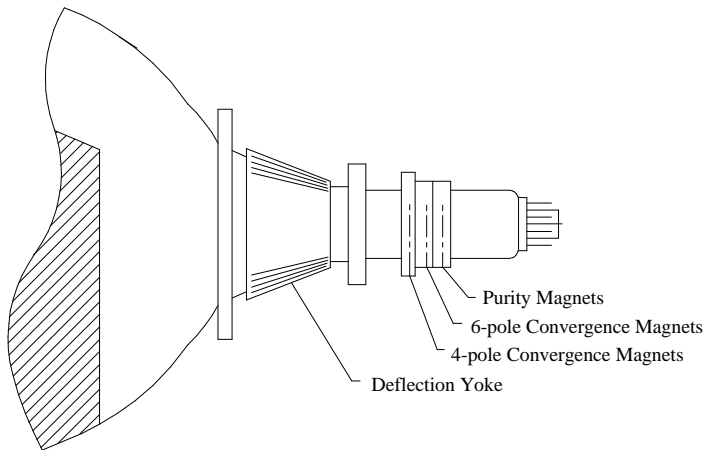
4. Focus adjustment:

- A. Set mode 2 (640×480 Fh: 31.5KHz) with character full page.
- B. Adjust external brightness to raster cutoff and external contrast to max. , then adjust focus VR to make the display be focused very well.

5. Purity adjustment

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

RELATIVE PLACEMENT OF TYPICAL COMPONENTS



6. Convergence adjustment

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

5. CIRCUIT DESCRIPTION

5-1 MICRO CIRCUIT

IC101 is CPU, This CPU has the following functions.

1. Detect timing mode by sensing the horizontal frequency, vertical frequency, the polarity of Hor. Sync and Ver. Sync.
2. Key board scan control.
3. Cs capacitor switch control.
4. Power saving control.

When CPU detects timing, it takes data from E²PROM (IC102), then output voltage to control the geometry of this monitor.

If key is pressed, the CPU will do some job according to the key function. For example, if function key is pressed, it can change different value to control screen geometry (H-SIZE, V-SIZE...etc.)

5-2 DEFLECTION CIRCUIT

Hor. sync. and ver. sync., come from PC, go into the CPU (IC101). The output goes to the Hor. oscillation and Ver. oscillation processor (IC401). The IC401 treats sync. signal and output the drive signal to horizontal and vertical output circuit. IC401 also generates some functions for geometry use, like, horizontal center, vertical size, by PC bus control, the geometry can be controlled. IC601 is a vertical output IC to supply the vertical scan. Q404, Q405, Q406 and L405 are the horizontal size controls. Q403 is the horizontal deflection output, supply the horizontal scan of the monitor. Q707 and Q601 generate the Blanking signal output to G1 of CRT. Q703 Q704 and Q705 are mute control, brightness control and G1 DC voltage output.

5-3 VIDEO CIRCUIT

IC801 is a video amplifier, clamping signal input from pin No. 11 to restore the DC voltage of video signal, the signal output from IC801 pass through IC802 video package amplifier stage LM2438, then go to the cut off DC restore stage, The video output signal is about 40Vpp.

5-4 POWER SUPPLY

The design uses a discontinuous flyback topology operating in current-mode resulting in a multiple output switcher with stack well. Faster diodes are used. The fast transient response of the control loop maintains picture integrity. Very fast current limiting protects the switcher against short circuits.

UC3842AM (IC901) is the current mode controller selected. It offers feed forward compensation, feedback error amplifier, and low voltage lock out features. The 3842 draws very little current in start up mode. There is enough power from the line bleeder to slowly charge a capacitor to the 16 volts needed to start the switcher.

The FET starts a cycle by allowing current to flow into the primary of the power transformer. As current ramps up with time, the voltage across the current sense resistor (R929) also ramps to a point where the 3842 determines that enough power is stored and turns off the FET. As the voltage on the transformer reverses, power is dumped from the main power transformer through diodes into the different supplies. To keep RFI to a minimum and reduce transistor heating, a turn-off snubber network is placed across the FET. Current from the secondary windings are rectified and filtered to create the desired voltages. Small high current capacitors quickly return charging current to the source. Filter inductors remove high frequency noise.

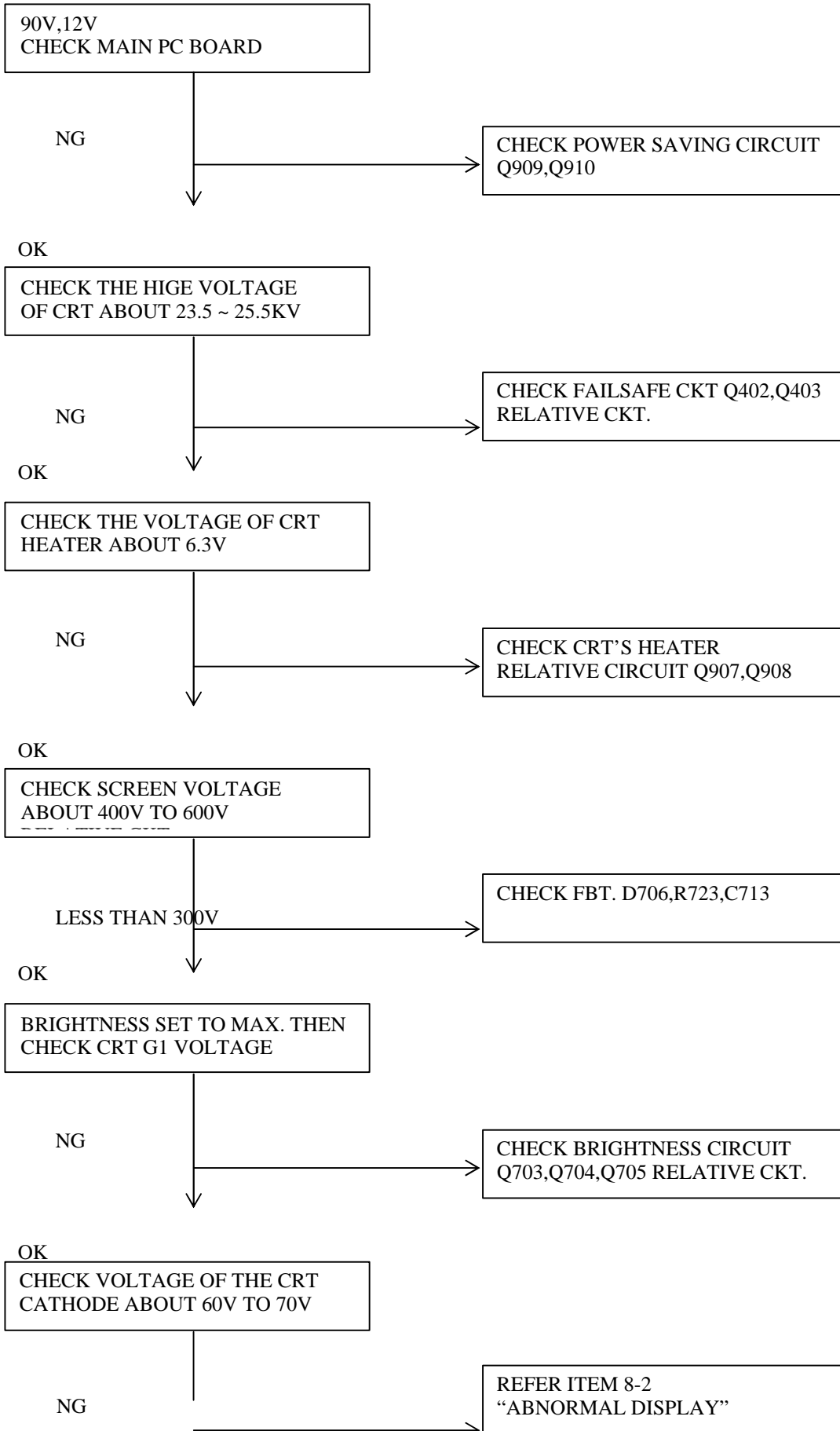
5-5 TRANSISTOR & DIODE CIRCUIT

| LOCATION | CIRCUIT FUNCTION DESCRIPTION |
|-----------------|---|
| D901 ~ D904 | Bridge Rectifier for AC Source |
| D909 | Half-Wave Rectifier for Start CKT |
| D910 | Clamp Diode for Snubber CKT |
| D919 | Rectifier for Output Voltage |
| D922 | Rectifier for Output Voltage |
| D923 | Rectifier for Output Voltage |
| D925 | Rectifier for Output Voltage |
| D927 | Forward Bias when Q403 Turn-off to Protect B+ Block CKT |
| D929 | B+ Feed Back Rectifier from F.B.T Pulse |
| Q904 | Start CKT Amplifier Transistor |
| Q907, Q908 | Use for Off-Mode to Cut-off 6.3V Supply Voltage |
| Q909, Q910 | Use for Standy-By or Suspend Mode to Cut-off 14.5V Supply Voltage |
| Q912, Q920 | Push-Pull Topology to Drive Q911 |
| Q401 | Turn-on at Power ON/OFF and Change Mode to Protect Hor.Block |
| Q402 | HOR. Driver Transistor |
| Q407, Q408 | As a Switcher for H-Size Correction CKT |
| Q410, Q426 | H-Size Corection Mosfet (Q426 15" only) |
| Q404, Q405 | As Differential Amp. to Drive Q406 |
| Q406 | Darlington Transistor for H-Size Control |
| Q703 | As a Switcher to Mute Screen when Abnormal Occurring |
| Q704, Q705 | Unit Brightness Control CKT |
| Q601, Q707 | Develop Blanking Signal |
| Q813, Q814 | A Amplifier to Corection and Support Clamp Signal |

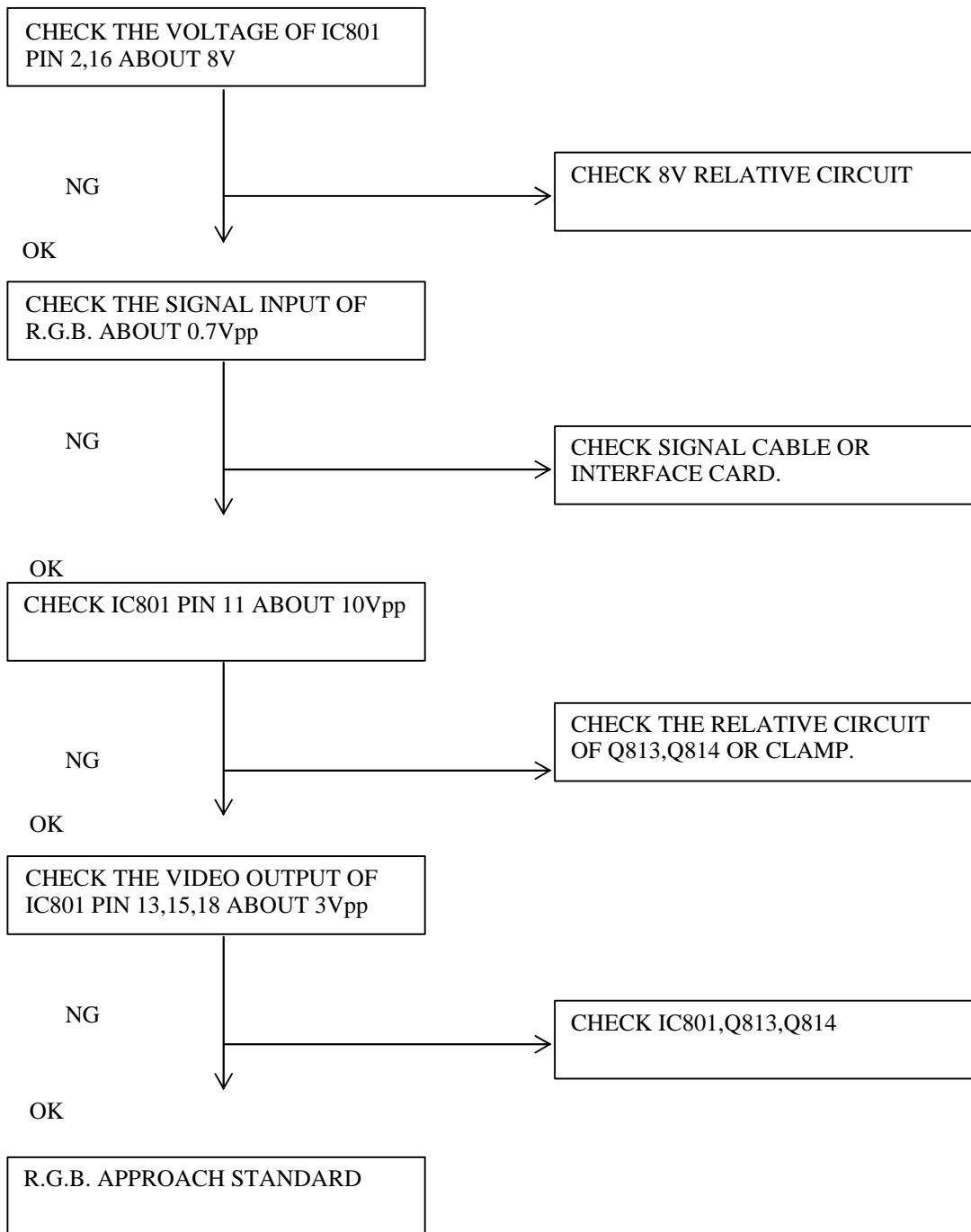
6.TROUBLE SHOOTING CHART

6-1 NO RASTER, CRT RELATIVE CIRCUIT PROBLEMS

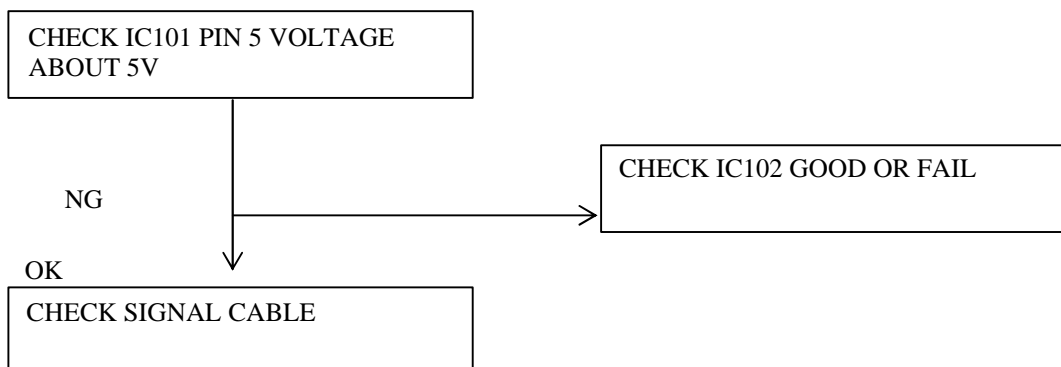
1.ABNORMAL POWER SUPPLY



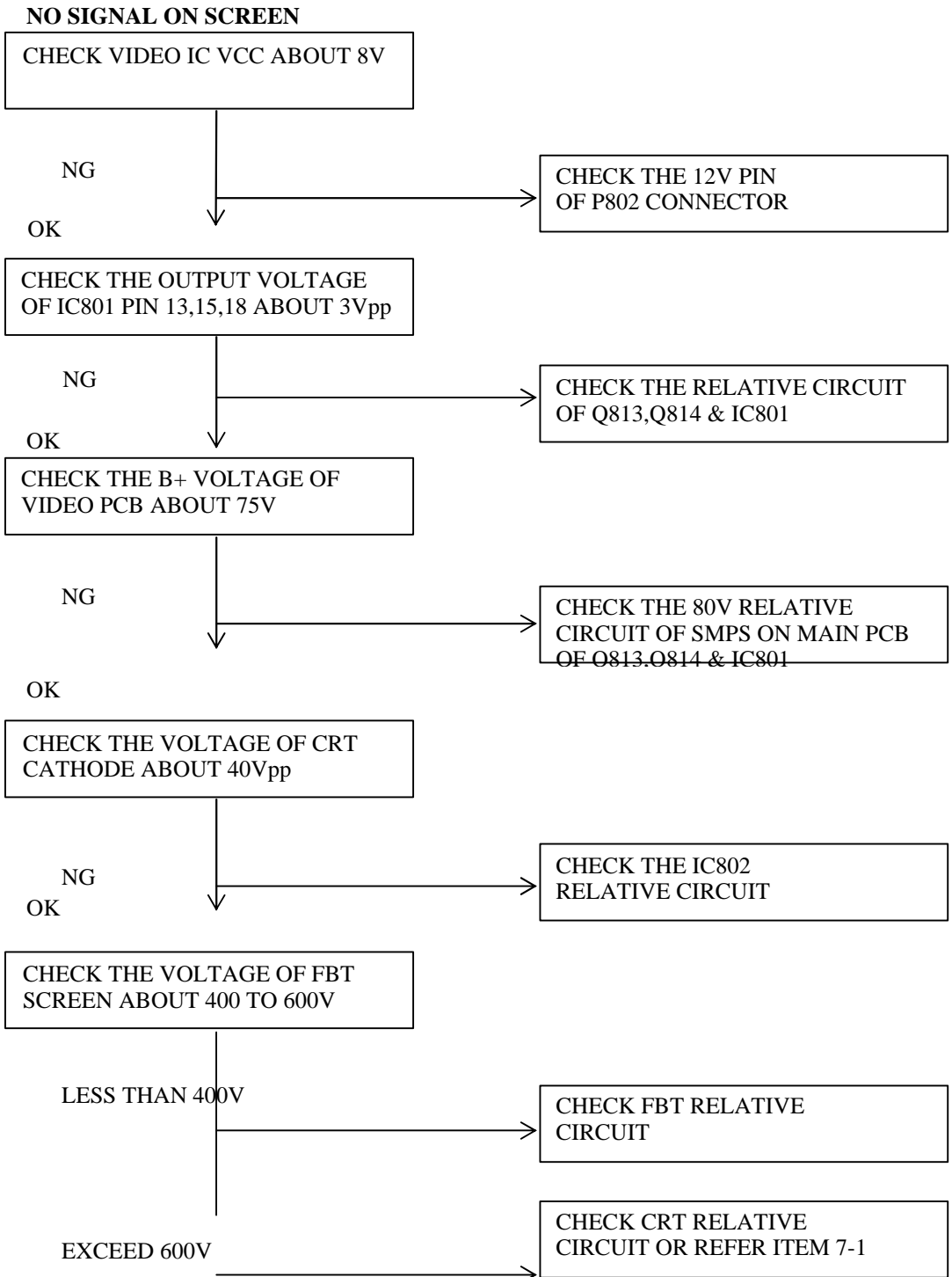
2.ABNORMAL VIDEO LEVEL ON SCREEN



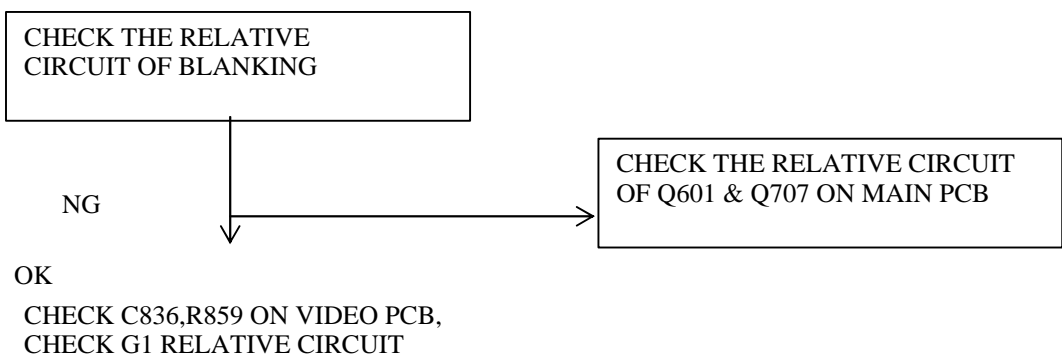
3. ABNORMAL DDC (PLUG & PLAY)



6-2 ABNORMAL DISPLAY



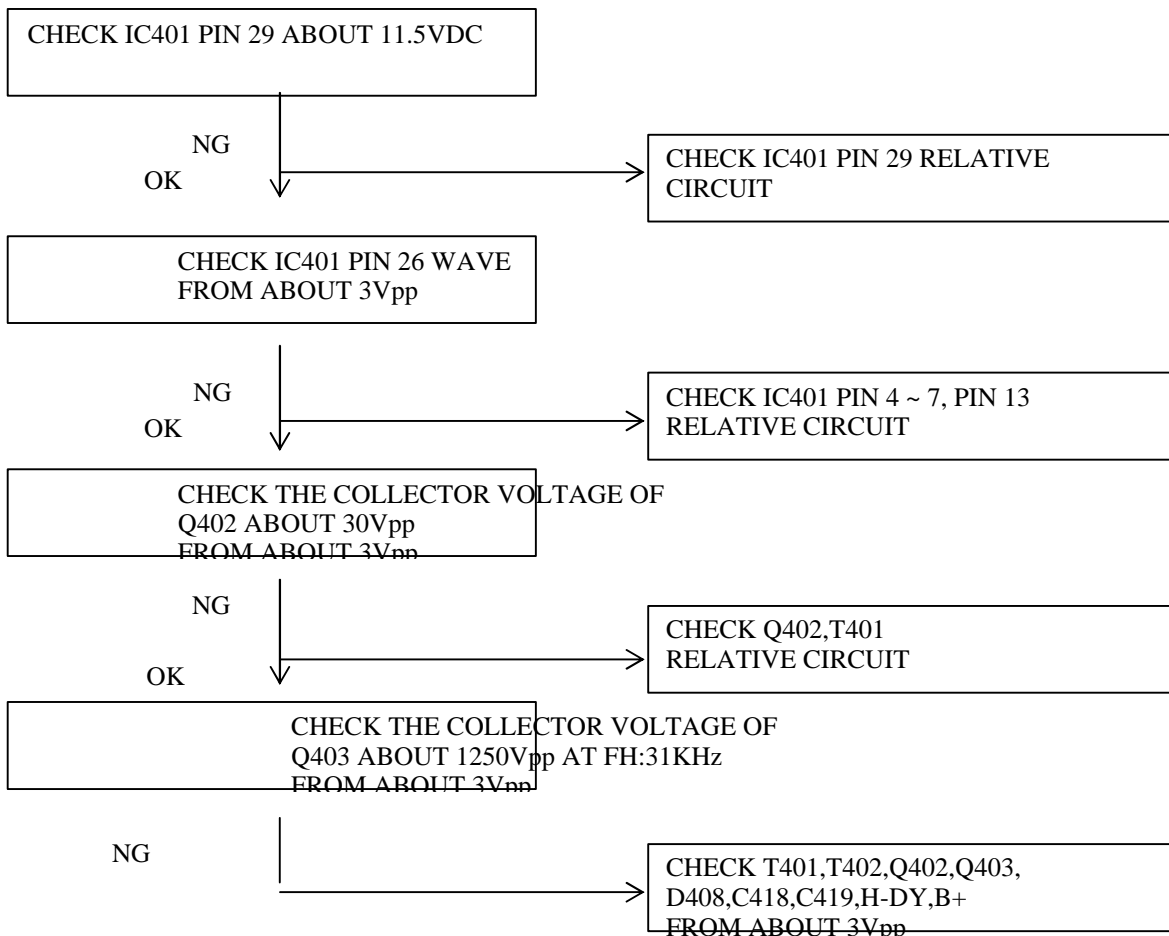
6-3 NO BLANKING



FBT PIN 5 ON MAIN PCB

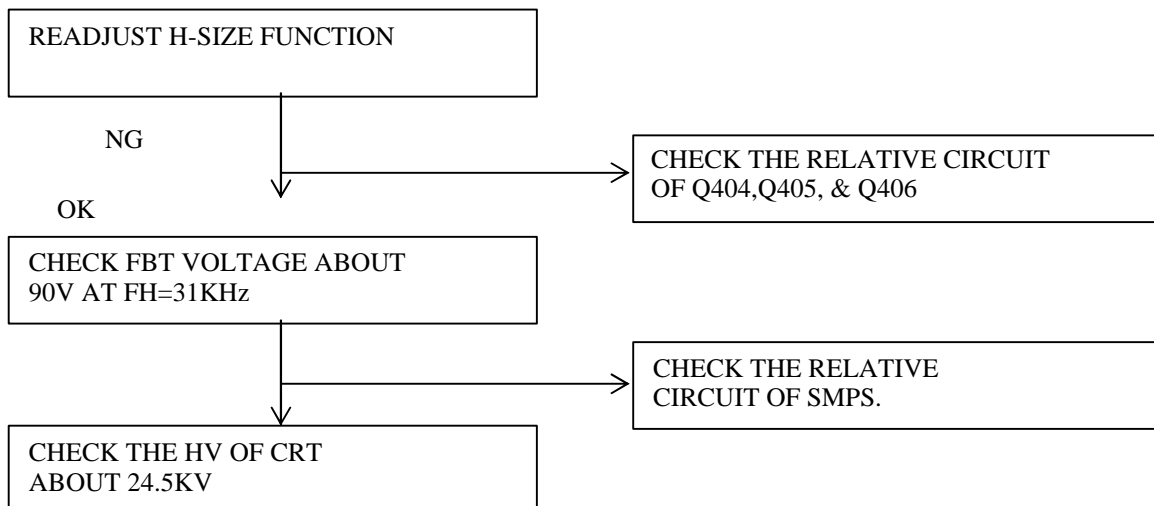
6-4 HOR./OSC/DEF/HV CIRCUIT FAULT

NO RASTER (DISCONNECT WITH SIGNAL CABLE)

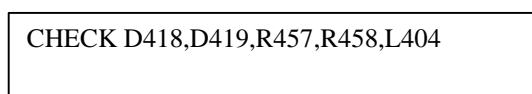


6-5 ABNORMAL HORIZONTAL DEFLECTION

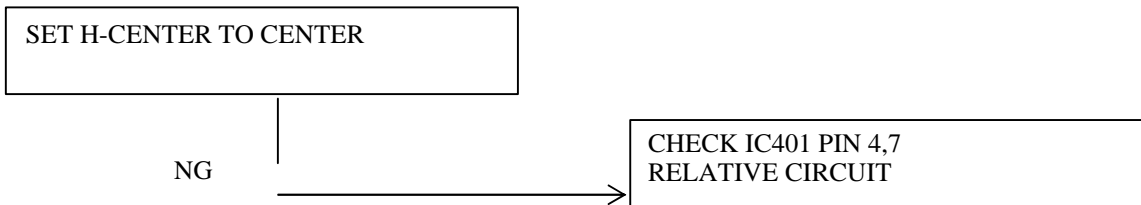
1. ABNORMAL HORIZONTAL SIZE



2. ABNORMAL HORIZONTAL RASTER CENTER



3. ABNORMAL HORIZONTAL VIDEO CENTER

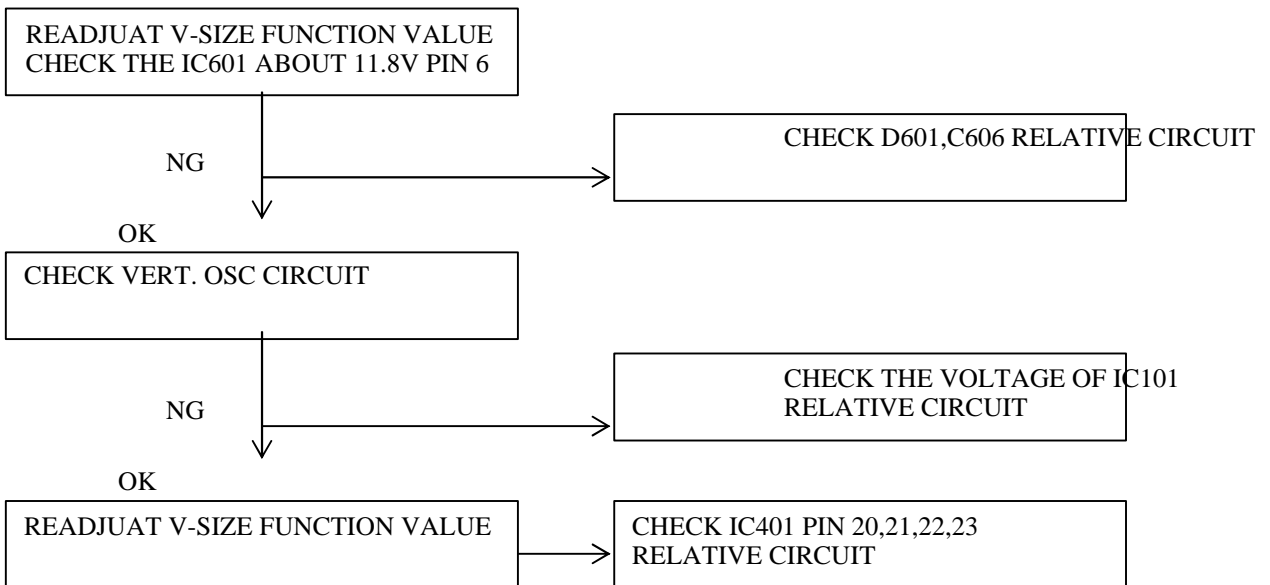


4. ABNORMAL HORIZONTAL LINEARITY

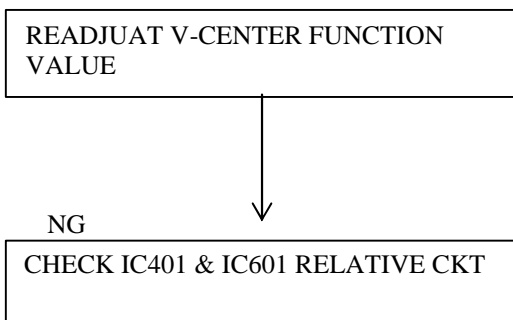


6-6 ABNORMAL VERTICAL SCANNING

1. ABNORMAL VERTICAL SIZE



2. VERTICAL CENTER



6-7 SIDE-PIN CUSHION DISTORTION

READJUST SIDEPIN FUNCTION VALUE

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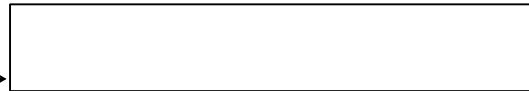


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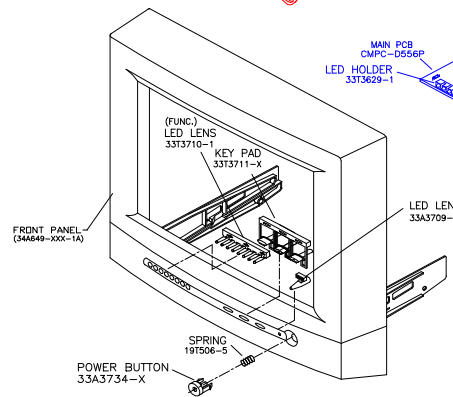
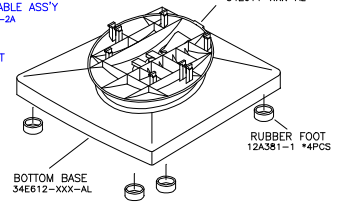
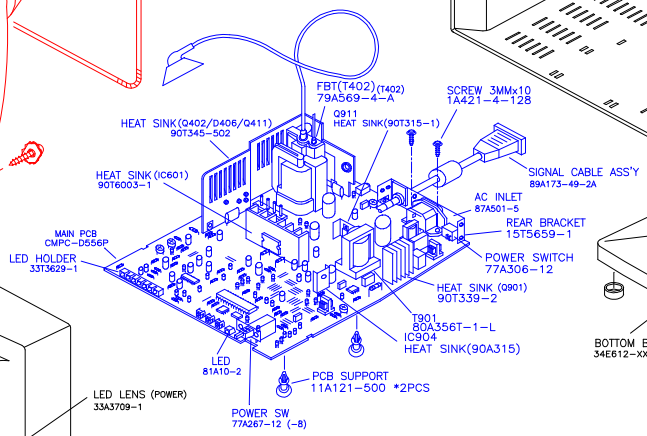
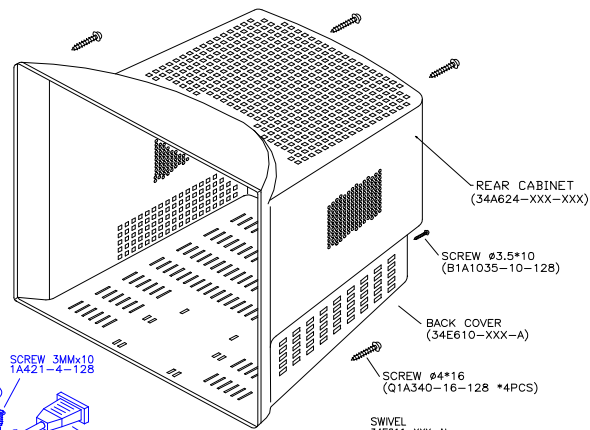
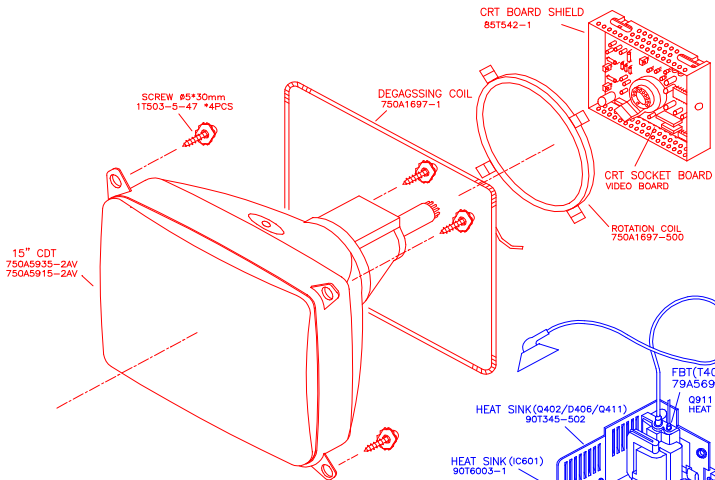
6-8 POOR FOCUS

READJUST FOCUS CONTROL




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


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PARTS LIST OF CABINET

| LOCATION | 154V/C551 (LOW RADIATION 220V) CMC556DQJ2 | | | | SPECIFICATION |
|--|---|-------|-------|-----|------------------------|
| | | | | | CHAS ASS'Y |
| | 1A | 503- | 1 - | 47 | SCREW |
| | 5A | 38- | 8 | | RUBBER WASHER |
| | 9A | 84- | 23 | | TERMINAL LUG |
| | 11A | 112- | 1 | | WIRE MOUNTS |
| | 11A | 112- | 500 | | WIRE MOUNT |
| | 11A | 115- | 1 | | FBT CLIP |
| | 11A | 6015 | 1 | | CRT SUPPORT |
| | 19A | 403- | 5 | | BUMPER STEEL SPRING |
| | 33A | 3598- | 1 | | ABS PLASTIC |
| | 33A | 3710- | 1 | | FUNC LED LENS |
| | 33A | 3735- | 1 | | KEY PAD |
| | 34A | 643- | 2 - | AT | FRONT PANEL |
| | 40A | 152- | 502 | | REVISION/SERIAL |
| | 40A | 153- | 64 | | CRT WARNING |
| | 40A | 154- | 14 - | 1 | CABINET LABEL |
| | 40A | 154- | 501 - | 1 | HI-POT GROUNDING LABEL |
| | 40A | 581- | 26 - | 668 | SLZ LABEL |
|  | 40A | 581- | 26 - | 704 | SHIPPING LABEL |
| | 40A | 2008- | 622 - | 2A | ID LABEL |
| | 41A | 68- | 508 - | A | CARD |
| | 41A | 541- | 622 - | 1A | MANUAL |
| | 41A | 3121- | 510 | | PU FOAM |
| | 44A | 6533- | 622 - | 2A | CARTON |
| | 41A | 6543- | 1 | | EPS FOAM |
| | 41A | 6543- | 2 | | EPS FOAM |
| | 45A | 76- | 28 - | RN | PE BAG |
| | 45A | 77- | 3 | | TRANSPARENT SHEET |
| | 45A | 77- | 500 | | BARCODE RIBBON |
| | 45A | 77- | 501 | | BARCODE RIBBON |
| | 45A | 88- | 7 - | RN | PE BAG |
| | 71A | 303- | 9 - | C | DISKETTES ECOLOGY |
|  | 85A | 542- | 1 | | CRPC SHIELD |
| | 89A | 498- | 8 - | S | POWER CORD UL/CSA |
| | 95A | 91- | 205 - | 24 | WIRE |
| | 95A | 205R- | 30 - | 132 | 15" WIRE |
| | 95A | 8013- | 2 | | WIRE |
| | B1A | 1035- | 10 - | 128 | SCREW |
| | Q1A | 340- | 16 - | 128 | SCREW |
| | 705A | 556Q- | F34 - | 01S | CAB'T ASS'Y |
|  | 750A | 1697- | 1G - | E | DEG. COIL UL/CSA |
| | 750A | 5910- | 3PS | | 15" CHUNGHWA CRT |

| | | | | | |
|--|-----|-------|-------|-----|---------------------|
| C939 | 67A | 305- | 102 - | 3 | 1000uF +-20% 16V |
| C942 | 67A | 309- | 102 - | 4 | 1000uF +-20% 25V |
| C951 | 67A | 305- | 470 - | 11J | 47uF +-20% 200V |
| C963 | 65A | 305M- | 472 - | 2B2 | 4700PF +-20% 400VAC |
|  | | | | | |
| C964 | 65A | 305M- | 472 - | 2B2 | 4700PF +-20% 400VAC |
| F901 | 84A | 41- | 2 | | FUSE |
| CN902 | 33A | 3074- | 1 | | 2P PLUG |

LOCATION

| | | | | | |
|--|------|-------|-------|-----|---------------------------|
| D901 | 93A | 52- | 55P - | 52T | DIODE IN5408 PEC |
| D902 | 93A | 52- | 55P - | 52T | DIODE IN5408 PEC |
| D903 | 93A | 52- | 55P - | 52T | DIODE IN5408 PEC |
| D904 | 93A | 52- | 55P - | 52T | DIODE IN5408 PEC |
| D919 | 93A | 60- | 503 | | DIODE GUF30G |
| D922 | 93A | 3020- | 6 - | 52T | STPR320 |
| D923 | 93A | 3020- | 8 | | RG-4Z-LF-L1 |
| H802 | 95A | 8013- | 9 - | 7 | HARNESS 9P-9P |
| H803 | 95A | 8013- | 6 - | 507 | WIRE HARNESS |
| HS1 | 95A | 205B- | 30 - | 042 | WIRE |
| IC101 | 56A | 1125- | 33 | | NT6861B-08062/I |
| IC102 | 56A | 1133- | 8 | | AT24C04 10P |
| IC104 | 56A | 74LS- | 14 - | H | 14 PIN IC 74LS14 |
|  | | | | | |
| IC401 | 56A | 573- | 1 | | TDA9111 |
| IC901 | 56A | 379- | 12 | | UC3842AM |
| JJ2 | 95A- | 201- | 69 - | 022 | WIRE |
| L401 | 73A | 147- | 48D - | L | LINEARITY COIL |
| L404 | 73A | 253- | 70 | | 1.5MH +-5% 0.3A |
| L405 | 73A | 253- | 68 - | L | 180UH +-10% |
| L901 | 73A | 174- | 2 - | LA | 15MH LINE FILTER |
| L903 | 73A | 259- | 4 | | 200UH +-5% |
| L906 | 73A | 253- | 90 - | L | CHOKE COIL |
| LED2 | 81A | 2- | 3 - | 2B | LED GREEN BL-B2441J |
| LED3 | 81A | 2- | 3 - | 2B | LED GREEN BL-B2441J |
| LED4 | 81A | 2- | 3 - | 2B | LED GREEN BL-B2441J |
| LED5 | 81A | 2- | 3 - | 2B | LED GREEN BL-B2441J |
| LED6 | 81A | 2- | 3 - | 2B | LED GREEN BL-B2441J |
| LED7 | 81A | 2- | 3 - | 2B | LED GREEN BL-B2441J |
| LED8 | 81A | 2- | 3 - | 2B | LED GREEN BL-B2441J |
| LED9 | 81A | 2- | 3 - | 2B | LED GREEN BL-B2441J |
| NR901 | 61A | 58- | 8 | | NTCR 15 OHM |
| P402 | 33A | 3192- | 4 | | 4 P PLUG |
| P403 | 33A | 8009- | 3 | | 3 P PLUG |
| PR901 | 61A | 52- | 22 - | 3 | 220VAC 14 OHM PTCR |
| Q402 | 57A | 706- | 8 - | T | 2N7000/GENERAL |
| Q410 | 57A | 600- | 14 | | CEPF630 |
| Q426 | 57A | 600- | 14 | | CEPF630 |
| Q705 | 57A | 690- | 1 | | POWER AMP. 2SB649A/HITACH |
| Q907 | 57A | 690- | 2 | | PNP TR. BD140 |
| Q909 | 57A | 728- | 3 | | HSB772P/HSB772E |
| R127 | 61A | 152M- | 910 - | 64 | 91 OHM +-5% 2W |
| R426 | 61A | 153M- | 220 - | 59 | 22 OHM +-5% 3W |
| R428 | 61A | 153M- | 478 - | 59 | 0.47 OHM +-5% 3W |
| R608 | 61A | 152M- | 100 - | 64 | 10 OHM +-5% 2W |
| R723 | 61A | 152M- | 101 - | 64 | 100 OHM +-5% 2W |
| R923 | 61A | 175L- | 474 - | 52T | 470K OHM +-5% 1/2W |
| R924 | 61A | 175L- | 474 - | 52T | 470K OHM +-5% 1/2W |
| R927 | 61A | 153M- | 333 - | 59 | 33K OHM +-5% 3W |
| R929 | 61A | 20K- | 338 - | GB1 | 0.33 OHM +-10% 2W |
| R955 | 61A | 303- | 228 - | 64 | 0.22 OHM +-5% 1W |
| R989 | 61A | 152M- | 471 - | 64 | 470 OHM +-5% 2W |
| SS1 | 95A | 205B- | 30 - | 052 | WIRE |
| SW901 | 77A | 267- | 12 - | HJ | PUSH-PUSH SWITCH |
|  | | | | | |
| T401 | 79A | 167- | 71A | | DRIVER X'FMR |

| | | | | | |
|-------|-----|-------|-----|---|-------------------|
| T402 | 79A | 355 | 4 - | A | FBT |
| T901 | 80A | 356T | 1 - | L | X'FMR |
| TP901 | 9A | 211- | 2 | | PIN |
| TP902 | 9A | 211- | 2 | | PIN |
| VR701 | 75A | 335- | 473 | | 47K OHM +-30% |
| VR702 | 75A | 335M- | 204 | | 200K OHM METAL VR |
| VR901 | 75A | 335- | 101 | | 100 OHM +-30% |
| VR902 | 75A | 335- | 223 | | 22K OHM +-30% |
| X101 | 93A | 22- | 22 | | 8.0000 MHZ |


PARTS LIST OF MAIN PC BOARD

| LOCATION | 154V/C551 | | | SPECIFICATION | |
|----------|-----------|-------|-------|---------------|-----------------------|
| | | | | | |
| | 6A | 31- | 4 | | BRASS |
| | 715A | 684- | 3A | | MAIN BOARD |
| C103 | 65A | 450- | 104 - | 7T | 0.1uF +80-20% Y5V 50V |
| C104 | 67A | 309- | 101 - | 4T | 100uF +-20% 25V |
| C105 | 65A | 450- | 104 - | 7T | 0.1uF +80-20% Y5V 50V |
| C106 | 67A | 309- | 330 - | 7T | 33uF +-20% 50V |
| C109 | 67A | 60- | 229 - | 7T | 2.2uF +-20% 50V |
| C110 | 67A | 309- | 109 - | 7T | 1.0uF +-20% 50V |
| C130 | 65A | 442- | 470 - | 13T | 47PF +-5% 50V NPO |
| C160 | 65A | 444- | 101 - | 5T | 100 PF 10% 50V Y5P |
| C162 | 65A | 444- | 102 - | 13T | 1000 PF 10% 50V Z5P |
| C163 | 65A | 444- | 101 - | 5T | 100 PF 10% 50V Y5P |
| C164 | 65A | 450- | 104 - | 7T | 0.1uF +80-20% Y5V 50V |
| C403 | 64A | 44J- | 223 - | 1AT | 22NF 100V |
| C405 | 67A | 309- | 470 - | 3T | 47uF +-20% 16V |
| C406 | 65A | 450- | 104 - | 7T | 0.1uF +80-20% Y5V 50V |
| C407 | 65A | 444- | 101 - | 5T | 100 PF 10% 50V Z5P |
| C408 | 65A | 444- | 101 - | 5T | 100 PF 10% 50V Z5P |
| C410 | 65A | 450- | 104 - | 7T | 0.1uF +80-20% Y5V 50V |
| C411 | 67A | 309- | 470 - | 3T | 47uF +-20% 16V |
| C412 | 65A | 442- | 221 - | 13T | 220PF +-5% 50V NPO |
| C413 | 65A | 450- | 104 - | 7T | 0.1uF +80-20% Y5V 50V |
| C415 | 64A | 176J- | 102 - | 1T | 0.001UF +-5% 100V |
| C417 | 64A | 176J- | 154 - | 0T | 0.15uF +-5% 63V/50V |
| C421 | 65A | 1K- | 102 - | 1T | INF/IKV Z5F +-10% |
| C423 | 65A | 444- | 332 - | 5T | 3300 PF 10% 50V Y5P |
| C429 | 65A | 444- | 332 - | 5T | 3300 PF 10% 50V Y5P |
| C433 | 67A | 309- | 100 - | 7T | 10uF +-20% 50V |
| C434 | 67A | 309- | 220 - | 7T | 22uF +-20% 50V |
| C435 | 64A | 44J- | 103 - | 1AT | 0.01UF 100V |
| C436 | 67A | 305- | 101 - | 7T | 100uF +-20% 50V |
| C437 | 67A | 309- | 220 - | 7T | 22uF +-20% 50V |
| C438 | 67A | 309- | 109 - | 7T | 1.0uF +-20% 50V |
| C439 | 67A | 309- | 109 - | 7T | 1.0uF +-20% 50V |
| C441 | 64A | 176J- | 224 - | 1T | 0.22UF +-5% 100V |
| C442 | 64A | 176J- | 272 - | 1T | 2700PF +-5% 100V |
| C443 | 67A | 309- | 470 - | 3T | 47uF +-20% 16V |
| C444 | 65A | 450- | 104 - | 7T | 0.1uF +80-20% Y5V 50V |
| C445 | 95A | 90- | 23 | | TIN COATED |
| C446 | 65A | 444- | 101 - | 5T | 100 PF 10% 50V Z5P |
| C447 | 64A | 45G- | 102 - | 1AT | 0.001UF 100V +-2% |
| C448 | 64A | 176J- | 823 - | 1T | 0.082uF +-5% 100V |
| C449 | 64A | 44J- | 473 - | 1AT | 0.047uF +-5% 100V |
| C460 | 65A | 450- | 333 - | 7T | 0.033uF +-5% 50V |
| C463 | 64A | 44J- | 103 - | 1AT | 0.01uF +-20% 100V |
| C476 | 65A | 450- | 104 - | 7T | 0.1uF +80-20% Y5V 50V |
| C480 | 95A | 90- | 23 | | TIN COATED |
| C601 | 64A | 176J- | 104 - | 1T | 0.1UF +-5% 100V |
| C602 | 65A | 444- | 331 - | 5T | 330 PF 10% 50V Y5P |
| C603 | 67A | 309- | 471 - | 3T | 470uF +-20% 16V |
| C604 | 64A | 176J- | 224 - | 0T | 0.22uF +-5% 63V |
| C605 | 67A | 309- | 470 - | 7T | 47uF +-20% 50V |
| C607 | 65A | 444- | 681 - | 5T | 680 PF 10% 50V Z5P |
| C608 | 65A | 450- | 104 - | 7T | 0.1uF +80-20% Y5V 50V |
| C609 | 65A | 450- | 104 - | 7T | 0.1uF +80-20% Y5V 50V |
| C610 | 64A | 176J- | 474 - | 0T | 0.47uF +-5% 50/63V |

| | | | | | |
|------|-----|-------|-------|-----|-----------------------|
| C611 | 65A | 450- | 104 - | 7T | 0.1uF +80-20% Y5V 50V |
| C612 | 67A | 309- | 470 - | 3T | 47uF +-20% 16V |
| C613 | 64A | 176J- | 104 - | 0T | 0.1UF +-5% 63V |
| C614 | 65A | 444- | 101 - | 5T | 100 PF 10% 50V Z5P |
| C615 | 64A | 44J- | 103 - | 1AT | 0.01UF 100V |
| C623 | 64A | 176J- | 104 - | 0T | 0.1UF +-5% 63V |

| LOCATION | 154V/C551 | | | | SPECIFICATION |
|----------|-----------|-------|-------|-----|------------------------|
| C705 | 67A | 309- | 220 - | 7T | 22uF +-20% 50V |
| C707 | 64A | 176J- | 223 - | 2T | 0.022uF +-5% 250V |
| C709 | 65A | 1K- | 561 - | 5T | 560PF +-10% Y5P 1KV |
| C710 | 64A | 176J- | 224 - | 1T | 0.22uF +-5% 100V |
| C712 | 67A | 60- | 229 - | 7T | 2.2uF 50V |
| C914 | 67A | 305- | 479 - | 7T | 4.7uF +-20% 50V |
| C916 | 67A | 305- | 101 - | 4T | 100uF +-20% 25V |
| C917 | 67A | 305- | 229 - | 7T | 2.2uF +-20% 50V |
| C918 | 64A | 44J- | 332 - | 1AT | 3300PF +-5% 100V |
| C920 | 64A | 44J- | 102 - | 1AT | 1000PF +-5% 100V |
| C921 | 64A | 176J- | 104 - | 1T | 0.1uF +-5% 100V |
| C922 | 64A | 176J- | 104 - | 1T | 0.1uF +-5% 100V |
| C923 | 65A | 1K- | 331 - | 5T | 330PF +-10% Y5P 1KV |
| C924 | 64A | 44J- | 332 - | 1AT | 3300PF +-5% 100V |
| C925 | 67A | 309- | 100 - | 7T | 10uF +-20% 50V |
| C937 | 67A | 305- | 471 - | 3T | 470uF +-20% 16V |
| C938 | 67A | 305- | 471 - | 3T | 470uF +-20% 16V |
| C941 | 64A | 176J- | 104 - | 0T | 0.1uF +-5% 63V |
| C943 | 64A | 44J- | 222 - | 1AT | 2200PF +-5% 100V |
| C944 | 65A | 450- | 104 - | 7T | 0.1uF +-80-20% Y5V 50V |
| C945 | 65A | 450- | 104 - | 7T | 0.1uF +-80-20% Y5V 50V |
| C946 | 64A | 176J- | 104 - | 2T | 0.1uF +-5% 250V MPE |
| C947 | 67A | 309- | 479 - | 7T | 4.7uF +-20% 50V |
| C950 | 65A | 1K- | 221 - | 5T | 220PF +-10% Y5P 1KV |
| C955 | 65A | 1K- | 221 - | 5T | 220PF +-10% Y5P 1KV |
| C961 | 64A | 44J- | 103 - | 1AT | 0.01UF 100V |
| C965 | 64A | 44J- | 103 - | 1AT | 0.01uF +-5% 100V |
| C995 | 64A | 44J- | 472 - | 1AT | 4700PF +-5% 100V |
| D101 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D102 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D103 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D104 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D125 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D126 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D127 | 95A | 90- | 23 | | TIN COATED |
| D160 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D402 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D403 | 93A | 1002- | 1P - | 52T | 1N5817 |
| D404 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D405 | 93A | 1002- | 1P - | 52T | 1N5817 |
| D406 | 93A | 60- | 21P - | 52T | PS156R |
| D407 | 93A | 60- | 21P - | 52T | PS156R |
| D409 | 93A | 39- | 515 - | 52T | TZX3VOC |
| D411 | 93A | 64- | 19G - | 52T | FAST RECOVERY DIODE |
| D412 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D414 | 93A | 60- | 38T - | 52T | FR103 |
| D415 | 93A | 60- | 26T - | 52T | FR107 |
| D417 | 95A | 90- | 23 | | TIN COATED |
| D418 | 93A | 60- | 21P - | 52T | PS156R |
| D419 | 93A | 60- | 21P - | 52T | PS156R |
| D420 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D450 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D460 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D463 | 93A | 60- | 26T - | 52T | FR107 |
| D601 | 93A | 52- | 47P - | 52T | 1N4004 |
| D602 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D603 | 93A | 64- | 11F - | 52T | DIODE IN4148 |

| | | | | | |
|------|-----|-----|-------|-----|--------------|
| D701 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D702 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D704 | 93A | 52- | 47P - | 52T | IN4004 |
| D706 | 93A | 60- | 21P - | 52T | PS156R |
| D710 | 95A | 90- | 23 | | TIN COATED |

| LOCATION | 154V/C551 | | | | SPECIFICATION |
|--|-----------|-------|-------|-----|-----------------|
| D721 | 95A | 90- | 23 | | TIN COATED |
| D909 | 93A | 52- | 1T - | 52T | 1A 600V IN4005 |
| D910 | 93A | 60- | 21P - | 52T | PS156R |
| D911 | 93A | 64- | 31T - | 52T | S.W DIODE BAV20 |
| D912 | 93A | 64- | 31T - | 52T | S.W DIODE BAV20 |
| D913 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D914 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D925 | 93A | 3020- | 6 - | 52T | STPR320 |
| D926 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D927 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D928 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D929 | 93A | 52- | 47P - | 52T | IN4004 |
|  | | | | | |
| D930 | 93A | 1040- | 2 - | 52T | UF4004 |
| D995 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| FB401 | 71A | 55- | 9 - | T | SHIELD BEAD |
| FB402 | 71A | 55- | 7 - | S | BEAD |
| FB403 | 71A | 55- | 7 - | S | BEAD |
| FB901 | 95A | 90- | 23 | | TIN COATED |
| FB902 | 95A | 90- | 23 | | TIN COATED |
| FB903 | 95A | 90- | 23 | | TIN COATED |
| FB904 | 71A | 55- | 9 - | T | SHIELD BEAD |
| FB905 | 71A | 55- | 19 - | T | SHIELD BEAD |
| FB907 | 71A | 55- | 9 - | T | SHIELD BEAD |
| J001 | 95A | 90- | 23 | | TIN COATED |
| J003 | 95A | 90- | 23 | | TIN COATED |
| J005 | 95A | 90- | 23 | | TIN COATED |
| J006 | 95A | 90- | 23 | | TIN COATED |
| J007 | 95A | 90- | 23 | | TIN COATED |
| J008 | 95A | 90- | 23 | | TIN COATED |
| J009 | 95A | 90- | 23 | | TIN COATED |
| J013 | 95A | 90- | 23 | | TIN COATED |
| J014 | 95A | 90- | 23 | | TIN COATED |
| J015 | 95A | 90- | 23 | | TIN COATED |
| J016 | 95A | 90- | 23 | | TIN COATED |
| J017 | 95A | 90- | 23 | | TIN COATED |
| J019 | 95A | 90- | 23 | | TIN COATED |
| J020 | 95A | 90- | 23 | | TIN COATED |
| J021 | 95A | 90- | 23 | | TIN COATED |
| J022 | 95A | 90- | 23 | | TIN COATED |
| J023 | 95A | 90- | 23 | | TIN COATED |
| J024 | 95A | 90- | 23 | | TIN COATED |
| J025 | 95A | 90- | 23 | | TIN COATED |
| J026 | 95A | 90- | 23 | | TIN COATED |
| J027 | 95A | 90- | 23 | | TIN COATED |
| J028 | 95A | 90- | 23 | | TIN COATED |
| J029 | 95A | 90- | 23 | | TIN COATED |
| J030 | 95A | 90- | 23 | | TIN COATED |
| J032 | 95A | 90- | 23 | | TIN COATED |
| J033 | 95A | 90- | 23 | | TIN COATED |
| J034 | 95A | 90- | 23 | | TIN COATED |
| J036 | 95A | 90- | 23 | | TIN COATED |
| J037 | 95A | 90- | 23 | | TIN COATED |
| J038 | 95A | 90- | 23 | | TIN COATED |
| J039 | 95A | 90- | 23 | | TIN COATED |
| J040 | 95A | 90- | 23 | | TIN COATED |

| | | | | |
|------|-----|-----|----|------------|
| J041 | 95A | 90- | 23 | TIN COATED |
| J042 | 95A | 90- | 23 | TIN COATED |
| J043 | 95A | 90- | 23 | TIN COATED |
| J044 | 95A | 90- | 23 | TIN COATED |
| J045 | 95A | 90- | 23 | TIN COATED |
| J046 | 95A | 90- | 23 | TIN COATED |

| LOCATION | 154V/C551 | | | SPECIFICATION | |
|----------|-----------|-------|-------|---------------|-----------------|
| J049 | 95A | 90- | 23 | TIN COATED | |
| J050 | 95A | 90- | 23 | TIN COATED | |
| J051 | 95A | 90- | 23 | TIN COATED | |
| J052 | 95A | 90- | 23 | TIN COATED | |
| J053 | 95A | 90- | 23 | TIN COATED | |
| J054 | 95A | 90- | 23 | TIN COATED | |
| J057 | 95A | 90- | 23 | TIN COATED | |
| J058 | 95A | 90- | 23 | TIN COATED | |
| J061 | 95A | 90- | 23 | TIN COATED | |
| J063 | 95A | 90- | 23 | TIN COATED | |
| J064 | 95A | 90- | 23 | TIN COATED | |
| J065 | 95A | 90- | 23 | TIN COATED | |
| J066 | 95A | 90- | 23 | TIN COATED | |
| J067 | 95A | 90- | 23 | TIN COATED | |
| J068 | 95A | 90- | 23 | TIN COATED | |
| J069 | 95A | 90- | 23 | TIN COATED | |
| J070 | 95A | 90- | 23 | TIN COATED | |
| J071 | 95A | 90- | 23 | TIN COATED | |
| J072 | 95A | 90- | 23 | TIN COATED | |
| J073 | 95A | 90- | 23 | TIN COATED | |
| J074 | 95A | 90- | 23 | TIN COATED | |
| J075 | 95A | 90- | 23 | TIN COATED | |
| J077 | 95A | 90- | 23 | TIN COATED | |
| J078 | 95A | 90- | 23 | TIN COATED | |
| J079 | 95A | 90- | 23 | TIN COATED | |
| J080 | 95A | 90- | 23 | TIN COATED | |
| J081 | 95A | 90- | 23 | TIN COATED | |
| J082 | 95A | 90- | 23 | TIN COATED | |
| J083 | 95A | 90- | 23 | TIN COATED | |
| J084 | 95A | 90- | 23 | TIN COATED | |
| J085 | 95A | 90- | 23 | TIN COATED | |
| J086 | 95A | 90- | 23 | TIN COATED | |
| J087 | 95A | 90- | 23 | TIN COATED | |
| J088 | 95A | 90- | 23 | TIN COATED | |
| J089 | 95A | 90- | 23 | TIN COATED | |
| J090 | 95A | 90- | 23 | TIN COATED | |
| J091 | 95A | 90- | 23 | TIN COATED | |
| J092 | 95A | 90- | 23 | TIN COATED | |
| J093 | 95A | 90- | 23 | TIN COATED | |
| J094 | 95A | 90- | 23 | TIN COATED | |
| J095 | 95A | 90- | 23 | TIN COATED | |
| J096 | 61A | 175L- | 159 - | 52T | 1.5 OHM 5% 1/2W |
| J097 | 95A | 90- | 23 | TIN COATED | |
| J098 | 95A | 90- | 23 | TIN COATED | |
| J099 | 95A | 90- | 23 | TIN COATED | |
| J100 | 95A | 90- | 23 | TIN COATED | |
| J101 | 95A | 90- | 23 | TIN COATED | |
| J103 | 95A | 90- | 23 | TIN COATED | |
| J104 | 95A | 90- | 23 | TIN COATED | |
| J107 | 95A | 90- | 23 | TIN COATED | |
| J108 | 95A | 90- | 23 | TIN COATED | |
| J110 | 95A | 90- | 23 | TIN COATED | |
| J111 | 95A | 90- | 23 | TIN COATED | |
| J113 | 95A | 90- | 23 | TIN COATED | |
| J116 | 95A | 90- | 23 | TIN COATED | |
| J117 | 95A | 90- | 23 | TIN COATED | |
| J118 | 95A | 90- | 23 | TIN COATED | |


| | | | | |
|------|-----|-----|----|------------|
| J120 | 95A | 90- | 23 | TIN COATED |
| J121 | 95A | 90- | 23 | TIN COATED |
| J123 | 95A | 90- | 23 | TIN COATED |
| J125 | 95A | 90- | 23 | TIN COATED |

| LOCATION | 154V/C551 | | | | SPECIFICATION |
|----------|-----------|------|-------|-----|----------------------|
| J130 | 95A | 90- | 23 | | TIN COATED |
| J132 | 95A | 90- | 23 | | TIN COATED |
| J133 | 95A | 90- | 23 | | TIN COATED |
| J134 | 95A | 90- | 23 | | TIN COATED |
| J914 | 95A | 90- | 23 | | TIN COATED |
| L101 | 73A | 53- | 339 - | 10T | 3.3UH +-10% |
| L402 | 95A | 90- | 23 | | TIN COATED |
| L403 | 95A | 90- | 23 | | TIN COATED |
| L406 | 95A | 90- | 23 | | TIN COATED |
| L907 | 95A | 90- | 23 | | TIN COATED |
| Q101 | 57A | 446- | 1 - | T | 2SC1213AC |
| Q401 | 57A | 419- | P - | T | 2SC945P |
| Q404 | 57A | 420- | SG - | T | KSA733GC SAMSUNG |
| Q405 | 57A | 420- | SG - | T | KSA733GC SAMSUNG |
| Q407 | 57A | 419- | SG - | T | KSC945GC |
| Q408 | 57A | 419- | P - | T | 2SC945P |
| Q601 | 57A | 419- | Y - | T | TR. 2SC1815Y TOSHIBA |
| Q703 | 57A | 419- | P - | T | 2SC945P |
| Q704 | 57A | 420- | SG - | T | KSA733GC SAMSUNG |
| Q707 | 57A | 419- | Y - | T | TR. 2SC1815Y TOSHIBA |
| Q904 | 57A | 594- | 501 - | T | TR. 2N6517 |
| Q908 | 57A | 419- | P - | T | 2SC945P |
| Q910 | 57A | 419- | P - | T | 2SC945P |
| Q912 | 57A | 446- | 1 - | T | 2SC1213AC |
| Q920 | 57A | 727- | 2 - | T | 2SA673C |
| R100 | 61A | 602- | 472 - | 52T | 4.7K OHM +-5% 1/6W |
| R101 | 61A | 602- | 102 - | 52T | 1K OHM +-5% 1/6W |
| R102 | 61A | 602- | 102 - | 52T | 1K OHM +-5% 1/6W |
| R103 | 61A | 602- | 102 - | 52T | 1K OHM +-5% 1/6W |
| R104 | 61A | 602- | 102 - | 52T | 1K OHM +-5% 1/6W |
| R105 | 61A | 602- | 102 - | 52T | 1K OHM +-5% 1/6W |
| R106 | 61A | 602- | 102 - | 52T | 1K OHM +-5% 1/6W |
| R107 | 61A | 602- | 102 - | 52T | 1K OHM +-5% 1/6W |
| R108 | 61A | 602- | 512 - | 52T | 5.1K OHM +-5% 1/6W |
| R109 | 61A | 602- | 512 - | 52T | 5.1K OHM +-5% 1/6W |
| R110 | 61A | 602- | 221 - | 52T | 220 OHM +-5% 1/6W |
| R111 | 61A | 602- | 221 - | 52T | 220 OHM +-5% 1/6W |
| R112 | 61A | 602- | 622 - | 52T | 6.2K OHM +-5% 1/6W |
| R113 | 61A | 602- | 103 - | 52T | 10K OHM +-5% 1/6W |
| R114 | 61A | 602- | 102 - | 52T | 1K OHM +-5% 1/6W |
| R116 | 61A | 602- | 472 - | 52T | 4.7K OHM +-5% 1/6W |
| R117 | 61A | 602- | 101 - | 52T | 100 OHM +-5% 1/6W |
| R118 | 61A | 602- | 103 - | 52T | 10K OHM +-5% 1/6W |
| R119 | 61A | 602- | 103 - | 52T | 10K OHM +-5% 1/6W |
| R122 | 61A | 172- | 221 - | 52T | 220 OHM +-5% 1/4W |
| R126 | 61A | 172- | 202 - | 52T | 2K OHM +-5% 1/4W |
| R132 | 61A | 602- | 101 - | 52T | 100 OHM +-5% 1/6W |
| R135 | 61A | 602- | 152 - | 52T | 1.5K OHM +-5% 1/6W |
| R136 | 61A | 602- | 222 - | 52T | 2.2K OHM +-5% 1/6W |
| R140 | 61A | 602- | 472 - | 52T | 4.7K OHM +-5% 1/6W |
| R143 | 61A | 602- | 101 - | 52T | 100 OHM +-5% 1/6W |
| R149 | 61A | 602- | 152 - | 52T | 1.5K OHM +-5% 1/6W |
| R156 | 61A | 602- | 103 - | 52T | 10K OHM +-5% 1/6W |
| R157 | 61A | 602- | 103 - | 52T | 10K OHM +-5% 1/6W |
| R160 | 61A | 602- | 221 - | 52T | 220 OHM +-5% 1/6W |
| R161 | 61A | 602- | 222 - | 52T | 2.2K OHM +-5% 1/6W |
| R162 | 61A | 602- | 102 - | 52T | 1K OHM +-5% 1/6W |

| | | | | | |
|------|-----|------|-------|-----|--------------------|
| R165 | 61A | 602- | 222 - | 52T | 2.2K OHM +-5% 1/6W |
| R166 | 61A | 602- | 102 - | 52T | 1K OHM +-5% 1/6W |
| R170 | 95A | 90- | 23 | | TIN COATED |
| R172 | 61A | 602- | 101 - | 52T | 100 OHM +-5% 1/6W |
| R180 | 61A | 602- | 362 - | 52T | 3.6K OHM +-5% 1/6W |

| LOCATION | 154V/C551 | | | | SPECIFICATION |
|----------|-----------|-------|-------|-----|--------------------|
| R185 | 61A | 602- | 102 - | 52T | 1K OHM +-5% 1/6W |
| R402 | 61A | 172- | 222 - | 52T | 2.2K OHM +-5% 1/4W |
| R403 | 61A | 602- | 101 - | 52T | 100 OHM +-5% 1/6W |
| R404 | 61A | 602- | 101 - | 52T | 100 OHM +-5% 1/6W |
| R405 | 61A | 602- | 102 - | 52T | 1K OHM +-5% 1/6W |
| R406 | 61A | 602- | 101 - | 52T | 100 OHM +-5% 1/6W |
| R408 | 61A | 172- | 304 - | 52T | 300K OHM +-5% 1/4W |
| R410 | 61A | 210- | 472 - | 52T | 4.7K OHM +-1% 1/6W |
| R411 | 61A | 602- | 182 - | 52T | 1.8K OHM +-5% 1/6W |
| R412 | 61A | 602- | 183 - | 52T | 18K OHM +-5% 1/6W |
| R414 | 61A | 172- | 332 - | 52T | 3.3K OHM +-5% 1/4W |
| R415 | 61A | 172- | 623 - | 52T | 62K OHM +-5% 1/4W |
| R416 | 61A | 210- | 223 - | 52T | 22K OHM +-1% 1/6W |
| R417 | 61A | 602- | 101 - | 52T | 100 OHM +-5% 1/6W |
| R418 | 61A | 210- | 472 - | 52T | 4.7K OHM +-1% 1/6W |
| R420 | 61A | 172- | 472 - | 52T | 4.7K OHM +-5% 1/4W |
| R421 | 61A | 172- | 222 - | 52T | 2.2K OHM +-5% 1/4W |
| R422 | 61A | 602- | 101 - | 52T | 100 OHM +-5% 1/6W |
| R423 | 61A | 602- | 203 - | 52T | 20K OHM +-5% 1/6W |
| R425 | 61A | 172- | 221 - | 52T | 220 OHM +-5% 1/4W |
| R427 | 61A | 175L- | 220 - | 52T | 22 OHM +-5% 1/2W |
| R429 | 61A | 204- | 100 - | 52T | 10 OHM +-5% 1/2W |
| R430 | 61A | 172- | 154 - | 52T | 150K OHM +-5% 1/4W |
| R431 | 95A | 90- | 23 | | TIN COATED |
| R433 | 61A | 602- | 222 - | 52T | 2.2K OHM +-5% 1/6W |
| R434 | 61A | 602- | 392 - | 52T | 3.9K OHM +-5% 1/6W |
| R435 | 61A | 172- | 471 - | 52T | 470 OHM +-5% 1/4W |
| R436 | 61A | 602- | 681 - | 52T | 680OHM +-5% 1/6W |
| R440 | 61A | 602- | 562 - | 52T | 5.6KOHM +-5% 1/6W |
| R441 | 61A | 175L- | 823 - | 52T | 82K OHM +-5% 1/2W |
| R442 | 61A | 172- | 202 - | 52T | 2K OHM +-5% 1/4W |
| R443 | 61A | 172- | 473 - | 52T | 47K OHM +-5% 1/4W |
| R447 | 61A | 172- | 473 - | 52T | 47K OHM +-5% 1/4W |
| R448 | 61A | 172- | 202 - | 52T | 2K OHM +-5% 1/4W |
| R449 | 61A | 172- | 472 - | 52T | 4.7K OHM +-5% 1/4W |
| R450 | 61A | 602- | 563 - | 52T | 56K OHM +-5% 1/6W |
| R460 | 61A | 172- | 472 - | 52T | 4.7K OHM +-5% 1/4W |
| R462 | 61A | 602- | 243 - | 52T | 24K OHM +-5% 1/6W |
| R470 | 61A | 602- | 153 - | 52T | 15K OHM +-5% 1/6W |
| R471 | 61A | 602- | 563 - | 52T | 56K OHM +-5% 1/6W |
| R490 | 61A | 210- | 563 - | 52T | 56K OHM +-1% 1/6W |
| R497 | 61A | 210- | 242 - | 52T | 2.4K OHM +-1% 1/6W |
| R601 | 61A | 172- | 243 - | 52T | 24K OHM +-5% 1/4W |
| R602 | 61A | 172- | 392 - | 52T | 3.9K OHM +-5% 1/4W |
| R603 | 61A | 172- | 123 - | 52T | 12K OHM +-5% 1/4W |
| R604 | 61A | 172- | 562 - | 52T | 5.6K OHM +-5% 1/4W |
| R605 | 61A | 175L- | 159 - | 52T | 1.5 OHM +-5% 1/2W |
| R606 | 61A | 175L- | 181 - | 52T | 180 OHM +-5% 1/2W |
| R609 | 61A | 172- | 564 - | 52T | 560K OHM +-5% 1/4W |
| R610 | 61A | 172- | 124 - | 52T | 120K OHM +-5% 1/4W |
| R611 | 61A | 172- | 563 - | 52T | 56K OHM +-5% 1/4W |
| R612 | 61A | 172- | 222 - | 52T | 2.2K OHM +-5% 1/4W |
| R613 | 61A | 172- | 102 - | 52T | 1K OHM +-5% 1/4W |
| R614 | 61A | 172- | 243 - | 52T | 24K OHM +-5% 1/4W |
| R623 | 61A | 602- | 101 - | 52T | 100 OHM +-5% 1/6W |
| R707 | 61A | 602- | 472 - | 52T | 4.7K OHM +-5% 1/6W |
| R708 | 61A | 602- | 103 - | 52T | 10K OHM +-5% 1/6W |

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|------|-----|------|-------|-----|-------------------|
| R709 | 61A | 602- | 103 - | 52T | 10K OHM +-5% 1/6W |
| R710 | 61A | 602- | 103 - | 52T | 10K OHM +-5% 1/6W |
| R711 | 61A | 602- | 103 - | 52T | 10K OHM +-5% 1/6W |
| R712 | 61A | 602- | 273 - | 52T | 27K OHM +-5% 1/6W |

| LOCATION | 154V/C551 | | | | SPECIFICATION |
|---|-----------|-------|-------|-----|-----------------------|
| R713 | 61A | 602- | 562 - | 52T | 5.6K OHM +-5% 1/6W |
| R715 | 61A | 602- | 103 - | 52T | 1K OHM +-5% 1/6W |
| R720 | 61A | 172- | 104 - | 52T | 100K OHM +-5% 1/4W |
| R721 | 61A | 175L- | 102 - | 52T | 1K OHM +-5% 1/2W |
| R722 | 61A | 602- | 332 - | 52T | 3.3K OHM +-5% 1/6W |
| R724 | 61A | 172- | 105 - | 52T | 1MEG OHM +-5% 1/4W |
| R725 | 61A | 204- | 154 - | 52T | 150K OHM 1/2W |
| R726 | 61A | 602- | 102 - | 52T | 1K OHM +-5% 1/6W |
| R727 | 61A | 175L- | 823 - | 52T | 82K OHM +-5% 1/2W |
| R728 | 61A | 172- | 561 - | 52T | 560 OHM +-5% 1/4W |
| R729 | 61A | 602- | 470 - | 52T | 47 OHM +-5% 1/6W |
| R730 | 95A | 90- | 23 | | TIN COATED |
|  | | | | | |
| R750 | 61A | 204- | 124 - | 52T | 120K OHM +-5% 1/2W |
| R901 | 61A | 175L- | 474 - | 52T | 470K OHM +-5% 1/2W |
| R917 | 61A | 175L- | 474 - | 52T | 470K OHM +-5% 1/2W |
| R918 | 61A | 175L- | 474 - | 52T | 470K OHM +-5% 1/2W |
| R922 | 61A | 172- | 273 - | 52T | 27K OHM +-5% 1/4W |
| R925 | 61A | 172- | 243 - | 52T | 24K OHM +-5% 1/4W |
| R926 | 61A | 172- | 183 - | 52T | 18K OHM +-5% 1/4W |
| R930 | 61A | 172- | 202 - | 52T | 2K OHM +-5% 1/4W |
| R931 | 61A | 200- | 109 - | 52T | 1 OHM +-1% 1/4W |
| R932 | 61A | 172- | 222 - | 52T | 2.2K OHM +-5% 1/4W |
| R933 | 61A | 172- | 361 - | 52T | 360 OHM +-5% 1/4W |
| R934 | 61A | 172- | 102 - | 52T | 1K OHM +-5% 1/4W |
| R935 | 61A | 172- | 334 - | 52T | 330K OHM +-5% 1/4W |
| R937 | 61A | 172- | 151 - | 52T | 150 OHM +-5% 1/4W |
| R938 | 61A | 172- | 220 - | 52T | 22 OHM +-5% 1/4W |
| R939 | 61A | 172- | 203 - | 52T | 20K OHM +-5% 1/4W |
| R940 | 61A | 171- | 393 - | 52T | 39K OHM +-2% 1/4W |
| R941 | 61A | 172- | 152 - | 52T | 1.5K OHM +-5% 1/4W |
| R942 | 61A | 172- | 680 - | 52T | 68 OHM +-5% 1/4W |
| R951 | 61A | 172- | 100 - | 52T | 10 OHM +-5% 1/4W |
| R952 | 61A | 172- | 473 - | 52T | 47K OHM +-5% 1/4W |
| R953 | 61A | 172- | 303 - | 52T | 30K OHM +-5% 1/4W |
| R956 | 61A | 172- | 122 - | 52T | 1.2K OHM +-5% 1/4W |
| R957 | 61A | 172- | 473 - | 52T | 47K OHM +-5% 1/4W |
| R958 | 61A | 172- | 102 - | 52T | 1K OHM +-5% 1/4W |
| R959 | 61A | 172- | 333 - | 52T | 33K OHM +-5% 1/4W |
| R960 | 61A | 172- | 473 - | 52T | 47K OHM +-5% 1/4W |
| R962 | 61A | 172- | 220 - | 52T | 22 OHM +-5% 1/4W |
| R963 | 61A | 175L | 201 - | 52T | 200 OHM +-5% 1/2W |
| R966 | 61A | 172- | 302 - | 52T | 3K OHM +-5% 1/4W |
| R967 | 61A | 172- | 132 - | 52T | 1.3K OHM +-5% 1/4W |
| R968 | 61A | 172- | 244 - | 52T | 240K OHM +-5% 1/4W |
| R969 | 61A | 172- | 753 - | 52T | 75K OHM +-5% 1/4W |
| R972 | 61A | 172- | 183 - | 52T | 18K OHM +-5% 1/4W |
| R977 | 61A | 175L- | 154 - | 52T | 150K OHM +-5% 1/2W |
| R980 | 61A | 172- | 221 - | 52T | 220 OHM +-5% 1/4W |
| R988 | 61A | 172- | 223 - | 52T | 22K OHM +-5% 1/4W |
| R995 | 61A | 602- | 393 - | 52T | 39K OHM +-5% 1/6W |
| R996 | 61A | 602- | 103 - | 52T | 10K OHM +-5% 1/6W |
| ZD108 | 93A | 90- | 23 | | TIN COATED |
| ZD110 | 93A | 39- | 73 - | 52T | ZENER 5.6V 2.5% HZ6B1 |
| ZD403 | 93A | 39- | 54 - | 52T | 12.7V +-5% 1/2W |
| ZD404 | 95A | 90- | 23 | | TIN COATED |

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|-------|-----|-----|-------|-----|------------------|
| ZD420 | 93A | 39- | 522 - | 52T | TZX20B |
| ZD701 | 93A | 39- | 518 - | 52T | TZX8V2A |
| ZD902 | 93A | 39- | 55T - | 52T | 0.5W ZD BZX55C30 |
| ZD903 | 93A | 39- | 124 - | 52T | ZD 18-2 |
| ZD702 | 93A | 39- | 515 - | 52T | TZX3V0C |

PARTS LIST OF CRT PC BOARD

| LOCATION | CRPC556DQJ2 | | | | SPECIFICATION |
|----------|-------------|-------|-------|-----|-------------------------|
| | 40A | 581- | 26 - | 605 | LABEL |
| | 87A | 3503- | 501 | | CRT SOCKET |
| | 705A | 556P | R56 - | 01 | IC802 ASS'Y |
| C812 | 67A | 305- | 102 - | 3 | 1000UF +-20% 16V |
| C835 | 65A | 2Z- | 103 - | 4B | 0.01UF +80% -20% 2K Z5V |
| C837 | 67A | 305- | 470 - | 10 | 47UF 160V |
| IC801 | 56A | 539- | 2 | | LM1279N |
| P801 | 33A | 3278- | 11A | | 11P PLUG |
| P802 | 33A | 3278- | 9 | | 9P PLUG |
| P803 | 33A | 3278- | 6 | | 6P PLUG |
| R807 | 61A | 208- | 390 - | 64 | 39 OHM +-5% 1W |
| R859 | 61A | 152M- | 101 - | 64 | 100 OHM 5% 2W |
| VR801 | 75A | 334- | 222 | | 2.2K OHM 30% |
| VR802 | 75A | 334- | 222 | | 2.2K OHM 30% |
| VR803 | 75A | 334- | 303 | | 30K OHM 30% |
| VR804 | 75A | 334- | 303 | | 30K OHM 30% |
| VR805 | 75A | 334- | 303 | | 30K OHM 30% |

PARTS LIST OF CRT AUTO INS. PC BOARD

| LOCATION | CRP556DQJAI | | | | SPECIFICATION |
|----------|-------------|-------|-------|-----|-------------------------|
| | 715A | 694 | 1 | | CRT BOARD |
| C801 | 67A | 305- | 100 - | 7T | 10uF +-20% 50V |
| C802 | 67A | 305- | 100 - | 7T | 10uF +-20% 50V |
| C803 | 67A | 305- | 100 - | 7T | 10uF +-20% 50V |
| C804 | 65A | 450- | 104 - | 7T | 0.1uF +80% -20% Y5V 50V |
| C805 | 65A | 450- | 104 - | 7T | 0.1uF +80% -20% Y5V 50V |
| C806 | 65A | 450- | 104 - | 7T | 0.1uF +80% -20% Y5V 50V |
| C807 | 67A | 309- | 100 - | 7T | 10uF +-20% 50V |
| C808 | 67A | 309- | 470 - | 3T | 47uF +-20% 16V |
| C809 | 65A | 450- | 104 - | 7T | 0.1uF +80% -20% Y5V 50V |
| C810 | 67A | 305- | 470 - | 7T | 47uF +-20% 50V |
| C811 | 65A | 450- | 104 - | 7T | 0.1uF +80% -20% Y5V 50V |
| C813 | 65A | 176J- | 224 - | 0T | 0.22uF +-5% Y5V 63V |
| C814 | 65A | 450- | 104 - | 7T | 0.1uF +80% -20% Y5V 50V |
| C815 | 65A | 450- | 104 - | 7T | 0.1uF +80% -20% Y5V 50V |
| C816 | 65A | 450- | 104 - | 7T | 0.1uF +80% -20% Y5V 50V |
| C818 | 67A | 305- | 470 - | 7T | 47uF +-20% 50V |
| C819 | 65A | 450- | 104 - | 7T | 0.1uF +80-20% Y5P 50V |
| C820 | 65A | 176J- | 104 - | 1T | 0.1UF +-5% 100V |
| C828 | 67A | 70- | 478 - | 9T | 0.47uF 100V NP |
| C829 | 67A | 70- | 478 - | 9T | 0.47uF 100V NP |
| C830 | 67A | 70- | 478 - | 9T | 0.47uF 100V NP |
| C831 | 64A | 176J- | 104 - | 1T | 0.1uF +-5% 100V |
| C832 | 64A | 176J- | 104 - | 1T | 0.1uF +-5% 100V |
| C833 | 64A | 176J- | 104 - | 1T | 0.1uF +-5% 100V |
| C834 | 65A | 176J- | 104 - | 1T | 0.1uF +-5% 100V |
| C836 | 65A | 1K- | 221 - | 5T | 220PF/1KV +-10% Y5P |
| C838 | 65A | 444- | 102 - | 13T | 1000PF +-10% Z5P 50V |
| C840 | 65A | 517K- | 102 - | 3T | 1000PF +-10% Z5U 500V |
| C841 | 65A | 517K- | 102 - | 3T | 1000PF +-10% Z5U 500V |
| C842 | 65A | 517K- | 102 - | 3T | 1000PF +-10% Z5U 500V |
| C861 | 65A | 517M- | 103 - | 3T | 10NF +-20% Z5U 500V |
| D801 | 93A | 64- | 11F - | 52T | DIODE IN4148 |

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|------|-----|-----|-------|-----|--------------|
| D802 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D803 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D804 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D805 | 93A | 64- | 11F - | 52T | DIODE IN4148 |

| LOCATION | CRP556DQJAI | | | | SPECIFICATION |
|----------|-------------|------|-------|-----|----------------------|
| D806 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D807 | 93A | 64- | 11F - | 52T | DIODE IN4148 |
| D808 | 93A | 64- | 19G - | 52T | FAST RECOVERY DIODE |
| D809 | 93A | 64- | 19G - | 52T | FAST RECOVERY DIODE |
| D810 | 93A | 64- | 19G - | 52T | FAST RECOVERY DIODE |
| D811 | 93A | 64- | 19G - | 52T | FAST RECOVERY DIODE |
| D812 | 93A | 64- | 19G - | 52T | FAST RECOVERY DIODE |
| D813 | 93A | 64- | 19G - | 52T | FAST RECOVERY DIODE |
| D814 | 93A | 64- | 19G - | 52T | FAST RECOVERY DIODE |
| D815 | 93A | 64- | 19G - | 52T | FAST RECOVERY DIODE |
| D816 | 93A | 64- | 19G - | 52T | FAST RECOVERY DIODE |
| D817 | 93A | 52- | 1T - | 52T | 1A 600V 1N4005 |
| J801 | 95A | 90- | 23 | | TIN COATED |
| J802 | 95A | 90- | 23 | | TIN COATED |
| J803 | 95A | 90- | 23 | | TIN COATED |
| J804 | 95A | 90- | 23 | | TIN COATED |
| J805 | 95A | 90- | 23 | | TIN COATED |
| J806 | 95A | 90- | 23 | | TIN COATED |
| J807 | 95A | 90- | 23 | | TIN COATED |
| J808 | 95A | 90- | 23 | | TIN COATED |
| J809 | 95A | 90- | 23 | | TIN COATED |
| J810 | 95A | 90- | 23 | | TIN COATED |
| J818 | 95A | 90- | 23 | | TIN COATED |
| J819 | 95A | 90- | 23 | | TIN COATED |
| J820 | 95A | 90- | 23 | | TIN COATED |
| L801 | 73A | 54- | 479 - | 5T | 4.7UH |
| L805 | 73A | 54- | 478 - | 10T | 0.47UH |
| L806 | 73A | 54- | 478 - | 10T | 0.47UH |
| L807 | 73A | 54- | 478 - | 10T | 0.47UH |
| L808 | 73A | 54- | 479 - | 5T | 4.7UH |
| Q813 | 57A | 419- | SG - | T | TR. KSC945GC |
| Q814 | 57A | 742- | 1 - | T | TR. KSC1730-0 |
| R801 | 61A | 602- | 750 - | 26T | 75 OHM +-5% 1/6W |
| R802 | 61A | 602- | 750 - | 26T | 75 OHM +-5% 1/6W |
| R803 | 61A | 602- | 750 - | 26T | 75 OHM +-5% 1/6W |
| R804 | 61A | 602- | 300 - | 26T | 30 OHM +-5% 1/6W |
| R805 | 61A | 602- | 300 - | 26T | 30 OHM +-5% 1/6W |
| R806 | 61A | 602- | 300 - | 26T | 30 OHM +-5% 1/6W |
| R808 | 61A | 602- | 103 - | 26T | 10K OHM +-5% 1/6W |
| R809 | 61A | 172- | 225 - | 26T | 2.2MEG OHM +-5% 1/4W |
| R810 | 61A | 602- | 101 - | 26T | 100 OHM +-5% 1/6W |
| R811 | 61A | 602- | 332 - | 26T | 3.3K OHM +-5% 1/6W |
| R812 | 61A | 602- | 132 - | 26T | 1.3K OHM +-5% 1/6W |
| R813 | 61A | 602- | 332 - | 26T | 3.3K OHM +-5% 1/6W |
| R814 | 61A | 602- | 332 - | 26T | 3.3K OHM +-5% 1/6W |
| R815 | 61A | 602- | 391 - | 26T | 390 OHM +-5% 1/6W |
| R816 | 61A | 602- | 391 - | 26T | 390 OHM +-5% 1/6W |
| R817 | 61A | 602- | 391 - | 26T | 390 OHM +-5% 1/6W |
| R818 | 61A | 602- | 100 - | 26T | 10 OHM +-5% 1/6W |
| R819 | 61A | 602- | 100 - | 26T | 10 OHM +-5% 1/6W |
| R820 | 61A | 602- | 100 - | 26T | 10 OHM +-5% 1/6W |
| R821 | 95A | 90- | 23 | | TIN COATED |
| R823 | 61A | 602- | 910 - | 26T | 91 OHM +-5% 1/6W |
| R824 | 61A | 602- | 910 - | 26T | 91 OHM +-5% 1/6W |
| R825 | 61A | 602- | 910 - | 26T | 91 OHM +-5% 1/6W |
| R826 | 95A | 90- | 23 | | TIN COATED |
| R840 | 61A | 172- | 102 - | 26T | 1K OHM +-5% 1/4W |

| | | | | | |
|------|-----|------|-------|-----|--------------------|
| R841 | 61A | 172- | 102 - | 26T | 1K OHM +-5% 1/4W |
| R842 | 61A | 172- | 102 - | 26T | 1K OHM +-5% 1/4W |
| R846 | 61A | 602- | 393 - | 26T | 39K OHM +-5% 1/6W |
| R847 | 61A | 602- | 393 - | 26T | 39K OHM +-5% 1/6W |
| R848 | 61A | 602- | 393 - | 26T | 39K OHM +-5% 1/6W |
| R849 | 61A | 172- | 105 - | 26T | 1MEG OHM +-5% 1/4W |

| LOCATION | CRP556DQJAI | | | | SPECIFICATION |
|----------|-------------|-------|-------|-----|--------------------|
| R850 | 61A | 172- | 105 - | 26T | 1MEG OHM +-5% 1/4W |
| R851 | 61A | 172- | 105 - | 26T | 1MEG OHM +-5% 1/4W |
| R855 | 61A | 175L- | 560 - | 52T | 56 OHM +-5% 1/2W |
| R856 | 61A | 175L- | 560 - | 52T | 56 OHM +-5% 1/2W |
| R857 | 61A | 175L- | 560 - | 52T | 56 OHM +-5% 1/2W |
| R858 | 95A | 90- | 23 | | TIN COATED |
| R860 | 61A | 172- | 104 - | 26T | 100K OHM +-5% 1/4W |
| R861 | 61A | 602- | 822 - | 26T | 8.2K OHM +-5% 1/6W |
| R862 | 61A | 602- | 222 - | 26T | 2.2K OHM +-5% 1/6W |
| R863 | 95A | 90- | 23 | | TIN COATED |
| R864 | 61A | 175L- | 471 - | 52T | 470 OHM +-5% 1/2W |
| ZD801 | 93A | 39- | 519 - | 52T | TZX8V2B |

PARTS LIST OF IC802 ASS'Y

| LOCATION | PARTS No. | | | | SPECIFICATION |
|----------|-----------|-------|-------|-----|---------------|
| | 90A | 355- | 2 | | HEAT SINK |
| | M1A | 1730- | 8 - | 128 | SCREW |
| IC802 | 56A | 551- | 3 | | LM2438T |
| L809 | 73A | 54- | 109 - | 5T | 1UH |
| L810 | 73A | 54- | 109 - | 5T | 1UH |
| L811 | 73A | 54- | 109 - | 5T | 1UH |

PARTS LIST OF Q911 ASS'Y

| LOCATION | PARTS No. | | | | SPECIFICATION |
|----------|-----------|-------|-----|-----|-----------------|
| | 5A | 42- | 501 | | NYLON WASHER |
| | 12A | 372- | 1 | | SILICONE RUBBER |
| | 90A | 315- | 1 | | HEAT SINK |
| | M1A | 1730- | 8 - | 128 | SCREW |
| Q911 | 57A | 600- | 504 | | MOS FET IRF634A |


PARTS LIST OF IC601 ASS'Y

| LOCATION | PARTS No. | | | | SPECIFICATION |
|----------|-----------|-------|------|-----|-----------------|
| | 5A | 42- | 501 | | NYLON WASHER |
| | 12A | 372- | 1 | | SILICONE RUBBER |
| | 90A | 348- | 501 | | HEAT SINK |
| | M1A | 1730- | 10 - | 128 | SCREW |
| IC601 | 56A | 574- | 1 | | TDA9302H |


PARTS LIST OF IC904 ASS'Y

| LOCATION | PARTS No. | | | | SPECIFICATION |
|----------|-----------|-------|------|-----|------------------------|
| | 90A | 315- | 1 | | HEAT SINK |
| | M1A | 1730- | 6 - | 128 | SCREW |
| IC904 | 56A | 133- | 12 - | ST | 3 PIN 12V REG. L7812CV |


PARTS LIST OF Q403/Q406/D408 ASS'Y

| LOCATION | PARTS No. | | | | SPECIFICATION |
|--|-----------|-------|------|-----|-----------------------|
| | 5A | 42- | 501 | | NYLON WASHER |
| | 32A | 3028- | 8 | | MICA |
| | 90A | 354- | 509 | | HEAT SINK |
| | M1A | 1730- | 8 - | 128 | SCREW |
| | M1A | 1730- | 10 - | 128 | SCREW |
|  | | | | | |
| D408 | 93A | 220- | 12 | | FMP-2FUR 1500/600V 5A |
| Q403 | 57A | 689- | 6 | | 2SC5297 |
| Q406 | 57A | 415- | 1 | | TIP122 |

PARTS LIST OF AC LINET ASS'Y

| LOCATION | PARTS No. | | | | SPECIFICATION |
|--|-----------|-------|-------|-----|------------------|
| CN901 | 95A | 205S- | 354 - | 023 | WIRE ASS'Y |
|  | | | | | |
| | 96A | 29- | 6 - | 190 | H.S. TUBING |
| | 87A | 501- | 5 | | RECEPTACLES 0714 |

PARTS LIST OF Q901 ASS'Y

| LOCATION | PARTS No. | | | | SPECIFICATION |
|--|-----------|-------|------|-----|---------------------|
| | 5A | 42- | 501 | | NYLON WASHER |
| | 12A | 372- | 1 | | SILICONE RUBBER |
| | 90A | 339- | 2 - | A | HEAT SINK |
|  | | | | | |
| | M1A | 1730- | 10 - | 128 | SCREW |
| Q901 | 57A | 667- | 7 | | IRFBC40 I.R. MOSFET |

PARTS LIST OF CAB'T ASS'Y

| LOCATION | PARTS No. | | | | SPECIFICATION |
|----------|-----------|-------|-------|-----|----------------|
| | 12A | 381- | 500 | | RUBBER FOOT |
| | 19A | 506- | 5 | | SPRING |
| | 33A | 3709- | 1 | | POWER LED LENS |
| | 33A | 3734- | 1 | | POWER BUTTON |
| | 34A | 611- | 311 - | AL | SWIVEL |
| | 34A | 612- | 311 - | AL | BASE |
| | 34A | 624- | 312 - | 2AT | BACK COVER |
| | 45A | 76- | 31 - | RN | PE BAG |

PARTS LIST OF CRT ALTERNATION

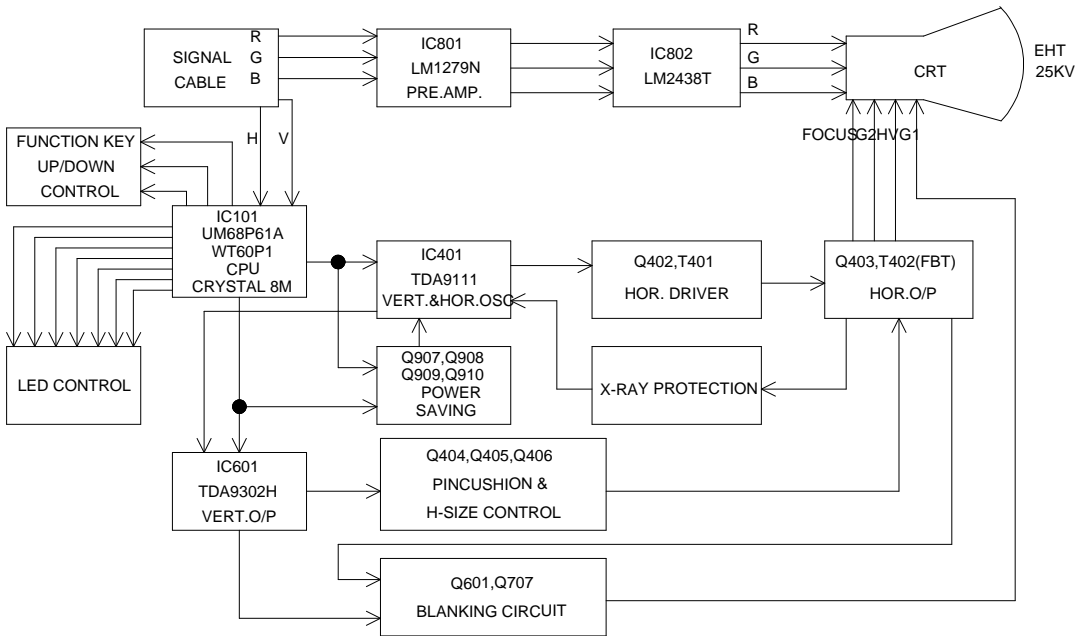
| LOCATION | PARTS No. | | | | SPECIFICATION |
|----------|-----------|-------|-------|-----|---------------------|
| | 750A | 5910- | 7PS | | 15" CHUNGHWA CRT |
| C418 | 63A | 210J- | 432 - | 8FC | 0.0043uF +-5% 2000V |
| C425 | 63A | 210J- | 334 - | 3CC | 0.33 uF +-5% 400V |
| C430 | 93A | 60- | 21 - | 52T | FRD 1.5A 500V FR155 |
| P404 | 33A | 8009- | 3 | | 3P PLUG |
| R409 | 61A | 172- | 204 - | 52T | 200K OHM 5% 1/4W |
| R456 | 61A | 153M- | 271 - | 59 | 270 OHM 5% 3W |
| R457 | 61A | 153M- | 560 - | 59 | 56 OHM 5% 3W |
| R458 | 61A | 153M- | 560 - | 59 | 56 OHM 5% 3W |
| R461 | 61A | 153M- | 151 - | 59 | 150 OHM 5% 3W |
| R607 | 61A | 208- | 918 - | 52T | 0.91 OHM 5% 1W |

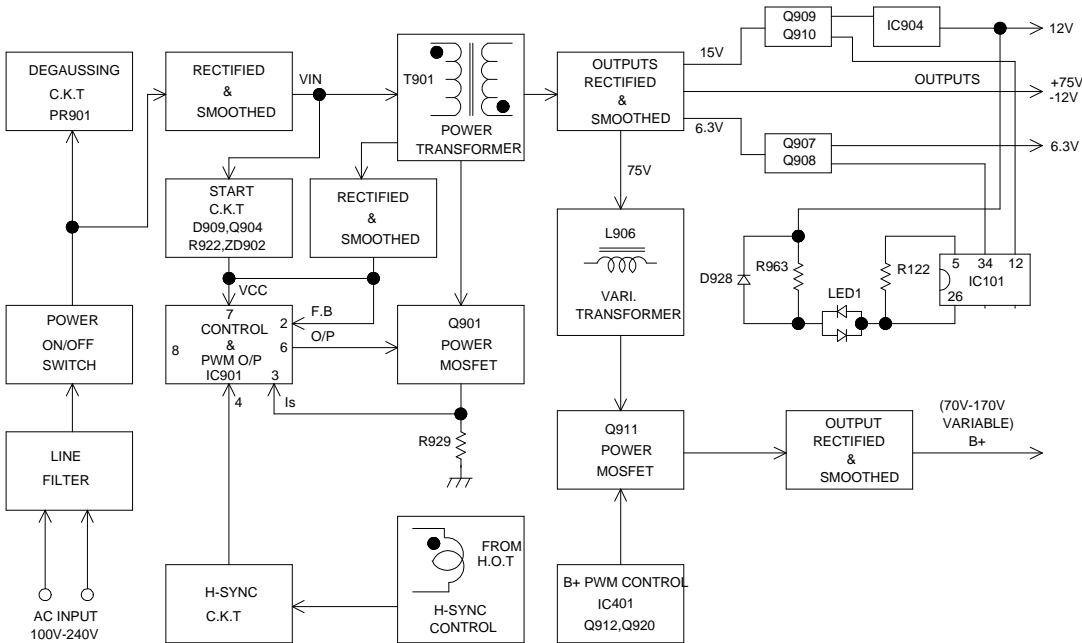
| LOCATION | PARTS No. | | | | SPECIFICATION |
|----------|-----------|-------|-------|-----|----------------------|
| | 750A | 5910- | 3PS - | TQ | 15" CHUNGHWA .28 CRT |
| C418 | 63A | 210J- | 472 - | 8FC | 0.0047uF +-5% 2000V |
| C425 | 63A | 210J- | 274 - | 3CC | 0.27uF +-5% 400V |
| C430 | 93A | 60- | 21 - | 52T | FRD 1.5A 500V FR155 |
| P404 | 33A | 8009- | 3 | | 3P PLUG |
| R409 | 61A | 172- | 364 - | 52T | 360K OHM 5% 1/4W |
| R456 | 61A | 153M- | 271 - | 59 | 270 OHM 5% 3W |
| R457 | 61A | 153M- | 560 - | 59 | 56 OHM 5% 3W |
| R458 | 61A | 153M- | 560 - | 59 | 56 OHM 5% 3W |
| R461 | 61A | 153M- | 151 - | 59 | 150 OHM 5% 3W |
| R607 | 61A | 208- | 918 - | 52T | 0.91 OHM 5% 1W |

| LOCATION | PARTS No. | | | | SPECIFICATION |
|----------|-----------|-------|-------|-----|---------------------|
| | 750A | 5910- | 3PS | | 15" CHUNGHWA CRT |
| C418 | 63A | 210J- | 472 - | 8FC | 0.0047uF +-5% 2000V |
| C425 | 63A | 210J- | 274 - | 3CC | 0.27uF +-5% 400V |
| C430 | 93A | 60- | 21 - | 52T | FRD 1.5A 500V FR155 |
| P404 | 33A | 8009- | 3 | | 3P PLUG |
| R409 | 61A | 172- | 364 - | 52T | 360K OHM 5% 1/4W |
| R456 | 61A | 153M- | 271 - | 59 | 270 OHM 5% 3W |
| R457 | 61A | 153M- | 560 - | 59 | 56 OHM 5% 3W |
| R458 | 61A | 153M- | 560 - | 59 | 56 OHM 5% 3W |
| R461 | 61A | 153M- | 151 - | 59 | 150 OHM 5% 3W |
| R607 | 61A | 208- | 918 - | 52T | 0.91 OHM 5% 1W |

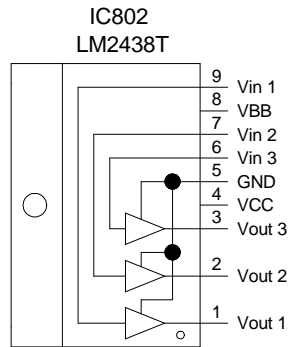
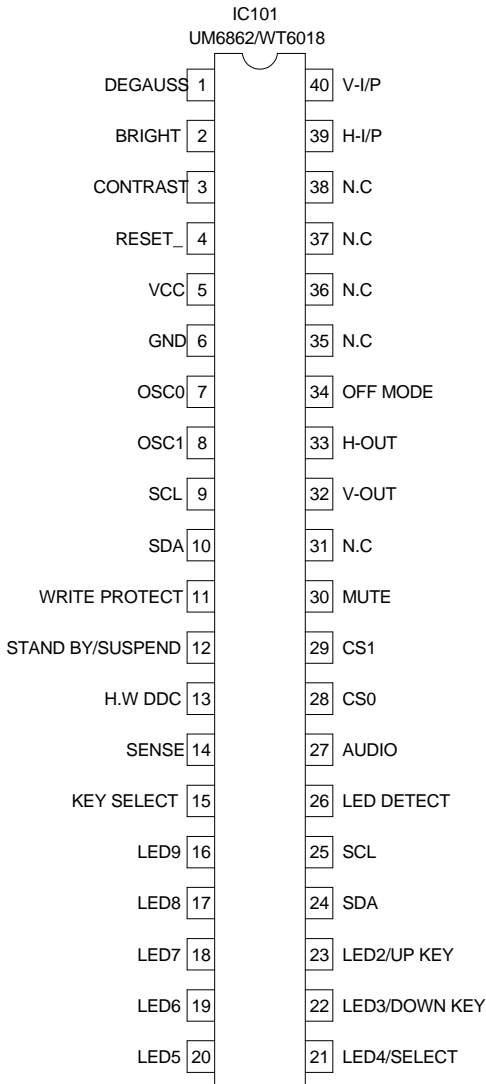
| LOCATION | PARTS No. | | | | SPECIFICATION |
|----------|-----------|-------|-------|-----|---------------------|
| | 750A | 5910- | 5PS | | 15" CHUNGHWA CRT |
| C418 | 63A | 210J- | 432 - | 8FC | 0.0043uF +-5% 2000V |
| C425 | 63A | 210J- | 274 - | 3CC | 0.27uF +-5% 400V |
| C430 | 93A | 60- | 21 - | 52T | FRD 1.5A 500V FR155 |
| P404 | 33A | 8009- | 3 | | 3P PLUG |
| R409 | 61A | 172- | 364 - | 52T | 360K OHM 5% 1/4W |
| R456 | 61A | 153M- | 271 - | 59 | 270 OHM 5% 3W |
| R457 | 61A | 153M- | 560 - | 59 | 56 OHM 5% 3W |
| R458 | 61A | 153M- | 560 - | 59 | 56 OHM 5% 3W |
| R461 | 61A | 153M- | 151 - | 59 | 150 OHM 5% 3W |
| R607 | 61A | 208- | 918 - | 52T | 0.91 OHM 5% 1W |

| LOCATION | PARTS No. | | | | SPECIFICATION |
|----------|-----------|-------|-------|-----|---------------------|
| | 750A | 5910- | 3PS - | D | CHUNGHWA CRT |
| C418 | 63A | 210J- | 472 - | 8FC | 0.0047uF +-5% 2000V |
| C425 | 63A | 210J- | 334 - | 3CC | 0.33uF +-5% 400V |
| C430 | 93A | 60- | 21 - | 52T | FRD 1.5A 500V FR155 |
| P404 | 33A | 8009- | 3 | | 3P PLUG |
| R409 | 61A | 172- | 204 - | 52T | 200K OHM 5% 1/4W |
| R456 | 61A | 153M- | 271 - | 59 | 270 OHM 5% 3W |
| R457 | 61A | 153M- | 560 - | 59 | 56 OHM 5% 3W |
| R458 | 61A | 153M- | 560 - | 59 | 56 OHM 5% 3W |
| R461 | 61A | 153M- | 151 - | 59 | 150 OHM 5% 3W |
| R607 | 61A | 208- | 918 - | 52T | 0.91 OHM 5% 1W |

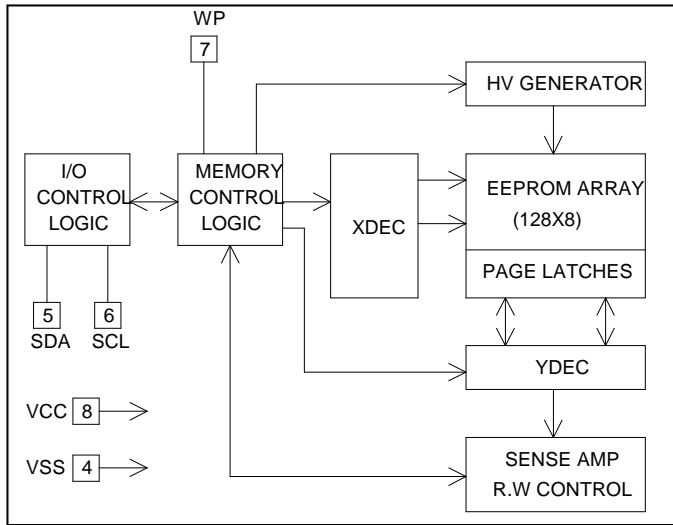




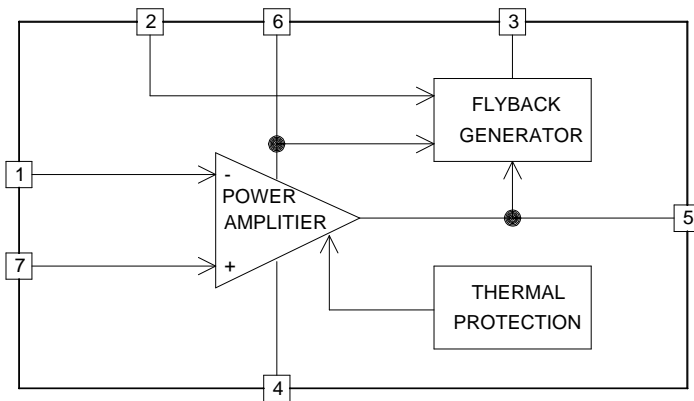
10. IC BLOCK DIAGRAMS



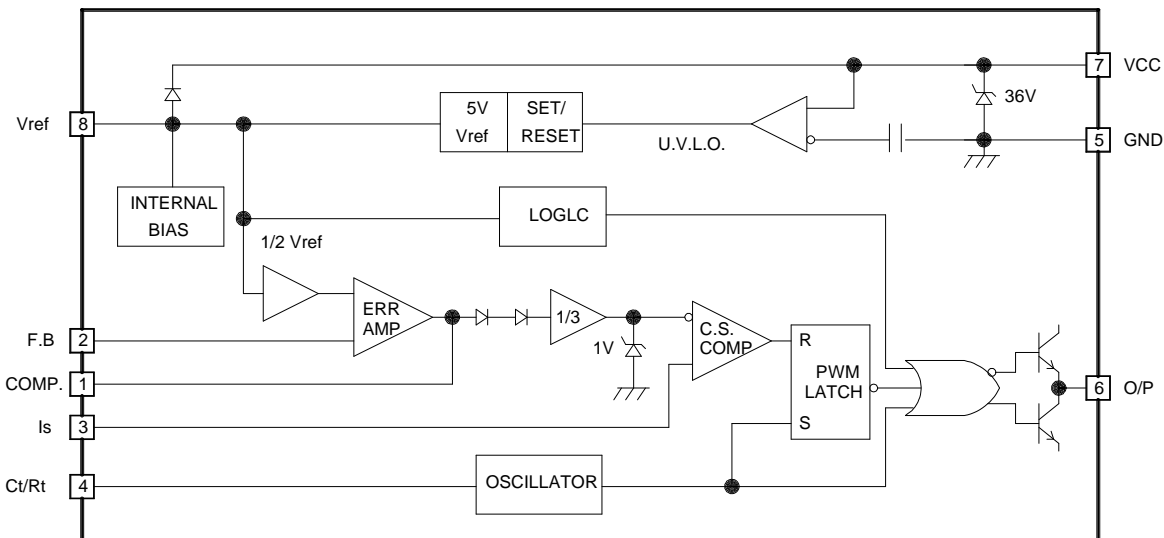
IC102 24C04



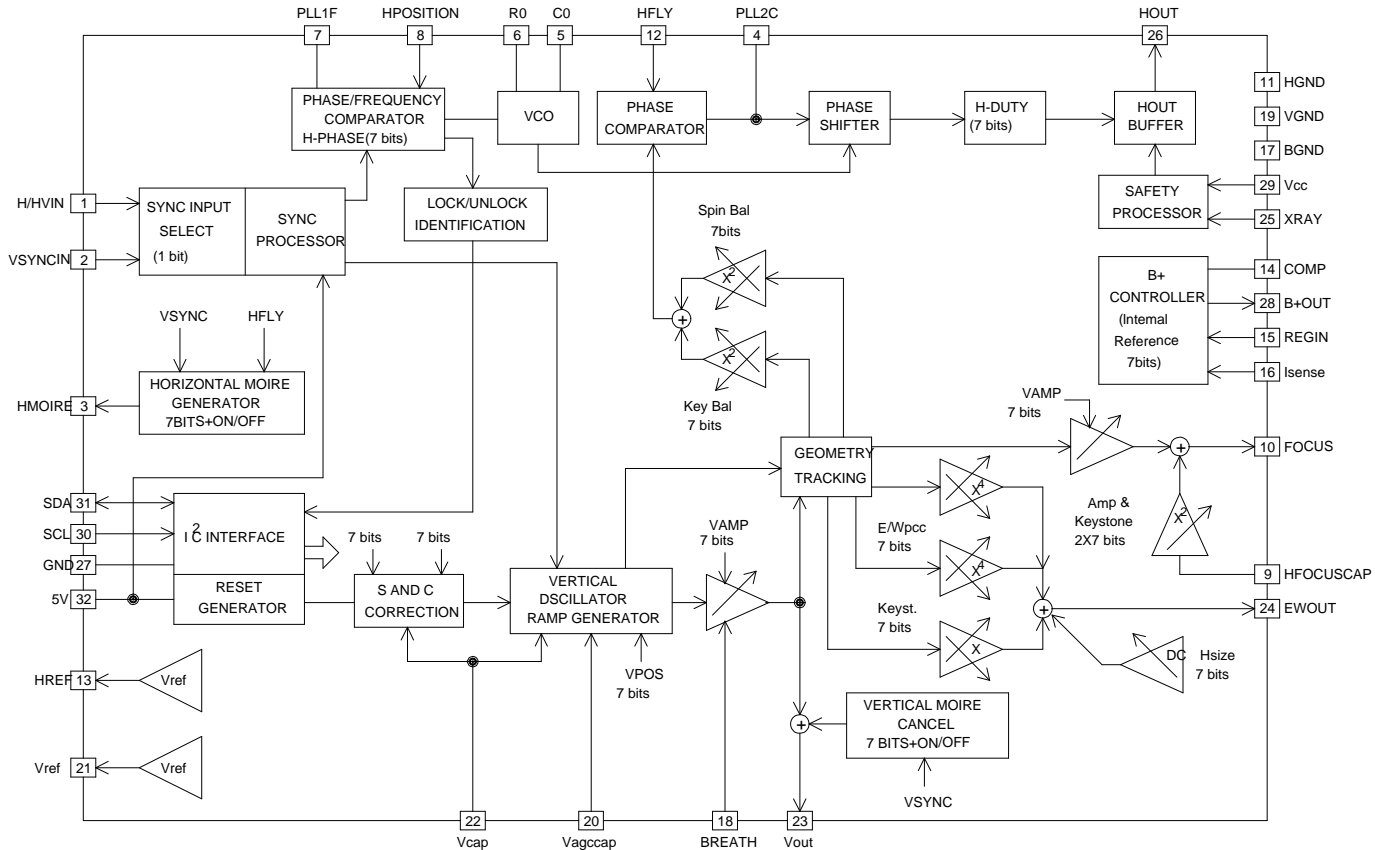
IC601 TDA9302H



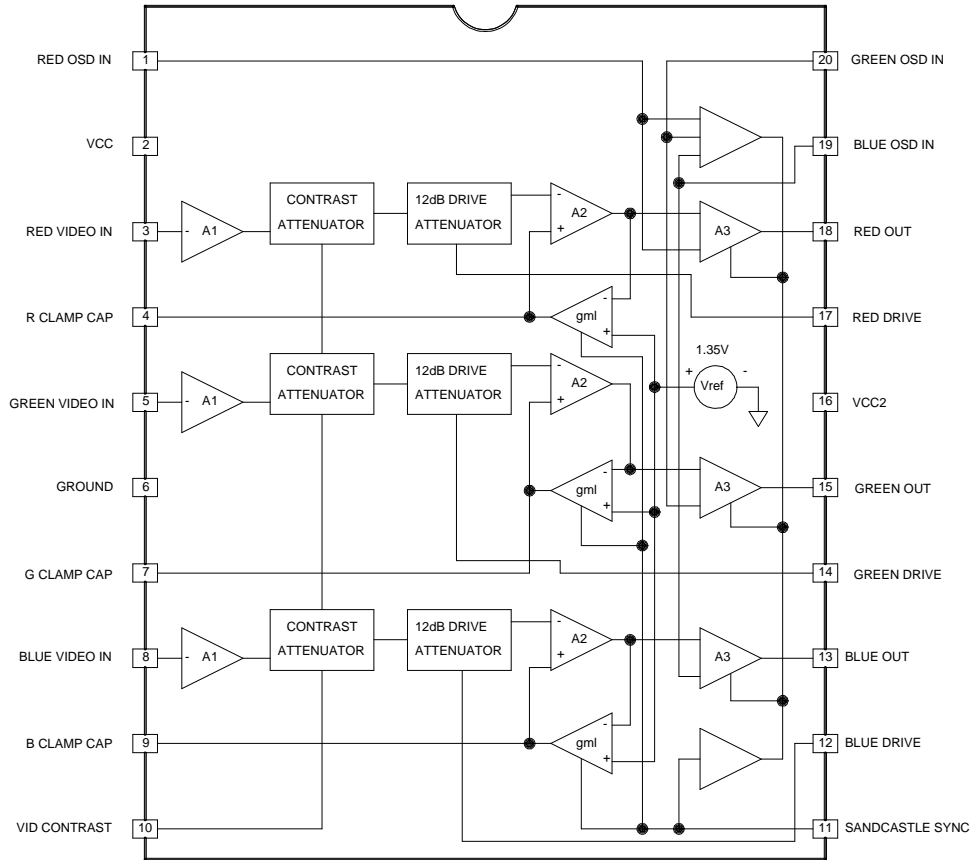
IC901 3842



IC401
TDA9111

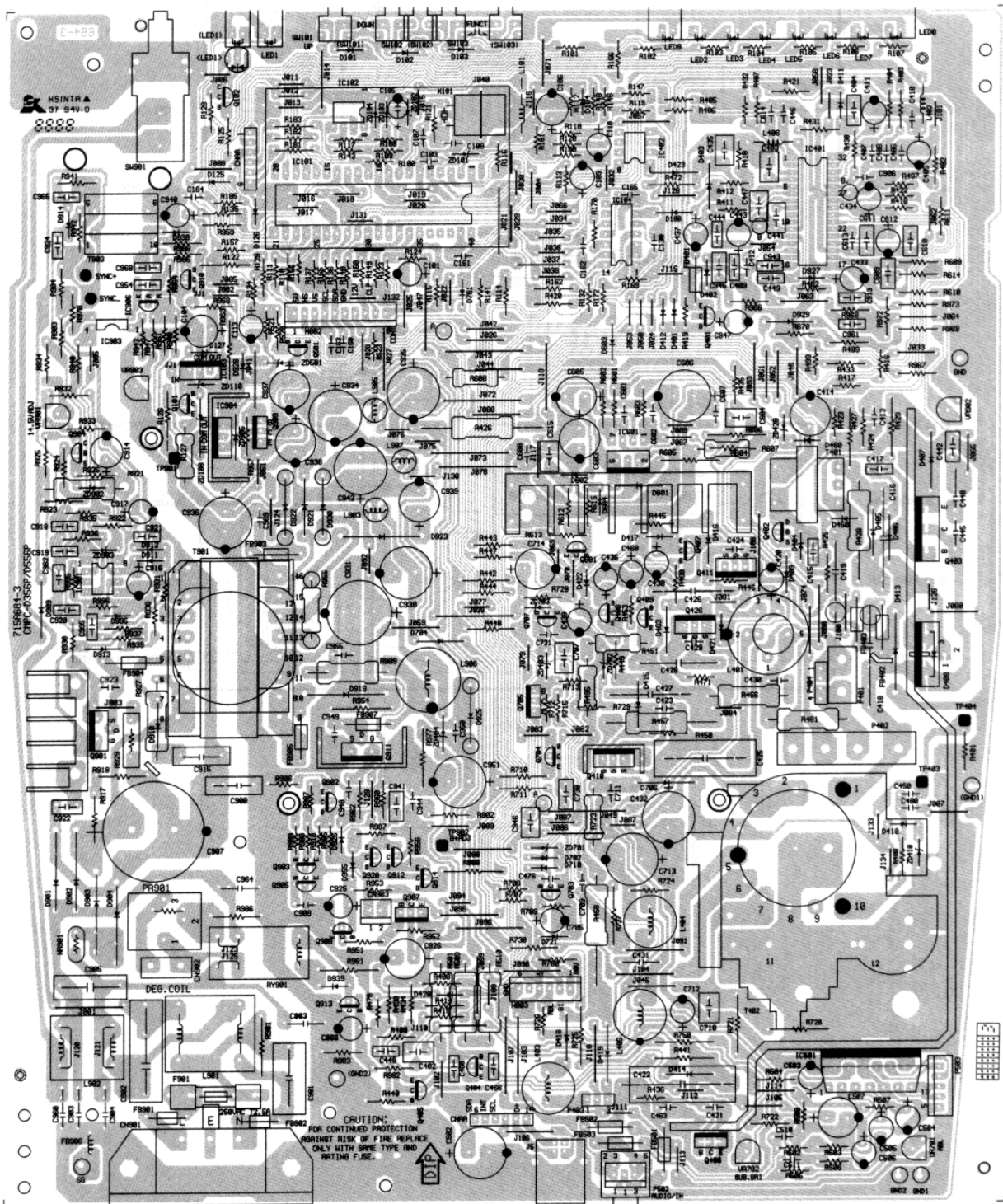


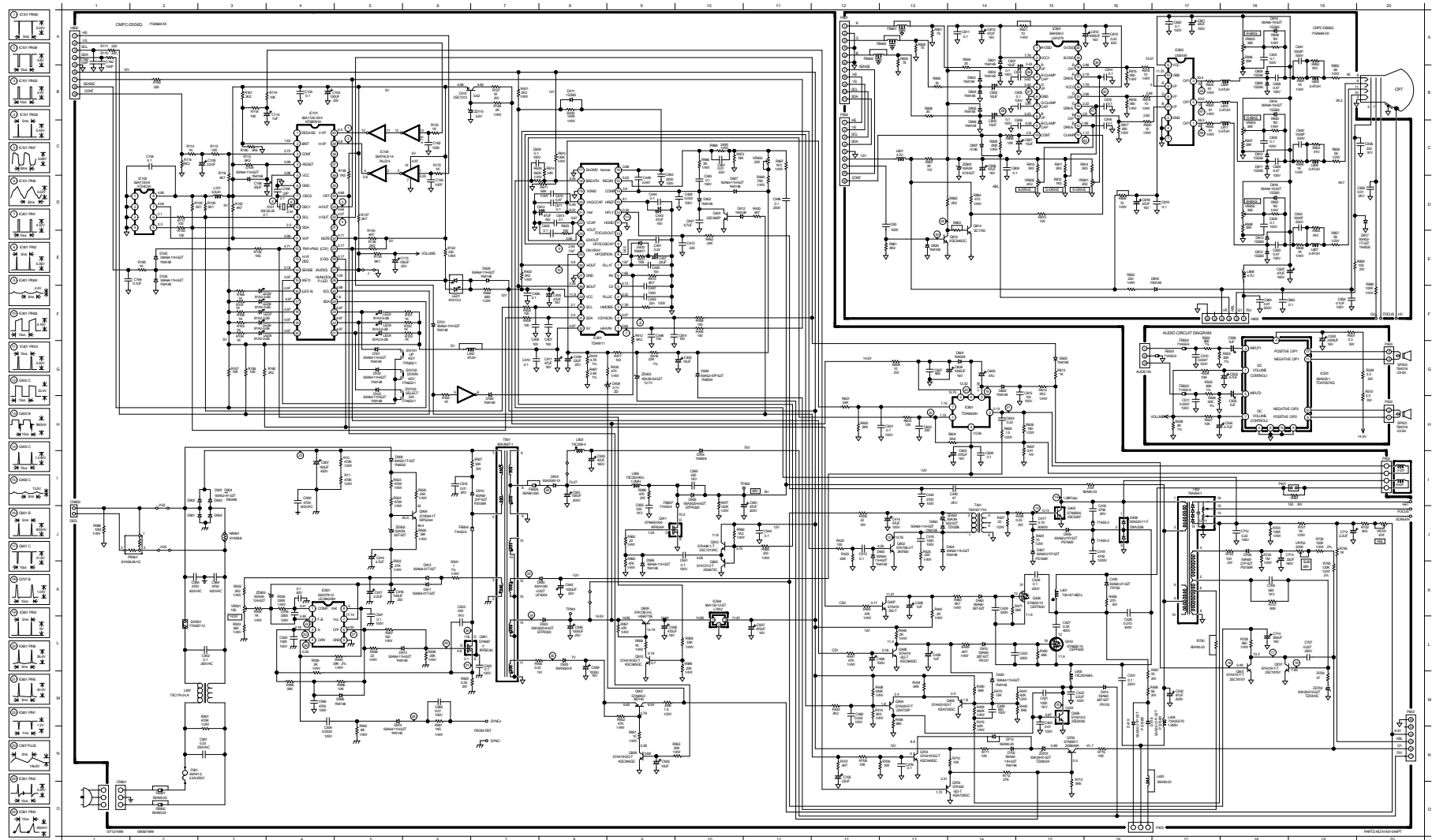
IC801 LM1279N



11 PCB LAYOUT

11-1 MAIN PCB LAYOUT





NOTE: This schematic, we can't guarantee the accuracy of this information, after the date of publication and disclaims liability for changes, errors or omissions.

| | | | |
|---------|-----------------------------|----------|--------|
| MODEL | MCM1545V (D556Q FOR SNI) | DRAWING | M.Y.KU |
| VERSION | A | CHECKED | |
| DATE | 12-21-99 | APPROVED | |

