DAEWOO

Service Manual

XGA COLOR MONITOR

Model : CMC-518B

DAEWOO ELECTRONICS CO., LTD.

OVERSEAS SERVICE DEPT.

Service Manual

DAEWOO ELECTRONICS CO., LTD.

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SAFETY PRECAUTIONS

CAUTION: No modifications of any circuit should be attempted. Service work should only be performed after you are thoroughly familiar with all of the following safety check and servicing guidelines.

Safety Check

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

Fire & Shock Hazard

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

Implosion Protection

Picture tube in this monitor employs integral implosion protection system, but care should be taken to avoid damage and scratching during installation.
Use only same type replacement picture tubes.

IMPORTANT SAFETY NOTICE : There are special components used in analog color display, which are important for safety. These parts are shaded on the schematic diagram and on the replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent X-radiation, shock, fire or other hazards. Do not modify the original design without getting a written permission from DAEWOO ELECTRONICS CO. or this will void the original parts and labor warranty.

X-Radiation

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

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

- To measure the high voltage, use a high-impedance high-voltage meter.
  Connect(-) to chassis and (+) to the CRT anode button.
- Turn the Contrast & Brightness control fully counterclockwise.
- Measure the high voltage. The high voltage meter should indicate the following factory recommended level.
- If the upper meter indication exceeds the maximum level, immediate service is required to prevent the possibility of premature component failure.
- To prevent X-Radiation possibility, it is essential to use the specified picture tube.
- The nominal high voltage is 25.5KV or below, and must not exceed 29KV at zero beam current at rated voltage.

GENERAL SAFETY INFORMATION

Terms in the manual

CAUTION Statements identify conditions or practices that could result in damage to the equipment or other property.

WARNING Statements identify conditions or practices that could result in personal injury or loss of life.

Terms as marked on equipment

CAUTION Statements indicate a personal injury hazard not immediately accessible as one reads the marking, or a hazard to properly including the equipment itself.

WARNING Statements indicate a personal injury hazard immediately accessible as one reads the marking

Symbols in the manual

This symbol indicates where applicable cautionary or other information is to be found.

Symbols as marked on equipment

Protective GROUND terminal

High Voltage Warning And Critical Component Warning Label

Following warning label is on the CRT PWB shield case inside the unit.

Warning : This product includes critical mechanical and electrical parts which are essential for X radiation safety. For continued safety, replace critical components indicated in the service manual only with exact replacement parts given in the parts list. Operating high voltage for this product is 25KV at minimum brightness. Refer to service manual for measurement procedures and proper service adjustments.

SERVICING PRECAUTIONS

CAUTION: Before servicing instruments covered by this service manual, its supplements and addenda, read and follow the SAFETY PRECAUTIONS of this manual.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 1 of this manual, always follow the safety precautions.
Remember: Safety First.

General Servicing Precautions

1. Always unplug the AC power cord from the AC power source before:
   a. Removing or reinstalling any component, circuit board, module, or any other instrument assembly.
   b. Disconnecting or reconnecting any electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the instrument.

   CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in a explosion hazard.

   d. Discharging the picture tube anode.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM. etc.) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".

3. Discharge the picture tube anode only by: (a) first connecting one end of an insulated clip lead to the degaussing or line grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touching the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.

4. Do not any spray chemicals on or near this instrument or any or its assemblies.

5. Unless specified otherwise in this service manual, clean electrical contacts by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable nonabrasive applicator: 10% (by volume) Aceton and 90% (by volume) isopropyl alcohol (90% - 99% strength).

   CAUTION: This is a flammable mixture. Unless specified otherwise in this service manual, lubrication of contacts is not required.

6. Do not defeat any plug/socket B+ voltage interlocks with which instruments covered by this service manual might be equipped.

7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid -state device heat sinks are correctly installed.

8. Always connect the test instrument ground lead to the appropriate instrument chassis ground before connecting the test instrument positive lead. Always remove the test instrument ground lead last.

9. Use only the test fixtures specified in this service manual with this instrument.

   CAUTION: Do not connect the test fixture ground strap to any heatsink in this instrument.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity.
Such components commonly are called Electrostatically Sensitive (ES) Devices.
The examples of typical ES devices are integrated circuits, some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device which should be removed for potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate enough electrical charges to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate enough electrical charges to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

> **CAUTION :** Be sure that no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmful motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate enough static electricity to damage an ES devices).

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron with appropriate tip size and shape that will maintain tip temperature within a 550¢ -600¢ (288¡ -316¡) range.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean.
4. Thoroughly clean the surface to be soldered. Use a small wire-bristle(0.5 inch or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following soldering technique:
   a. Allow the soldering iron tip to reach normal temperature (550¢ to 600¢ or 288¡ to 316¡)
   b. Hold the soldering iron tip and solder strand against the component lead until the solder melts.
   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

> **CAUTION:** Work quickly to avoid overheating the circuit board printed foil.

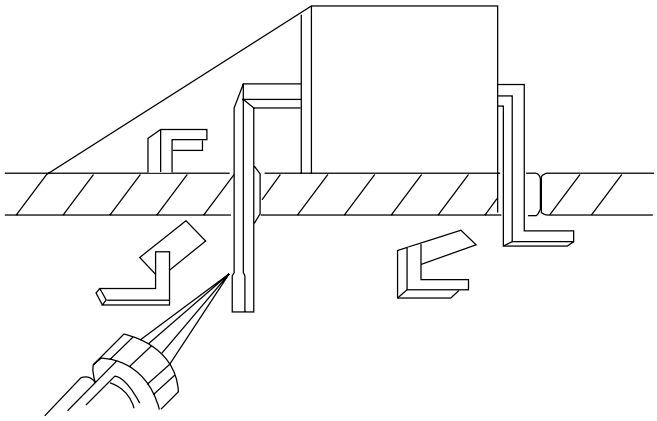


FIGURE 1. USE SOLDERING IRON TO PRY LEADS

IC Removal/Replacement

Some utilized chassis circuit boards have slotted (oblong) holes through which the IC leads are inserted and then bent flat against the circuit foil. When holes are slotted, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 on the page under the title of general soldering guidelines.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with desoldering braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the area).

"Small-Signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend the end of each of three leads remaining on the circuit board into a "U" shape.
3. Bend the replacement transistor leads into a "U" shape.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal-to-metal contact, then solder each connection.

Power IC, Transistor or Devices Removal/Replacement

1. Heat and remove all solders from the device leads.
2. Remove the heatsink mounting screw(if applicable).
3. Carefully remove the device from the circuit board.
4. Insert new device in circuit board.
5. Solder each device lead, and clip off excess lead.
6. Replace heatsink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicularly to the circuit board.
3. Observing diode polarity, wrap each lead out of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect the solder joints of the two "original" leads on the circuit board copper side. If they are not shiny, reheat them and apply additional solder if necessary.

TECHNICAL INFORMATION

Electrical

CRT dot pitch	0.28mm dot pitch
Horizontal frequency	30KHz to 69KHz (Automatically)
Vertical frequency	50Hz to 120Hz (Automatically)
Operating temperature	10-40¡ /50-104¢
Operating humidity	8-80%

Mechanical

Cabinet	Molded Plastic Cabinet with detachable tilt & swivel base
Dimension (set with stand)	381.5(H)¡ ¿368(W)¡ ¿394(D) mm
Weight (net)	14.2 Kg
Controls	Power Switch

OSD Key

Contrast
Brightness
Horizontal Position
Horizontal Size
Vertical Position
Vertical Size,
Pincushion
Trapezoid
Parallegram
Pin Corner
Pin Balance
R Gain, G Gain, B Gain
Color Temp
Recall
Degauss
Moire
System Spec
Tilt (Optional)

GENERAL INFORMATION

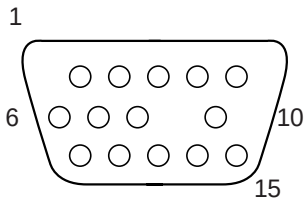
This color monitor automatically scans all horizontal frequencies from 30KHz to 64KHz, and all vertical frequencies from 50Hz to 120Hz. This color monitor adopted the OSD (On Screen Display), it shows the sync polarity and frequency and it provides that easily adjust control. This color monitor supports IBM PC, PC/XT, PC/AT, personal System/2 (PS/2), Apple Macintosh, and compatible users crisp text and vivid color graphics diaplay when using the following graphics adapters : (VGA, 8514/A, Supper VGA, VESA and XGA and Apple Macintosh Video Card). And so, this color monitor has a maximum horizontal resolution of 1280 dots and a maximum vertical resolution of 1024 lines for superior clarity of display.
By accepting analog signal inputs which level is zero to 0.7 Volts. This color monitor can display an unlimited palette of colors depending on the graphics adapter and software being used.

Abbreviations

ADJ	Adjustment
AFC	Automatic Frequency Control
CRT	Cathode Ray Tube
Def	Deflection
D.Y	Deflection Yoke
FBT	Flyback Transformer
H.SYNC	Horizontal Synchronization
OSC	Oscillator
P.S.U	Power Supply Unit
PWA	Printed Circuit Board Wiring Assembly
R.G.B	Red, Green, Blue
V.Sync	Vertical Synchronization

PIN CONNECTOR

Pin	Signal
1	Red
2	Green
3	Blue
4	GND
5	GND(Self-Test)
6	GND-Red
7	GND-Green
8	GND-Blue
-	No Pin
10	GND-H.Sync
11	GND
12	Bi-directional Data (SDA)
13	Horizontal Sync
14	Vertical Sync (VCLK)
15	Data clock (SCL)



Arrangement of 15-pin D-sub connector

CAUTIONS FOR ADJUSTMENT AND REPAIR

- Degaussing is always required when adjusting purity or convergence.
- The white balance adjustment has been done by a color analyzer in factroy. The adjustment procedure, described in the service manual is made by a visual check.
- Allow 20 minutes warm-up time for the display before checking or adjusting only electrical specification or function.
- Reform the leadwire after any repair work.

Caution For Servicing

- In case of servicing or replacing CRT, high voltage sometimes remains in the anode of the CRT. Completely discharge high voltage before servicing or replacing CRT to prevent a shock to the serviceman.

ALIGNMENT PROCEDURE

Standard Adjustment Conditions

1. Power source voltage : 90~264Vac 50/60Hz
2. Aging : Take at least 20 minutes warm-up time.
3. Signals
   Video : Analog 0.7Vpp 75Ω terminal positive polarity
   Synchronizing : TTL level Negative/Positive Separate/Composite
   Deflection frequency
   Horizontal Frequency : 30 KHz - 69KHz
   Vertical Frequency : 50Hz - 120Hz

Pre-Adjustment

1. B+ Adjustment
   Adjust 145.5Vdc ¡ 0.5Vdc between TP1 and ground at 69KHz mode, varying VR104.

Main Adjustment

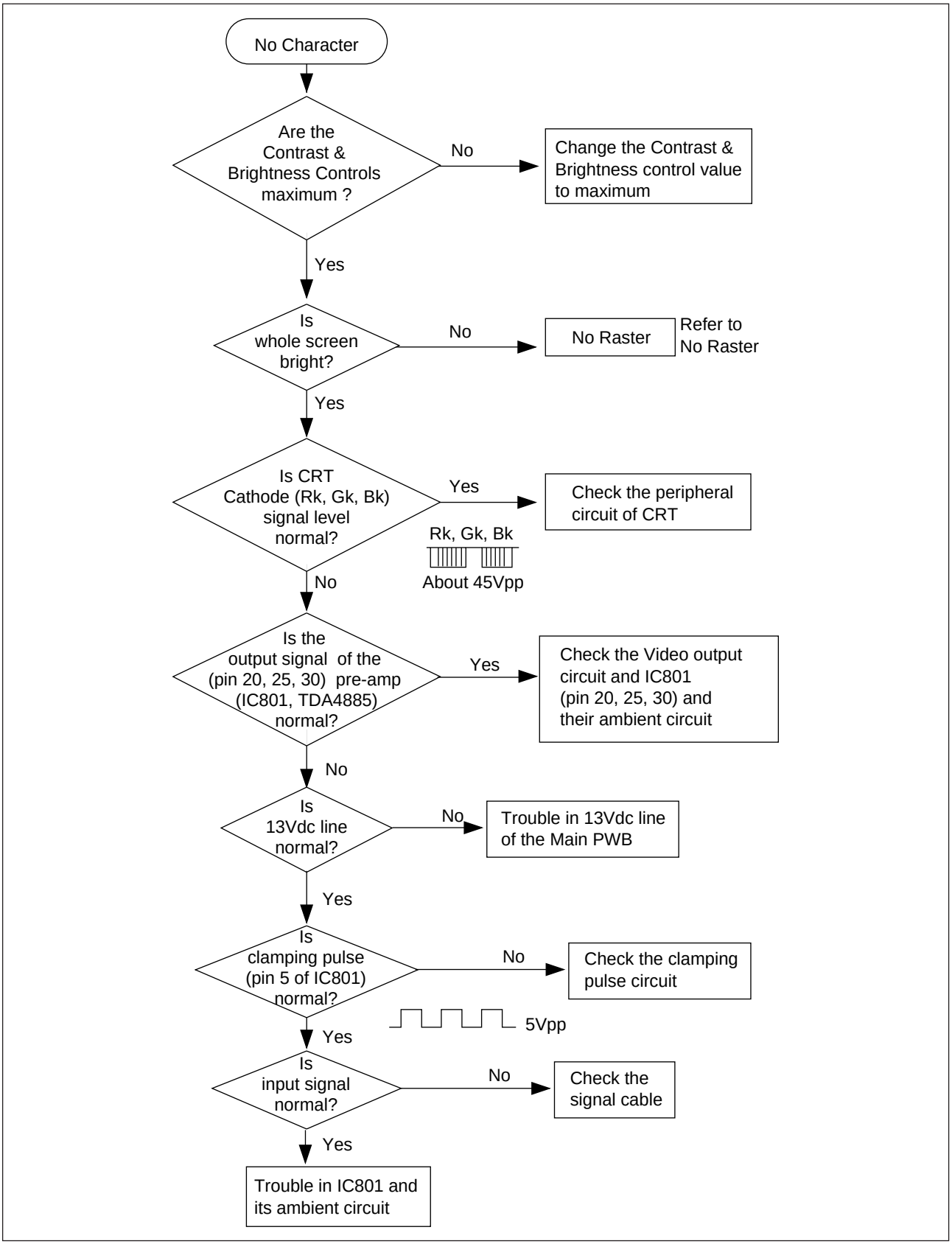
1. Setting the Controls
   Set the value of items as following.
   Contrast : Max. (OSD value up to MAX)
   Brightness : Center (Set the OSD value to center)
2. H.size, V.size, H.phase, V.position, Pincushion, Trapezoid
   Receive the cross hatch pattern of Factory preset mode.
   H.Size, V.size, H.phase, V.position, Pincushion, Trapezoid are adjusted at each mode.
   In Factory, Auto Alignment was done at each mode. Therefore, Factory preset mode has it's own value according to each control.
3. Focus
   (a) Set brightness control to center and contrast control to MAX.
   (b) Receive all "H" character pattern of 69KHz mode signal.
   (c) Adjust the Focus control of FBT to obtain best Focus (static focus and Dynamic focus).
4. Geometric Distortion Adjustment.
   (a) Receive the cross hatch pattern of 69KHz mode signal.
   (b) Pin balance, Pin center, Pin corner, Parallelogram are adjusted the best geometric status.
5. White Balance Adjustment
   (a) Select 9300 ¡K on the OSD Menu.
   (b) Receive a cross hatch pattern of 60KHz mode signal by using the signal generator.
   (c) Set the brightness control to the center, the contrast control to the maximum and sub contrast control VR to the center.
   (d) Cut off the FBT screen VR.
   (e) Set the brightness control to the maximum and receive all the black patterms.
   (f) Select the R-BIAS, G-BIAS and B-BIAS on the OSD menu and adjust the DATA +/- key to get the color coordinates in x=0.281, y=0.311.
   (g) Receive al full white pattern.
   (h) Select the R-GAIN, G-GAIN and B-GAIN and adjust Data +/- key to get the color coordinates in x=0.281 ¡ 0.05, y=0.311 ¡ 0.05
   (i) Set the brightness control to the center and adjust the sub contrast control to get the screen luminosity to 30t/L(a full white pattern over 30Ft/l).
   (j) Check if the x,y coordinates of color analyzer is in X=0.281 ¡ 0.05, Y=0.311 ¡ 0.05.
   If the color coordinates is out of range, adjust the R. G. B BIAS & GAIN to get the coorinates in X=0.281, Y=0.311. Make sure that the coordinates is in range by using contrast control.

(k) Select 6550 ¡K on the OSD Menu and set the color coordinates in X=0.313, Y=0.329 at the maximum contrast control and center brightness control.
(l) Check if the a full white pattern is over 30Ft/L. If you satisfied with the result, readjust the internal sub contrast VR.

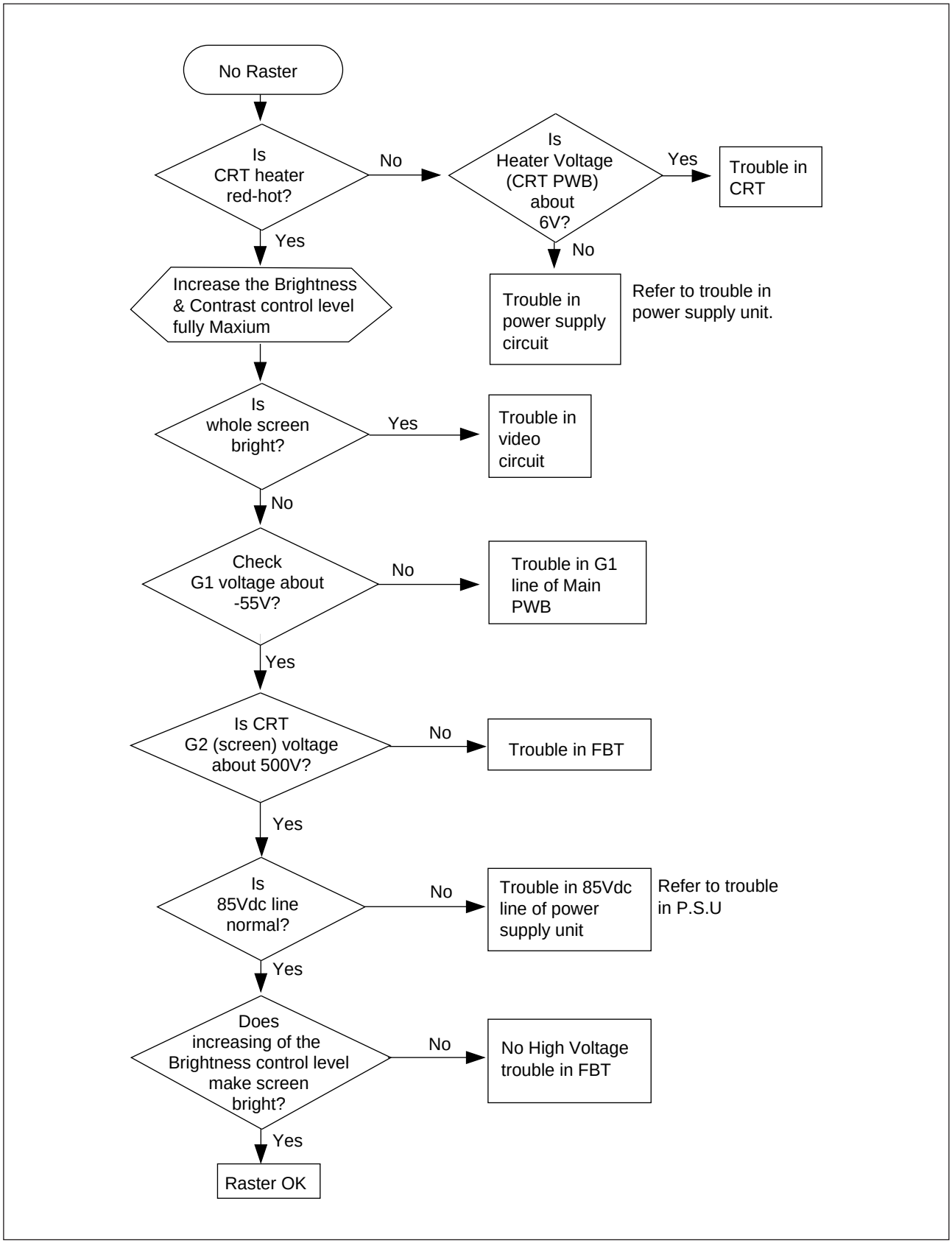
6. Static Convergence Adjustment
(a) Apply a magenta cross hatch pattern on display
(b) Adjust the focus from the best over all focus on the display.
Also adjust the brightness to the desired condition
(c) Vertical red and blue lines are converged by varying the angle between the two tabs of the 4-pole magnets.
(d) Horizontal red and blue lines are converged by varing the tabs together, keeping the angle between them constant.
(e) Apply a white cross hatch pattern on display.
(f) Vertical green and magenta lines are converged by varing the the angle between the two tabs of the 6-pole magnets.
(g) Horizontal green and magenta lines are converged by varing the tabs together, keeping the angle between them constant.

TROUBLESHOOTING HINTS

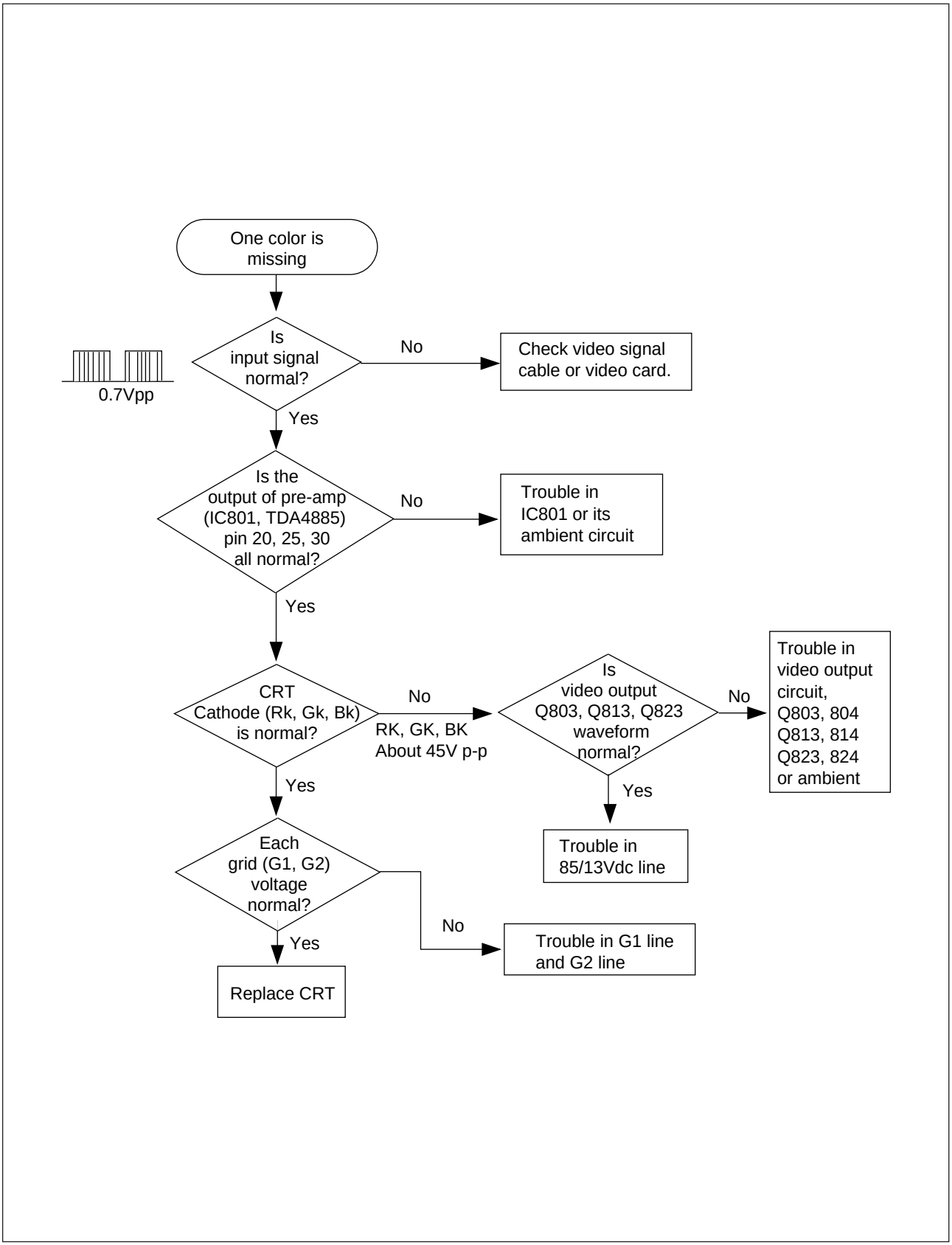
1. No Character



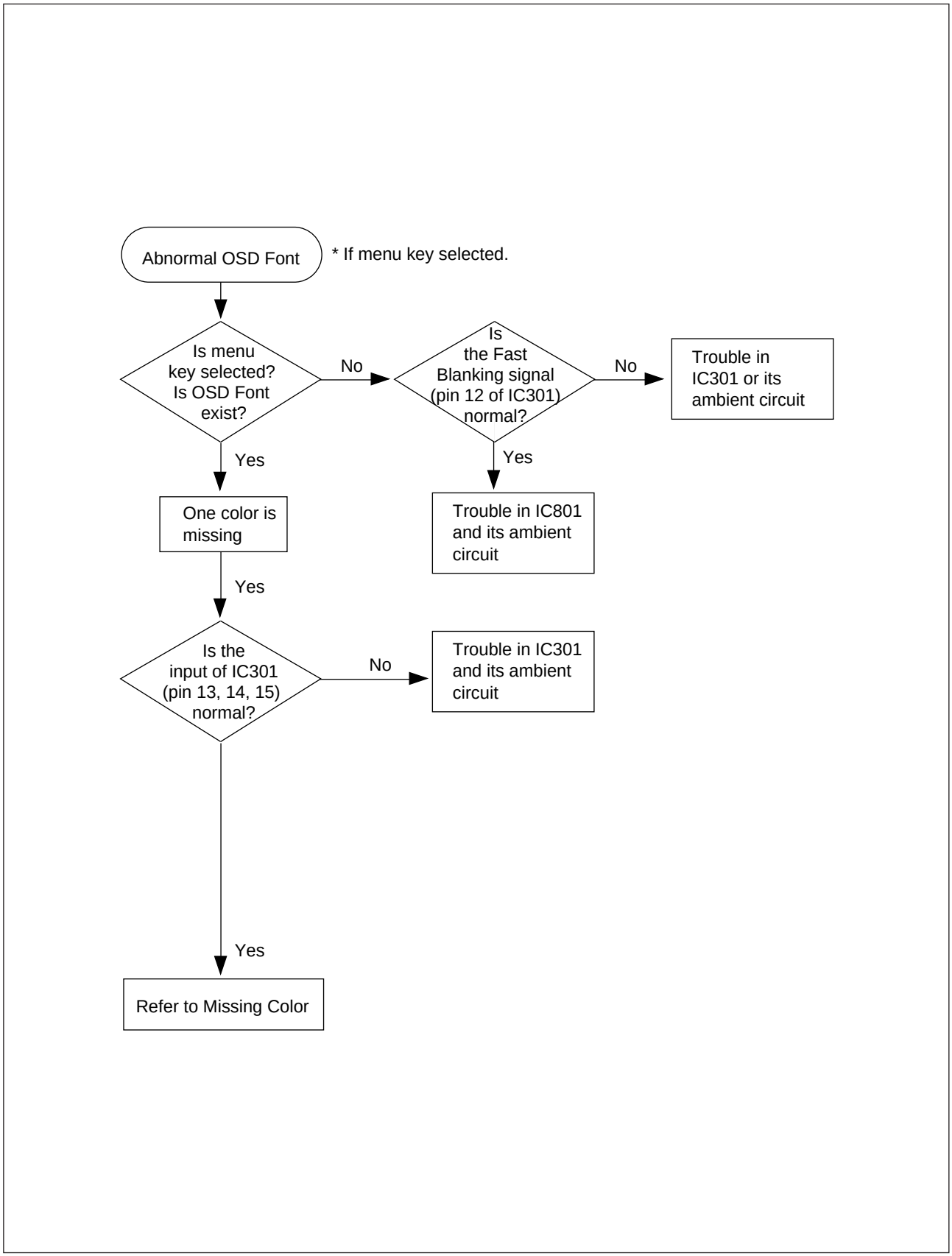
2. No Raster


No Raster
Is CRT heater red-hot?
No
Is Heater Voltage (CRT PWB) about 6V?
Yes
Trouble in CRT
No
Trouble in power supply circuit
Refer to trouble in power supply unit.
Yes
Increase the Brightness & Contrast control level fully Maxium
Is whole screen bright?
Yes
Trouble in video circuit
No
Check G1 voltage about -55V?
No
Trouble in G1 line of Main PWB
Yes
Is CRT G2 (screen) voltage about 500V?
No
Trouble in FBT
Yes
Is 85Vdc line normal?
No
Trouble in 85Vdc line of power supply unit
Refer to trouble in P.S.U
Yes
Does increasing of the Brightness control level make screen bright?
No
No High Voltage trouble in FBT
Yes
Raster OK

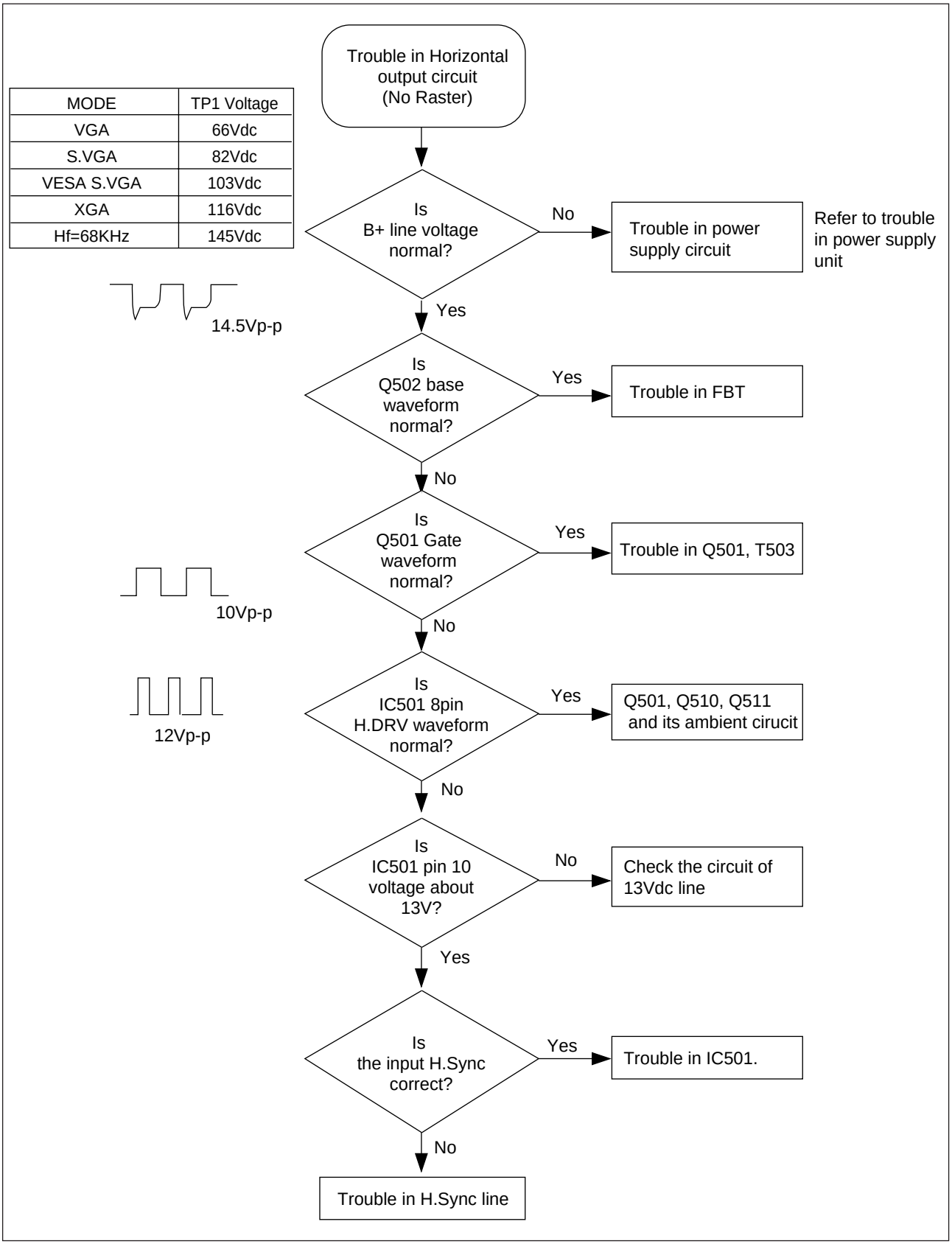
3. A Missing Color



4. Abnormal OSD Font

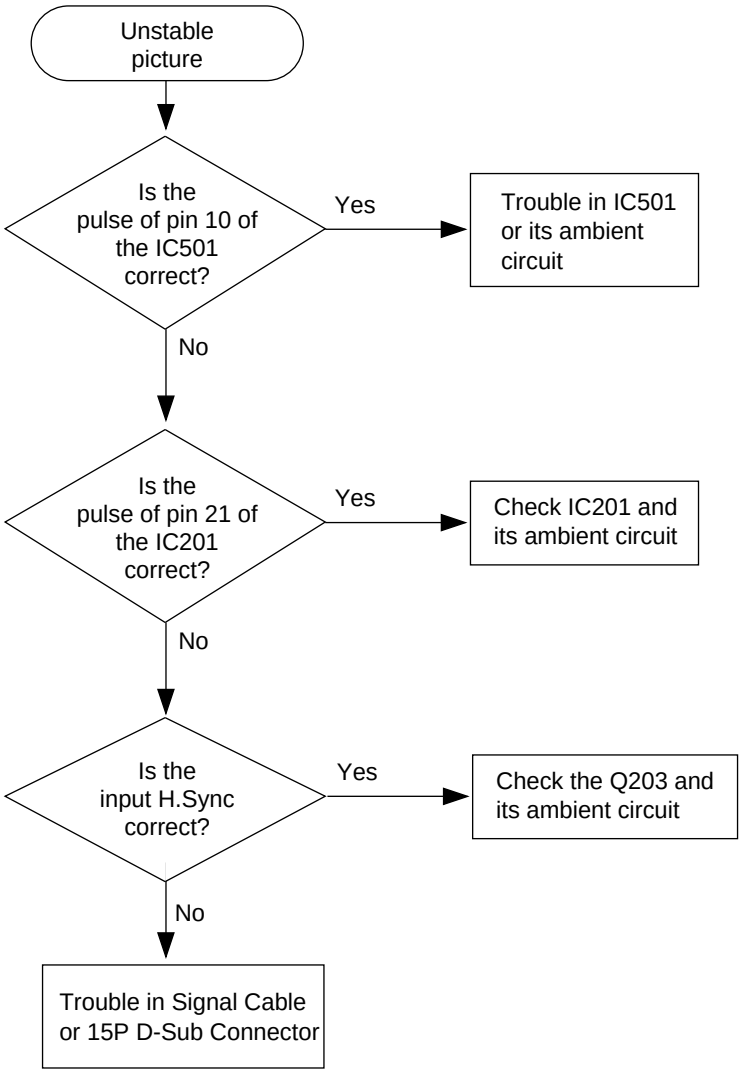


5. Horizontal Output Circuit

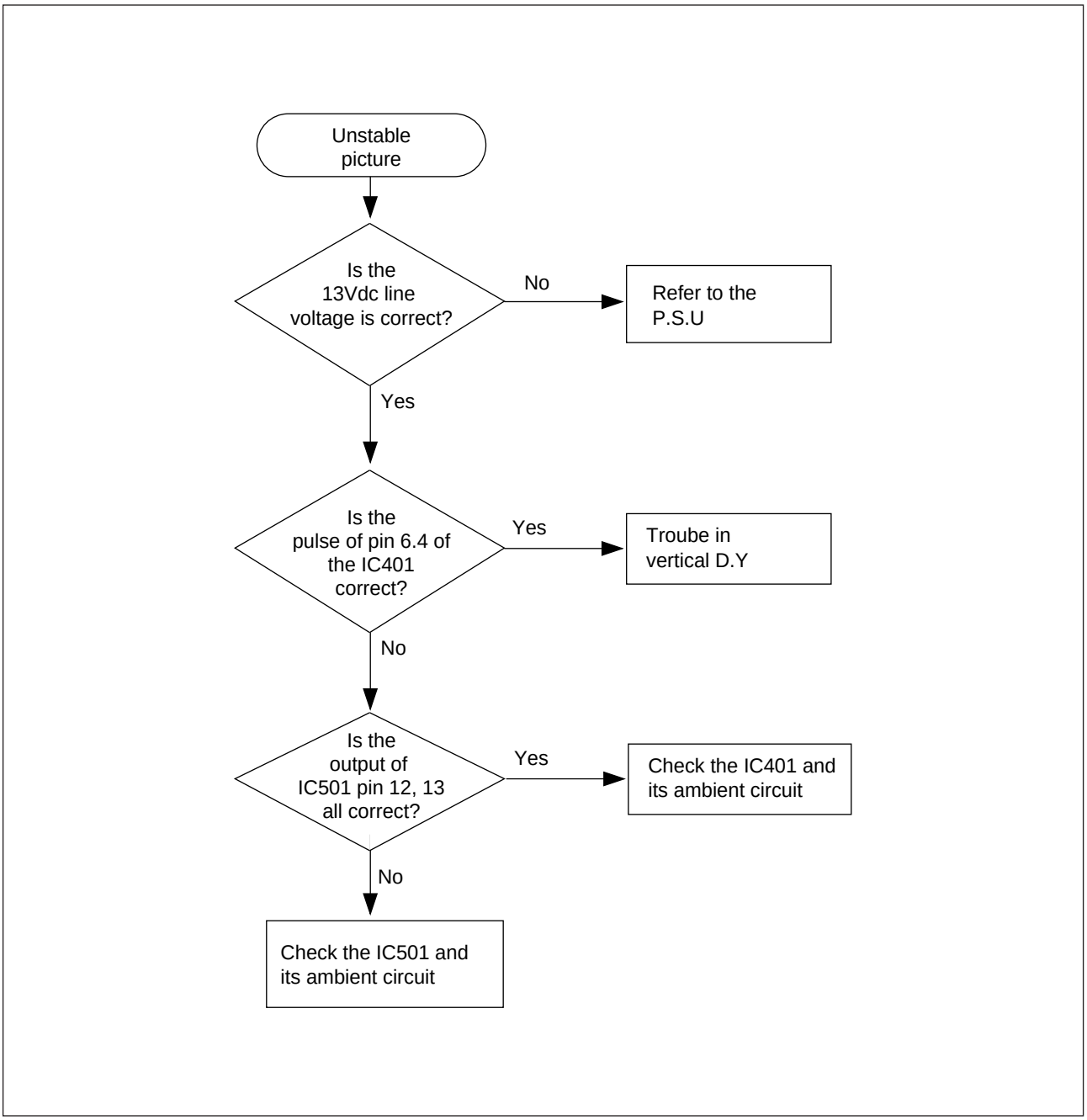


6. Unstable Picture

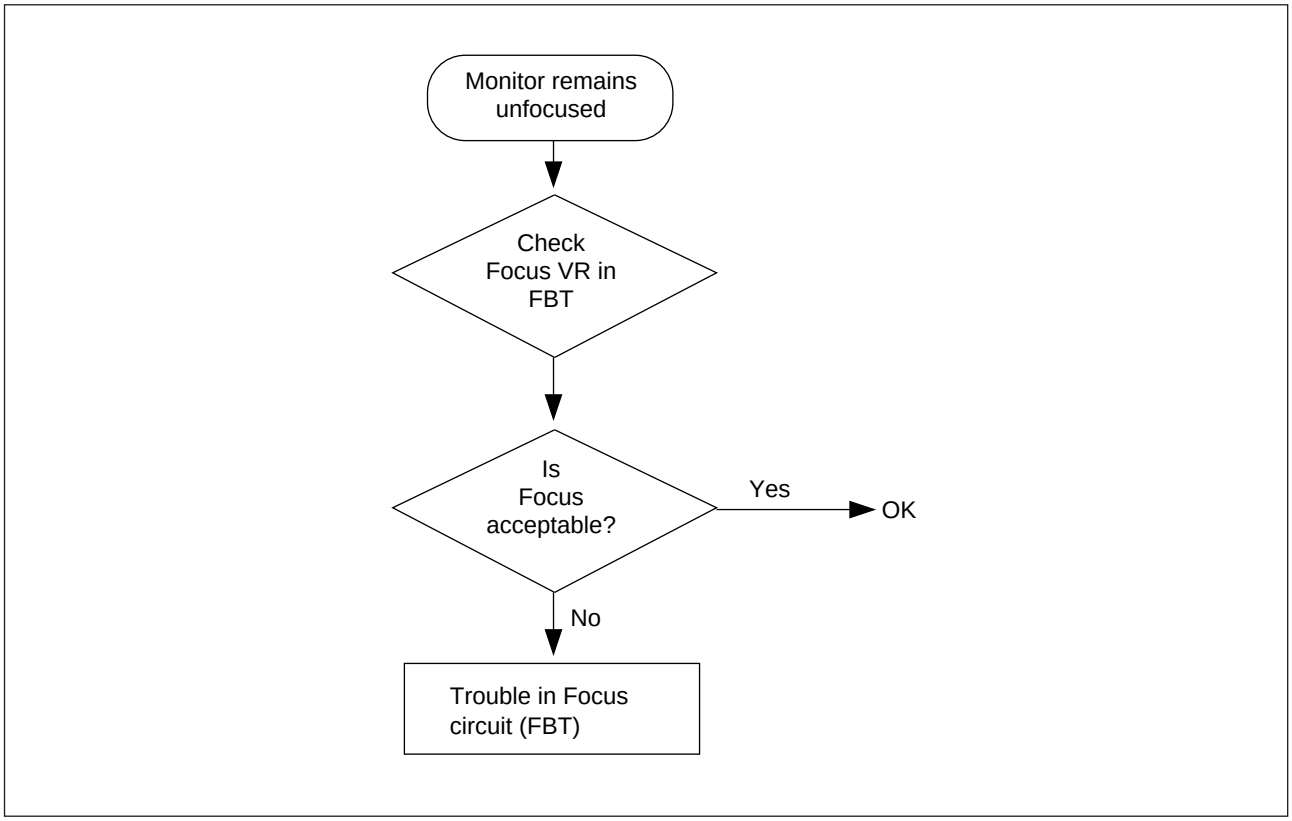
6.1 Horizontal



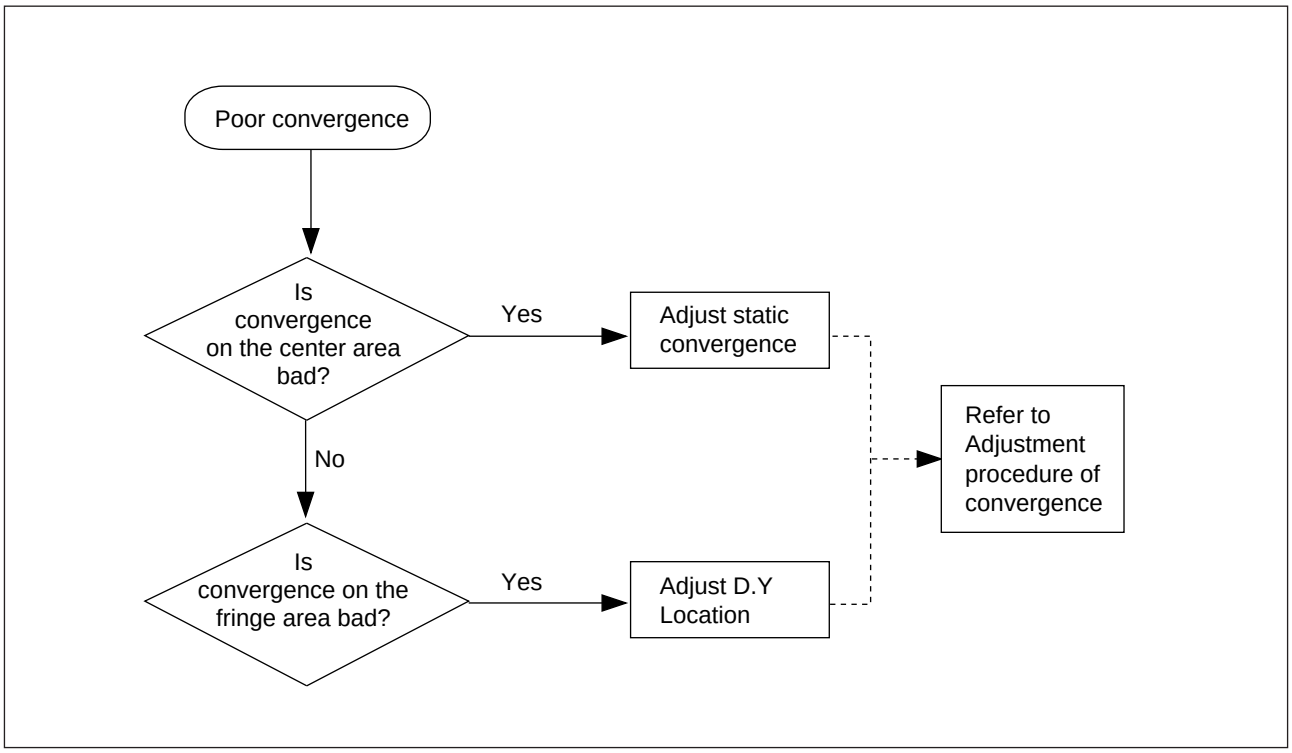
6-2.Vertical


Unstable picture
Is the 13Vdc line voltage is correct?
No
Refer to the P.S.U
Yes
Is the pulse of pin 6.4 of the IC401 correct?
Yes
Troube in vertical D.Y
No
Is the output of IC501 pin 12, 13 all correct?
Yes
Check the IC401 and its ambient circuit
No
Check the IC501 and its ambient circuit

7. Focus


Monitor remains unfocused
Check Focus VR in FBT
Is Focus acceptable?
Yes
OK
No
Trouble in Focus circuit (FBT)

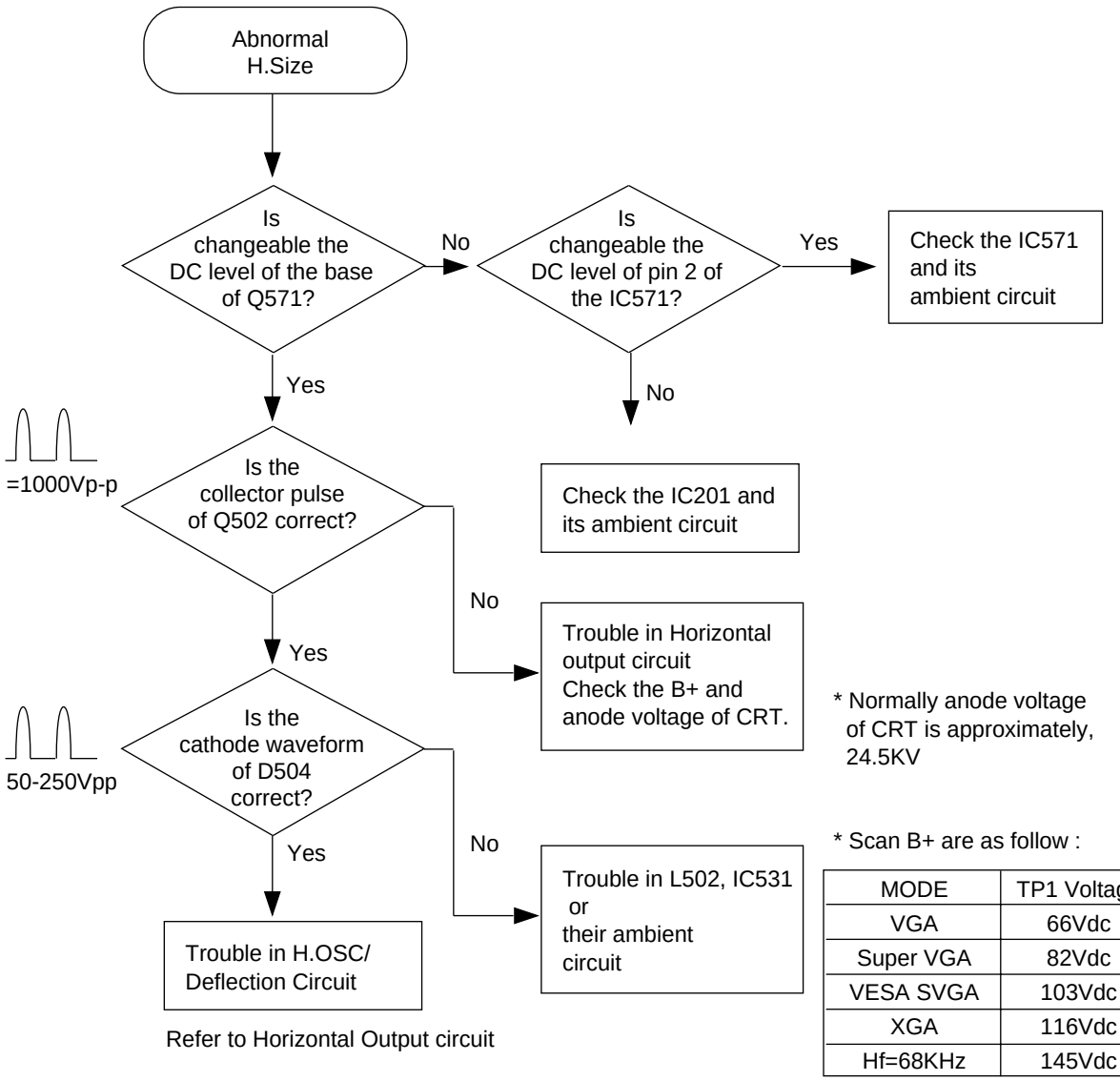
8. Convergence



9. Abnormal Picture

9.1 Horizontal Size

* At first, adjust controls in the OSD Menu

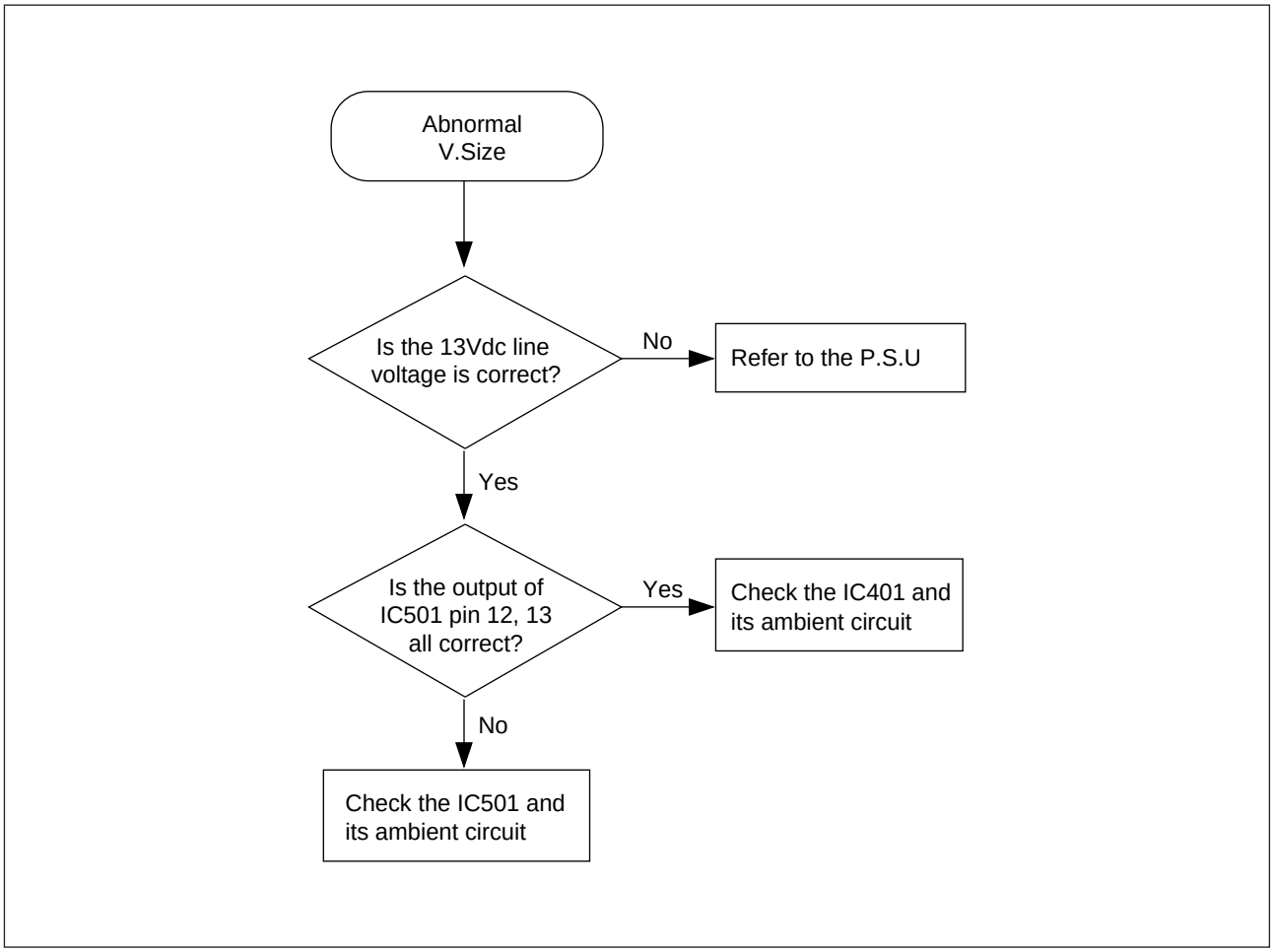


* Normally anode voltage of CRT is approximately, 24.5KV

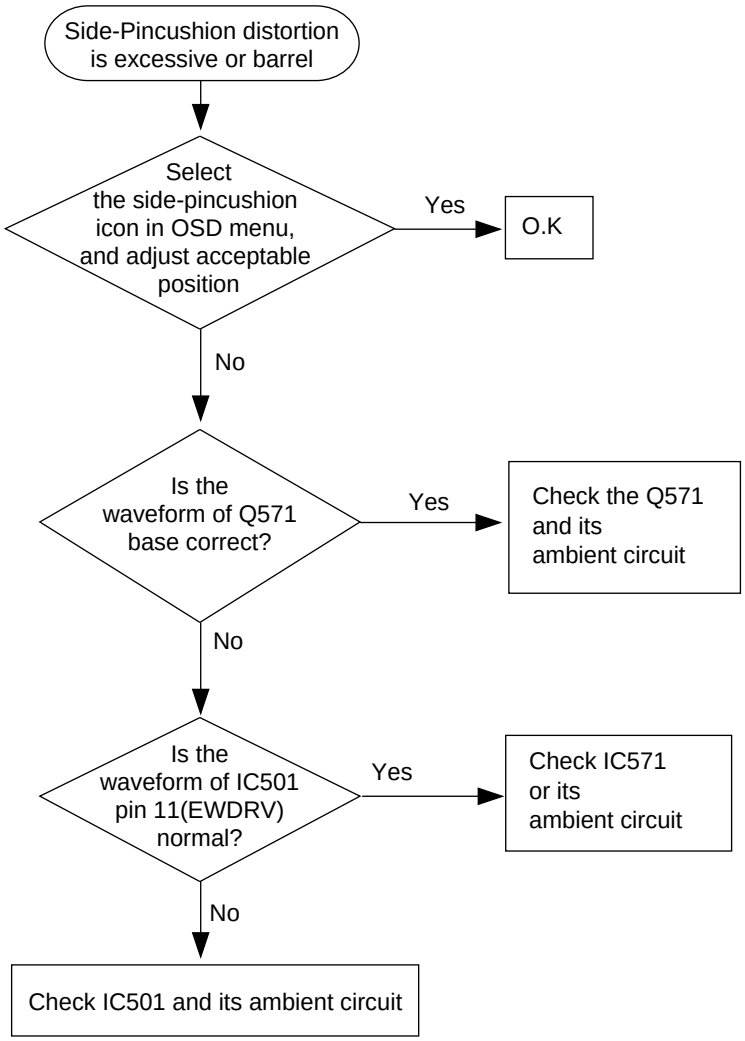
* Scan B+ are as follow :

MODE	TP1 Voltage
VGA	66Vdc
Super VGA	82Vdc
VESA SVGA	103Vdc
XGA	116Vdc
Hf=68KHz	145Vdc

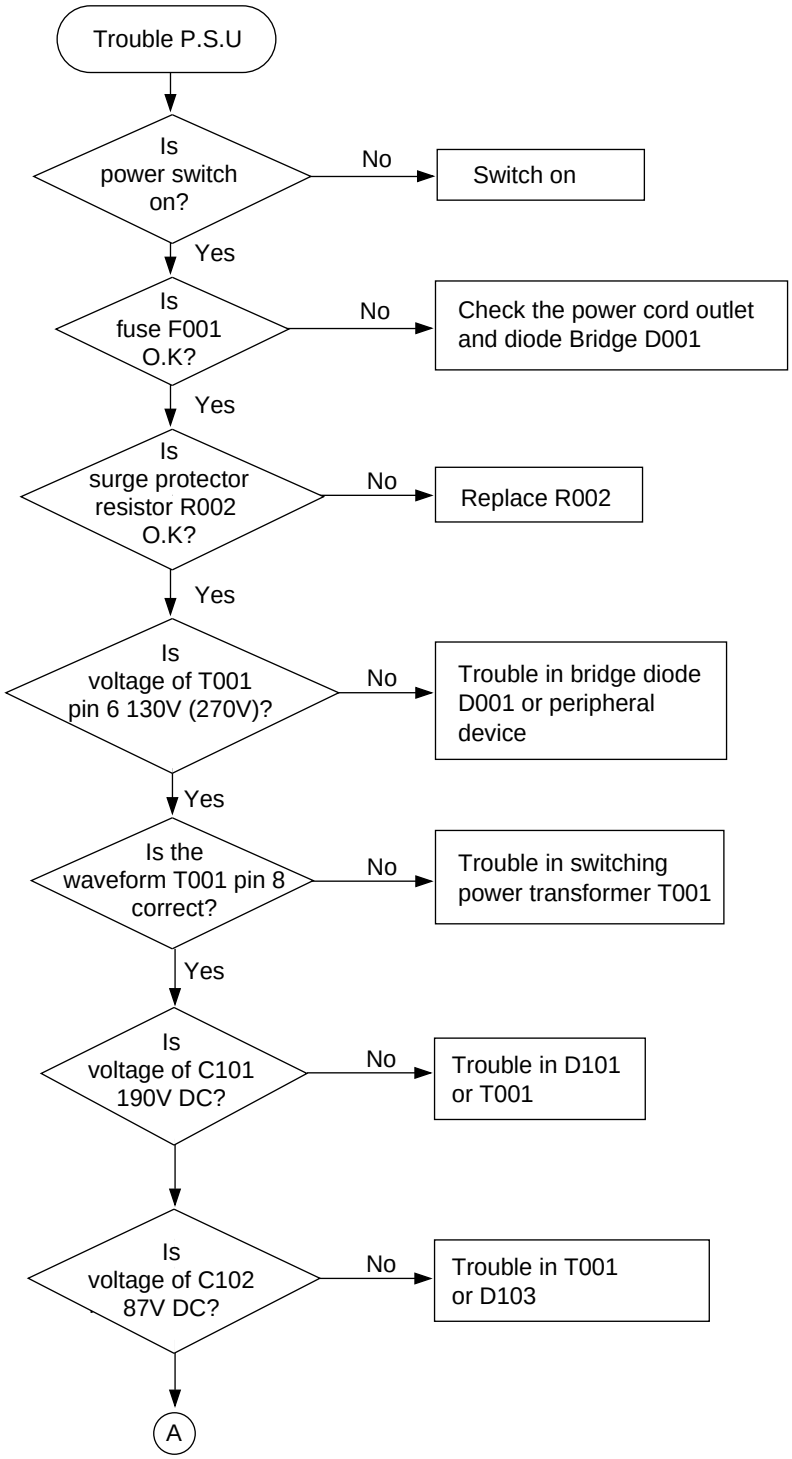
9.2 Vertical Size

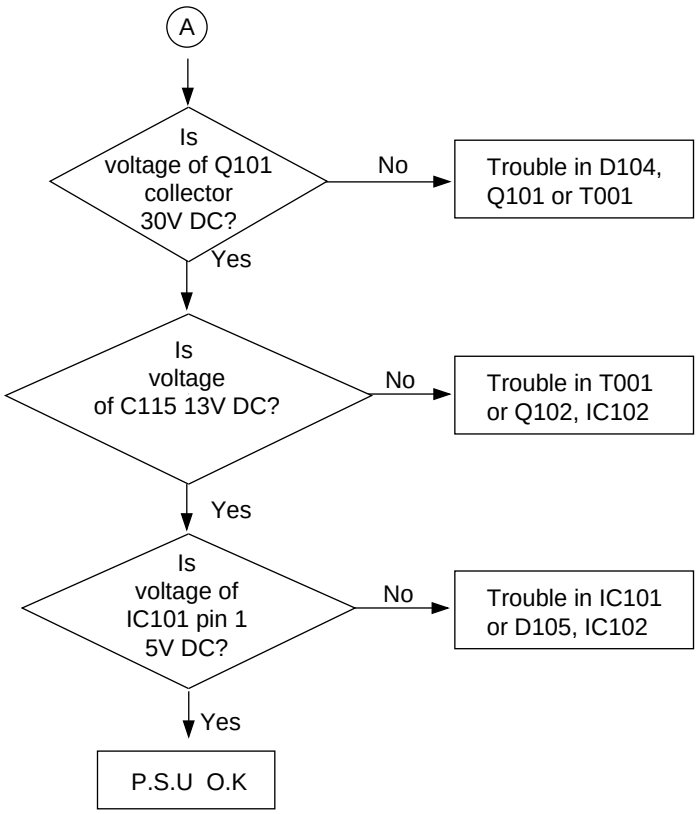


10. Side-Pincushion Circuit

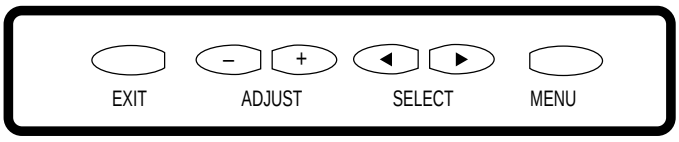


11. Power Supply Unit (P.S.U)




A
Is
voltage of Q101
collector
30V DC?
No
Trouble in D104,
Q101 or T001
Yes
Is
voltage
of C115 13V DC?
No
Trouble in T001
or Q102, IC102
Yes
Is
voltage of
IC101 pin 1
5V DC?
No
Trouble in IC101
or D105, IC102
Yes
P.S.U O.K

OPERATION & ADJUSTMENT



MENU : Launch OSD(On-Screen Display) Menus

▶ : Select the next function

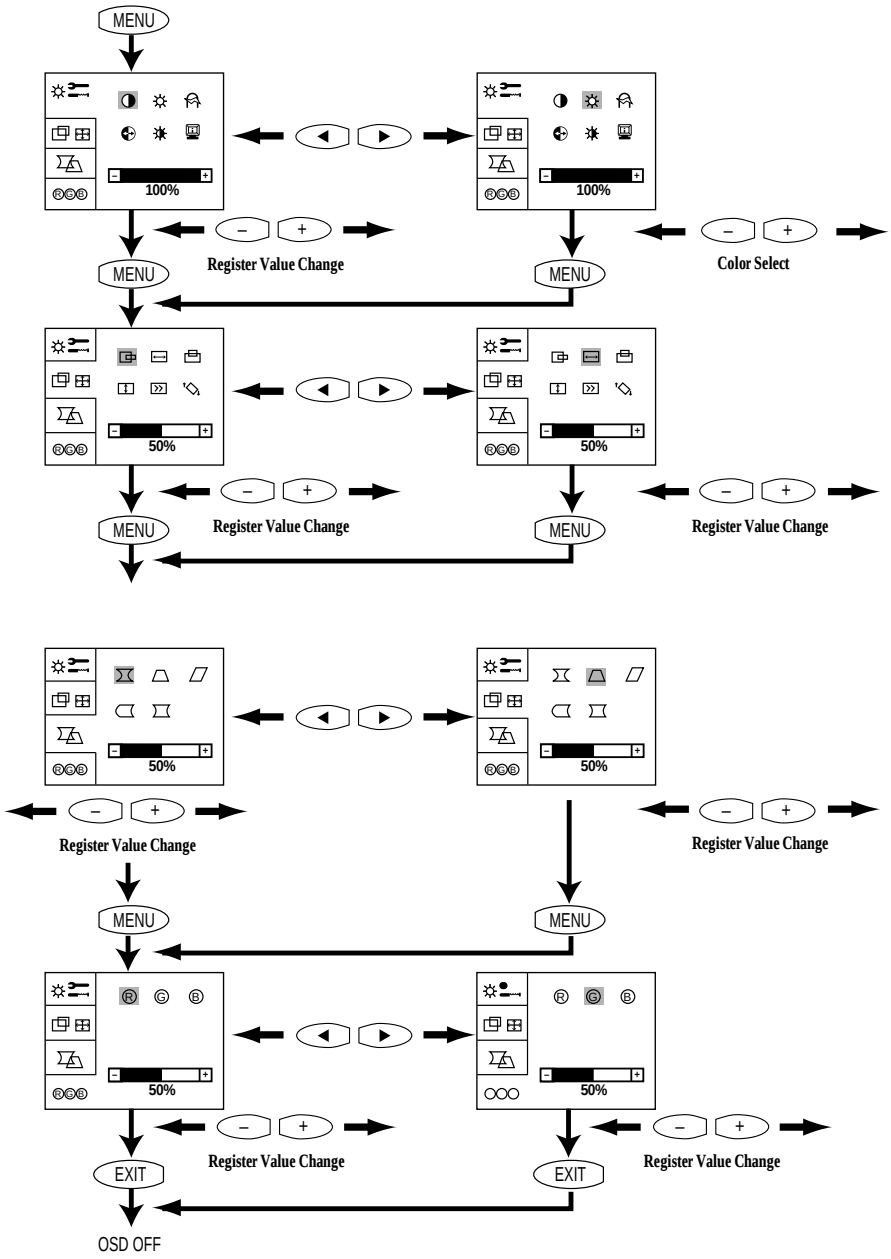
◀ : Select the previous function

\+ : Increase the value of any selected function

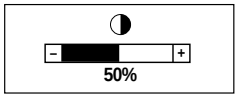
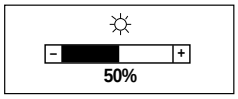
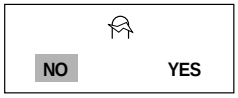
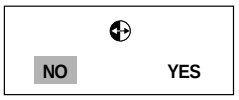
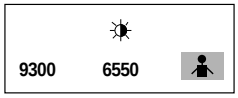
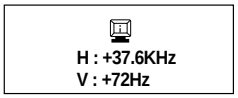
– : Decrease the value of any selected function

EXIT : Exit OSD Menus & Launch OSD Menus, when no OSD

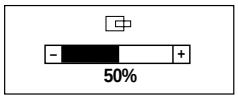
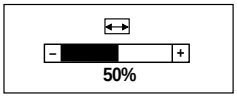
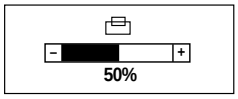
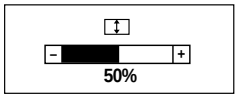
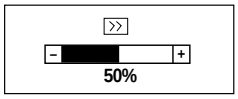
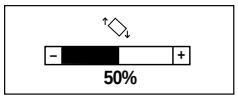
Key Process



1. OSD(On-Screen Display) Menu 1

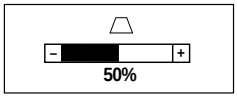
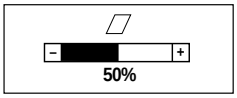
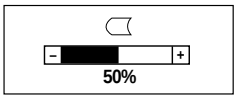
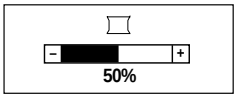
 CONTRAST	Adjust the contrast of image, the difference between light and dark areas on the screen. Range : 0 - 100%
 BRIGHTNESS	Adjust the brightness of the entire display.
 DEGAUSS	Degauss the display and restore image quality.
 RECALL	Reset the screen to the Factory Preset Display Settings.
 COLOR TEMPERATURE	Choose different preset color temperatures or set your own customized color parameters.
 SYSTEM SPEC	Display horizontal & vertical frequency and polarity.

2. OSD(On-Screen Display) Menu 2

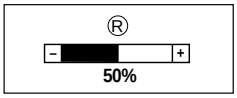
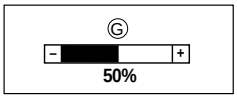
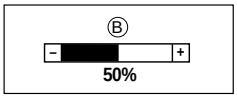
 HORIZONTAL POSITION	Adjust the position of the display horizontally (left or right).
 HORIZONTAL SIZE	Adjust the display width (horizontal size).
 VERTICAL POSITION	Adjust the position of the display vertically (up or down).
 VERTICAL SIZE	Adjust the display height (vertical size).
 MOIRE	Eliminate a moire pattern looking like a series of concentric circles or arcs. • Image turns to by + . • Image turns to by − .
 TILT	Adjust the rotation when the screen is tilted left or right. (Optional) • Image turns to by + . • Image turns to by − .

While adjusting moire, the display might look vague, so adjust moire at best-fitted condition.

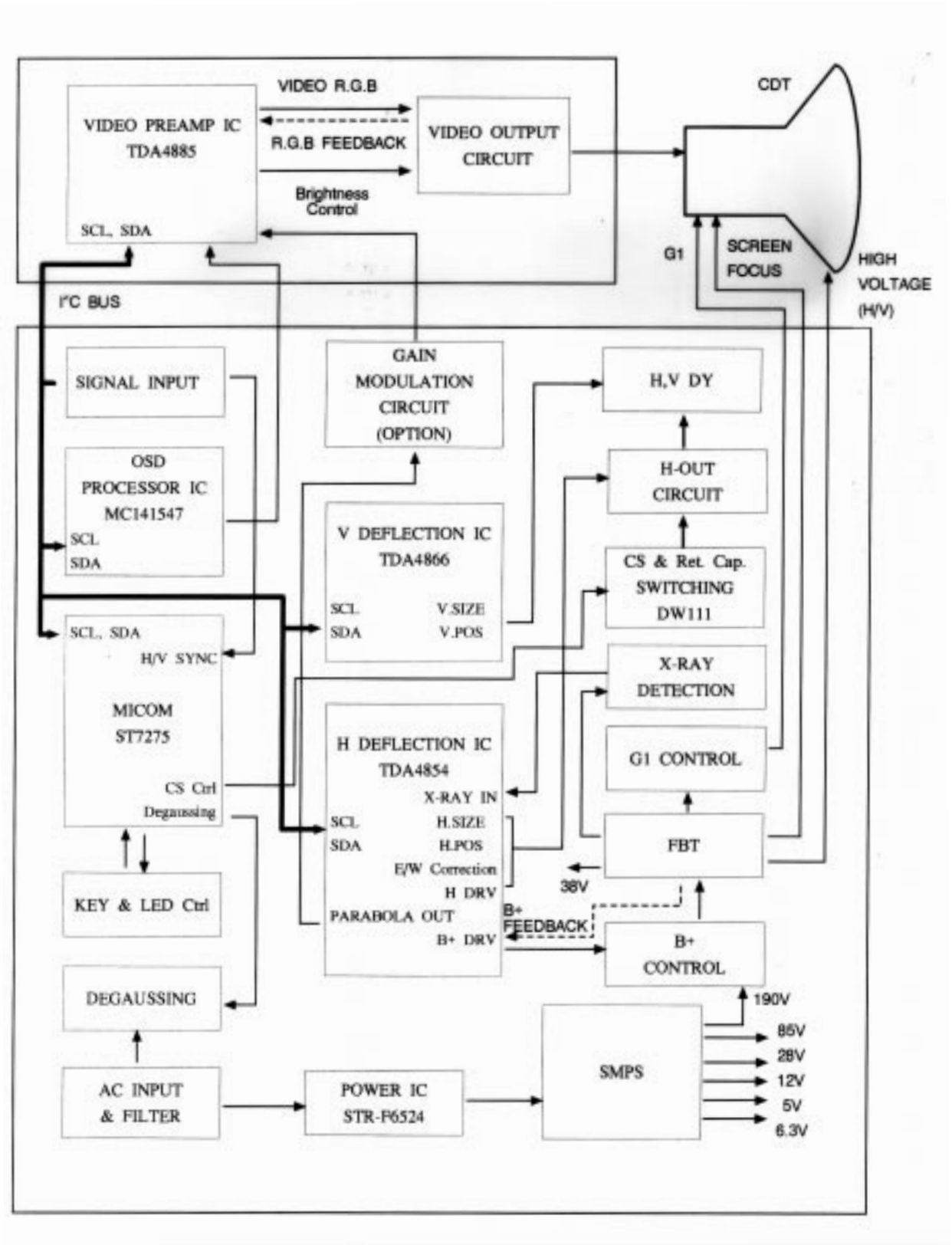
3. OSD(On-Screen Display) Menu 3

 PINCUSHION	Adjust the left and right margins for more convex or more concave margins. ƒUmage turns to ▢ by (+). ƒUmage turns to ⌶ by (–).
 TRAPEZOID	Adjust the trapezoid of the screen by moving the lines inward or outward. ƒUmage turns to ⏢ by (+). ƒUmage turns to ⏢ by (–).
 PARALLELOGRAM	Adjust parallelogram when the screen is leaning left or right. ƒUmage turns to ▱ by (+). ƒUmage turns to ▱ by (–).
 SIDE BALANCE	Adjust the side Balance when the sides of the screen are bowed towards left or right. ƒUmage turns to ⊂ by (+). ƒUmage turns to ⊃ by (–).
 CORNER PINCUSHION	Adjust the left and right margins of the each corner. ƒUmage turns to ⌶ by (+). ƒUmage turns to ▢ by (–).

4. OSD(On-Screen Display) Menu 4

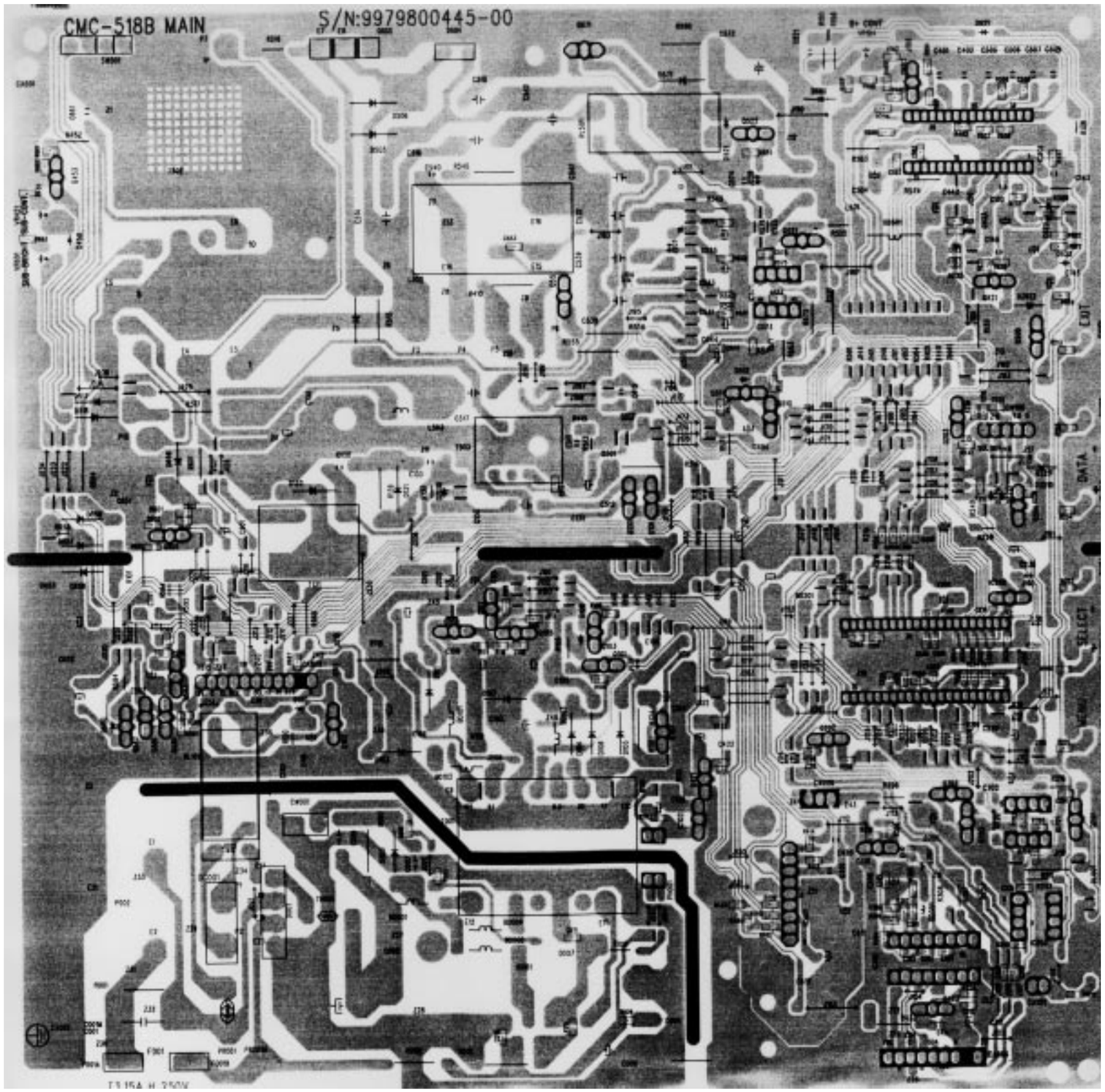
 RED GAIN	Adjust the red gain.
 GREEN GAIN	Adjust the green gain.
 BLUE GAIN	Adjust the blue gain.

BLOCK DIAGRAM

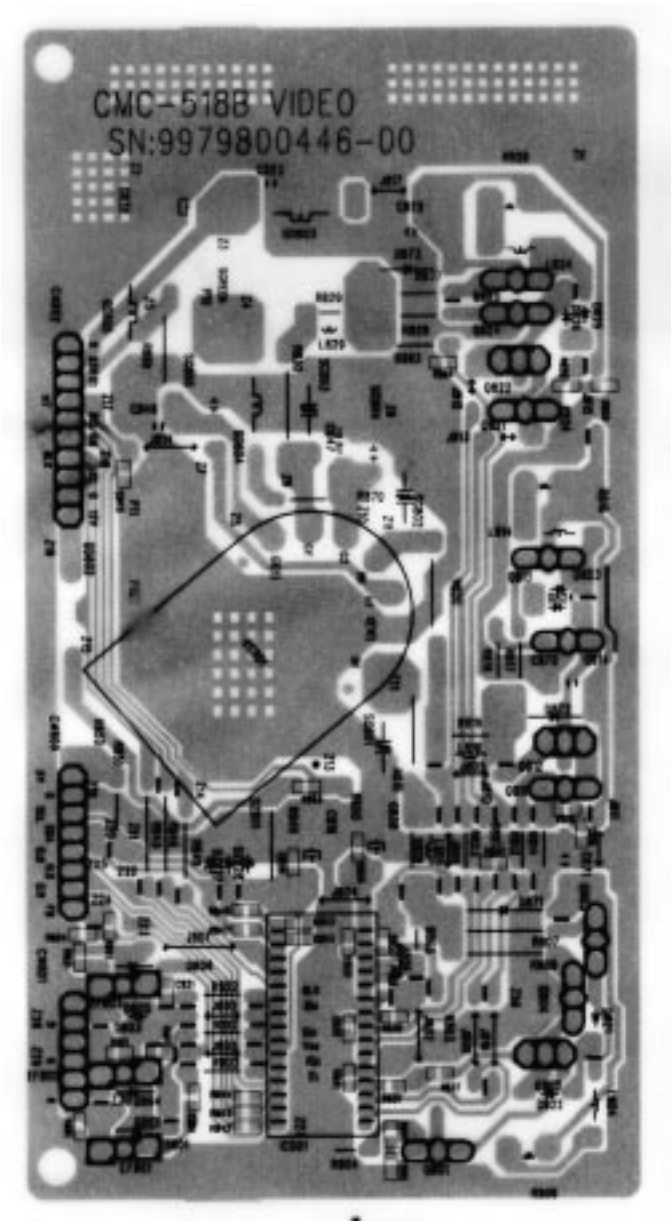


PCB LAYOUT

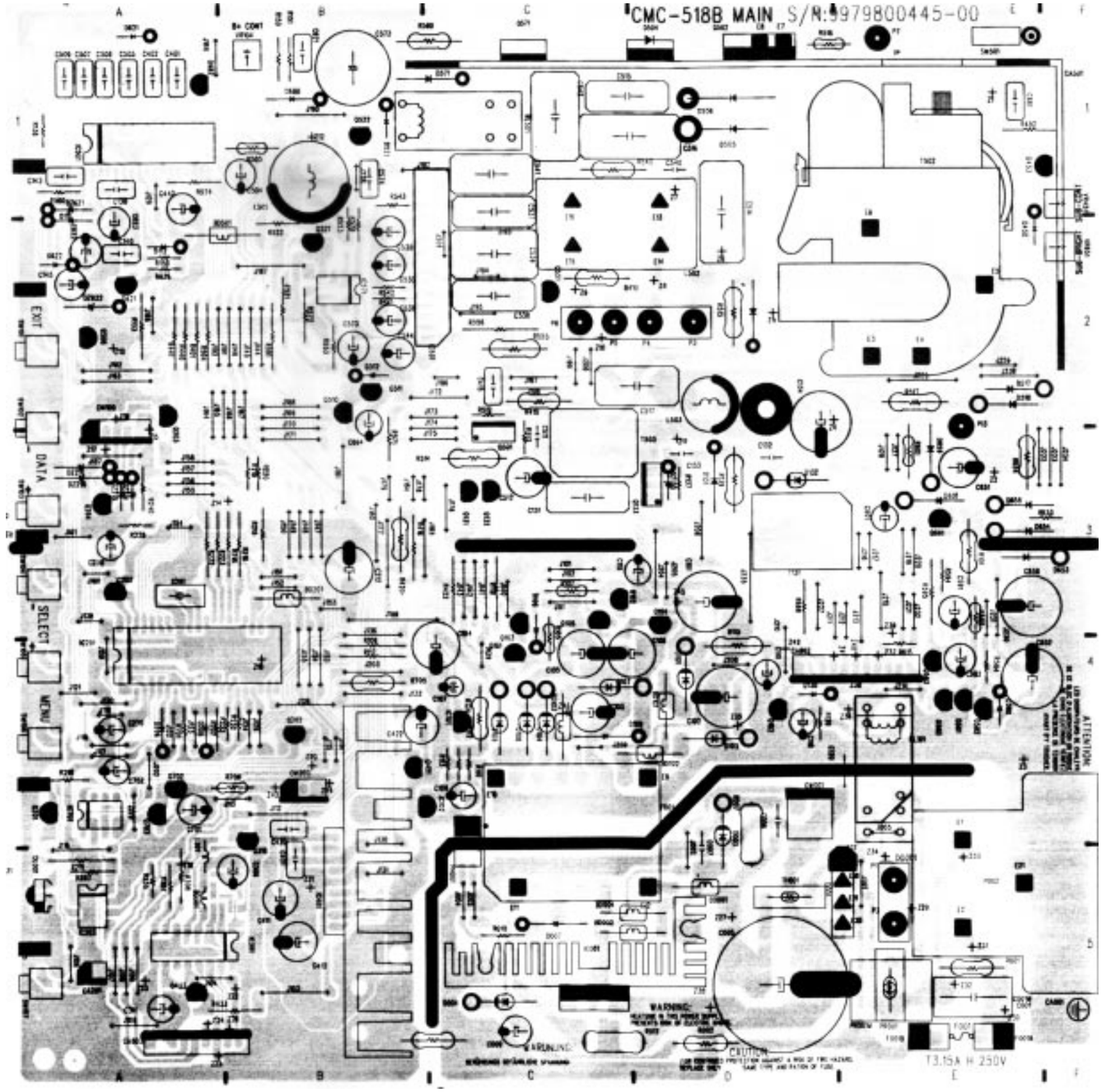
Main PCB Solder Side



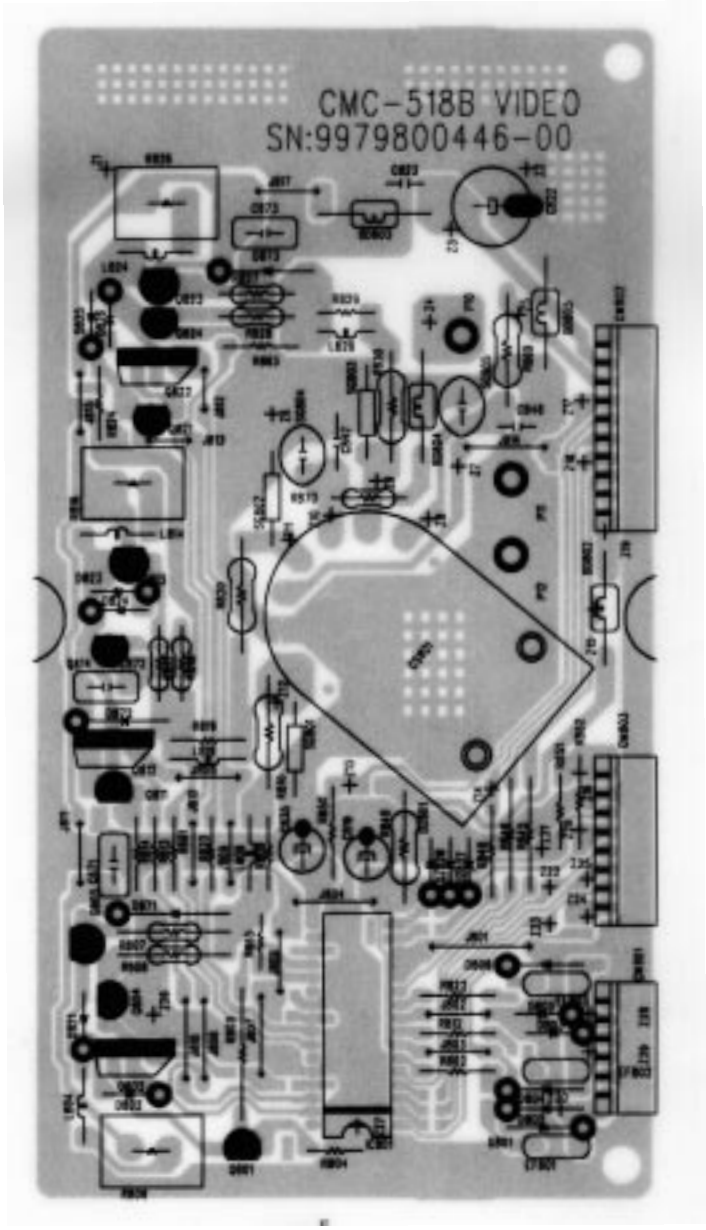
Video PCB Solder Side



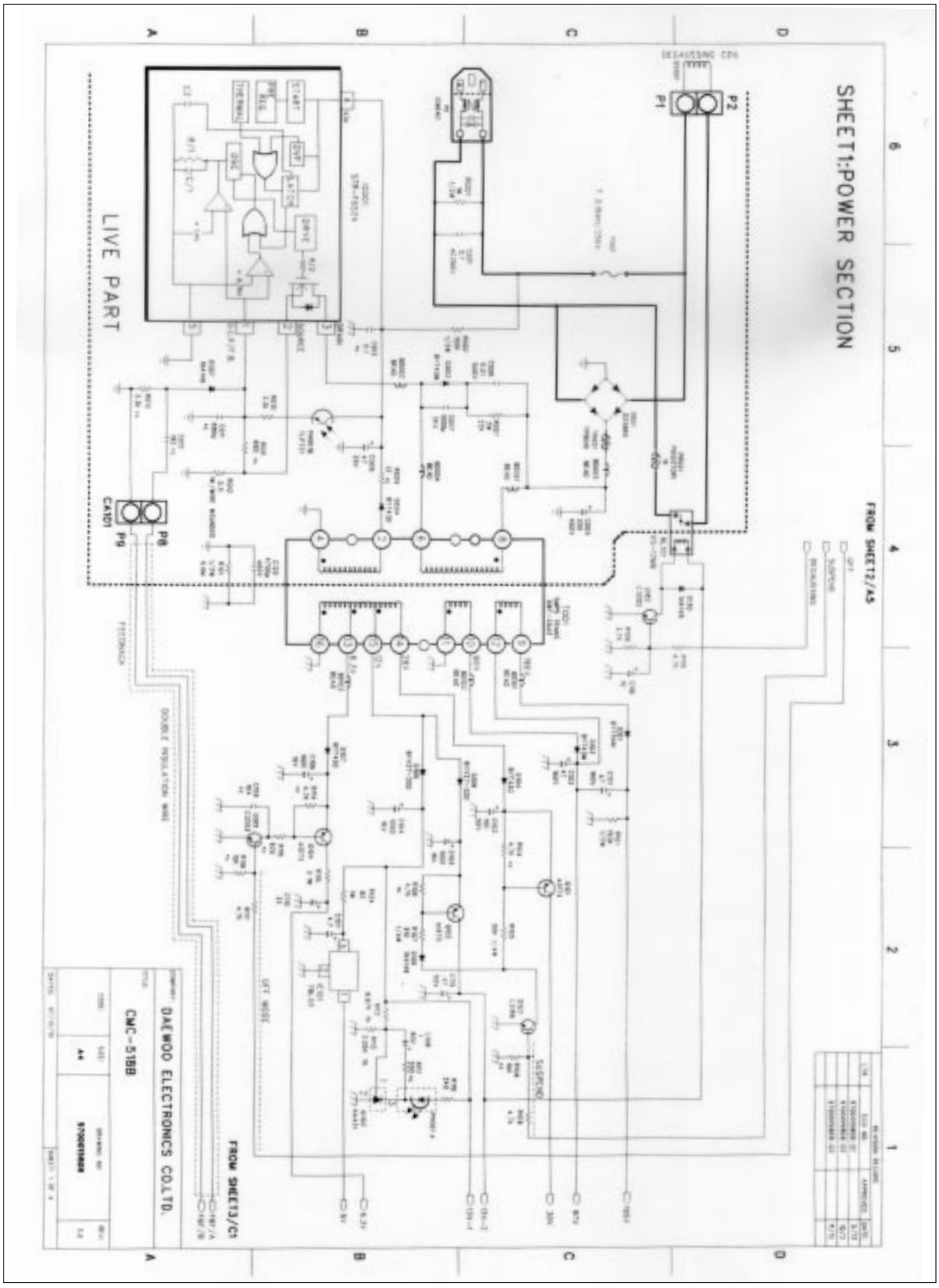
Main PCB Component Side

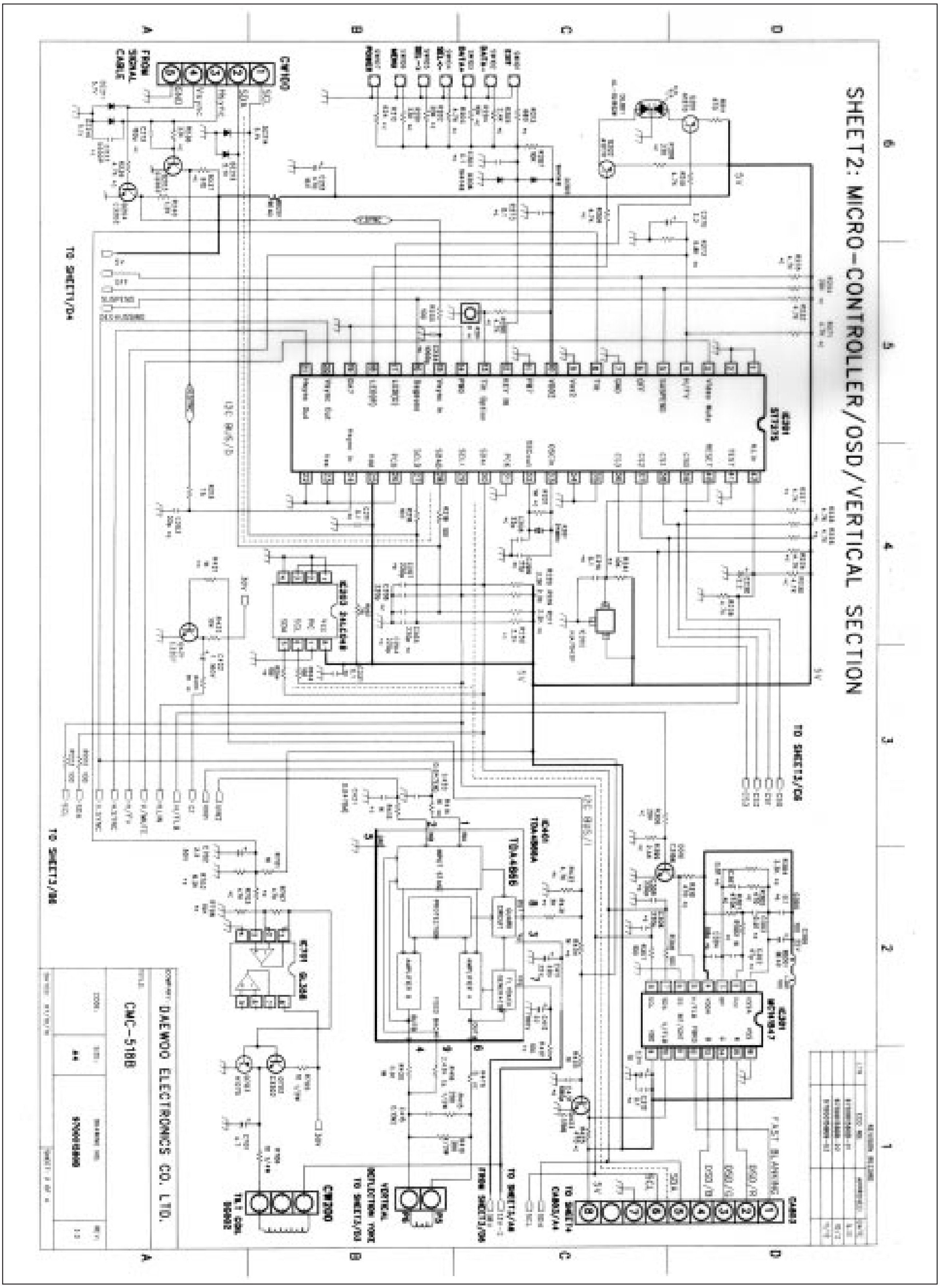


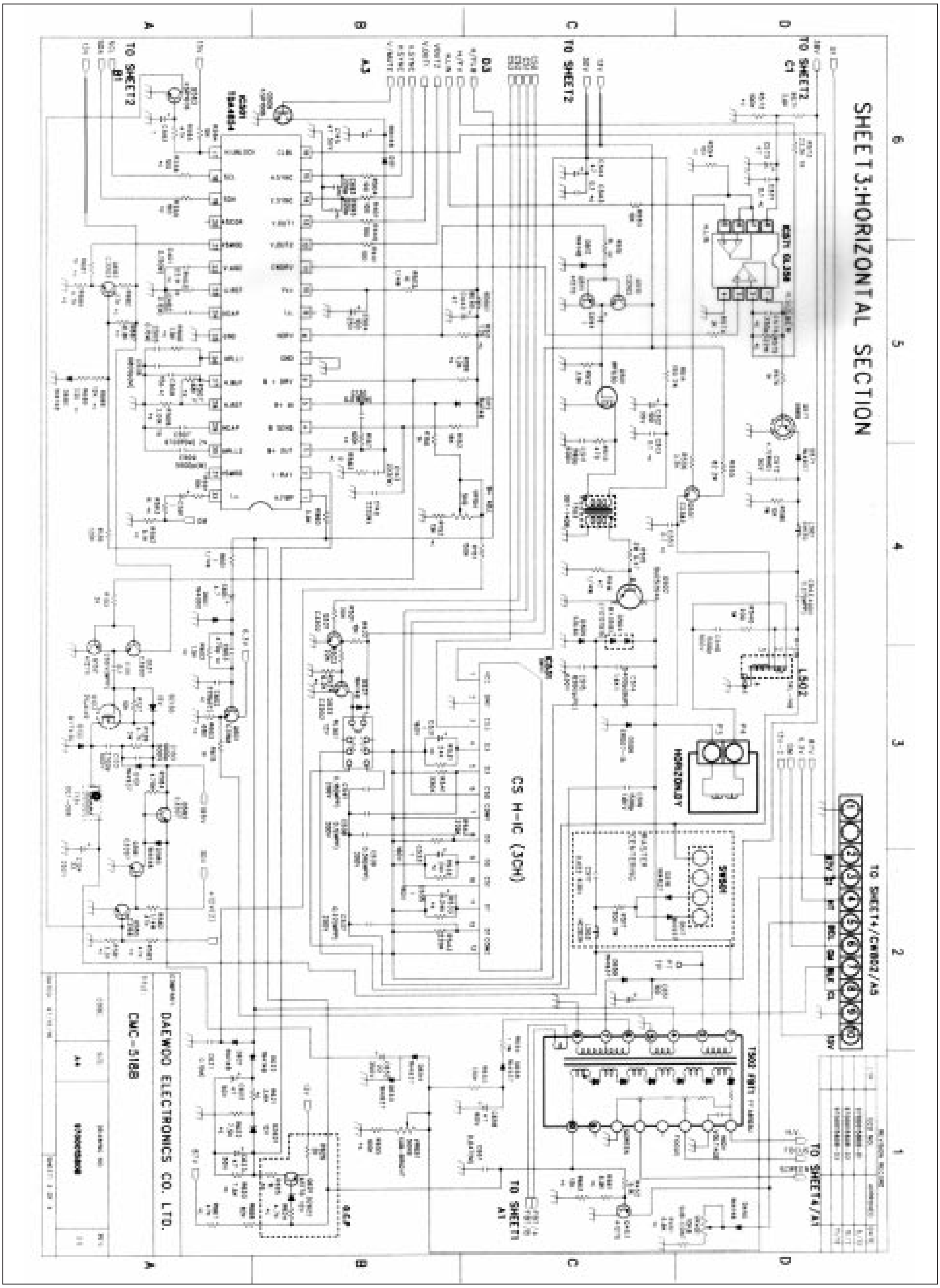
Video PCB Component Side

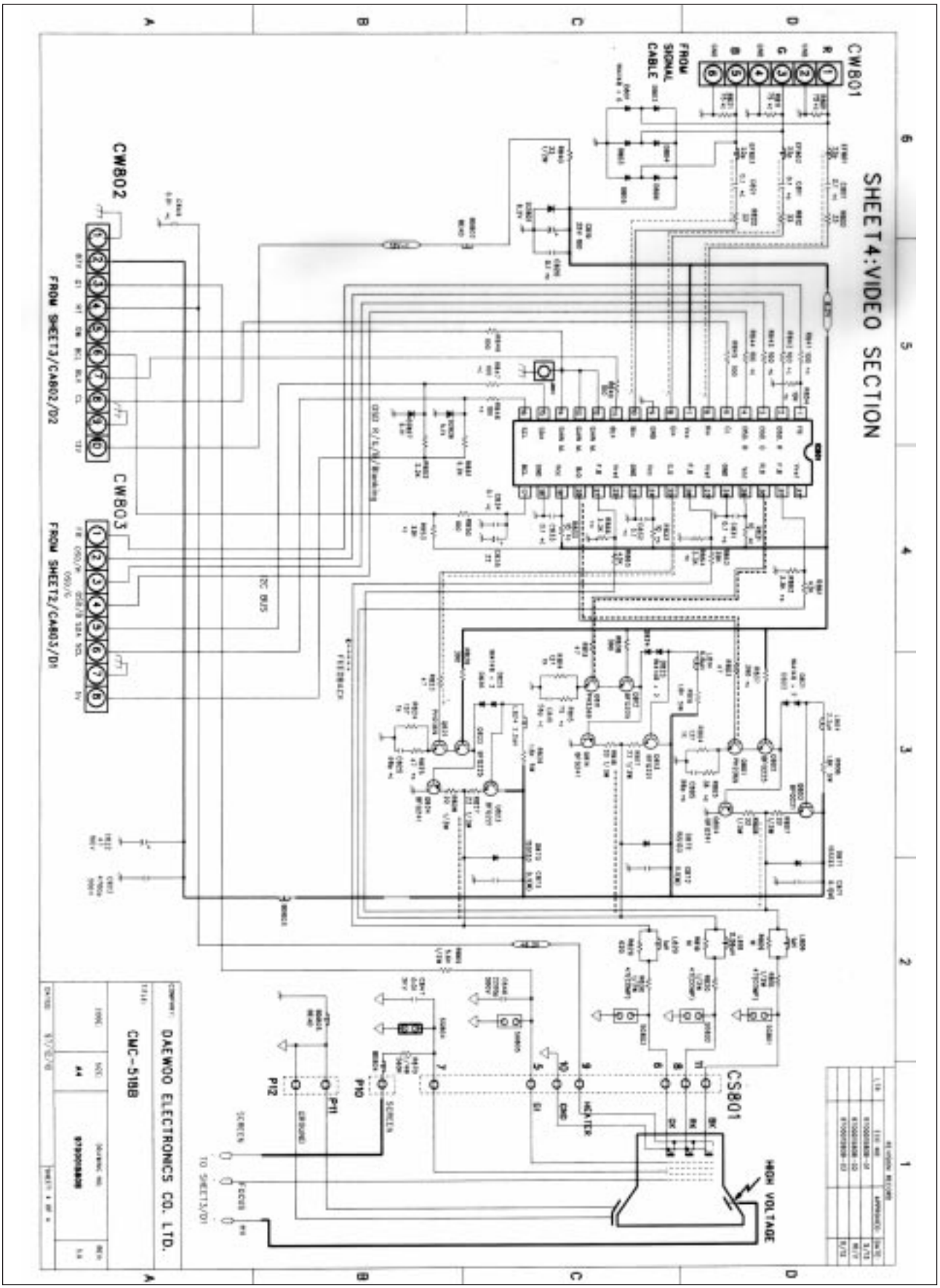


SCHEMATIC DIAGRAM




SHEET2: MICRO-CONTROLLER/OSD/VERTICAL SECTION
DAEWOO ELECTRONICS CO. LTD.
CMC-518B


SHEET3:HORIZONTAL SECTION
CS H-IC (3CH)
HORIZON.DY
TO SHEET2
TO SHEET4/A1
TO SHEET1
DAEWOO ELECTRONICS CO. LTD.
CMC-518B


SHEET4:VIDEO SECTION
CW801
FROM SIGNAL CABLE
CW802
FROM SHEET3/CA802/D2
CW803
FROM SHEET2/CA803/D1
I2C BUS
CS801
HEATER
HIGH VOLTAGE
TO SHEET5/D1
DAEWOO ELECTRONICS CO. LTD.
CMC-518B

EXPLODED VIEW DIAGRAM

REPLACEMENT PARTS LIST

Important Safety Notice

Components identified with the International Symbol have special characteristics important for safety.
When replacing any components, use only manufacturer's specified parts.

Abbreviation of Description

RESISTOR Description

Allowance	
F	¡ 1%
J	¡ 5%
K	¡ 10%
M	¡ 20%
G	¡ 2%

Example:

Fig & Index	Part No	Description
R101	Resistors	
	RE-4Z820J	Cabron : 82J

CAPACITOR Description

Allowance	
C	¡ 0.25pF
D	¡ 0.5%
F	¡ 1pF
J	¡ 5%
K	¡ 10%
P	¡ 100% ~ 0%
Z	¡ 80% ~ -

Example:

Fig & Index	Part No	Description
	Capacitors	
C102	CCXF1H104Z	Ceramic 50V Z
C105	CBSLH200J	Ceramic 50V J
C402	CCXB1H331K	Ceramic 50V K

PART LIST

The components identified by mark ⚠ have special characteristics important for safety and x-ray radiation.
These should be replaced only with the types specified in the parts list.

	LOC	PART-CODE	PART-NAME	PART-DESC
	10010	PCFMCAG066	COVER FRONT AS	CMC-518B
	CGND	9970710164	CRT GND AS	0.12*6*16+BL102NG=630
⚠	CRT	9979615003	CDT	M36KXU110XX61(T)
	DG001	5MG0000050	COIL DEGAUSSING	HP-1512B
	DG002	5MG0000046	COIL TILT	TC-15B
	S001	9970800012	CABLE SIGNAL AS	15P+2C/DDC=1.5M (IVY)
	00010	99720183A0	COVER FRONT AS	CMC-518B COVER FRONT
	00010	9972018300	COVER FRONT	FR-ABS GY-258A
	00010	2221080957	RESIN ABS	LG AF-312 88328B(GY-275A)
	00020	9974819900	BUTTON TACT A	FR-ABS GY-258A
	00010	2221080957	RESIN ABS	LG AF-312 88328B(GY-275A)
	00030	9974820000	BUTTON TACT B	FR-ABS GY-258A
	00010	2221080957	RESIN ABS	LG AF-312 88328B(GY-275A)
	00040	9977915800	LENS LED	ACRYL
	00020	9976011800	SPECIAL SCREW 5	TT2 BIN 5*25 MFZN SPW
	00030	9976012900	SCREW SPECIAL	TT2 HEX 5*25 SCREW+BAND
	00040	7173401411	SCREW TAPPTITE	TT2 BIN 4X14 MFZN
	00050	9976811100	HOLDER WIRE	NYLON 66 (DAQC-103)
	00060	4856812001	TIE CABLE	NYLON66 DA100
	20010	PCMPM1G066	PCB MAIN MANUAL AS	CMC-518B
	CA001	9970710166	CONN AS	35718-0810+1015#18=90
	CA501	9970710166	CONN AS	35718-0810+1015#18=90
	CA802	9970780025	CONN AS	5264-8+51088-9#24=400
	CA803	99707A0015	CONN AS	5264-10+51088-11+#24=180
⚠	C005	CEYP2G221K	C ELECTRO	KMH 400V 220MF(25*40)
	C401	CMXM2A154J	C MYLAR	100V 0.15MF J (TP)
	C572	CEXD1H479W	C ELECTRO	RHD 50V 4.7MF(16*31.5)
	DL001	DAL151RGW-	LED	AL-151RGW
⚠	D001	DD2SB60---	DIODE BRIDGE	D2SB60
	D505	DS3L60----	DIODE	S3L60
	D506	DERD07-15-	DIODE	ERD07-15
⚠	F001	5F3CB3122L	FUSE CERA	SEMKO TL 3.15A 250V MF51
⚠	IC001	PCHASWG066	HEAT SINK A AS	CMC-518B
	IC001	1STRF6524-	IC POWER	STR-F6524
	00010	9977026300	HEAT SINK 263	A1050P-H24
	00020	9976012100	SCREW SPECIAL	TT2 BIN 3*10 MFZN PW
	IC201	1DWM204---	IC MICOM	ST7275

	LOC	PART-CODE	PART-NAME	PART-DESC
	IC401	PCHBSWG066	HEAT SINK B AS	CMC-518B
	IC401	1TDA4866--	IC V.OUT	TDA4866
	00010	9977012422	HEAT SINK 124	A1050P-H24
	00020	9976012100	SCREW SPECIAL	TT2 BIN 3*10 MFZN PW
	IC501	1TDA4854--	IC H.OUT	TDA4854
	IC531	1DW111----	IC	DW111
	L301	5CPZ101K02	COIL PEAKING	100UH K (AXIAL 3.5MM)
	L501	5MC0000057	COIL CHOKE	CH-130
	L502	5MH0000058	COIL H-LINEARITY	TRL-148
	L503	5MC0000006	COIL CHOKE	HC-202K (2MH)
⚠	PH001	1TLP721GR-	IC PHOTO COUPLER	TLP721D4GR
⚠	P002	9979500012	RECEPTACLE	02ME4E1/FILTER EMI
	Q133	T2SJ449---	TR	2SJ449
	Q501	T1RF630---	FET	IRF630
	Q502	PCHCSWG066	HEAT SINK C AS	CMC-518B
	D504	DBY359X150	DIODE	BY359X-1500
⚠	Q502	TBU2520AX-	TR H.OUT	BU2520AX
	Q571	TKTB988Y--	TR	KTB 988-Y
	00010	9977026500	HEAT SINK 265	A1050P-H24 T=1.5
	00020	9976012000	SCREW SPECIAL	TT2 BIN 3*8 MFZN PW
⚠	RL101	5SC0101325	SW RELAY	HR-CR7 DC12V
	RL501	5SC0201103	SW RELAY	HR-CR323 2C-1P DC12V
	SW501	5S80303001	SW LEVER	P12T21
	TH001	DTP8D15---	THERMISTOR	TP8D15
⚠	T001	5RM0000081	TRANS SMPS	DWT-35A2
	T131	5RP0000034	TRANS CHPPER	DCT-006
	T502	5RH0000097	FBT	FFA81057U
⚠	T503	5RD0000032	TRANS DRIVE	DDT-140B
	00010	99741138A0	FRAME AS	CMC-518B
	00010	9974113800	FRAME MAIN	E.G.I T=0.8
	00020	9973723200	SUPPORTER PCB L	FR-ABS GY-258A
	00010	2221080957	RESIN ABS	LG AF-312 88328B(GY-275A)
	00030	9973723201	SUPPORTER PCB R	FR-ABS GY-258A
	00010	2221080957	RESIN ABS	LG AF-312 88328B(GY-275A)
	00040	9972212100	COVER SIGNAL	FR-ABS GY-258A
	00010	2221080957	RESIN ABS	LG AF-312 88328B(GY-275A)
	00050	9977713400	SPACER CARD	NYLON 6.6 DASC-6N
	00030	7173401011	SCREW TAPPTITE	TT2 BIN 4X10 MFZN
	00040	7S103B0481	SCREW SPECIAL	M/C BIN 4X8 MFZN

LOC	PART-CODE	PART-NAME	PART-DESC
30010	PCMPJ1G066	PCB SMD AS	CMC-518B
C011	HCQK681JCA	C CHIP CERA	50V CH 680PF J 2012
C012	HCQK182JCA	C CHIP CERA	50V CH 1800PF J 2012
C013	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C109	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C201	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C203	HCQK220JCA	C CHIP CERA	50V CH 22PF J 2012
C204	HCQK221JCA	C CHIP CERA	50V CH 220PF J 2012
C205	HCQK221JCA	C CHIP CERA	50V CH 220PF J 2012
C206	HCQK221JCA	C CHIP CERA	50V CH 220PF J 2012
C207	HCQK221JCA	C CHIP CERA	50V CH 220PF J 2012
C208	HCQK220JCA	C CHIP CERA	50V CH 22PF J 2012
C209	HCQK220JCA	C CHIP CERA	50V CH 22PF J 2012
C211	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C213	HCQK181JCA	C CHIP CERA	50V CH 180PF J 2012
C214	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C231	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C233	HCQK562JCA	C CHIP CERA	50V CH 5600PF J 2012
C234	HCQK102JCA	C CHIP CERA	50V CH 1000PF J 2012
C273	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C301	HCFK103ZCA	C CHIP CERA	50V Y5V 0.01MF Z 2012
C302	HCQK470JCA	C CHIP CERA	50V CH 47PF J 2012
C303	HCFK103ZCA	C CHIP CERA	50V Y5V 0.01MF Z 2012
C304	HCQK680JCA	C CHIP CERA	50V CH 68PF J 2012
C305	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C308	HCQK221JCA	C CHIP CERA	50V CH 220PF J 2012
C309	HCQK221JCA	C CHIP CERA	50V CH 220PF J 2012
C312	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C431	HCQK681JCA	C CHIP CERA	50V CH 680PF J 2012
C508	HCQK150JCA	C CHIP CERA	50V CH 15PF J 2012
C513	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C543	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C553	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C571	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C575	HCQK221JCA	C CHIP CERA	50V CH 220PF J 2012
C602	HCQK221JCA	C CHIP CERA	50V CH 220PF J 2012
C603	HCQK471JCA	C CHIP CERA	50V CH 470PF J 2012
C692	HCQK221JCA	C CHIP CERA	50V CH 220PF J 2012
C693	HCQK221JCA	C CHIP CERA	50V CH 220PF J 2012

LOC	PART-CODE	PART-NAME	PART-DESC
R009	HRFT120JCA	R CHIP	1/10 12 OHM J 2012
R011	HRFT681JCA	R CHIP	1/10 680 OHM J 2012
R013	HRFT332JCA	R CHIP	1/10 3.3K OHM J 2012
R104	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R106	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R108	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R111	HRFT201JCA	R CHIP	1/10 200 OHM J 2012
R114	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R116	HRFT621JCA	R CHIP	1/10 620 OHM J 2012
R118	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R152	HRFT133JCA	R CHIP	1/10 13K OHM J 2012
R157	HRFT104JCA	R CHIP	1/10 100K OHM J 2012
R158	HRFT122JCA	R CHIP	1/10 1.2K OHM J 2012
R201	HRFT333JCA	R CHIP	1/10 33K OHM J 2012
R202	HRFT203JCA	R CHIP	1/10 20K OHM J 2012
R203	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R204	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R205	HRFT242JCA	R CHIP	1/10 2.4K OHM J 2012
R206	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R208	HRFT331JCA	R CHIP	1/10 330 OHM J 2012
R212	HRFT623JCA	R CHIP	1/10 62K OHM J 2012
R213	HRFT681JCA	R CHIP	1/10 680 OHM J 2012
R217	HRFT222JCA	R CHIP	1/10 2.2K OHM J 2012
R221	HRFT105JCA	R CHIP	1/10 1M OHM J 2012
R224	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R225	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R226	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R227	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R230	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R234	HRFT203JCA	R CHIP	1/10 20K OHM J 2012
R235	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R236	HRFT333JCA	R CHIP	1/10 33K OHM J 2012
R237	HRFT911JCA	R CHIP	1/10 910 OHM J 2012
R239	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R241	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R250	HRFT222JCA	R CHIP	1/10 2.2K OHM J 2012
R254	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R255	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R256	HRFT101JCA	R CHIP	1/10 100 OHM J 2012

LOC	PART-CODE	PART-NAME	PART-DESC
R271	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R272	HRFT682JCA	R CHIP	1/10 6.8K OHM J 2012
R290	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R291	HRFT000JCA	R CHIP	1/10 0 OHM J 2012
R301	HRFT474JCA	R CHIP	1/10 470K OHM J 2012
R302	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R304	HRFT332JCA	R CHIP	1/10 3.3K OHM J 2012
R305	HRFT471JCA	R CHIP	1/10 470 OHM J 2012
R306	HRFT203JCA	R CHIP	1/10 20K OHM J 2012
R310	HRFT471JCA	R CHIP	1/10 470 OHM J 2012
R399	HRFT242JCA	R CHIP	1/10 2.4K OHM J 2012
R403	HRT2212FCA	R CHIP	1/10 22.1K OHM F 2012
R412	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R413	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R414	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R421	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R423	HRFT202JCA	R CHIP	1/10 2K OHM J 2012
R425	HRFT471JCA	R CHIP	1/10 470 OHM J 2012
R431	HRFT302JCA	R CHIP	1/10 3K OHM J 2012
R432	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
R434	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R451	HRFT682JCA	R CHIP	1/10 6.8K OHM J 2012
R476	HRFT000JCA	R CHIP	1/10 0 OHM J 2012
R506	HRFT152JCA	R CHIP	1/10 1.5K OHM J 2012
R507	HRT6810FCA	R CHIP	1/10 681 OHM F 2012
R508	HRT3011FCA	R CHIP	1/10 3.01K OHM F 2012
R510	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
R511	HRFT122JCA	R CHIP	1/10 1.2K OHM J 2012
R524	HRFT622JCA	R CHIP	1/10 6.2K OHM J 2012
R531	HRFT243JCA	R CHIP	1/10 24K OHM J 2012
R532	HRFT243JCA	R CHIP	1/10 24K OHM J 2012
R533	HRFT243JCA	R CHIP	1/10 24K OHM J 2012
R554	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R572	HRFT104JCA	R CHIP	1/10 100K OHM J 2012
R575	HRT2213FCA	R CHIP	1/10 221K OHM F 2012
R581	HRFT332JCA	R CHIP	1/10 3.3K OHM J 2012
R583	HRFT000JCA	R CHIP	1/10 0 OHM J 2012
R585	HRFT473JCA	R CHIP	1/10 47K OHM J 2012
R592	HRFT512JCA	R CHIP	1/10 5.1K OHM J 2012

	LOC	PART-CODE	PART-NAME	PART-DESC
	R593	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
	R602	HRFT152JCA	R CHIP	1/10 1.5K OHM J 2012
	R603	HRFT681JCA	R CHIP	1/10 680 OHM J 2012
	R621	HRFT362JCA	R CHIP	1/10 3.6K OHM J 2012
	R622	HRFT752JCA	R CHIP	1/10 7.5K OHM J 2012
	R623	HRFT752JCA	R CHIP	1/10 7.5K OHM J 2012
	R624	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
	R625	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
	R655	HRFT104JCA	R CHIP	1/10 100K OHM J 2012
	R661	HRFT682JCA	R CHIP	1/10 6.8K OHM J 2012
	R662	HRFT133JCA	R CHIP	1/10 13K OHM J 2012
	R667	HRFT473JCA	R CHIP	1/10 47K OHM J 2012
	R681	HRFT102JCA	R CHIP	1/10 1K OHM J 2012
	R682	HRFT273JCA	R CHIP	1/10 27K OHM J 2012
	R684	HRFT472JCA	R CHIP	1/10 4.7K OHM J 2012
	R687	HRFT682JCA	R CHIP	1/10 6.8K OHM J 2012
	R688	HRFT123JCA	R CHIP	1/10 12K OHM J 2012
	R689	HRFT331JCA	R CHIP	1/10 330 OHM J 2012
	R702	HRFT822JCA	R CHIP	1/10 8.2K OHM J 2012
	R703	HRFT473JCA	R CHIP	1/10 47K OHM J 2012
	R707	HRFT473JCA	R CHIP	1/10 47K OHM J 2012
	R708	HRFT153JCA	R CHIP	1/10 15K OHM J 2012
	40010	PCMPJ0G066	PCB MAIN ODD SHAPE A	CMC-518B
	CW100	485923262S	CONN WAFER	5267-05A STICK TYPE
	CW200	485923242S	CONN WAFER	5267-03A STICK TYPE
⚠	C001	CL1UC3104M	C LINE ACROSS	WORLD AC250V 0.1UF M R.47
	C006	CCXB3D103P	C CERA	HIKB 2KV 0.01MF K
	C007	CCXB3D102K	C CERA	2KV B 1000PF K (TAPPING)
	C101	CEXF2C470C	C ELECTRO	160V RUS 47MF (13X25) TP
	C102	CEXF2C470C	C ELECTRO	160V RUS 47MF (13X25) TP
	C104	CEXF1C102C	C ELECTRO	16V RUS 1000MF (10X20) TP
	C105	CEXF1C102C	C ELECTRO	16V RUS 1000MF (10X20) TP
	C106	CEXF1C102C	C ELECTRO	16V RUS 1000MF (10X20) TP
⚠	C120	CH1FDF472M	C CERA AC	HIKB AC400V 4700PF M
	C131	CMXF2D104J	C MYLAR	MPP 200V 0.1MF J
	C134	CEXF2E220C	C ELECTRO	250V RUS 22MF (13X20) TP
	C212	CEXF1C471C	C ELECTRO	16V RUS 470MF (10X12.5)TP
⚠	C514	CMXH3C542J	C MYLAR	BUP 1.6KV 5400PF J
	C515	CMXE2J822J	C MYLAR	PL 630V 8200PF J

	LOC	PART-CODE	PART-NAME	PART-DESC
⚠	C516	CMXH3C152J	C MYLAR	1.6KV BUP 1500PF J (TP)
	C517	CMXE2J223J	C MYLAR	630V PU 0.022MF J (TP)
	C537	CMXF2D224J	C MYLAR	MPP 200V 0.22MF J
	C538	CMXF2D104J	C MYLAR	MPP 200V 0.1MF J
	C539	CMXF2D564J	C MYLAR	MPP 200V 0.56MF J
	C541	CMXF2D184J	C MYLAR	MPP 200V 0.18MF J
	C542	CMXF2G274J	C MYLAR	MPP 400V 0.27MF J
	C652	CEXF2V220C	C ELECTRO	350V RUS 22MF (13*25) TP
	C658	CEXF2C470C	C ELECTRO	160V RUS 47MF (13X25) TP
	D003	DBYT43M---	DIODE	BYT43M
	D004	DBYT43D---	DIODE	BYT43D
	D101	DBYT54M---	DIODE	BYT54M
	D103	DBYT43M---	DIODE	BYT43M
	D104	DBYT43G---	DIODE	BYT43G
	D105	DZBYV27200	DIODE	BYV27/200
	D107	DBYT43G---	DIODE	BYT43G
	D108	DZBYV27200	DIODE	BYV27/200
	D131	D1N4937GP-	DIODE	1N4937GP (TAPPING)
	D132	DBYT43G---	DIODE	BYT43G
	D517	D1N4937GP-	DIODE	1N4937GP (TAPPING)
	D518	D1N4937GP-	DIODE	1N4937GP (TAPPING)
	D571	D1N4937GP-	DIODE	1N4937GP (TAPPING)
	D601	D1N4002A--	DIODE	1N4002
	D653	D1N4937GP-	DIODE	1N4937GP (TAPPING)
	D654	D1N4937GP-	DIODE	1N4937GP (TAPPING)
	D658	D1N4937GP-	DIODE	1N4937GP (TAPPING)
	D659	D1N4937GP-	DIODE	1N4937GP (TAPPING)
	IC203	124LC04B--	IC MEMORY	24LC04B
	IC301	1MC141547-	IC OSD	MC141547
	IC571	1DBL358---	IC	DBL358 DUAL OP-AMP
	IC701	1DBL358---	IC	DBL358 DUAL OP-AMP
⚠	PR001	DECPAC140M	POSISTOR	ECPAC140M290
	P1	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
	P2	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
	P3	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
	P4	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
	P5	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
	P6	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
	P7	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)

LOC	PART-CODE	PART-NAME	PART-DESC
P8	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
P9	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
R007	RS02Z223JS	R M-OXIDE FILM	2W 22K OHM J SMALL
R012	RW01Z118JN	R WIRE WOUND	1W 0.11 OHM J NON-INDUCT
R139	RS02Z472JS	R M-OXIDE FILM	2W 4.7K OHM J SMALL
R514	RS02Z151JS	R M-OXIDE FILM	2W 150 0HM J SMALL
R515	RS02Z478JS	R M-OXIDE FILM	2W 0.47 OHM J SMALL
R517	RS02Z201JS	R M-OXIDE FILM	2W 200 OHM J SMALL
R555	RS02Z820JS	R M-OXIDE FILM	2W 82 OHM J SMALL
SW101	5S50101Z01	SW TACT	KPT-1115VM 1C-1P
SW102	5S50101Z01	SW TACT	KPT-1115VM 1C-1P
SW103	5S50101Z01	SW TACT	KPT-1115VM 1C-1P
SW104	5S50101Z01	SW TACT	KPT-1115VM 1C-1P
SW105	5S50101Z01	SW TACT	KPT-1115VM 1C-1P
SW106	5S50101Z01	SW TACT	KPT-1115VM 1C-1P
SW107	5S50101Z01	SW TACT	KPT-1115VM 1C-1P
VR104	RV6121502P	R SEMI FIXED	CCT 063BT 5K OHM B TAP
VR451	RV6121103P	R SEMI FIXED	CCT 063BT 10K OHM B TAP
VR651	RV6121503P	R SEMI FIXED	CCT 063BT 50K OHM B TAP
X201	5XE24R000E	CRYSTAL QUARTZ	HC-49/U 24.00000MHZ 30PPM
50010	PCMPJRG066	PCB MAIN RADIAL AS	CMC-518B
C009	CEXF1E470C	C ELECTRO	25V RUS 47MF (5X11) TP
C103	CEXF1H101C	C ELECTRO	50V RUS 100MF (8X11.5) TP
C107	CEXF1H479C	C ELECTRO	50V RUS 4.7MF (5X11) TP
C108	CEXF1H109C	C ELECTRO	50V RUS 1MF (5X11) TP
C110	CEXF1H330C	C ELECTRO	50V RUS 33MF (6.3X11) TP
C115	CEXF1H470C	C ELECTRO	50V RUS 47MF (6.3X11) TP
C118	CEXF1H100C	C ELECTRO	50V RUS 10MF (5X11) TP
C130	CMXM2A183J	C MYLAR	100V 0.018MF J (TP)
C132	CCXB2H272K	C CERA	HIKB 500V 2700PF K
C133	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)
C140	CMXM2A222J	C MYLAR	100V 2200PF J (TP)
C143	CMXM2A223J	C MYLAR	100V 0.022MF J TP
C145	CEXF1H470C	C ELECTRO	50V RUS 47MF (6.3X11) TP
C230	CEXF1H229C	C ELECTRO	50V RUS 2.2MF (5X11) TP
C270	CEXF1H229C	C ELECTRO	50V RUS 2.2MF (5X11) TP
C306	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C311	CEXF1H100C	C ELECTRO	50V RUS 10MF (5X11) TP
C402	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)

LOC	PART-CODE	PART-NAME	PART-DESC
C411	CEXF1E221C	C ELECTRO	25V RUS 220MF (8X11.5) TP
C412	CEXF2A220C	C ELECTRO	100V RUS 22MF (8*11.5)
C415	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C420	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)
C421	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)
C422	CEXF2C109C	C ELECTRO	160V RUS 1MF (6.3X11)TP
C442	CEXF1H470C	C ELECTRO	50V RUS 47MF (6.3X11) TP
C504	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C505	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C506	CMXM2A682J	C MYLAR	100V 6800PF J (TP)
C507	CMXT2A972G	C MYLAR	OSMP 100V 9700PF G (TP)
C509	CMXM2A562J	C MYLAR	100V 5600PF J (TP)
C511	CCXB2H561K	C CERA	500V B 560PF K (TAPPING)
C512	CEXF1V101C	C ELECTRO	35V RUS 100MF (8X11.5) TP
C531	CEXF2C109C	C ELECTRO	160V RUS 1MF (6.3X11)TP
C533	CEXF2C109C	C ELECTRO	160V RUS 1MF (6.3X11)TP
C535	CEXF2C109C	C ELECTRO	160V RUS 1MF (6.3X11)TP
C540	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)
C544	CEXF1H470C	C ELECTRO	50V RUS 47MF (6.3X11) TP
C573	CEXF1H470C	C ELECTRO	50V RUS 47MF (6.3X11) TP
C591	CEXF1H109C	C ELECTRO	50V RUS 1MF (5X11) TP
C592	CEXF1H109C	C ELECTRO	50V RUS 1MF (5X11) TP
C601	CEXF1H479C	C ELECTRO	50V RUS 4.7MF (5X11) TP
C621	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C622	CEXF1H470C	C ELECTRO	50V RUS 47MF (6.3X11) TP
C623	CEXF1H470C	C ELECTRO	50V RUS 47MF (6.3X11) TP
C651	CEXF1H101C	C ELECTRO	50V RUS 100MF (8X11.5) TP
C661	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)
C694	CEXF1H109C	C ELECTRO	50V RUS 1MF (5X11) TP
C701	CEXF1H479C	C ELECTRO	50V RUS 4.7MF (5X11) TP
C702	CEXF1H229C	C ELECTRO	50V RUS 2.2MF (5X11) TP
F001A	4857415001	CLIP FUSE	PFC5000-0702
F001B	4857415001	CLIP FUSE	PFC5000-0702
IC101	1K1A78L05B	IC REGULATOR	KIA78L05BP
IC102	1KA431AZ--	IC REGULATOR	KA431AZ
IC202	1K1A7042P-	IC SWITCH	KIA7042P
Q101	TKTA1274Y-	TR	KTA1274
Q102	TKTA1273Y-	TR	KTA1273-Y
Q103	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)

LOC	PART-CODE	PART-NAME	PART-DESC
Q104	TKTA1273Y-	TR	KTA1273-Y
Q105	TZTC3203Y-	TR	KTC3203Y (2120Y)
Q131	TZTC3202Y-	TR	KTC3202Y (AUTO)(1959Y)
Q132	TZTA1270Y-	TR	KTA1270Y(AUTO)(562Y)
Q182	TZTC3202Y-	TR	KTC3202Y (AUTO)(1959Y)
Q201	TZTA1270Y-	TR	KTA1270Y(AUTO)(562Y)
Q202	TZTA1270Y-	TR	KTA1270Y(AUTO)(562Y)
Q203	TZTC3202Y-	TR	KTC3202Y (AUTO)(1959Y)
Q204	TZTC3202Y-	TR	KTC3202Y (AUTO)(1959Y)
Q310	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)
Q421	TZTC3207--	TR	KTC3207 (AUTO)
Q423	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)
Q453	TZTA1270Y-	TR	KTA1270Y(AUTO)(562Y)
Q506	TZSR1006--	TR	KSR1006 (AUTO)
Q510	TZTC3202Y-	TR	KTC3202Y (AUTO)(1959Y)
Q511	TZTA1270Y-	TR	KTA1270Y(AUTO)(562Y)
Q521	TZTC3202Y-	TR	KTC3202Y (AUTO)(1959Y)
Q522	TZTC3202Y-	TR	KTC3202Y (AUTO)(1959Y)
Q551	TKSC2383Y-	TR	KSC 2383-Y
Q580	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)
Q581	TZTC3207--	TR	KTC3207 (AUTO)
Q582	TZTC3207--	TR	KTC3207 (AUTO)
Q583	TZSR1006--	TR	KSR1006 (AUTO)
Q601	TZTC3198Y-	TR	KTC3198Y-(1815Y) (AUTO)
Q621	TZTA1270Y-	TR	KTA1270Y(AUTO)(562Y)
Q682	TZTC3202Y-	TR	KTC3202Y (AUTO)(1959Y)
Q702	TZTC3202Y-	TR	KTC3202Y (AUTO)(1959Y)
Q703	TZTA1270Y-	TR	KTA1270Y(AUTO)(562Y)
60010	PCMPJAG066	PCB MAIN AXIAL AS	CMC-518B
BD001	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD002	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD003	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD004	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD101	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD102	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD103	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD201	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD301	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD501	5PB13857--	COIL BEAD	BI3857(AXIAL)

LOC	PART-CODE	PART-NAME	PART-DESC
DZ130	DDZ12BM---	DIODE ZENER	DZ12BM
DZ210	DDZ5R1B---	DIODE ZENER	DZ-5.1B
DZ211	DDZ5R1B---	DIODE ZENER	DZ-5.1B
DZ213	DDZ5R1B---	DIODE ZENER	DZ-5.1B
DZ214	DDZ5R1B---	DIODE ZENER	DZ-5.1B
DZ621	DDZ12BM---	DIODE ZENER	DZ12BM
DZ622	DDZ12BM---	DIODE ZENER	DZ12BM
D007	DZN4148---	DIODE	1N4148 AUTO 52MM
D106	DZN4148---	DIODE	1N4148 AUTO 52MM
D111	DZN4148---	DIODE	1N4148 AUTO 52MM
D112	DZN4148---	DIODE	1N4148 AUTO 52MM
D130	DZN4148---	DIODE	1N4148 AUTO 52MM
D205	DZN4148---	DIODE	1N4148 AUTO 52MM
D206	DZN4148---	DIODE	1N4148 AUTO 52MM
D450	DZN4148---	DIODE	1N4148 AUTO 52MM
D512	DZN4148---	DIODE	1N4148 AUTO 52MM
D521	DZN4148---	DIODE	1N4148 AUTO 52MM
D580	DZN4148---	DIODE	1N4148 AUTO 52MM
D621	DZN4148---	DIODE	1N4148 AUTO 52MM
D622	DZN4148---	DIODE	1N4148 AUTO 52MM
D680	DZN4148---	DIODE	1N4148 AUTO 52MM
E1	4856310200	EYE LET	BSR T0.2 (R2.0)
E10	4856310200	EYE LET	BSR T0.2 (R2.0)
E11	4856310200	EYE LET	BSR T0.2 (R2.0)
E12	4856310200	EYE LET	BSR T0.2 (R2.0)
E13	4856310300	EYE LET	BSR T0.2 (R1.6)
E14	4856310300	EYE LET	BSR T0.2 (R1.6)
E15	4856310300	EYE LET	BSR T0.2 (R1.6)
E16	4856310300	EYE LET	BSR T0.2 (R1.6)
E17	4856310300	EYE LET	BSR T0.2 (R1.6)
E18	4856310300	EYE LET	BSR T0.2 (R1.6)
E19	4856310300	EYE LET	BSR T0.2 (R1.6)
E2	4856310200	EYE LET	BSR T0.2 (R2.0)
E20	4856310300	EYE LET	BSR T0.2 (R1.6)
E3	4856310200	EYE LET	BSR T0.2 (R2.0)
E4	4856310200	EYE LET	BSR T0.2 (R2.0)
E5	4856310200	EYE LET	BSR T0.2 (R2.0)
E6	4856310200	EYE LET	BSR T0.2 (R2.0)
E7	4856310300	EYE LET	BSR T0.2 (R1.6)

LOC	PART-CODE	PART-NAME	PART-DESC
E8	4856310300	EYE LET	BSR T0.2 (R1.6)
E9	4856310200	EYE LET	BSR T0.2 (R2.0)
J001	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J002	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J003	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J004	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J101	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J102	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J103	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J104	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J105	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J106	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J107	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J108	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J109	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J111	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J112	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J113	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J114	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J115	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J116	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J117	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J118	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J119	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J120	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J121	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J122	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J123	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J124	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J125	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J126	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J127	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J128	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J129	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J130	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J131	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J132	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J133	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J134	85801052GY	WIRE COPPER	1/0.52 TIN COATING

LOC	PART-CODE	PART-NAME	PART-DESC
J135	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J136	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J137	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J138	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J139	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J140	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J141	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J142	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J143	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J144	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J145	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J146	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J147	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J148	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J149	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J150	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J151	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J152	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J153	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J154	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J155	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J156	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J157	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J158	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J159	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J160	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J161	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J162	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J163	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J164	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J165	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J166	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J167	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J168	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J169	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J170	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J171	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J172	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J173	85801052GY	WIRE COPPER	1/0.52 TIN COATING

LOC	PART-CODE	PART-NAME	PART-DESC
J174	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J175	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J176	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J177	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J178	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J179	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J180	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J181	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J182	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J184	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J185	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J186	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J187	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J188	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J189	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J190	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J191	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J192	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J193	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J194	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J195	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J196	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J197	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J198	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J199	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J200	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J201	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J202	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J203	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J204	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J205	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J206	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J208	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J209	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J210	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J211	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J212	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J213	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J214	85801052GY	WIRE COPPER	1/0.52 TIN COATING

LOC	PART-CODE	PART-NAME	PART-DESC
J215	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J216	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J217	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J219	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J220	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J221	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J222	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J223	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J225	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J226	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J227	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J228	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J229	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J230	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J231	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J232	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J234	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J235	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J236	85801052GY	WIRE COPPER	1/0.52 TIN COATING
R001	RD-2Z105J-	R CARBON FILM	1/2 1M OHM J
R002	RD-2Z154J-	R CARBON FILM	1/2 150K OHM J
R010	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J
R101	RD-2Z154J-	R CARBON FILM	1/2 150K OHM J
R105	RD-4Z203J-	R CARBON FILM	1/4 20K OHM J
R107	RD-4Z911J-	R CARBON FILM	1/4 910 OHM J
R109	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R110	RD-AZ241J-	R CARBON FILM	1/6 240 OHM J
R112	RN-AZ8871F	R METAL FILM	1/6 8.87K OHM F
R113	RN-AZ2051F	R METAL FILM	1/6 2.05K OHM F
R115	RS01Z209JS	R M-OXIDE FILM	1W 2 OHM J SMALL
R117	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R119	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R120	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J
R124	RS01Z820JS	R M-OXIDE FILM	1W 82 OHM J SMALL
R133	RD-AZ302J-	R CARBON FILM	1/6 3K OHM J
R136	RD-AZ124J-	R CARBON FILM	1/6 120K OHM J
R137	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R150	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R151	RD-AZ154J-	R CARBON FILM	1/6 150K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC
R153	RD-AZ153J-	R CARBON FILM	1/6 15K OHM J
R207	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R210	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R211	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J
R215	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J
R216	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R218	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R219	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R220	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R222	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R223	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R228	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R232	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R233	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R240	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J
R253	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R257	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J
R307	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R308	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R401	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R410	RD-2Z301J-	R CARBON FILM	1/2 300 OHM J
R415	RD-2Z201J-	R CARBON FILM	1/2 200 OHM J
R416	RN-AZ2431F	R METAL FILM	1/6 2.43K OHM F
R420	RS01Z918JS	R M-OXIDE FILM	1W 0.91 OHM J SMALL
R422	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R433	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R440	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R441	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R452	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J
R503	RD-4Z100J-	R CARBON FILM	1/4 10 OHM J
R504	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R512	RD-AZ392J-	R CARBON FILM	1/6 3.9K OHM J
R513	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J
R516	RD-4Z470J-	R CARBON FILM	1/4 47 OHM J
R521	RD-AZ303J-	R CARBON FILM	1/6 30K OHM J
R522	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R523	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R540	RS01Z201JS	R M-OXIDE FILM	1W 200 OHM J SMALL
R541	RD-AZ224J-	R CARBON FILM	1/6 220K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC
R542	RD-AZ224J-	R CARBON FILM	1/6 220K OHM J
R543	RD-AZ224J-	R CARBON FILM	1/6 220K OHM J
R553	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R556	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R560	RD-AZ392J-	R CARBON FILM	1/6 3.9K OHM J
R571	RD-AZ362J-	R CARBON FILM	1/6 3.6K OHM J
R573	RN-AZ2322F	R METAL FILM	1/6 23.2K OHM F
R574	RD-AZ302J-	R CARBON FILM	1/6 3K OHM J
R576	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R580	RS01Z103JS	R M-OXIDE FILM	1W 10K OHM J SMALL
R582	RD-4Z473J-	R CARBON FILM	1/4 47K OHM J
R584	RD-AZ474J-	R CARBON FILM	1/6 470K OHM J
R591	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R594	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R595	RD-AZ473J-	R CARBON FILM	1/6 47K OHM J
R601	RD-4Z109J-	R CARBON FILM	1/4 1 OHM J
R615	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R626	RD-AZ202J-	R CARBON FILM	1/6 2K OHM J
R653	RD-AZ124J-	R CARBON FILM	1/6 120K OHM J
R654	RS01Z109JS	R M-OXIDE FILM	1W 1 OHM J SMALL
R668	RD-AZ823J-	R CARBON FILM	1/6 82K OHM J
R701	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R705	RD-2Z100J-	R CARBON FILM	1/2 10 OHM J
R706	RD-4Z100J-	R CARBON FILM	1/4 10 OHM J
00001	9979800445	PCB MAIN	T=1.6*330*246
30020	PCCTSWG066	PCB CRT AS	CMC-518B
CS801	9979300002	SOCKET CRT	ISHM10S
CW801	9979220021	CONN WAFER	SMAW250-06 (ANGLE)
CW802	4859234520	CONN WAFER	5268-10A
CW803	9979200062	CONN WAFER	5268-08A
IC801	1TDA4885--	IC VIDEO PREAMP	TDA4885
Q802	TBFQ225---	TR	BFQ225
Q812	TBFQ225---	TR	BFQ225
Q822	TBFQ225---	TR	BFQ225
R806	RX05V182J-	R CEMENT	5W 1.8K VERTICAL LEAD
R816	RX05V182J-	R CEMENT	5W 1.8K VERTICAL LEAD
R826	RX05V182J-	R CEMENT	5W 1.8K VERTICAL LEAD
SG804	4SG0D00104	SPARK GAP	S-23 1.5KV
SG805	4SG0D00104	SPARK GAP	S-23 1.5KV

LOC	PART-CODE	PART-NAME	PART-DESC
00010	9977241100	SHIELD CASE	SPTH-C T=0.3
00020	9975816100	LABEL DHHS	STICKER 120P*70*45
00030	9977713400	SPACER CARD	NYLON 6.6 DASC-6N
00040	9977241200	SHIELD COVER	SPTH-C T=0.3
40010	PCCTJ1G066	PCB CRT CHIP AS	CMC-518B
C801	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C805	HCQK560JCA	C CHIP CERA	50V CH 56PF J 2012
C811	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C815	HCQK560JCA	C CHIP CERA	50V CH 56PF J 2012
C820	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C821	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C825	HCQK680JCA	C CHIP CERA	50V CH 68PF J 2012
C831	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C832	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C833	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C834	HCFK104ZCA	C CHIP CERA	50V Y5V 0.1MF Z 2012
C845	HCFK103ZCA	C CHIP CERA	50V Y5V 0.01MF Z 2012
R801	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
R805	HRFT360JCA	R CHIP	1/10 36 OHM J 2012
R811	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
R815	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
R821	HRFT750JCA	R CHIP	1/10 75 OHM J 2012
R825	HRFT470JCA	R CHIP	1/10 47 OHM J 2012
R831	HRFT100JCA	R CHIP	1/10 10 OHM J 2012
R832	HRFT100JCA	R CHIP	1/10 10 OHM J 2012
R833	HRFT100JCA	R CHIP	1/10 10 OHM J 2012
R837	HRFT391JCA	R CHIP	1/10 390 OHM J 2012
R841	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R842	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R843	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R844	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R847	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R848	HRFT101JCA	R CHIP	1/10 100 OHM J 2012
R853	HRFT333JCA	R CHIP	1/10 33K OHM J 2012
R854	HRFT103JCA	R CHIP	1/10 10K OHM J 2012
R862	HRFT332JCA	R CHIP	1/10 3.3K OHM J 2012
R864	HRFT332JCA	R CHIP	1/10 3.3K OHM J 2012
R866	HRFT332JCA	R CHIP	1/10 3.3K OHM J 2012
50010	PCCTJ0G066	CRT PCB ODD ASS¡Ÿ	CMC-518B

LOC	PART-CODE	PART-NAME	PART-DESC
C822	CEXF2A470C	C ELECTRO	100V RUS 47MF (10X16) TP
C847	CCXE3D103P	C CERA	HIKE 2KV 0.01MF P
P10	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
P11	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
P12	4857417500	TERM PIN	DA-IB0214(D2.3/DY PIN)
60010	PCCTJRG066	PCB CRT RADIAL AS	CMC-518B
C819	CEXF1E101C	C ELECTRO	25V RUS 100MF (6.3X11) TP
C823	CCXB2H472K	C CERA	500V B 4700PF K (TAPPING)
C835	CEXF1H220C	C ELECTRO	50V RUS 22MF (5X11) TP
C846	CCXB2H222K	C CERA	500V B 2200PF K (TAPPING)
C871	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C872	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
C873	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
EF801	5PF1BH220M	FILTER LC	CFI-06-B-1H-220M
EF802	5PF1BH220M	FILTER LC	CFI-06-B-1H-220M
EF803	5PF1BH220M	FILTER LC	CFI-06-B-1H-220M
Q801	TPH2369---	TR	PH2369
Q803	TBFQ221---	TR	BFQ221
Q804	TBFQ241---	TR	BFQ241
Q811	TPH2369---	TR	PH2369
Q813	TBFQ221---	TR	BFQ221
Q814	TBFQ241---	TR	BFQ241
Q821	TPH2369---	TR	PH2369
Q823	TBFQ221---	TR	BFQ221
Q824	TBFQ241---	TR	BFQ241
70010	PCCTJAG066	PCB CRT AXIAL AS	CMC-518B
BD802	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD803	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD804	5PB13857--	COIL BEAD	BI3857(AXIAL)
BD805	5PB13857--	COIL BEAD	BI3857(AXIAL)
DZ801	DDZ8R2BM--	DIODE ZENER	DZ8.2BM
DZ827	DDZ5R1B---	DIODE ZENER	DZ-5.1B
DZ828	DDZ5R1B---	DIODE ZENER	DZ-5.1B
D801	DZN4148---	DIODE	1N4148 AUTO 52MM
D802	DZN4148---	DIODE	1N4148 AUTO 52MM
D803	DZN4148---	DIODE	1N4148 AUTO 52MM
D804	DZN4148---	DIODE	1N4148 AUTO 52MM
D805	DZN4148---	DIODE	1N4148 AUTO 52MM
D806	DZN4148---	DIODE	1N4148 AUTO 52MM

LOC	PART-CODE	PART-NAME	PART-DESC
D821	DZN4148---	DIODE	1N4148 AUTO 52MM
D822	DZN4148---	DIODE	1N4148 AUTO 52MM
D823	DZN4148---	DIODE	1N4148 AUTO 52MM
D824	DZN4148---	DIODE	1N4148 AUTO 52MM
D825	DZN4148---	DIODE	1N4148 AUTO 52MM
D826	DZN4148---	DIODE	1N4148 AUTO 52MM
D871	D1SS133T77	DIODE	1SS133 T-77
D872	D1SS133T77	DIODE	1SS133 T-77
D873	D1SS133T77	DIODE	1SS133 T-77
J802	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J803	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J804	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J806	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J807	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J808	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J809	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J810	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J811	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J812	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J813	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J814	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J815	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J816	85801052GY	WIRE COPPER	1/0.52 TIN COATING
J817	85801052GY	WIRE COPPER	1/0.52 TIN COATING
L804	5CPZ229M02	COIL PEAKING	2.2UH M (AXIAL 3.5MM)
L809	5CPZ109M02	COIL PEAKING	1UH M (AXIAL 3.5MM)
L814	5CPZ689M02	COIL PEAKING	6.8UH K (AXIAL 3.5MM)
L819	5CPZ568M02	COIL PEAKING	0.56UH M (AXIAL 3.5MM)
L824	5CPZ229M02	COIL PEAKING	2.2UH M (AXIAL 3.5MM)
L829	5CPZ109M02	COIL PEAKING	1UH M (AXIAL 3.5MM)
R802	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J
R803	RD-AZ470J-	R CARBON FILM	1/6 47 OHM J
R804	RN-AZ1370F	R METAL FILM	1/6 137.0 OHM F
R807	RD-3Z220JF	R CARBON FILM	1/3 22 OHM J(FRAME-FROOF)
R808	RD-3Z220JF	R CARBON FILM	1/3 22 OHM J(FRAME-FROOF)
R809	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R810	RC-2Z470J-	R CARBON COMP	1/2 47 OHM J
R812	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J
R813	RD-AZ470J-	R CARBON FILM	1/6 47 OHM J

LOC	PART-CODE	PART-NAME	PART-DESC
R814	RN-AZ1370F	R METAL FILM	1/6 137.0 OHM F
R817	RD-3Z220JF	R CARBON FILM	1/3 22 OHM J(FRAME-FROOF)
R818	RD-3Z220JF	R CARBON FILM	1/3 22 OHM J(FRAME-FROOF)
R819	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R820	RC-2Z470J-	R CARBON COMP	1/2 47 OHM J
R822	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J
R823	RD-AZ470J-	R CARBON FILM	1/6 47 OHM J
R824	RN-AZ1370F	R METAL FILM	1/6 137.0 OHM F
R827	RD-3Z220JF	R CARBON FILM	1/3 22 OHM J(FRAME-FROOF)
R828	RD-3Z220JF	R CARBON FILM	1/3 22 OHM J(FRAME-FROOF)
R829	RD-AZ621J-	R CARBON FILM	1/6 620 OHM J
R830	RC-2Z470J-	R CARBON COMP	1/2 47 OHM J
R838	RD-AZ391J-	R CARBON FILM	1/6 390 OHM J
R839	RD-AZ391J-	R CARBON FILM	1/6 390 OHM J
R840	RD-2Z330J-	R CARBON FILM	1/2 33 OHM J
R845	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R846	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R849	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R850	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R851	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R852	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R861	RD-AZ433J-	R CARBON FILM	1/6 43K OHM J
R863	RD-AZ393J-	R CARBON FILM	1/6 39K OHM J
R865	RD-AZ433J-	R CARBON FILM	1/6 43K OHM J
R869	RD-2Z562J-	R CARBON FILM	1/2 5.6K OHM J
R870	RD-4Z564J-	R CARBON FILM	1/4 560K OHM J
SG801	DWSP201M--	SURGE ABSORBER	WSP-201M
SG802	DWSP201M--	SURGE ABSORBER	WSP-201M
SG803	DWSP201M--	SURGE ABSORBER	WSP-201M
00001	9979800446	PCB VIDEO	T=1.6*155*82
10020	PCBCCPG066	COVER REAR AS	CMC-518B
00010	9972115200	COVER REAR	FR-ABS GY-258A
00010	2221080957	RESIN ABS	LG AF-312 88328B(GY-275A)
00020	9975420300	LABEL RATING	PE FILM
00030	7173401411	SCREW TAPPTITE	TT2 BIN 4X14 MFZN
10030	PCPKCPG066	PACKING AS	CMC-518B
⚠ P001	W1113D831-	CORD POWER	1 SVT 3X18AWG 1.8M BK
00010	9978131200	CUSHION	EPS
00020	9978035800	BOX CARTON	SW-3

LOC	PART-CODE	PART-NAME	PART-DESC
00030	9978212800	BAG POLY	P.E FILM T0.03*900*900
00040	9978212900	BAG POLY	PE FILM T0.05*250*350
00050	2TP00075CL	TAPE OPP	50X75 CLEAR
00060	9975822500	LABEL BARCODE	80*22 ART PAPER
00065	9978213700	BAG CARGO	LIGHT 1000*1850
00070	99729205A3	BASE STAND AS	HIPS GY-275A
00010	9972920503	BASE STAND	HIPS GY-275A
00010	2221110233	RESIN PS	LG HIPS 55WC GY-275A
00020	9972920403	SWIVEL TABLE	HIPS GY-275A
00010	2221110233	RESIN PS	LG HIPS 55WC GY-275A
00030	9972711100	FOOT	RUBBER(WHT) 14
00040	9978212601	BAG POLY	PE FILM T0.05*375*360
00050	2TU08024CL	TAPE VINYL	0.08TX24MM CLEAR

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