

Service Manual

XGA COLOR MONITOR

Model : 719B-3/719BF-3



DAEWOO
DAEWOO LUCOMS CO., LTD.

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<http://www.lucoms.com>

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CONTENTS

SAFETY PRECAUTIONS	1
GENERAL SAFETY INFORMATION	2
SERVICING PRECAUTIONS	3
TECHNICAL INFORMATION	6
GENERAL INFORMATION	7
PIN CONNECTOR	8
CAUTIONS FOR ADJUSTMENT AND REPAIR	8
OPERATION AND ADJUSTMENT	9
ALIGNMENT PROCEDURE	15
TROUBLESHOOTING HINTS	17
BLOCK DIAGRAM	32
SCHEMATIC DIAGRAM	33
EXPLODED VIEW & MECHANICAL PARTS LIST	34
INFORMATION OF PART DESCRIPTION	36
ELECTRICAL PARTS LIST	37

SAFETY PRECAUTIONS

CAUTION: No modifications of any circuits should be attempted. Service work should be performed only after you are thoroughly familiar with all of the following safety checks 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 the chassis.
- When servicing, pay close attention to the original lead dress especially in the high voltage circuit area; 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.

Only use same type replacement picture tubes.

IMPORTANT SAFETY NOTICE: There are special components used in this 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-Ray, shock, fire or other hazards. Do not modify the original design without getting written permission from DAEWOO LUCOMS CO., LTD. or this will void the original parts and labor warranty.

◆ X-Ray

WARNING: The only potential source of X-Ray is the picture tube. However when the high voltage circuitry is operating properly, there is no possibility of an X-Ray 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.
- Set the Contrast & Brightness Control to the minimum on OSD Menu.
- Measure the high voltage. The high voltage meter should indicate the following factory recommended levels.
- If the upper meter indication exceeds the maximum level, immediate service is required to prevent the possibility of premature component failure.
- To prevent X-Ray possibility, it is essential to use the specified picture tube.
- The normal 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 which is properly included on the equipment itself.
- WARNING** Statements are clearly concerning indicated personal injury hazards.

◆ Symbols in the manual

The symbols indicate 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

The 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 ray protection. For continued safety, replace critical components that are indicated in the service manual with exact replacement parts given in the parts list.

Operating high voltage with this product is 29Kv 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 addendum, please 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.

- 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 of its assemblies.
5. Unless otherwise specified in this service manual, only 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 alchohol (90%-99% strength).

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

6. Do not damage 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 other of its electrical assemblies unless all the 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. Only use 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 are commonly called Electrostatically Sensitive (ES) Devices.

The typical examples of 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, wipe off any electrostatic charge on your body by touching any 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 testing conditions.
2. After removing the electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil to prevent electrostatic charge buildup or exposure to the assembly.
3. Only use a grounded-tip soldering iron to solder or unsolder ES devices.
4. Only use 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 replacement ES devices, 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 movements when handling unpackaged replacement ES devices. (Otherwise harmful motion such as the brushing together clothes fabric or the lifting your foot from a carpeted floor can generate enough static electricity to damage 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 between a 550°F-660°F (288°C-316°C) 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°F to 660°F or 288°C to 316°C)
 - 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 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.

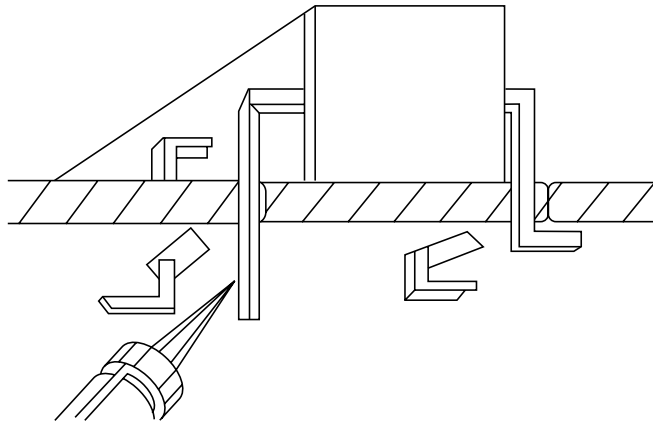


FIGURE 1. USE SOLDERING IRON TO PRY LEADS

◆ 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 ends 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 ensure 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 then 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

Model		719B-3	719BF-3
CDT Size		17-inch	17-inch Flat
Diagonal visible image area		16.2-inch	16.01-inch
Dot Pitch		0.27 mm	0.24 mm
Synchronization	Horizontal	30 - 70 KHz	
	Vertical	50 - 160 Hz	
Plug and Play		VESA DDC Compatible	
Power Saving		EPA, VESA DPMS, Nutek Compliant	
Power Source		100-240 Vac, 50/60Hz (Free Voltage)	
Power Consumption		85W	
Dimension-W x H x D (set with stand)		410 x 402 x 425mm	410 x 407 x 419mm
Weight-unpacked(lbs/Kg)		32.0/14.5	35.2/16
Operating Temperature		10 ~ 40°C /50 ~ 104°F	

GENERAL INFORMATION

This color monitor automatically scans all horizontal frequencies from 30KHz to 70KHz, and all vertical frequencies from 50Hz to 160Hz. 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 display when using the following graphics adapters : (VGA, 8514/A, Super 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.

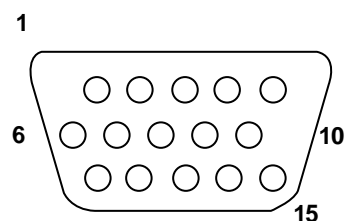
By accepting analog signal inputs which level is zero to 0.7 Volts. This color monitor can display and unlimited palette of colors depending on the graphics adapter and software being used.

◆ 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
6	GND - Red
7	GND - Green
8	GND - Blue
9	+5Vdc(option)
10	GND - H.Sync
11	GND - V.Sync
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 factory. 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.

OPERATION AND ADJUSTMENT

719B-3 Control Panel

▼ BRIGHTNESS ▲ MENU ◀ CONTRAST ▶



POWER LIGHT



- Move cursor to the right window on the OSD window.
- Increase the value of any selected function.
- While the OSD screen is off, you can adjust the screen brightness according to each situation.



- Move cursor to the left window on the OSD window.
- Decrease the value of any selected function.

MENU



- Launch OSD(On-Screen Display) MENU window.

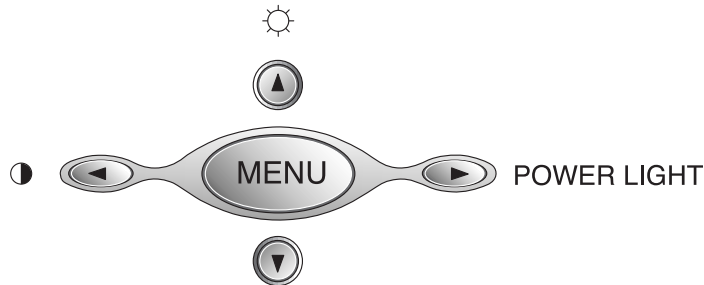


- Move cursor to the high window on the OSD window.
- Increase the value of V.size or V.center.



- Move cursor to the low window on the OSD window.
- Decrease the value of V.size or V.center.

719BF-3 Control Panel



POWER LIGHT

- Move cursor to the right window on the OSD window.
- Increase the value of any selected function.
- While the OSD screen is off, you can adjust the screen brightness according to each situation.



- Move cursor to the left window on the OSD window.
- Decrease the value of any selected function.



- Launch OSD(On-Screen Display) MENU window.

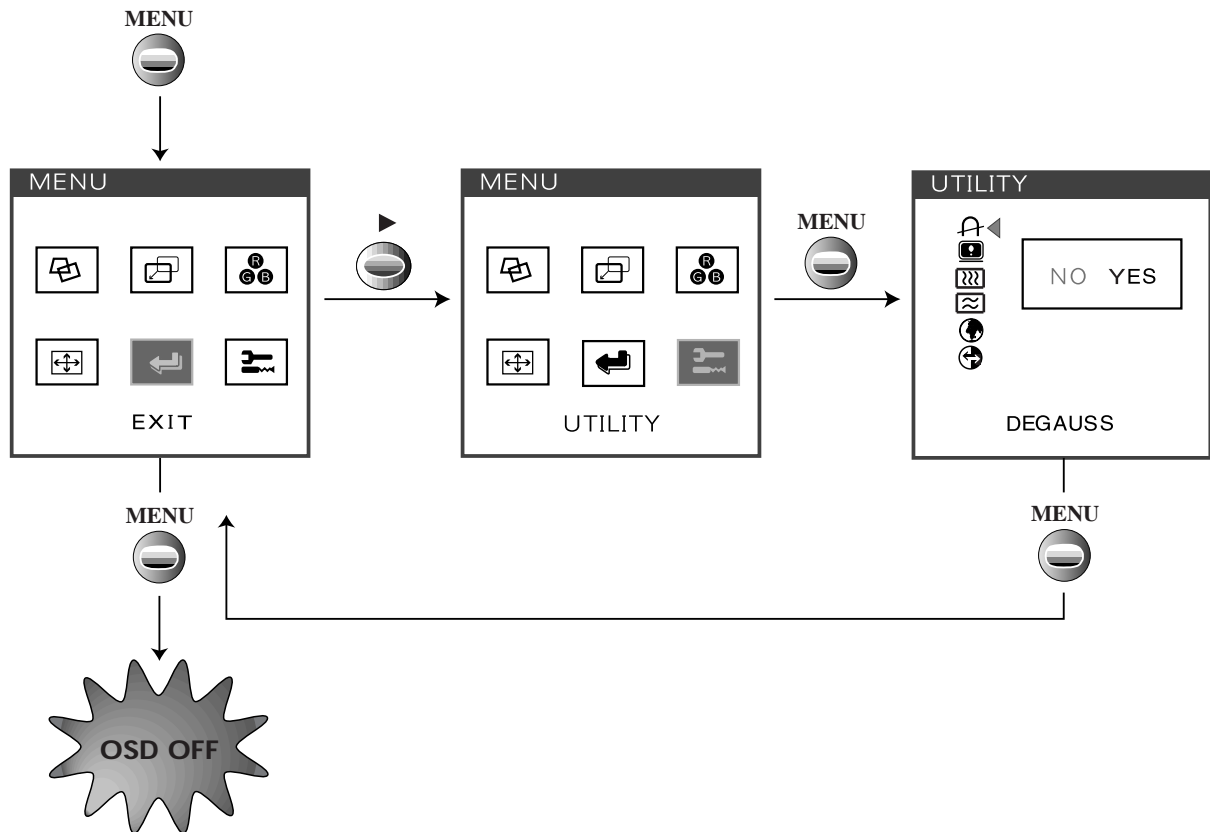



- Move cursor to the high window on the OSD window.
- Increase the value of V.size or V.center.



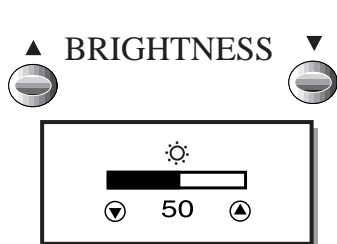
- Move cursor to the low window on the OSD window.
- Decrease the value of V.size or V.center.

719B Key Process



- When you choose the icon  on the OSD window, you can exit the OSD screen.

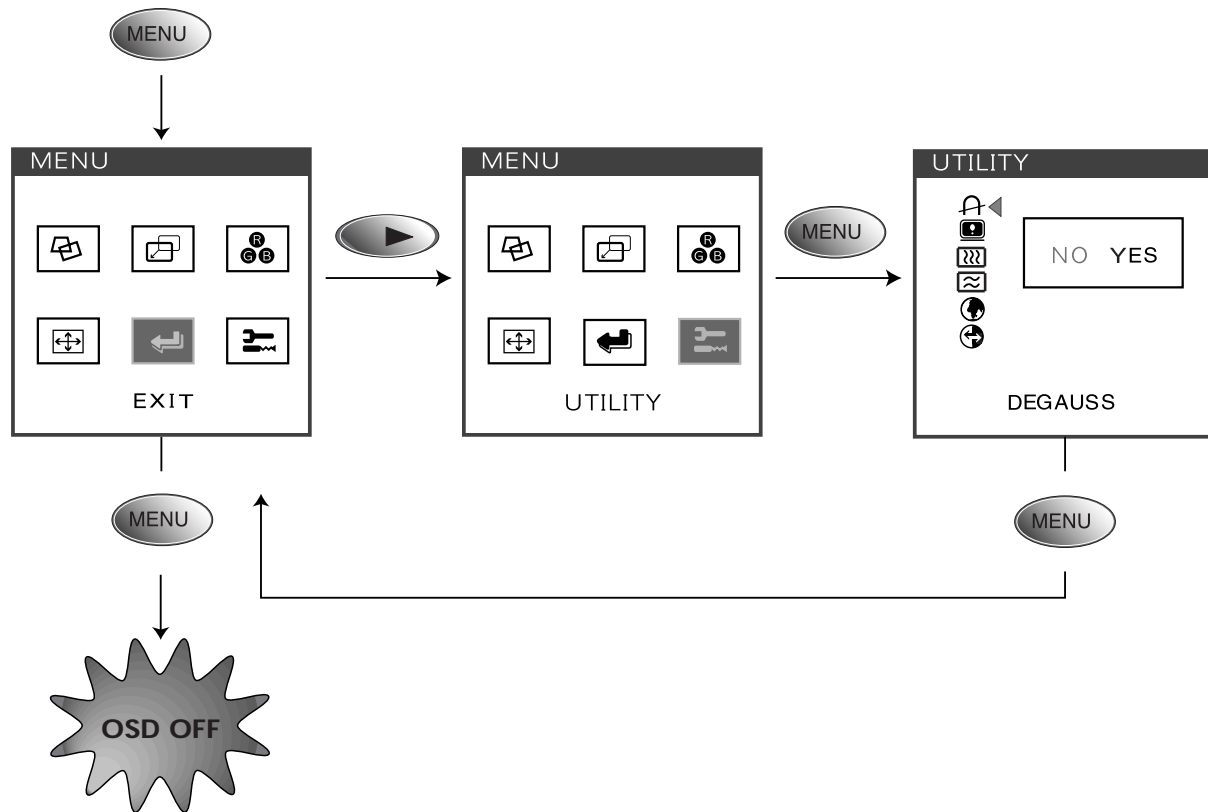
Hot Key



The screen brightens progressively by 10%.

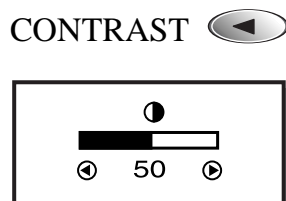
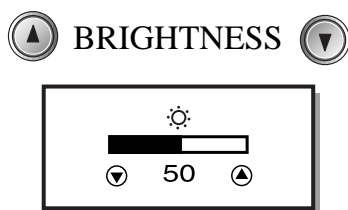
If you carry out general PC works such as document edition on the Movie mode, you may shorten the life span of CRT. Thus, it is recommended to verify the selected mode before use.

719BF Key Process

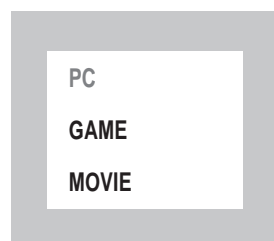


- When you choose the icon  on the OSD window, you can exit the OSD screen.

Hot Key



POWER LIGHT















The screen brightens progressively by 10%.

If you carry out general PC works such as document edition on the Movie mode, you may shorten the life span of CRT. Thus, it is recommended to verify the selected mode before use.

OPERATION AND ADJUSTMENT

OSD Functions

ICON	CONTROL	FUNCTIONS
	PINCUSHION	Adjust the left and right margins for more convex or more concave margins.
	TRAPEZOID	Adjust the trapezoid of the screen by moving the lines inward or outward.
	PARALLELOGRAM	Adjust the parallelogram when the screen is leaning left or right.
	PIN BALANCE	Adjust the side balance when the sides of the screen are bowed towards left or right.
	T. PIN CORNER	Adjust the pin corner top when the top sides of the screen are bowed.
	B. PIN CORNER	Adjust the pin corner bottom when the bottom sides of the screen are bowed.
	ROTATION	Adjust the rotation when the screen is tilted left or right (719BF only).
	H. CENTER & V. CENTER	Adjust the position of the display horizontally(left or right) and vertically (up or down).
	COLOR TEMP	Choose different preset color temperatures or set your own customized color parameters.
	RED GAIN	Adjust the red gain.
	GREEN GAIN	Adjust the green gain.
	BLUE GAIN	Adjust the blue gain.
	H. SIZE & V. SIZE	Adjust the width (horizontal size) and the height (vertical size) of the display.
	DEGAUSS	Degauss the display and restore image quality.

ICON	CONTROL	FUNCTIONS
	STATUS	Display horizontal & vertical frequency and polarity.
	H. MOIRE	Adjust the horizontal picture moire cancellation.
	V. MOIRE	Adjust the vertical picture moire cancellation.
	LANGUAGE	Select language for OSD (5 languages).
	RECALL	Reset the screen to the Factory Preset Display Settings.

ALIGNMENT PROCEDURE

◆ Standard Adjustment Conditions

1. Power source voltage : AC 100~240V, 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 : 30KHz - 70KHz
 - Vertical Frequency : 50Hz - 160Hz

◆ Pre-Adjustment

1. High Voltage Adjustment
Adjust 26K Vdc between Anode cap and ground at a cross hatch pattern of 60KHz by using the factory mode.

◆ Method to launch the factory mode

- Step 1. Turns off the monitor.
- Step 2. Push the menu button and then push the power button at once.

◆ Main Adjustment

1. Setting the Controls
Set the value of items as following.
 - Contrast : Max. (OSD value up to 100)
 - Brightness : Center (Set the OSD value to 50)
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 60KHz 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 VGA mode signal by using the signal generator.
 - (b) Pin balance, Parallelogram are adjusted the best geometric status.
 - (c) Repeat the adjustment at each mode.
5. White Balance Adjustment
 - (a) Receive a full white pattern of 60KHz mode.
 - (b) Set the bright control and contrast control to the maximum and receive the all black pattern.
 - (c) Select a Temperature function on the R, G, B item of the OSD menu and select 9300.
 - (d) If the screen luminosity is changed, adjust the sub brightness control to get the 0.6 ~ 0.8 Ft/L screen luminosity.
 - (e) Select the R, G, B Bias on the OSD menu and adjust the ◀ / ▶ key to get the color coordinates in X=0.281, Y=0.311.
 - (f) Set the brightness control to the maximum and contrast control to the maximum.

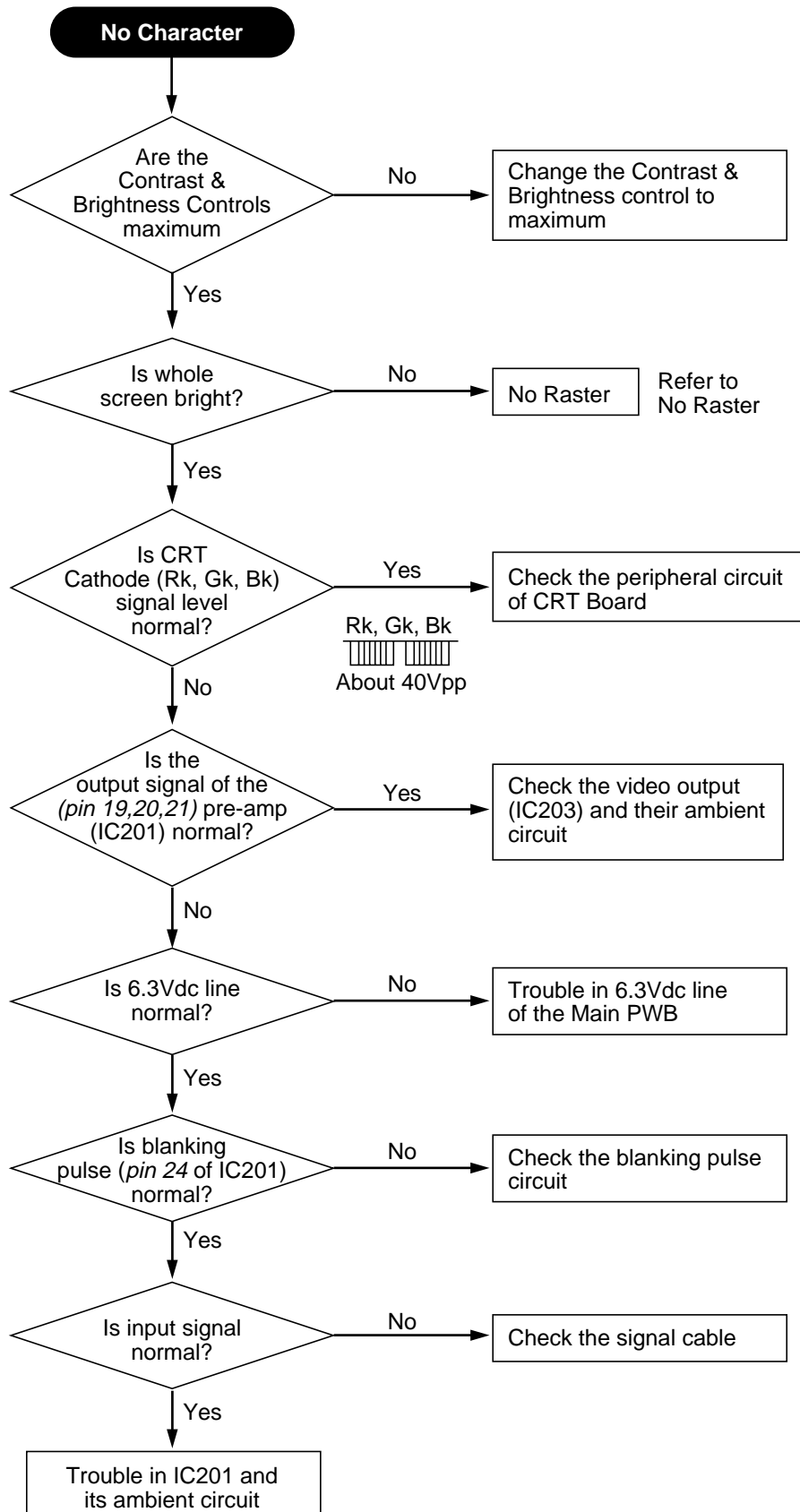
- (g) Receive the small square white pattern about 50 x 50mm.
- (h) Adjust the G-gain control to get the brightness to 50 Ft/L.
- (i) Adjust the B-gain control to get the y coordinate to 0.311 ± 0.03 .
- (j) Adjust the R-gain control to get the x coordinate to 0.281 ± 0.03 .
- (k) Receive the full white pattern.
- (l) Adjust the ABL control to get the brightness to 32 Ft/L.

6. Static Convergence Adjustment

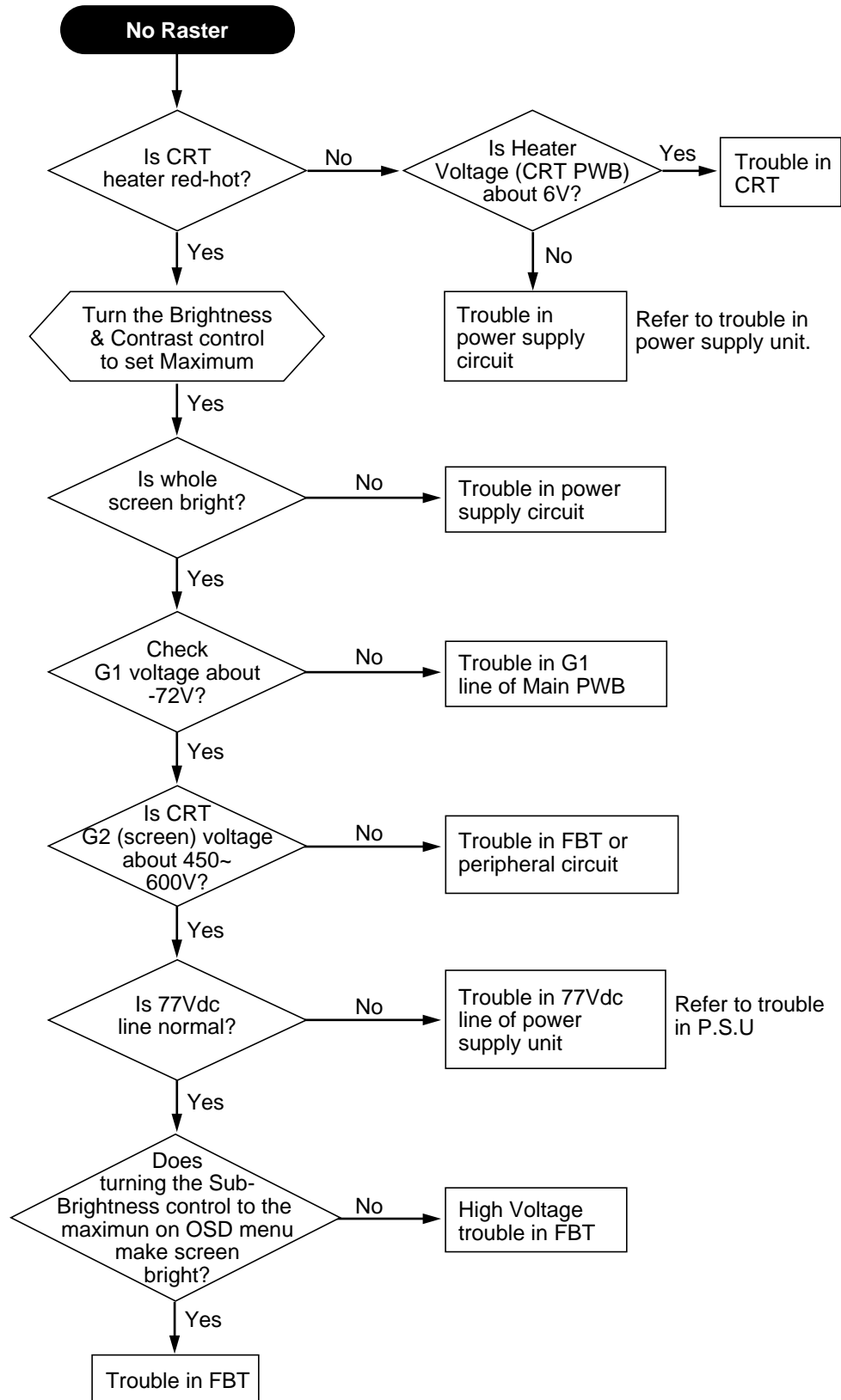
- (a) Apply a magenta cross hatch pattern on display.
- (b) Adjust the focus from the best over all focus on the display.
Also adjust the brightness to the desired condition.
- (c) Vertical red and blue lines are converged by varying the angles between the two tabs of the 4-pole magnets.
- (d) Horizontal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

TROUBLESHOOTING HINTS

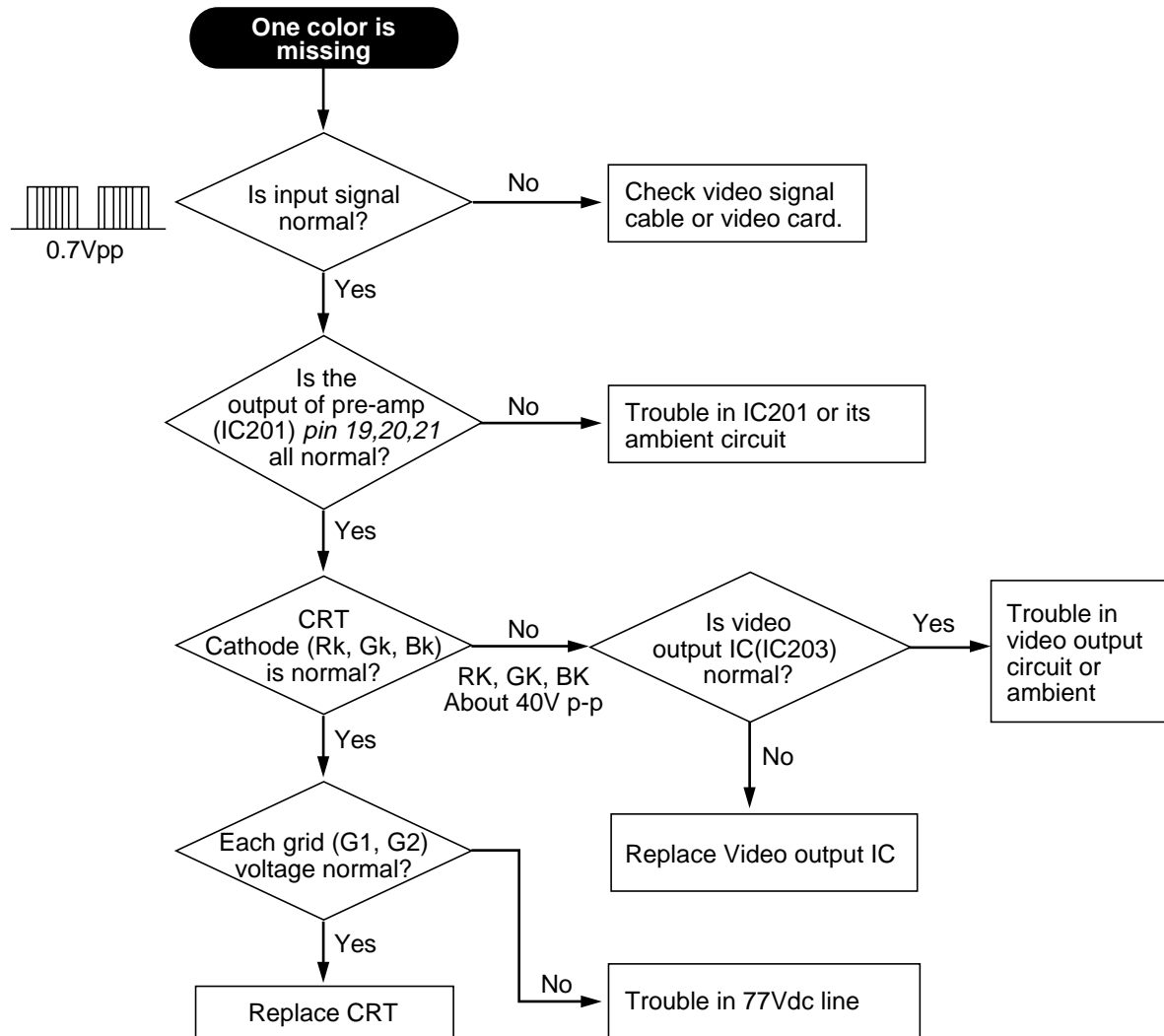
1. No Character



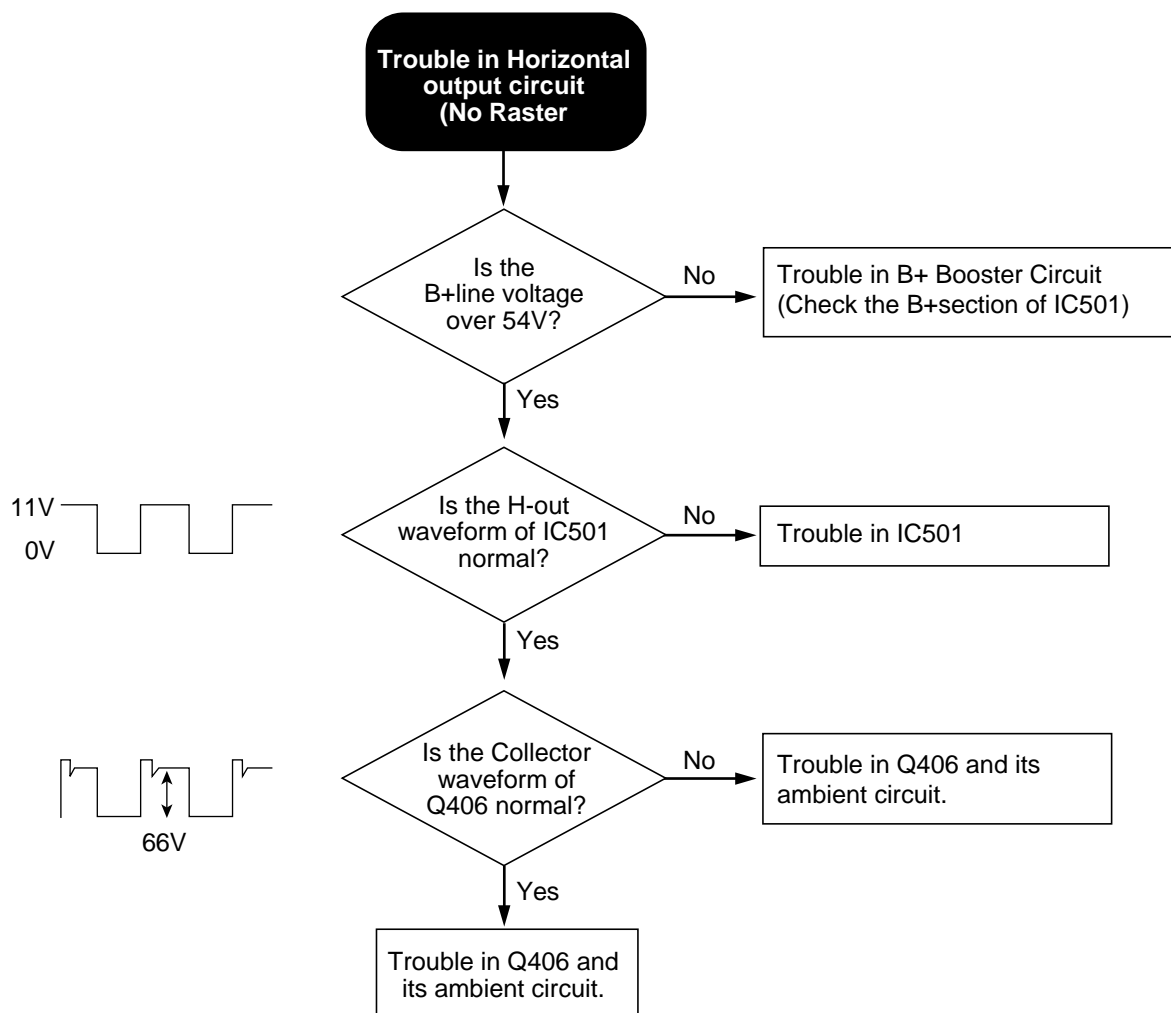
2. No Raster



3. A Missing Color

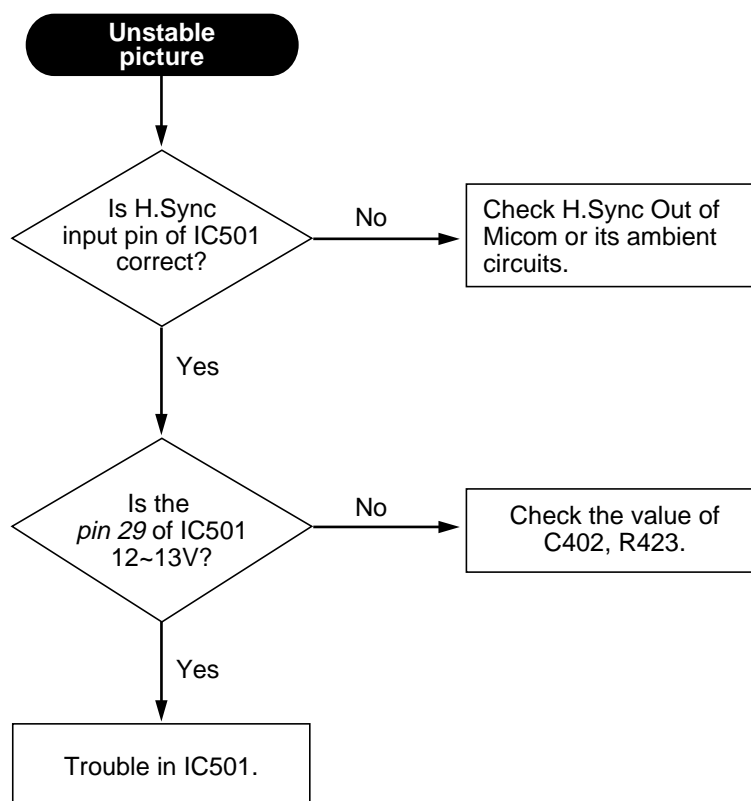


4. Horizontal Output Circuit

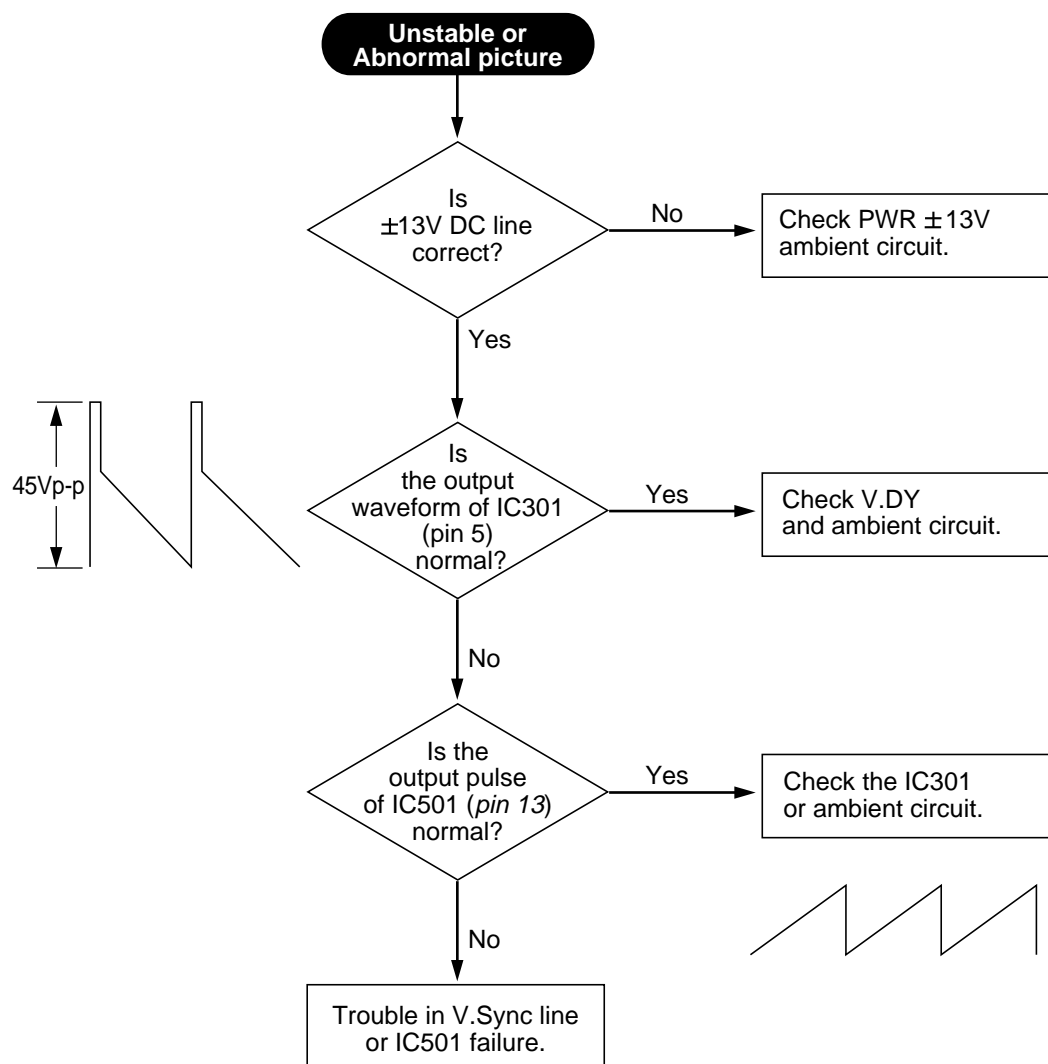


5. Unstable Picture

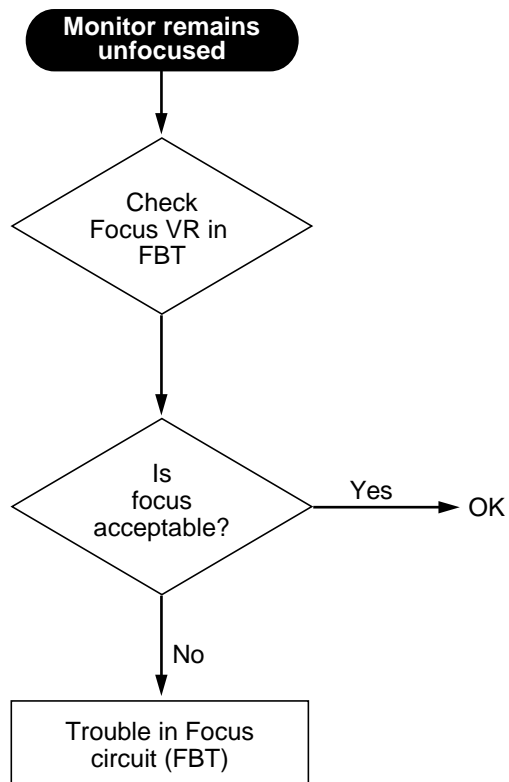
5-1. Horizontal



5-2. Vertical

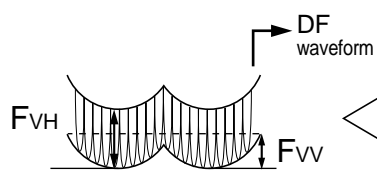


6. Focus



6-1. Dynamic Focus

F_{VH} F_{VV}
 ORION : 300V 120V
 SAMSUNG : 300V 120V



Focus is poor

* Check after adjusting the static focus finely by VR in FBT

Is the waveform of the DF pin in FBT correct?

Yes

1. Check the CRT socket or connector wire.
2. Trouble in FBT or CRT.

No

Is the waveform of the pin 32 in IC501 correct?

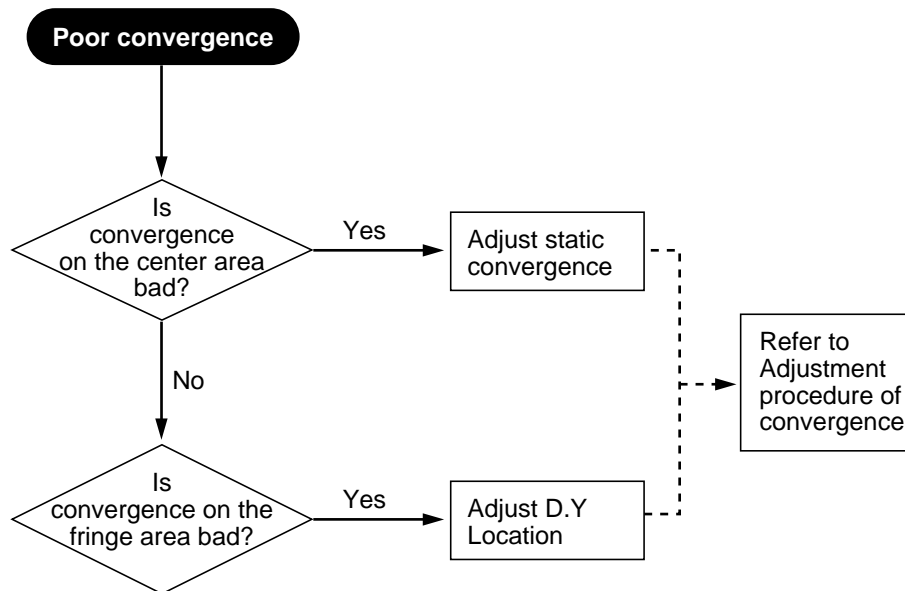
No

Trouble in IC501 or C407.

Yes

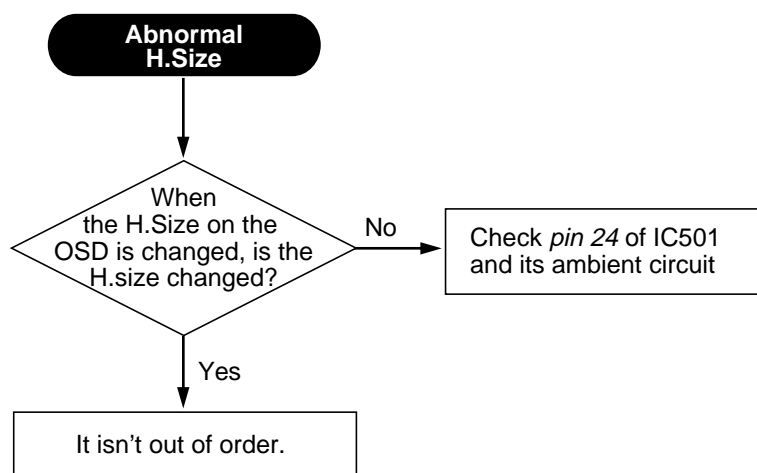
Trouble in Q901, T902, R903

7. Convergence

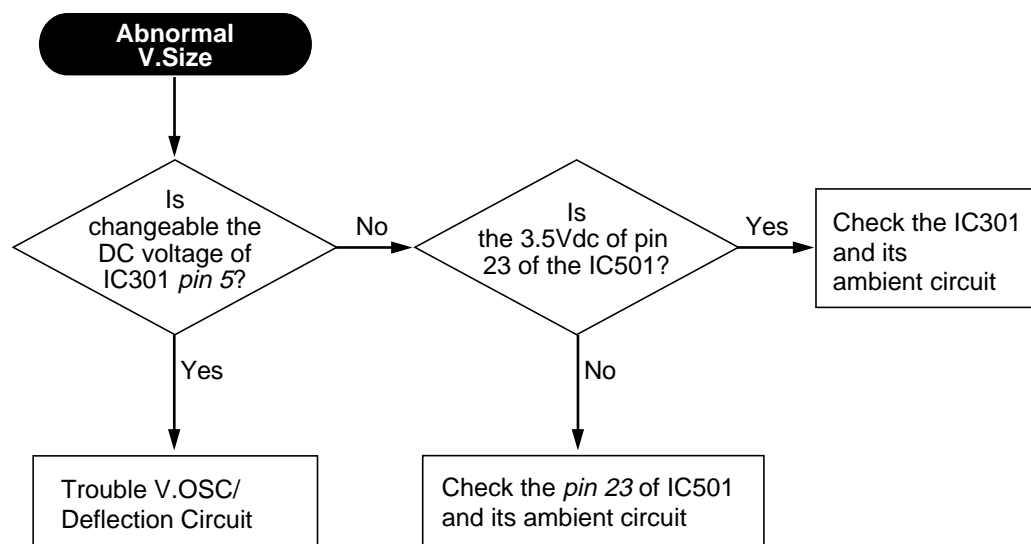


8. Abnormal Picture

8-1. Horizontal Size

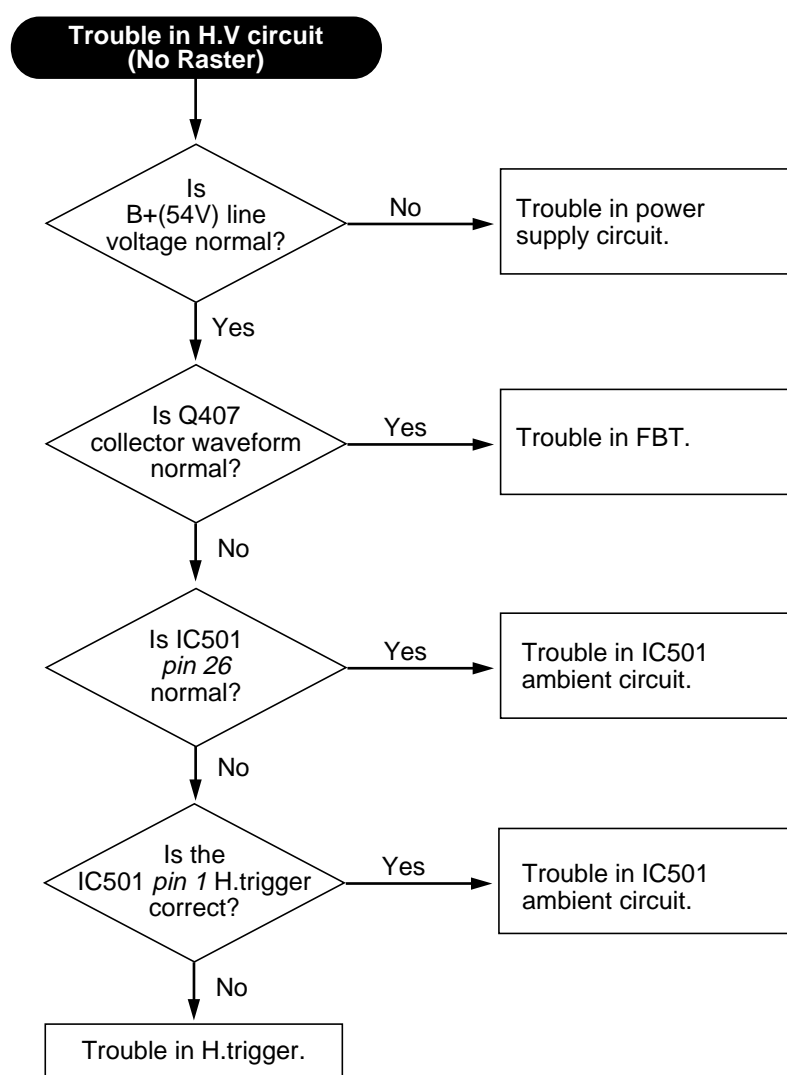


8-2. Vertical Size

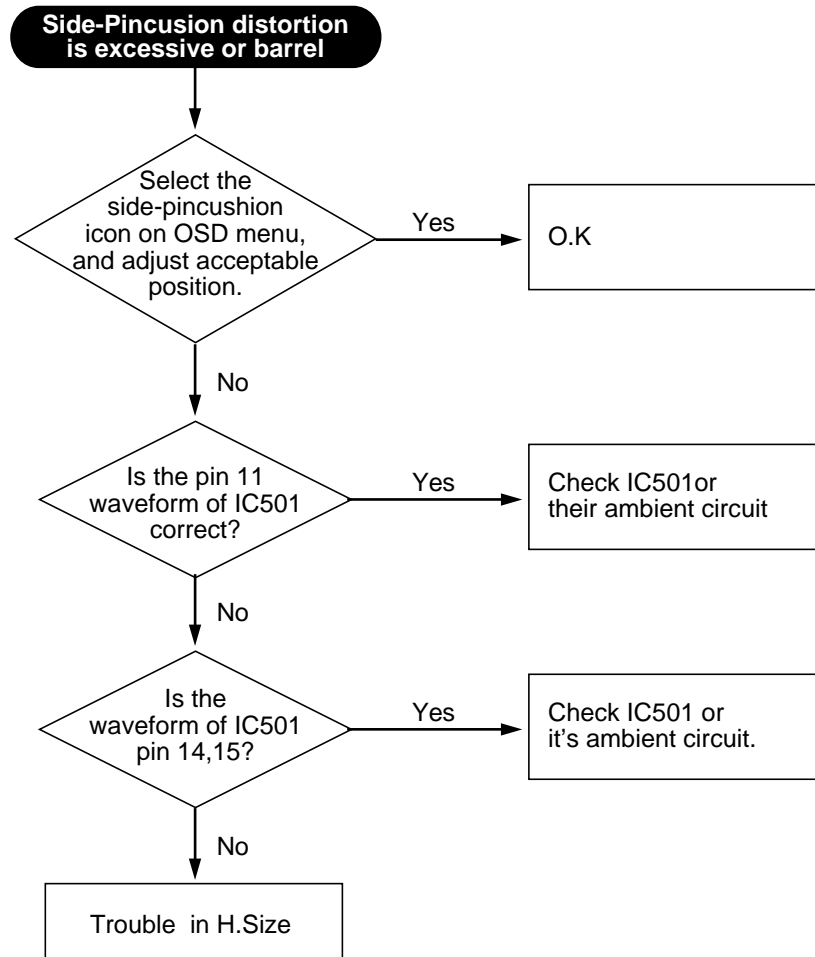


Refer to V.OSC/Deflection circuit

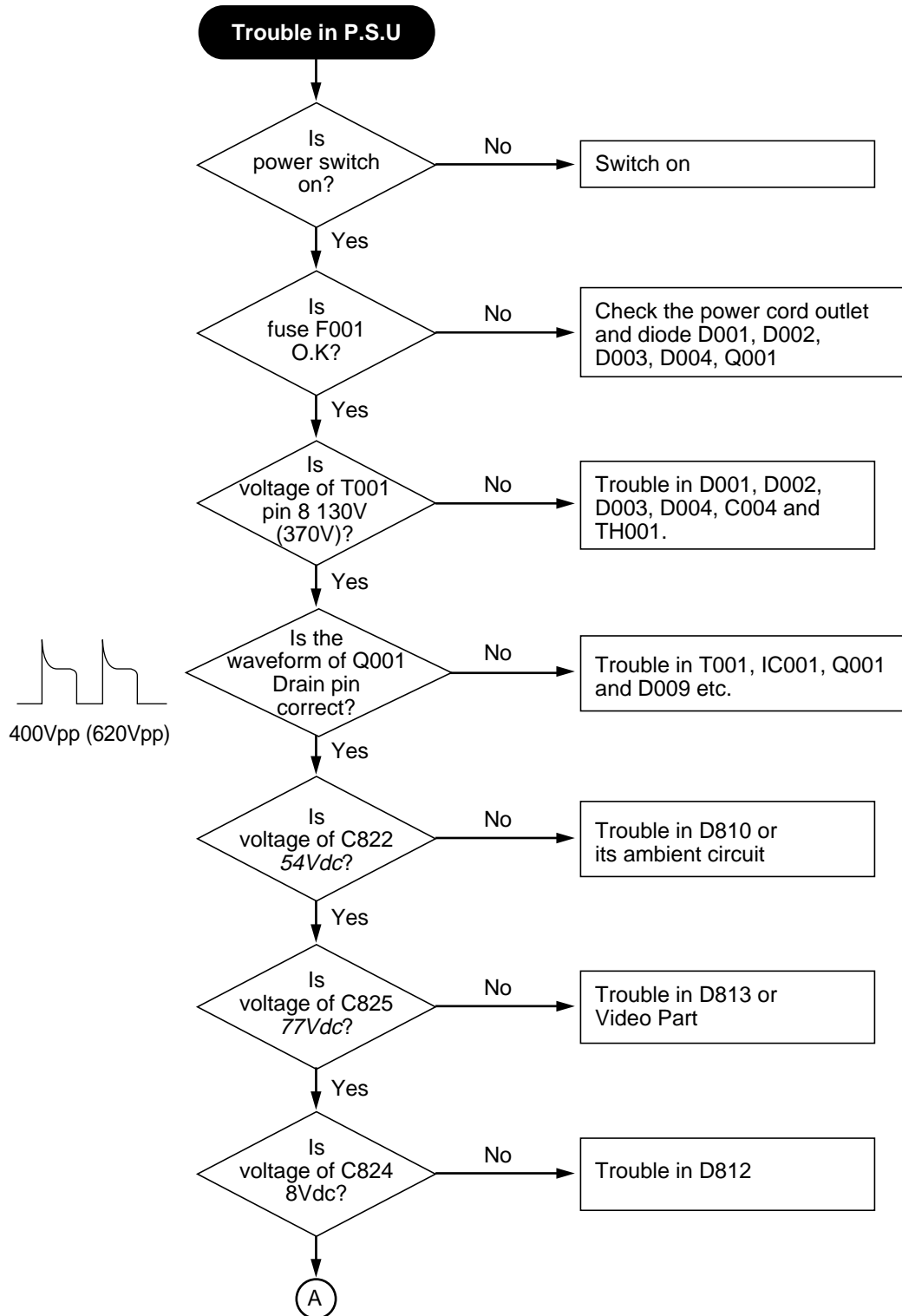
9. High Voltage Output Circuit

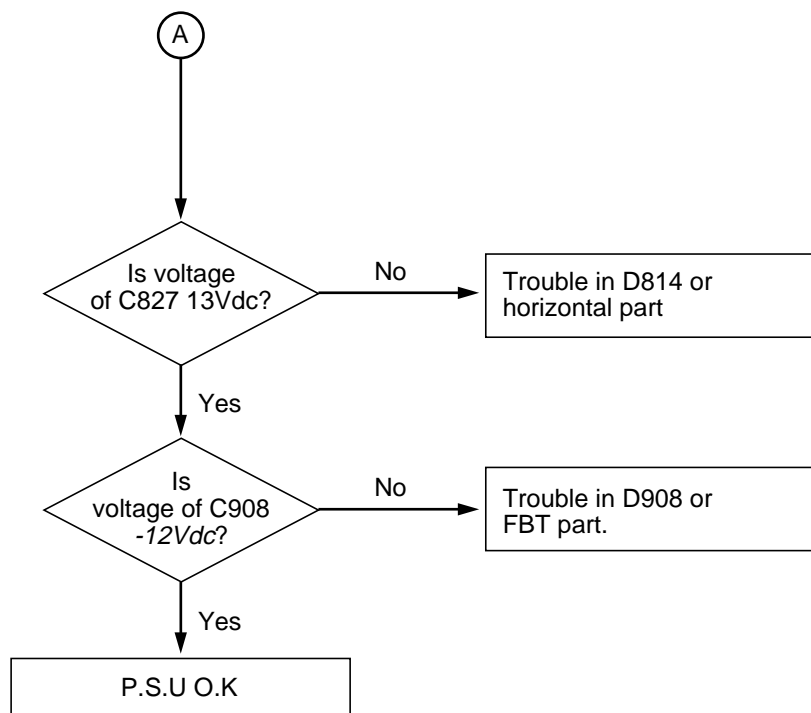


10. Side-Pincushion Circuit



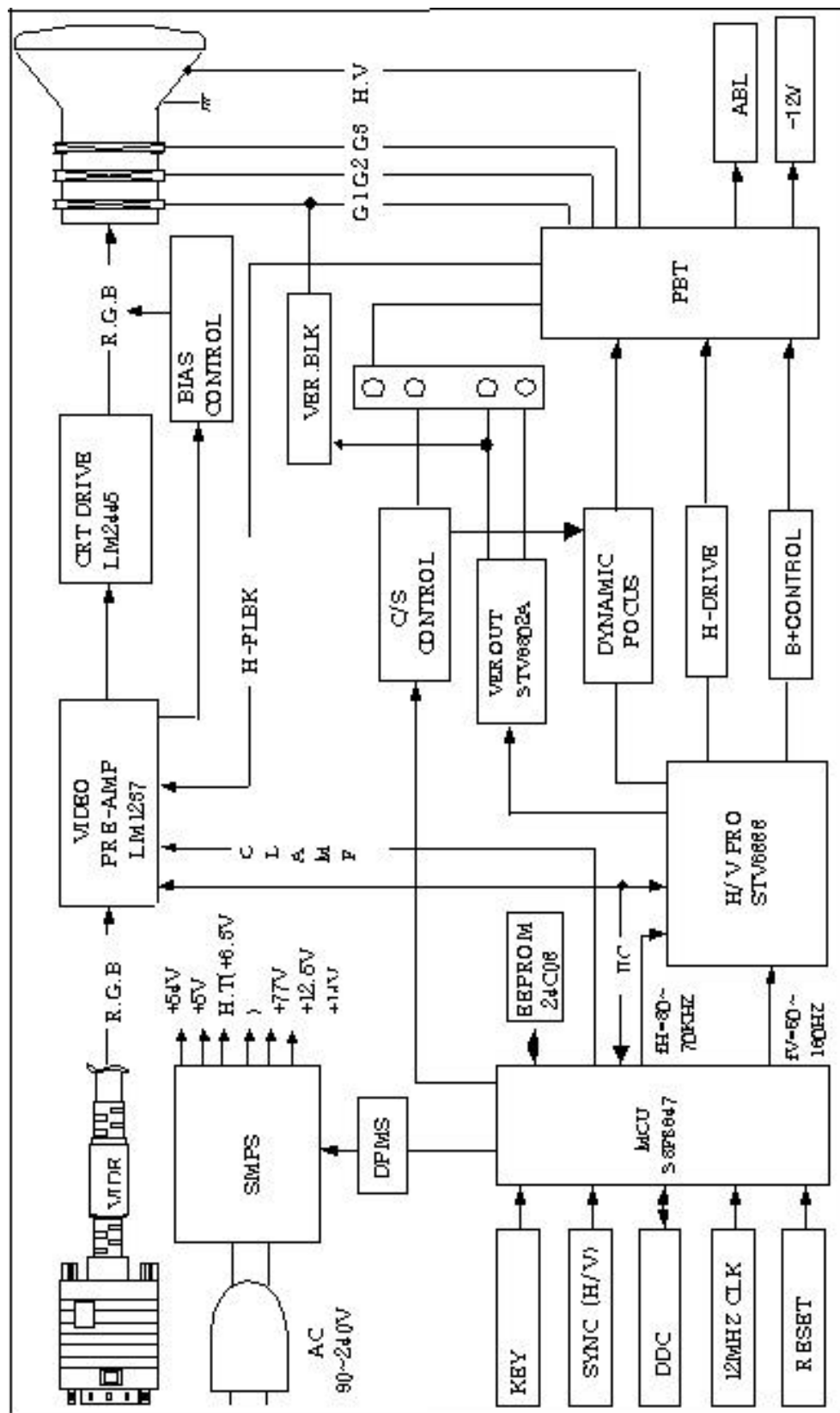
11. Power Supply Unit (P.S.U)





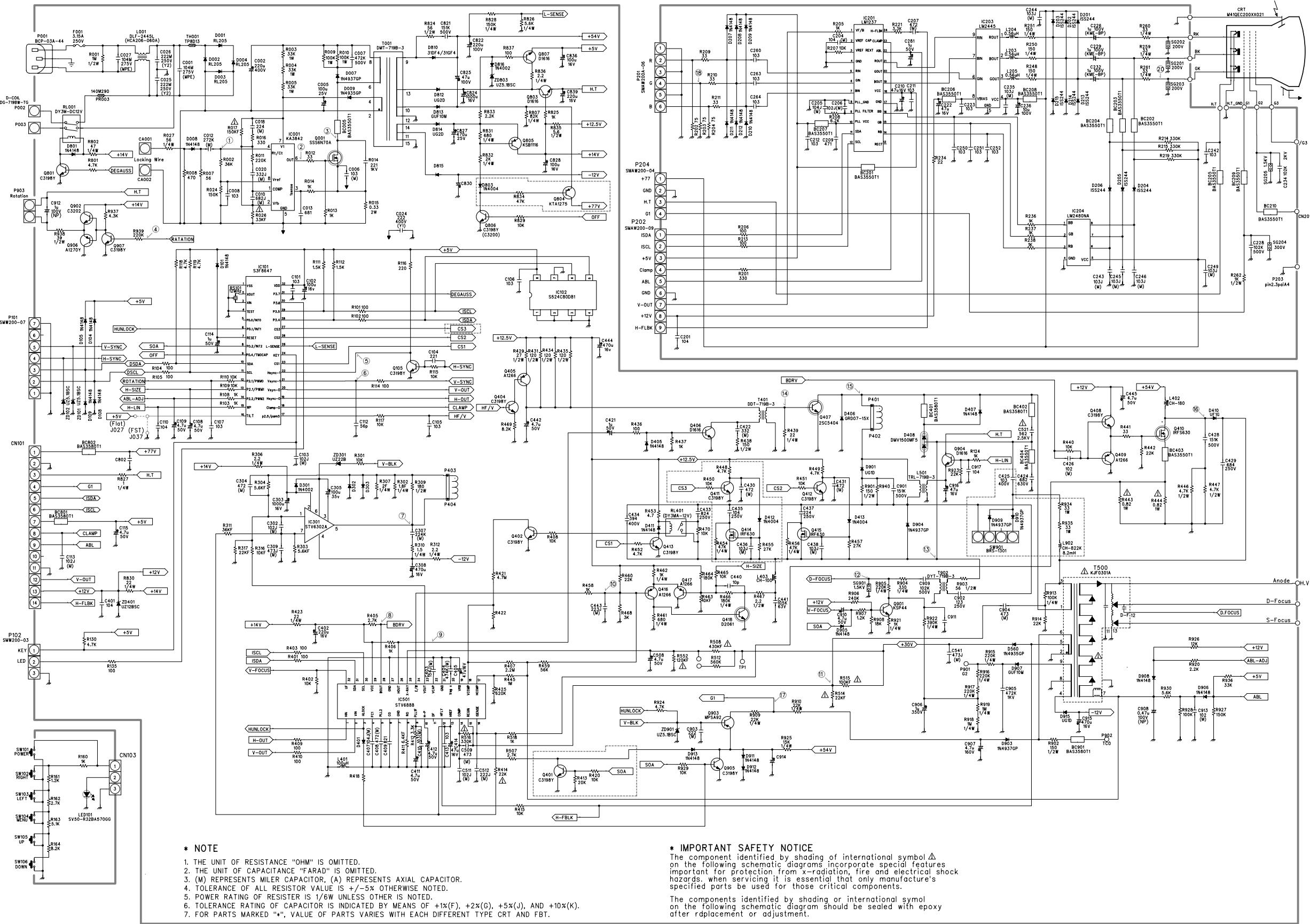
BLOCK DIAGRAM

719B-3/719BF-3



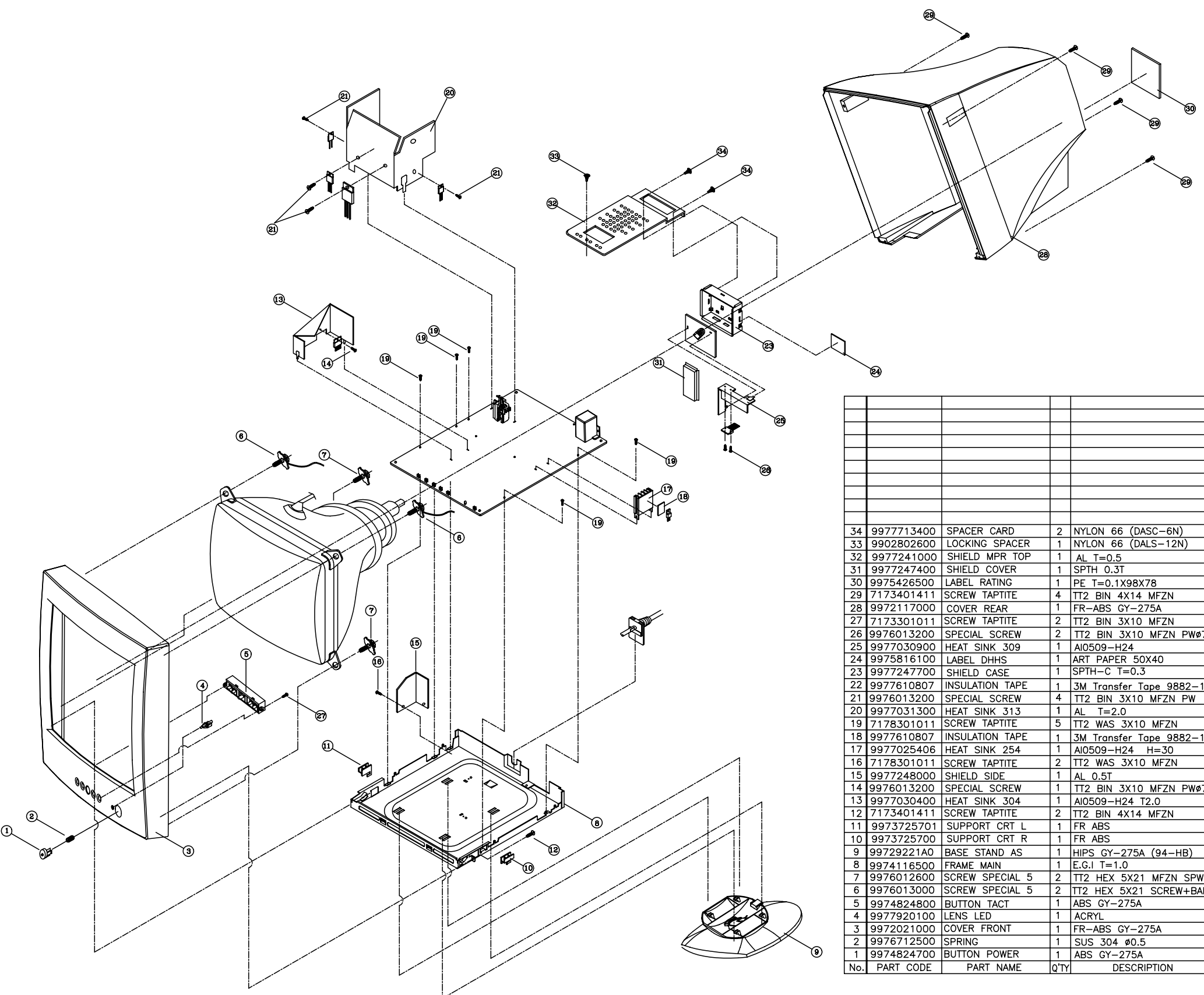
SCHEMATIC DIAGRAM

719B-3/719BF-3



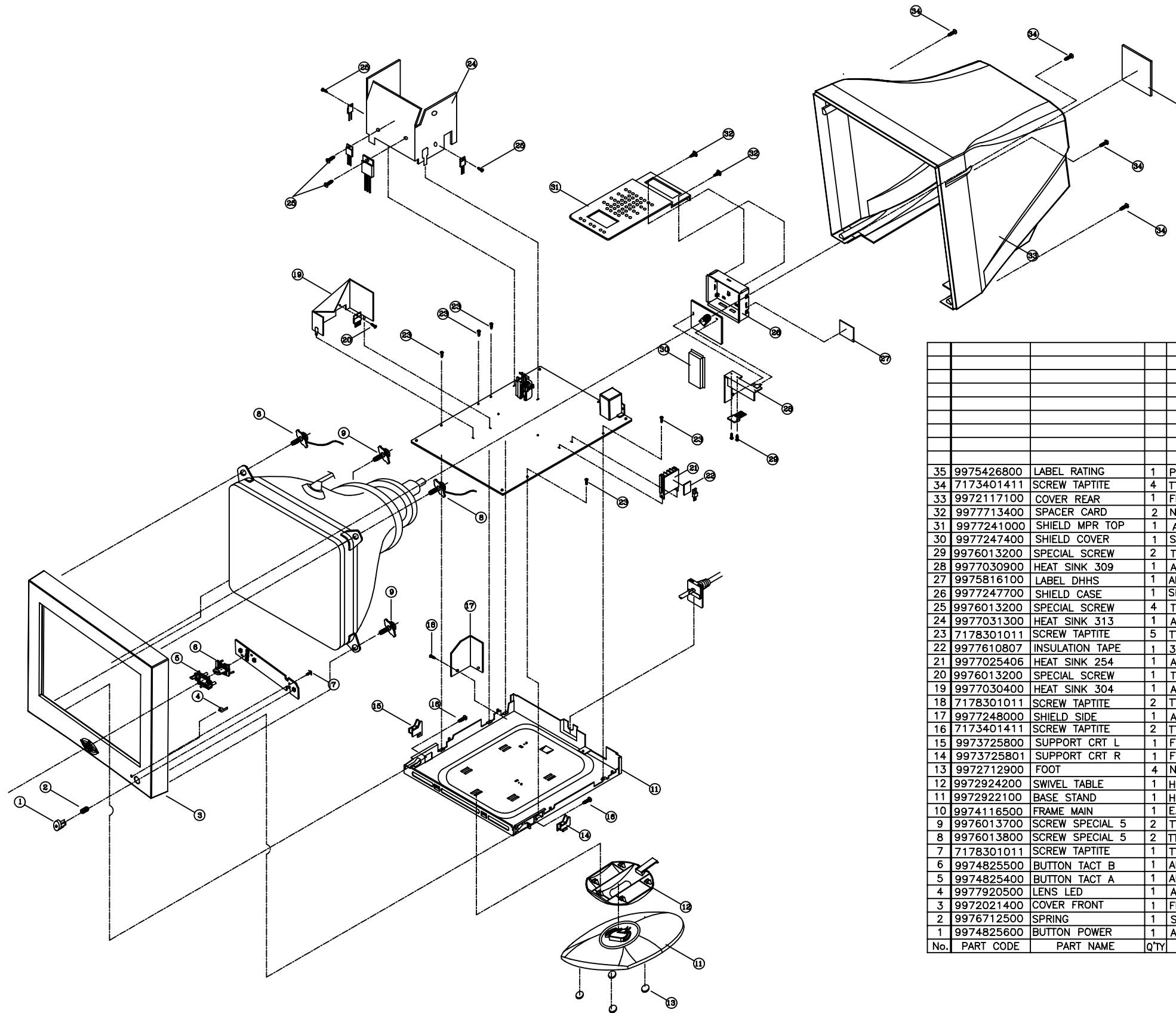
EXPLODED VIEW & MECHANICAL PARTS LIST

719B-3



No.	PART CODE	PART NAME	Q'TY	DESCRIPTION	REMARK
34	9977713400	SPACER CARD	2	NYLON 66 (DASC-6N)	
33	9902802600	LOCKING SPACER	1	NYLON 66 (DALS-12N)	
32	9977241000	SHIELD MPR TOP	1	AL T=0.5	
31	9977247400	SHIELD COVER	1	SPTH 0.3T	
30	9975426500	LABEL RATING	1	PE T=0.1X98X78	
29	7173401411	SCREW TAPTITE	4	TT2 BIN 4X14 MFZN	FRONT+REAR
28	9972117000	COVER REAR	1	FR-ABS GY-275A	
27	7173301011	SCREW TAPTITE	2	TT2 BIN 3X10 MFZN	FRONT+BUTTON TACT
26	9976013200	SPECIAL SCREW	2	TT2 BIN 3X10 MFZN PW#7	+ H/S 309
25	9977030900	HEAT SINK 309	1	AI0509-H24	
24	9975816100	LABEL DHHS	1	ART PAPER 50X40	
23	9977247700	SHIELD CASE	1	SPTH-C T=0.3	
22	9977610807	INSULATION TAPE	1	3M Transfer Tape 9882-1	+ H/S 254
21	9976013200	SPECIAL SCREW	4	TT2 BIN 3X10 MFZN PW	+ H/S 306
20	9977031300	HEAT SINK 313	1	AL T=2.0	
19	7178301011	SCREW TAPTITE	5	TT2 WAS 3X10 MFZN	MAIN PCB+FRAME MAIN
18	9977610807	INSULATION TAPE	1	3M Transfer Tape 9882-1	+ H/S 254
17	9977025406	HEAT SINK 254	1	AI0509-H24 H=30	
16	7178301011	SCREW TAPTITE	2	TT2 WAS 3X10 MFZN	SHIELD SIDE+FRAME MAIN
15	9977248000	SHIELD SIDE	1	AL 0.5T	
14	9976013200	SPECIAL SCREW	1	TT2 BIN 3X10 MFZN PW#7	+ H/S 304
13	9977030400	HEAT SINK 304	1	AI0509-H24 T2.0	
12	7173401411	SCREW TAPTITE	2	TT2 BIN 4X14 MFZN	FRONT+FRAME
11	9973725701	SUPPORT CRT L	1	FR ABS	
10	9973725700	SUPPORT CRT R	1	FR ABS	
9	99729221A0	BASE STAND AS	1	HIPS GY-275A (94-HB)	
8	9974116500	FRAME MAIN	1	E.G.I T=1.0	
7	9976012600	SCREW SPECIAL 5	2	TT2 HEX 5X21 MFZN SPW	CRT+FRONT
6	9976013000	SCREW SPECIAL 5	2	TT2 HEX 5X21 SCREW+BAND	CRT+FRONT D-COIL WIRE
5	9974824800	BUTTON TACT	1	ABS GY-275A	
4	9977920100	LENS LED	1	ACRYL	
3	9972021000	COVER FRONT	1	FR-ABS GY-275A	
2	9976712500	SPRING	1	SUS 304 #0.5	
1	9974824700	BUTTON POWER	1	ABS GY-275A	
No.	PART CODE	PART NAME	Q'TY	DESCRIPTION	REMARK

719BF-3



35	9975426800	LABEL RATING	1	PE T=0.1X98X78	
34	7173401411	SCREW TAPTITE	4	TT2 BIN 4X14 MFZN	FRONT+REAR
33	9972117100	COVER REAR	1	FR-ABS GY-275A	
32	9977713400	SPACER CARD	2	NYLON 66 (DASC-6N)	
31	9977241000	SHIELD MPR TOP	1	AL T=0.5	
30	9977247400	SHIELD COVER	1	SPTH 0.3T	
29	9976013200	SPECIAL SCREW	2	TT2 BIN 3X10 MFZN PWØ7	+ H/S 309
28	9977030900	HEAT SINK 309	1	AI0509-H24	
27	9975816100	LABEL DHHS	1	ART PAPER 50X40	
26	9977247700	SHIELD CASE	1	SPTH-C T=0.3	
25	9976013200	SPECIAL SCREW	4	TT2 BIN 3X10 MFZN PW	+ H/S 313
24	9977031300	HEAT SINK 313	1	AL T=2.0	
23	7178301011	SCREW TAPTITE	5	TT2 WAS 3X10 MFZN	MAIN PCB+FRAME MAIN
22	9977610807	INSULATION TAPE	1	3M Transfer Tape 9882-1	+ H/S 254
21	9977025406	HEAT SINK 254	1	AI0509-H24 H=30	
20	9976013200	SPECIAL SCREW	1	TT2 BIN 3X10 MFZN PWØ7	+ H/S 304
19	9977030400	HEAT SINK 304	1	AI0509-H24 T2.0	
18	7178301011	SCREW TAPTITE	2	TT2 WAS 3X10 MFZN	SHIELD SIDE+FRAME MAIN
17	9977248000	SHIELD SIDE	1	AL 0.5T	
16	7173401411	SCREW TAPTITE	2	TT2 BIN 4X14 MFZN	FRONT+FRAME
15	9973725800	SUPPORT CRT L	1	FR-ABS	
14	9973725801	SUPPORT CRT R	1	FR-ABS	
13	9972712900	FOOT	4	NBR BLACK	
12	9972924200	SWIVEL TABLE	1	HIPS GY-275A (94-HB)	
11	9972922100	BASE STAND	1	HIPS GY-275A (94-HB)	
10	9974116500	FRAME MAIN	1	E.G.I T=1.0	
9	9976013700	SCREW SPECIAL 5	2	TT2 HEX 5X21 MFZN SPW	CRT+FRONT
8	9976013800	SCREW SPECIAL 5	2	TT2 HEX 5X21 SCREW+BAND	CRT+FRONT D-COIL WIRE
7	7178301011	SCREW TAPTITE	1	TT2 WAS 3X10 MFZN	CONTROL PCB+FRONT
6	9974825500	BUTTON TACT B	1	ABS GY-275A	
5	9974825400	BUTTON TACT A	1	ABS GY-275A	SILVER SPRAY
4	9977920500	LENS LED	1	ACRYL	
3	9972021400	COVER FRONT	1	FR-ABS GY-275A	
2	9976712500	SPRING	1	SUS 304 Ø0.5	
1	9974825600	BUTTON POWER	1	ABS GY-275A	
No.	PART CODE	PART NAME	Q'TY	DESCRIPTION	REMARK

INFORMATION OF PART DESCRIPTION

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	$\pm 1\%$
J	$\pm 5\%$
K	$\pm 10\%$
M	$\pm 20\%$
G	$\pm 2\%$

Example:

Fig & Index	Part No	Description
R101	Resistors	
	RD-4Z820J	Carbon: 82J
R102	RD-4Z201J	Carbon 1/4W-200J

CAPACITOR Description

Allowance	
C	$\pm 0.25\text{pF}$
D	$\pm 0.5\%$
F	$\pm 1\text{pF}$
J	$\pm 5\%$
K	$\pm 10\%$
P	$\pm 100\% \sim 0\%$
Z	$\pm 80\% \sim -$

Example:

Fig & Index	Part No	Description
C102	Capacitors	
	CCXF1H104Z	Ceramic 50V 0.1 μF Z
	CCXB1H331K	Ceramic 50V 330PF K
C105	CMXM 2A224J	MYLAR 100V 0.22 μF J

ELECTRICAL PARTS LIST

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

◆ Parts List for 719B-3

LOC	PART-CODE	PART-NAME	PART-DESC	LOC	PART-CODE	PART-NAME	PART-DESC
BC005	5PB13857—	COIL BEAD	BI3857(AXIAL)	C113	CMXM2A102J	C MYLAR	100V 1000PF J (TP)
BC201	5PB13857—	COIL BEAD	BI3857(AXIAL)	C114	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP
BC202	5PB13857—	COIL BEAD	BI3857(AXIAL)	C115	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP
BC203	5PB13857—	COIL BEAD	BI3857(AXIAL)	C204	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
BC204	5PB13857—	COIL BEAD	BI3857(AXIAL)	C205	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)
BC205	5PB13857—	COIL BEAD	BI3857(AXIAL)	C206	CMXM2A102J	C MYLAR	100V 1000PF J (TP)
BC206	5PB13857—	COIL BEAD	BI3857(AXIAL)	C207	CMXM2A472J	C MYLAR	100V 4700PF J (TP)
BC207	5PB13857—	COIL BEAD	BI3857(AXIAL)	C209	CCXB1H471K	C CERA	50V B 470PF K (TAPPING)
BC208	5PB13857—	COIL BEAD	BI3857(AXIAL)	C210	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP
BC209	5PB13857—	COIL BEAD	BI3857(AXIAL)	C211	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)
BC210	5PB13857—	COIL BEAD	BI3857(AXIAL)	C212	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)
BC401	5PB13890—	COIL BEAD	BI3890	C222	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP
BC402	5PB13890—	COIL BEAD	BI3890	C223	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)
BC403	5PB13857—	COIL BEAD	BI3857(AXIAL)	C226	CEXD2A109F	C ELECTRO	100V RND 1MF(5*11) TP
BC404	5PB13857—	COIL BEAD	BI3857(AXIAL)	C228	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)
BC801	5PB13890—	COIL BEAD	BI3890	C229	CEXD2A109F	C ELECTRO	100V RND 1MF(5*11) TP
BC802	5PB13890—	COIL BEAD	BI3890	C232	CEXD2A109F	C ELECTRO	100V RND 1MF(5*11) TP
BC901	5PB13890—	COIL BEAD	BI3890	C234	CCXB3D102K	C CERA	2KV B 1000PF K (TAPPING)
\triangle C001	CL1UC3104M	C LINE ACROSS	WORLD AC250V 0.1UF M R.47	C235	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)
C002	CEYP2G221Z	C ELECTRO	400V SMH 220MF (25.4*40)	C236	CEXF2A100V	C ELECTRO	100V RSS 10MF (6.3X11) TP
C005	CEXF1E101V	C ELECTRO	25V RSS 100MF (6.3X11) TP	C242	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)
C006	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)	C243	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)
C007	CCXB2H472K	C CERA	500V B 4700PF K (TAPPING)	C244	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)
C008	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)	C245	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)
C010	CMXM2A682J	C MYLAR	100V 6800PF J (TP)	C246	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)
C012	CMXM2A272J	C MYLAR	100V 2700PF J (TP)	C249	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)
C013	CCXB1H681K	C CERA	50V B 680PF K (TAPPING)	C250	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)
C014	CCXB3A221K	C CERA	1KV B 220PF K (TAPPING)	C251	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)
C018	CMXM2A224J	C MYLAR	100V 0.22MF J	C252	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)
C020	CMXM2A332J	C MYLAR	100V 3300PF J (TP)	C260	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)
C024	CH1FDF222M	C CERA AC	2.5KV 2200PF M AC250V	C263	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)
\triangle C025	CH1FDF222M	C CERA AC	2.5KV 2200PF M AC250V	C264	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)
\triangle C026	CH1FDF222M	C CERA AC	2.5KV 2200PF M AC250V	C281	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP
\triangle C027	CL1UC3104M	C LINE ACROSS	WORLD AC250V 0.1UF M R.47	C302	CMXM2A102J	C MYLAR	100V 1000PF J (TP)
C101	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)	C303	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP
C102	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	C304	CMXM2A472J	C MYLAR	100V 4700PF J (TP)
C103	CMXM2A102J	C MYLAR	100V 1000PF J (TP)	C305	CEXF1V101V	C ELECTRO	35V RSS 100MF (8X11.5) TP
C104	CCXB1H221K	C CERA	50V B 220PF K (TAPPING)	C307	CMXM2A224J	C MYLAR	100V 0.22MF J
C105	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)	C308	CEXF1C471V	C ELECTRO	16V RSS 470MF (8X12)TP
C106	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)	C309	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)
C107	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)	C401	CCXF1H104Z	C CERA	50V F 0.1MF Z
C108	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	C402	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP
C109	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	C403	CMXM2A154J	C MYLAR	100V 0.15MF J (TP)
C110	CCXF1H104Z	C CERA	50V F 0.1MF Z	C404	CMXL1J474J	C MYLAR	63V MEU 0.47MF J
C112	CXCH1H560J	C CERA	50V CH 56PF J (TAPPING)	C405	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP

ELECTRICAL PARTS LIST

LOC	PART-CODE	PART-NAME	PART-DESC	LOC	PART-CODE	PART-NAME	PART-DESC
C407	CMXM2A104J	C MYLAR	100V 0.1MF J (TP)	C913	CMXM2A102J	C MYLAR	100V 1000PF J (TP)
C408	CMXM2A472J	C MYLAR	100V 4700PF J (TP)	C915	CEXF1C471V	C ELECTRO	16V RSS 470MF (8X12)TP
C409	CMXD2A821J	C MYLAR	KD 100V 820PF J	C916	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP
C410	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)	C917	CCXF1H104Z	C CERA	50V F 0.1MF Z
C411	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	CDT	9979617037	CDT	M41KXU100XX021 (5X10(5))
C412	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	CGND	9970710289	CRT GND AS	0.12*16*5+BL101+1015#22=730
C413	CCXF1H103Z	C CERA	50V F 0.01MF Z (TAPPING)	CN101	99707D0007	CONN AS	SMH200-09/04+YBNH200-14+CORE+1007#26=260
C414	CEXF1C470V	C ELECTRO	16V RSS 47MF (5X11) TP	CN201	9970710288	CONN ASS'Y	101R+1310+CORE+1032#22=250
C421	CEXF1H109V	C ELECTRO	50V RSS 1MF (5X11) TP	⚠ D001	DRL205—	DIODE	RL205
C422	CMXM2A332J	C MYLAR	100V 3300PF J (TP)	⚠ D002	DRL205—	DIODE	RL205
C424	CMXE2J682J	C MYLAR	PL 630V 6800PF J (TP)	⚠ D003	DRL205—	DIODE	RL205
C426	CMXM2A102J	C MYLAR	100V 1000PF J (TP)	⚠ D004	DRL205—	DIODE	RL205
C428	CCXB2H151K	C CERA	500V B 150PF K (TAPPING)	D007	D1N4937GP-	DIODE	1N4937GP (TAPPING)
C429	CMYF2E684J	C MYLAR	250V MPP 0.68MF J	D008	DZN4148—	DIODE	1N4148 AUTO 52MM
C431	CMXM2A472J	C MYLAR	100V 4700PF J (TP)	D009	D1N4935GP-	DIODE	1N4935GP
C433	CMYF2E105J	C MYLAR	MPP 250V 1MF J	D101	DZN4148—	DIODE	1N4148 AUTO 52MM
C434	CMXF2G394J	C MYLAR	MPP 400V 0.39MF J	D104	DZN4148—	DIODE	1N4148 AUTO 52MM
C437	CMXF2E224J	C MYLAR	MPP 250V 0.22MF J	D105	DZN4148—	DIODE	1N4148 AUTO 52MM
C438	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)	D108	DZN4148—	DIODE	1N4148 AUTO 52MM
C440	CXCH1H100D	C CERA	50V CH 10PF D (TAPPING)	D109	DZN4148—	DIODE	1N4148 AUTO 52MM
C441	CMXL1J105J	C MYLAR	63V MEU 1MF J	D201	DBAV20—	DIODE	BAV20
C442	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	D202	DBAV20—	DIODE	BAV20
C443	CMXM2A223J	C MYLAR	100V 0.022MF J TP	D203	DBAV20—	DIODE	BAV20
C444	CEXF1C471V	C ELECTRO	16V RSS 470MF (8X12)TP	D204	DBAV20—	DIODE	BAV20
C445	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	D205	DBAV20—	DIODE	BAV20
C508	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	D206	DBAV20—	DIODE	BAV20
C509	CMXM2A103J	C MYLAR	100V 0.01MF J (TP)	D207	DZN4148—	DIODE	1N4148 AUTO 52MM
C511	CMXM2A102J	C MYLAR	100V 1000PF J (TP)	D208	DZN4148—	DIODE	1N4148 AUTO 52MM
C512	CMXM2A222J	C MYLAR	100V 2200PF J (TP)	D209	DZN4148—	DIODE	1N4148 AUTO 52MM
⚠ C521	CMYH3E562J	C MYLAR	BUP 2.5KV 5600PF J BULK	D210	DZN4148—	DIODE	1N4148 AUTO 52MM
C541	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)	D211	DZN4148—	DIODE	1N4148 AUTO 52MM
C821	CCXB2H151K	C CERA	500V B 150PF K (TAPPING)	D212	DZN4148—	DIODE	1N4148 AUTO 52MM
C822	CEXF2A221V	C ELECTRO	100V RSS 220MF (16X25) TP	D213	DBAV20—	DIODE	BAV20
C824	CEXF1C102V	C ELECTRO	16V RSS 1000MF (10X20) TP	D214	DBAV20—	DIODE	BAV20
C825	CEXF2A470V	C ELECTRO	100V RSS 47MF (10X16) TP	D215	DBAV20—	DIODE	BAV20
C827	CEXF1E471V	C ELECTRO	25V RSS 470MF (10X16) TP	D301	D1N4002A—	DIODE	1N4002
C828	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	D405	DZN4148—	DIODE	1N4148 AUTO 52MM
C836	CEXF1C101V	C ELECTRO	16V RSS 100MF (6.3X11) TP	D406	DERD07-15-	DIODE	ERD07-15
C839	CEXF1C221V	C ELECTRO	16V RSS 220MF (8X11.5) TP	D407	DZN4148—	DIODE	1N4148 AUTO 52MM
C901	CCXB2H151K	C CERA	500V B 150PF K (TAPPING)	D408	DDMV1500L-	DIODE	DMV-1500L
C902	CMXE2E123J	C MYLAR	PL 250V 0.012MF J	D410	DUF1G—	DIODE	UF1G
C903	CMXM2A222J	C MYLAR	100V 2200PF J (TP)	D411	DZN4148—	DIODE	1N4148 AUTO 52MM
C904	CMXM2A473J	C MYLAR	100V 0.047MF J (TP)	D413	D1N4004—	DIODE	1N4004
C905	CCXB3A472K	C CERA	1KV B 4700PF K (TAPPING)	D560	D1N4935GP-	DIODE	1N4935GP
C906	CEXF2V109V	C ELECTRO	350V RSS 1MF (8*11.5)	D801	DZN4148—	DIODE	1N4148 AUTO 52MM
C907	CEXF2C479V	C ELECTRO	160V RSS 4.7MF (8X16) TP	D803	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
C908	CEXD1H478F	C ELECTRO	50V RND 0.47MF (5X11) TP	⚠ D810	D31DF4—	DIODE	31DF4
C909	CCXB2H102K	C CERA	500V B 1000PF K (TAPPING)	⚠ D812	DUG2D—	DIODE	UG2D 200V 2A
C910	CEXF1H479V	C ELECTRO	50V RSS 4.7MF (5X11) TP	⚠ D813	DGUF10M—	DIODE	GUF10M

ELECTRICAL PARTS LIST

LOC	PART-CODE	PART-NAME	PART-DESC	LOC	PART-CODE	PART-NAME	PART-DESC
△ D814	DUG2D—	DIODE	UG2D 200V 2A	J021	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
D816	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J022	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
D901	DUG1D—	DIODE	UG1D	J023	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
D903	D1N4937GP-	DIODE	1N4937GP (TAPPING)	J024	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
D904	D1N4937GP-	DIODE	1N4937GP (TAPPING)	J025	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
D905	DZN4148—	DIODE	1N4148 AUTO 52MM	J026	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
D906	DZN4148—	DIODE	1N4148 AUTO 52MM	J028	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
D907	DRP1H—	DIODE	RP1H	J029	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
D908	DZN4148—	DIODE	1N4148 AUTO 52MM	J030	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
D911	DZN4148—	DIODE	1N4148 AUTO 52MM	J031	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
D912	DZN4148—	DIODE	1N4148 AUTO 52MM	J032	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
D913	DZN4148—	DIODE	1N4148 AUTO 52MM	J033	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
D915	DUG1D—	DIODE	UG1D	J034	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
DG001	5MG0000071	COIL DEGAUSSING	DG-719BW-TG	J035	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
E1	9977916901	EYE LET	BSR T0.2 (R2.0)	J036	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
E2	9977916901	EYE LET	BSR T0.2 (R2.0)	J037	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
E3	9977916901	EYE LET	BSR T0.2 (R2.0)	J039	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
E4	9977916901	EYE LET	BSR T0.2 (R2.0)	J040	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
E5	9977916901	EYE LET	BSR T0.2 (R2.0)	J041	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
EMI1	9970710291	CONN AS	0.12*3*16(P)+35072-9712+250REC-1=130	J042	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
EMI2	9970710292	CONN AS	0.12*3*16(P)+35072-0910=110	J043	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
EMI4	9970710279	CONN AS	35068-9812+0.16*3*16+35072-9712=200	J044	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
△ F001	5FSPS3152L	FUSE	SR-5 3.15A 250V (RADIAL)	J045	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
IC001	1KA3842B—	IC POWER	KA3842B	J046	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
IC101	1S3F8647—	IC MICOM	S3F8647	J047	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
IC102	1CAT24WC8P	IC EEPROM	CAT24WC08P	J048	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
△ IC201	1LM12371—	IC VIDEO PREAMP	LM1237 BDBC/NA	J050	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
IC203	1LM2445—	IC VIDEO OUTPUT	LM2445	J051	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
IC204	1LM2480—	IC VIDEO CLAMP	LM2480	J052	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
IC301	1STV9302A-	IC V-OUT	STV9302A	J053	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
△ IC501	1STV6888—	IC H-OSC	STV6888	J054	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J001	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J055	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J002	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J056	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J003	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J057	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J004	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J058	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J005	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J059	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J007	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J060	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J008	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J061	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J009	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J063	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J010	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J064	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J011	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J065	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J012	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J066	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J013	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J067	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J014	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J068	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J016	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J069	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J017	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J201	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J018	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J202	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J019	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J203	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING
J020	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	J204	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING

ELECTRICAL PARTS LIST

LOC	PART-CODE	PART-NAME	PART-DESC	LOC	PART-CODE	PART-NAME	PART-DESC
J205	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Q418	TKTD2061—	TR	KTD2061
J206	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Q801	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)
J207	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Q803	TKSD1616Y-	TR	KSD1616Y
J208	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Q805	TKSB1116Y-	TR	KSB1116Y
J209	85801065GY	WIRE COPPER	AWG22 1/0.65 TIN COATING	Q806	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)
△ L001	5PDLF2445L	FILTER LINE	DLF-2445L	Q807	TKSD1616Y-	TR	KSD1616Y
L203	5CPZ568K03	COIL PEAKING	0.56UH K (AXIAL 7MM)	Q901	TKSP44—	TR	KSP44
L204	5CPZ568K03	COIL PEAKING	0.56UH K (AXIAL 7MM)	Q903	TMPSA92—	TR	MPSA92
L205	5CPZ568K03	COIL PEAKING	0.56UH K (AXIAL 7MM)	Q904	TKSD1616Y-	TR	KSD1616Y
L401	5CPZ101K03	COIL PEAKING	100UH K (AXIAL 7MM)	Q905	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)
L402	5MC0000100	COIL CHOKE	CH-180	△ R001	RD-2Z105J-	R CARBON FILM	1/2 1M OHM J
L403	5MC0000104	COIL CHOKE	CH-100	R002	RD-AZ363J-	R CARBON FILM	1/6 36K OHM J
L901	5MH0000094	COIL H-LINEARITY	TRL-719B-3	R003	RS01Z333JS	R M-OXIDE FILM	1W 33K OHM J SMALL
LED01	DSV50G—	LED	SV50-R32BA570GG(GREEN)	R004	RS01Z333JS	R M-OXIDE FILM	1W 33K OHM J SMALL
MEI3	9970710293	CONN AS	1015#22+CLIP=100/50/65	R005	RS01Z333JS	R M-OXIDE FILM	1W 33K OHM J SMALL
△ P001	9979200320	SOCKET AC INLET	BCP-03A-44	R007	RD-AZ560J-	R CARBON FILM	1/6 56 OHM J
P002	9976411500	PIN B	DA-IB0214(D2.3/DY PIN)	R008	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J
P003	9976411500	PIN B	DA-IB0214(D2.3/DY PIN)	R009	RS01Z104JS	R M-OXIDE FILM	1W 100K OHM J SMALL
P101	9979220102	CONN WAFER	SMW200-07/68162-0710	R010	RS01Z104JS	R M-OXIDE FILM	1W 100K OHM J SMALL
P102	9979220098	CONN WAFER	SMW200-03/68162-0310	R011	RD-AZ224J-	R CARBON FILM	1/6 220K OHM J
P201	9979220087	CONN WAFER	SMAW200-06/68163-0610	R012	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J
P202	9979220090	CONN WAFER	SMAW200-09/68163-0910	R013	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
P203	9976411500	PIN B	DA-IB0214(D2.3/DY PIN)	R014	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
P204	9979220085	CONN WAFER	SMAW200-04/68163-0410	R015	RS02Z338JS	R M-OXIDE FILM	2W 0.33 OHM J SMALL
P401	9976411500	PIN B	DA-IB0214(D2.3/DY PIN)	R016	RD-AZ331J-	R CARBON FILM	1/6 330 OHM J
P402	9976411500	PIN B	DA-IB0214(D2.3/DY PIN)	△ R017	RN-AZ1503F	R METAL FILM	1/6 150K OHM F
P403	9976411500	PIN B	DA-IB0214(D2.3/DY PIN)	R024	RD-AZ154J-	R CARBON FILM	1/6 150K OHM J
P404	9976411500	PIN B	DA-IB0214(D2.3/DY PIN)	△ R026	RN-AZ3302F	R METAL FILM	1/6 33K OHM F
P901	9976411500	PIN B	DA-IB0214(D2.3/DY PIN)	R027	RD-4Z560J-	R CARBON FILM	1/4 56 OHM J
P902	9976411500	PIN B	DA-IB0214(D2.3/DY PIN)	R101	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
P902A	9970710286	CONN AS	101R+1015#18=400	R102	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
PCB1	9979800608	PCB MAIN	T=1.6*246*247	R103	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
PCB2	9979800609	PCB CRT	T=1.6*94*110	R104	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
△ PR003	DECPAC140M	POSISTOR	ECPAC140M290	R105	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
△ Q001	TSSS6N70A-	FET	SSS6N70A	R108	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
Q105	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	R109	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
Q402	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	R110	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
Q404	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	R111	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J
Q405	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	R112	RD-AZ152J-	R CARBON FILM	1/6 1.5K OHM J
Q406	TKSD1616Y-	TR	KSD1616Y	R114	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
△ Q407	T2SC5404—	TR H-OUTPUT	T2SC5404	R115	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
Q408	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	R116	RD-AZ221J-	R CARBON FILM	1/6 220 OHM J
Q409	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	R117	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
△ Q410	T1RFS630B-	FET	IRFS630B	R118	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
Q412	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	R119	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
Q413	TZTC3198Y-	TRANSISTOR	KTC3198Y-(1815Y) (AUTO)	R124	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
Q415	T1RF630B—	FET	IRF630B	R130	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
Q416	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	R135	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
Q417	TZTA1266Y-	TR	KTA1266Y- (AUTO)(1015Y)	R160	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J

ELECTRICAL PARTS LIST

LOC	PART-CODE	PART-NAME	PART-DESC	LOC	PART-CODE	PART-NAME	PART-DESC
R161	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J	R408	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R162	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J	R409	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R163	RD-AZ512J-	R CARBON FILM	1/6 5.1K OHM J	R410	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R164	RD-AZ822J-	R CARBON FILM	1/6 8.2K OHM J	R411	RN-AZ6401F	R METAL FILM	1/6 6.4K OHM F
R201	RD-AZ331J-	R CARBON FILM	1/6 330 OHM J	R412	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J
R202	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	△ R414	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R203	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	R415	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R204	RD-AZ750J-	R CARBON FILM	1/6 75 OHM J	R421	RD-AZ475J-	R CARBON FILM	1/6 4.7M OHM J
R205	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	R423	RD-4Z220J-	R CARBON FILM	1/4 22 OHM J
R206	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	R425	RD-AZ624J-	R CARBON FILM	1/6 620K OHM J
R207	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	R429	RD-2Z270J-	R CARBON FILM	1/2 27 OHM J
R208	RD-AZ622J-	R CARBON FILM	1/6 6.2K OHM J	R431	RS01Z121JS	R M-OXIDE FILM	1W 120 OHM J SMALL
R209	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	R434	RS01Z121JS	R M-OXIDE FILM	1W 120 OHM J SMALL
R210	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	R435	RS01Z121JS	R M-OXIDE FILM	1W 120 OHM J SMALL
R211	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J	R436	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R213	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	R437	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R214	RD-AZ334J-	R CARBON FILM	1/6 330K OHM J	R438	RD-2Z151J-	R CARBON FILM	1/2 150 OHM J
R215	RD-AZ334J-	R CARBON FILM	1/6 330K OHM J	R439	RD-4Z220J-	R CARBON FILM	1/4 22 OHM J
R219	RD-AZ334J-	R CARBON FILM	1/6 330K OHM J	R440	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R221	RD-AZ332J-	R CARBON FILM	1/6 3.3K OHM J	R441	RD-AZ330J-	R CARBON FILM	1/6 33 OHM J
R234	RD-AZ220J-	R CARBON FILM	1/6 22 OHM J	R442	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R236	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	△ R443	RS01Z828JS	R M-OXIDE FILM	1W 0.82 OHM J SMALL
R237	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	△ R444	RS01Z828JS	R M-OXIDE FILM	1W 0.82 OHM J SMALL
R238	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	R445	RD-AZ105J-	R CARBON FILM	1/6 1M OHM J
R248	RD-4Z151J-	R CARBON FILM	1/4 150 OHM J	R446	RD-2Z472J-	R CARBON FILM	1/2 4.7K OHM J
R250	RD-4Z151J-	R CARBON FILM	1/4 150 OHM J	R447	RD-2Z472J-	R CARBON FILM	1/2 4.7K OHM J
R251	RD-4Z151J-	R CARBON FILM	1/4 150 OHM J	R449	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R259	RD-4Z330J-	R CARBON FILM	1/4 33 OHM J	R451	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R260	RD-4Z330J-	R CARBON FILM	1/4 33 OHM J	R452	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R261	RD-4Z330J-	R CARBON FILM	1/4 33 OHM J	R453	RD-AZ479J-	R CARBON FILM	1/6 4.7 OHM J
R262	RD-2Z102J-	R CARBON FILM	1/2 1K OHM J	R456	RD-4Z473J-	R CARBON FILM	1/4 47K OHM J
R301	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	R457	RD-AZ273J-	R CARBON FILM	1/6 27K OHM J
R302	RN-4Z1808F	R METAL FILM	1/4 1.8 OHM F	R458	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R303	RN-AZ5601F	R METAL FILM	1/6 5.6K OHM F	R459	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J
R304	RN-AZ5601F	R METAL FILM	1/6 5.6K OHM F	R460	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R306	RD-4Z229J-	R CARBON FILM	1/4 2.2 OHM J	R461	RD-4Z681J-	R CARBON FILM	1/4 680 OHM J
R307	RN-4Z2008F	R METAL FILM	1/4 2 OHM F	R462	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J
R309	RD-2Z181J-	R CARBON FILM	1/2 180 OHM J	R463	RN-AZ1002F	R METAL FILM	1/6 10K OHM F
R310	RD-4Z159J-	R CARBON FILM	1/4 1.5 OHM J	R464	RD-AZ184J-	R CARBON FILM	1/6 180K OHM J
R311	RN-AZ3602F	R METAL FILM	1/6 36.0K OHM F	R465	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R312	RD-4Z229J-	R CARBON FILM	1/4 2.2 OHM J	R466	RD-4Z184J-	R CARBON FILM	1/4 180K OHM J
R316	RN-AZ1002F	R METAL FILM	1/6 10K OHM F	R467	RD-2Z229J-	R CARBON FILM	1/2 2.2 OHM J
R317	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J	R468	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R401	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	R469	RD-AZ822J-	R CARBON FILM	1/6 8.2K OHM J
R402	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J	R470	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R403	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J	R507	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J
R405	RD-AZ272J-	R CARBON FILM	1/6 2.7K OHM J	△ R508	RN-AZ4303F	R METAL FILM	1/6 430K OHM F
R406	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J	R512	RD-AZ564J-	R CARBON FILM	1/6 560K OHM J
R407	RD-AZ225J-	R CARBON FILM	1/6 2.2M OHM J	△ R514	RN-AZ2202F	R METAL FILM	1/6 22K OHM F

ELECTRICAL PARTS LIST

LOC	PART-CODE	PART-NAME	PART-DESC
△ R515	RN-AZ1003F	R METAL FILM	1/6 100K OHM F
△ R516	RD-AZ334J-	R CARBON FILM	1/6 330K OHM J
R518	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
△ R552	RN-AZ1203F	R METAL FILM	1/6 120.0K OHM F
R801	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R802	RD-4Z470J-	R CARBON FILM	1/4 47 OHM J
R807	RD-4Z823J-	R CARBON FILM	1/4 82K OHM J
R824	RD-2Z560J-	R CARBON FILM	1/2 56 OHM J
R825	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R826	RD-4Z562J-	R CARBON FILM	1/4 5.6K OHM J
R827	RD-4Z109J-	R CARBON FILM	1/4 1 OHM J
R828	RD-4Z154J-	R CARBON FILM	1/4 150K OHM J
R829	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R830	RD-4Z220J-	R CARBON FILM	1/4 22 OHM J
R831	RD-4Z681J-	R CARBON FILM	1/4 680 OHM J
R832	RD-4Z202J-	R CARBON FILM	1/4 2K OHM J
R833	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R835	RD-2Z569J-	R CARBON FILM	1/2 5.6 OHM J
R836	RD-4Z229J-	R CARBON FILM	1/4 2.2 OHM J
R837	RD-AZ101J-	R CARBON FILM	1/6 100 OHM J
R901	RD-2Z151J-	R CARBON FILM	1/2 150 OHM J
R902	RD-2Z151J-	R CARBON FILM	1/2 150 OHM J
R903	RD-2Z560J-	R CARBON FILM	1/2 56 OHM J
R904	RD-4Z331J-	R CARBON FILM	1/4 330 OHM J
R905	RD-4Z224J-	R CARBON FILM	1/4 220K OHM J
R906	RD-AZ244J-	R CARBON FILM	1/6 240K OHM J
R907	RD-AZ122J-	R CARBON FILM	1/6 1.2K OHM J
R908	RD-AZ183J-	R CARBON FILM	1/6 18K OHM J
R909	RD-4Z223J-	R CARBON FILM	1/4 22K OHM J
R910	RD-4Z223J-	R CARBON FILM	1/4 22K OHM J
R913	RD-4Z104J-	R CARBON FILM	1/4 100K OHM J
R914	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R915	RD-4Z304J-	R CARBON FILM	1/4 300K OHM J
R916	RD-4Z224J-	R CARBON FILM	1/4 220K OHM J
R917	RD-4Z224J-	R CARBON FILM	1/4 220K OHM J
R918	RD-4Z105J-	R CARBON FILM	1/4 1M OHM J
R919	RD-4Z105J-	R CARBON FILM	1/4 1M OHM J
R920	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R921	RD-4Z102J-	R CARBON FILM	1/4 1K OHM J
R922	RD-4Z394J-	R CARBON FILM	1/4 390K OHM J
R923	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R924	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R925	RD-4Z153J-	R CARBON FILM	1/4 15K OHM J
R926	RD-AZ123J-	R CARBON FILM	1/6 12K OHM J
R927	RD-AZ154J-	R CARBON FILM	1/6 150K OHM J
R928	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J

LOC	PART-CODE	PART-NAME	PART-DESC
R929	RD-AZ103J-	R CARBON FILM	1/6 10K OHM J
R930	RD-AZ562J-	R CARBON FILM	1/6 5.6K OHM J
R936	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J
R937	RD-AZ432J-	R CARBON FILM	1/6 4.3K OHM J
RL001	5SC0101035	SW RELAY	DY3MA-DC12V 1C-1P
RL401	5SC0101035	SW RELAY	DY3MA-DC12V 1C-1P
RS101	5PZTT120MT	RESONATOR CERA	ZTT12.0MT
SC01	9970800068	CABLE SIGNAL AS	15P+2C/DDC+421C=1.5M
SG201	DWSP201M—	SURGE ABSORBER	WSP-201M
SG202	DWSP201M—	SURGE ABSORBER	WSP-201M
SG203	DWSP201M—	SURGE ABSORBER	WSP-201M
SG204	DWSP301M—	SURGE ABSORBER	WSP-301M
SG205	4SG0D00104	SPARK GAP	S-23 1.5KV
SG901	4SG0D00104	SPARK GAP	S-23 1.5KV
SK201	9979300008	SOCKET CRT	033 0 7700 44(ISDW-16S)
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
T001	5RM0000119	TRANS SMPS	DMT-719B-3
T401	5RM0000121	TRANS DRIVE	DDT-719B-3
△ T500	5RH0000147	FBT	KJF-0301A
T902	5RM0000120	TRANS DYNAMIC FOCUS	DYT-719B-3
△ TH001	DTP8D13—	THERMISTOR	TP8D13
YF010	99720210A0	COVER FRONT AS	CMC-719B C/FRONT AS
YM010	99741165A0	FRAME MAIN AS	CMC-719B FRAME MAIN AS
YP020	9978136900	CUSHION	E.P.S
YP030	9978043279	BOX CARTON	DW-3 (DECA) DW
YP090	99729221A0	BASE STAND AS	HIPS GY-275A(94-HB)
YR010	9972117000	COVER REAR	FR-ABS GY-275A
ZD101	DDZ5R1B—	DIODE ZENER	DZ-5.1B
ZD102	DDZ5R1B—	DIODE ZENER	DZ-5.1B
ZD201	DDZ5R1B—	DIODE ZENER	DZ-5.1B
ZD202	DDZ5R1B—	DIODE ZENER	DZ-5.1B
ZD203	DDZ5R1B—	DIODE ZENER	DZ-5.1B
ZD204	DDZ5R1B—	DIODE ZENER	DZ-5.1B
ZD301	DDZ22BM—	DIODE ZENER	DZ22BM
ZD400	DDZ12BM—	DIODE ZENER	DZ12BM
ZD401	DDZ12BM—	DIODE ZENER	DZ12BM
ZD402	DDZ12BM—	DIODE ZENER	DZ12BM
ZD501	DDZ5R1B—	DIODE ZENER	DZ-5.1B
ZD803	DDZ5R6BM—	DIODE ZENER	DZ5.6BM
ZD901	DDZ5R1B—	DIODE ZENER	DZ-5.1B

◆ Difference Components List Between 719B-3 and 719BF-3

LOC.	719B-3		719BF-3	
	Part No.	Part Description	Part No.	Part Description
CDT	9979617041	M41KXU200XX021	9979617081	M41QEC200XX021
R468	RD-AZ302J	1/6W 3K ohm	RD-AZ222J-	1/6W 2.2K ohm