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COLOR MONITOR SERVICE MANUAL

CHASSIS NO. : CA-127

MODEL: FLATRON F720P (F720PK-AL**Q)

() **Same model for SVC

CAUTION

BEFORE SERVICING THE UNIT,
READ THE **SAFETY PRECAUTIONS** IN THIS MANUAL.



*Same looking with new chassis.

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SPECIFICATIONS

1. PICTURE TUBE

Size	: 17 inch
Deflection Angle	: 90°
Neck Diameter	: 29.1 mm
Diagonal inch	: 16"
Slot Pitch	: 0.24 mm
Face Treatment	: W-ARASC (Anti-Reflective and Anti-Static Coating), Internal Anti-Glare

2. SIGNAL

2-1. Horizontal & Vertical Sync

- 1) Input Voltage Level : Low= $\leq 0.8V$, High= $\geq 2.1V$
- 2) Sync Polarity : Positive or Negative

2-2. Video Input Signal

- 1) Voltage Level : 0 ~ 0.7 Vp-p
 - a) Color 0, 0 : 0 Vp-p
 - b) Color 7, 0 : 0.467 Vp-p
 - c) Color 15, 0 : 0.7 Vp-p
- 2) Input Impedance : 75 Ω
- 3) Video Color : R, G, B Analog
- 4) Signal Format : Refer to the Timing Chart

2-3. Signal Connector

15 Pin D-Sub Connector

2-4. Scanning Frequency

Horizontal	: 30 ~ 98 kHz
Vertical	: 50 ~ 160 Hz

3. POWER SUPPLY

AC 100~240V, 50/60HZ, 2.5A Max
AC 200~240V, 50Hz, 1.5A Max.(PFC version)

3-2. Power Consumption

MODE	H/V SYNC	POWER CONSUMPTION	LED COLOR
MAX		less than 110W	GREEN/BLUE
NORMAL (ON)	ON/ON	less than 83W	GREEN/BLUE
STAND-BY	OFF/ON	less than 8W	ORANGE
SUSPEND	ON/OFF	less than 8W	
POWER OFF		less than 1W	OFF

4. DISPLAY AREA

4-1. Active Video Area :

- Max Image Size - 325.4 x 244.1mm (12.91" x 9.61")
- Preset Image Size - 310 x 230 mm (12.20" x 9.06")

4-2. Display Color : Full Colors

4-3. Display Resolution : 1600 Dots x 1200Lines

4-4. Video Bandwidth : 203MHz

5. ENVIRONMENT

5-1. Operating Temperature: 0°C ~ 40°C (32°F ~ 103°F) (Ambient)

5-2. Relative Humidity : 10% ~ 90% (Non-condensing)

5-3. Altitude : Less Than 16,404ft

6. DIMENSIONS (with TILT/SWIVEL)

Width	: 415.0 mm (16.34")
Depth	: 432.0 mm (17.00")
Height	: 413.0 mm (16.25")

7. WEIGHT (with TILT/SWIVEL)

Net Weight	: 16.5 kg (36.38lbs)
Gross Weight	: 19.5 kg (42.99lbs)

8. USB Specifications

USB Standard	: Rev. 1.0 complied bus-powered hub
Downstream power supply	: 100mA for each (MAX)
Communication speed	: 12 Mbps (Full), 1.5 Mbps (Low)
USB port	: 1 Upstream port 4 Downstream ports

SAFETY PRECAUTIONS

SAFETY-RELATED COMPONENT WARNING!

There are special components used in this color monitor which are important for safety. ***These parts are marked  on the schematic diagram and the replacement parts list.*** It is essential that these critical parts should be replaced with the manufacturer's specified parts to prevent X-radiation, shock, fire, or other hazards. Do not modify the original design without obtaining written permission from manufacturer or you will void the original parts and labor guarantee.

CAUTION: No modification of any circuit 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 color monitor because of the high voltage used in the deflection circuits. These voltages are exposed in such areas as the associated flyback and yoke circuits.

FIRE & SHOCK HAZARD

An isolation transformer must be inserted between the color monitor and AC power line before servicing the chassis.

- In servicing, attention must be paid to the original lead dress specially 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 the original design.
- Soldering must be inspected for the cold solder joints, frayed leads, damaged insulation, solder splashes, or the sharp points. Be sure to remove all foreign materials.

IMPLOSION PROTECTION

All used display tubes are equipped with an integral implosion protection system, but care should be taken to avoid damage and scratching during installation. Use only same type display tubes.

X-RADIATION

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 keep the high voltage at the factory recommended level; the normal high voltage is about 26kV. The following steps describe how to measure the high voltage and how to prevent X-radiation.

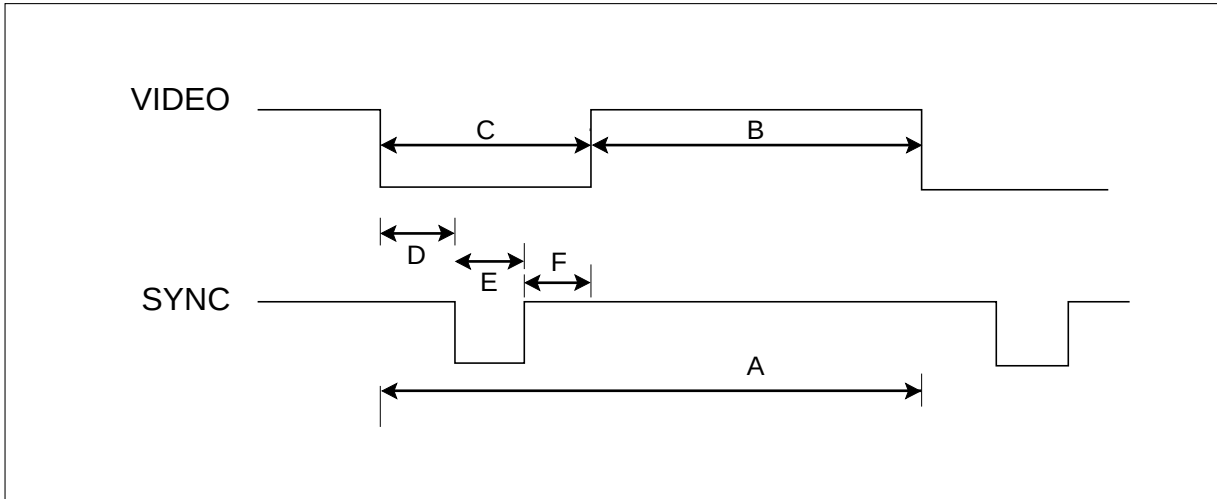
Note : It is important to use an accurate high voltage meter calibrated periodically.

- To measure the high voltage, use a high impedance high voltage meter, connect (–) to chassis and (+) to the CDT anode cap.
- Set the brightness control to maximum point at full white pattern.
- Measure the high voltage. The high voltage meter should be indicated at the factory recommended level.
- If the 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.

CAUTION:

Please use only a plastic screwdriver to protect yourself from shock hazard during service operation.

TIMING CHART



MODE			FACTORY PRESET MODE					
			MARK	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
				VESA				
H O R I Z O N T A L	Sync Polarity			—	+	+	+	+
	Frequency	kHz		43.269	53.674	68.677	91.146	93.750
	Total Period	μs	A	23.112	18.631	14.561	10.971	10.666
	Video Active Time	μs	B	17.778	14.222	10.836	8.127	7.901
	Blanking Time	μs	C	5.334	4.409	3.725	2.844	2.765
	Front Porch	μs	D	1.556	0.569	0.508	0.406	0.316
	Sync Duration	μs	E	1.556	1.138	1.016	1.016	0.948
	Back Porch	μs	F	2.222	2.702	2.201	1.422	1.501
V E R T I C A L	Sync Polarity			—	+	+	+	+
	Frequency	Hz		85.008	85.061	84.997	85.024	75.000
	Total Period	ms	A	11.763	11.756	11.765	11.762	13.333
	Video Active Time	ms	B	11.093	11.178	11.183	11.235	12.800
	Blanking Time	ms	C	0.670	0.578	0.582	0.527	0.533
	Front Porch	ms	D	0.023	0.019	0.015	0.011	0.011
	Sync Duration	ms	E	0.069	0.056	0.044	0.033	0.032
	Back Porch	ms	F	0.578	0.503	0.523	0.483	0.490
Resolution				640 X 480 85Hz	800 X 600 85Hz	1024 X 768 85Hz	1280 X 1024 85Hz	1600 X 1200 75Hz
Recall				Yes	Yes	Yes	Yes	

* Mode 5 is not preset mode but TCO check resolution!

OPERATING INSTRUCTIONS

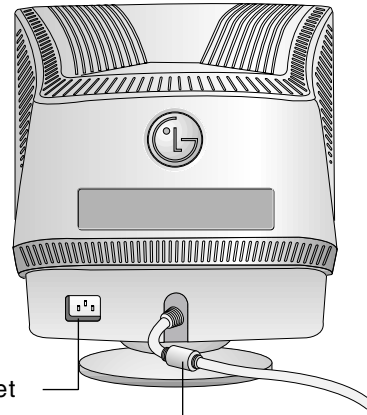
FRONT VIEW



See Front Control Panel

Power Button

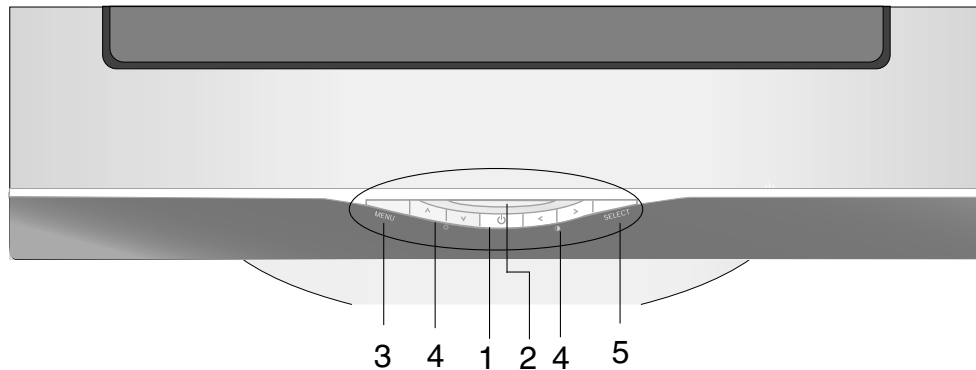
REAR VIEW



AC Power Socket

D-Sub Signal Connector

Front Control Panel



1. Power Button

This button is used to turn the monitor ON and OFF.

2. Power Indicator

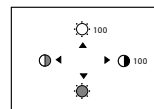
This Indicator lights up green when the monitor operates normally. If the monitor is in stand-by, suspend or DPMS off mode, this indicator color changes to amber.

3. MENU (or OSD) Button

Use this button to enter or exit the on screen display.

4. ▲▼/◀▶ Button

Use these buttons to choose or adjust items in the on screen display.



◀▶Button Bring up Contrast adjustment

▲▼Button Bring up Brightness adjustment

The Contrast and Brightness functions are also available in the On Screen Display (OSD) menu.

5. SELECT (or SET) Button

Use this button to enter a selection in the on screen display..

Universal Serial Bus

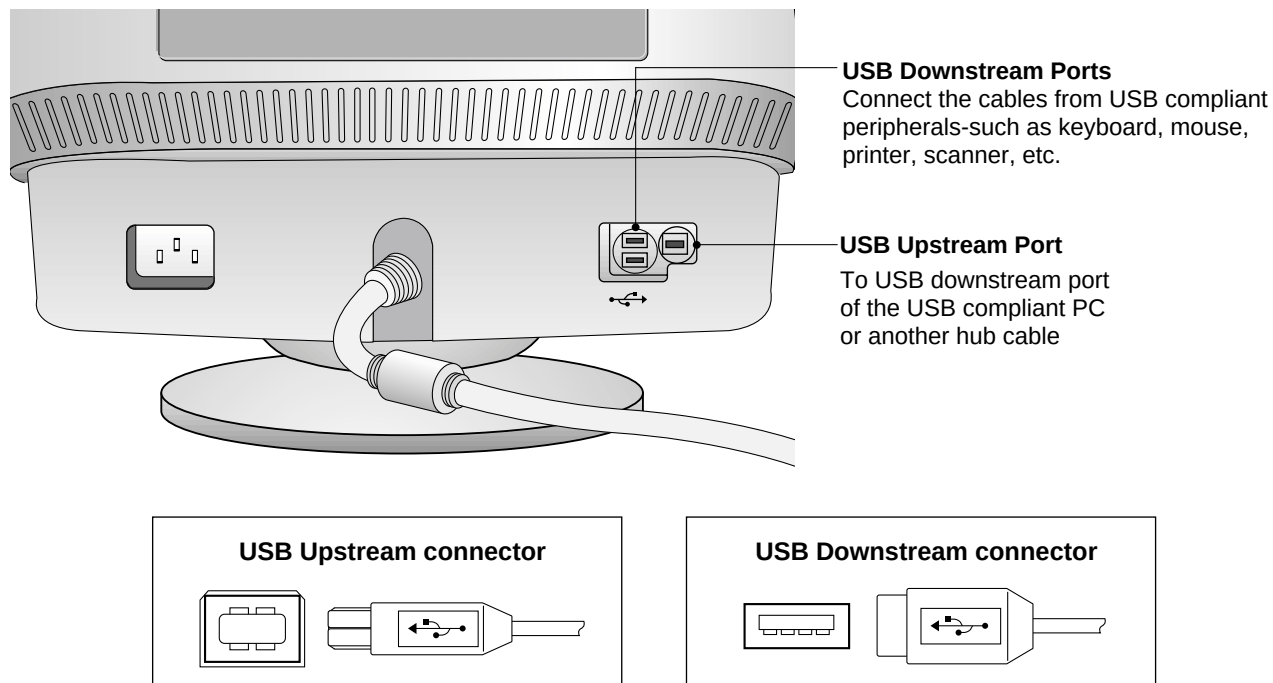
Making use of USB (Universal Serial Bus)*

USB(Universal Serial Bus) is an innovation in connecting your different desktop peripherals conveniently to your computer. By using the USB, you will be able to connect your mouse, keyboard, printer, and other peripherals to your monitor instead of having to connect them to your computer. This will give you greater flexibility in setting up your system. USB allows you to connect chain up to 120 devices on a single USB port, and you can "hot" plug (attach them while the computer is running) or unplug them while maintaining Plug and Plug auto detection and configuration. This monitor has an integrated bus-powered USB hub, allowing up to 2 other USB devices to be attached it.

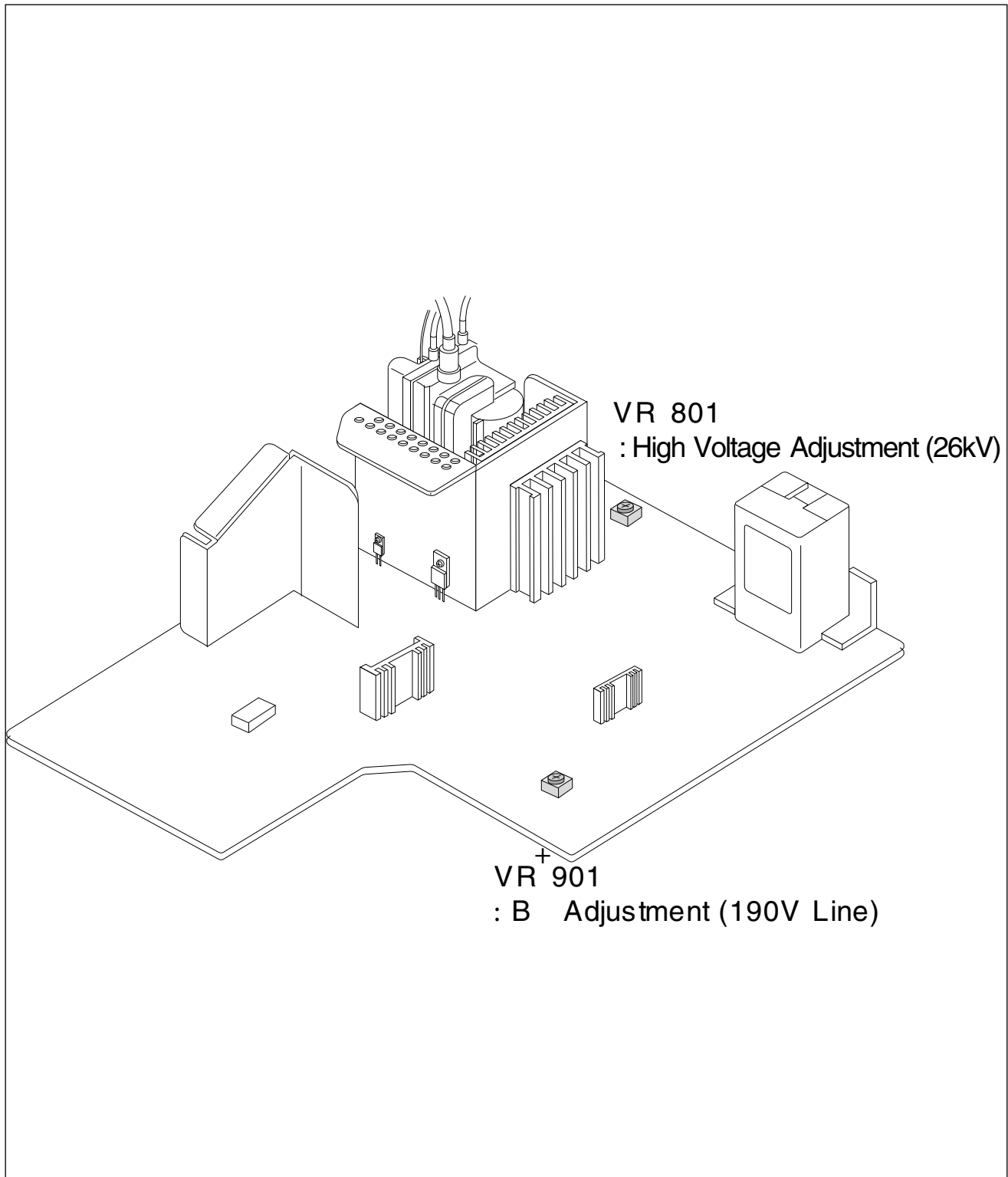
USB connection (Option)

- (1) Connect the upstream port of the monitor to the downstream port of the USB compliant PC or another hub using the USB cable.
- (2) Connect the USB compliant peripherals to the downstream ports the monitor.

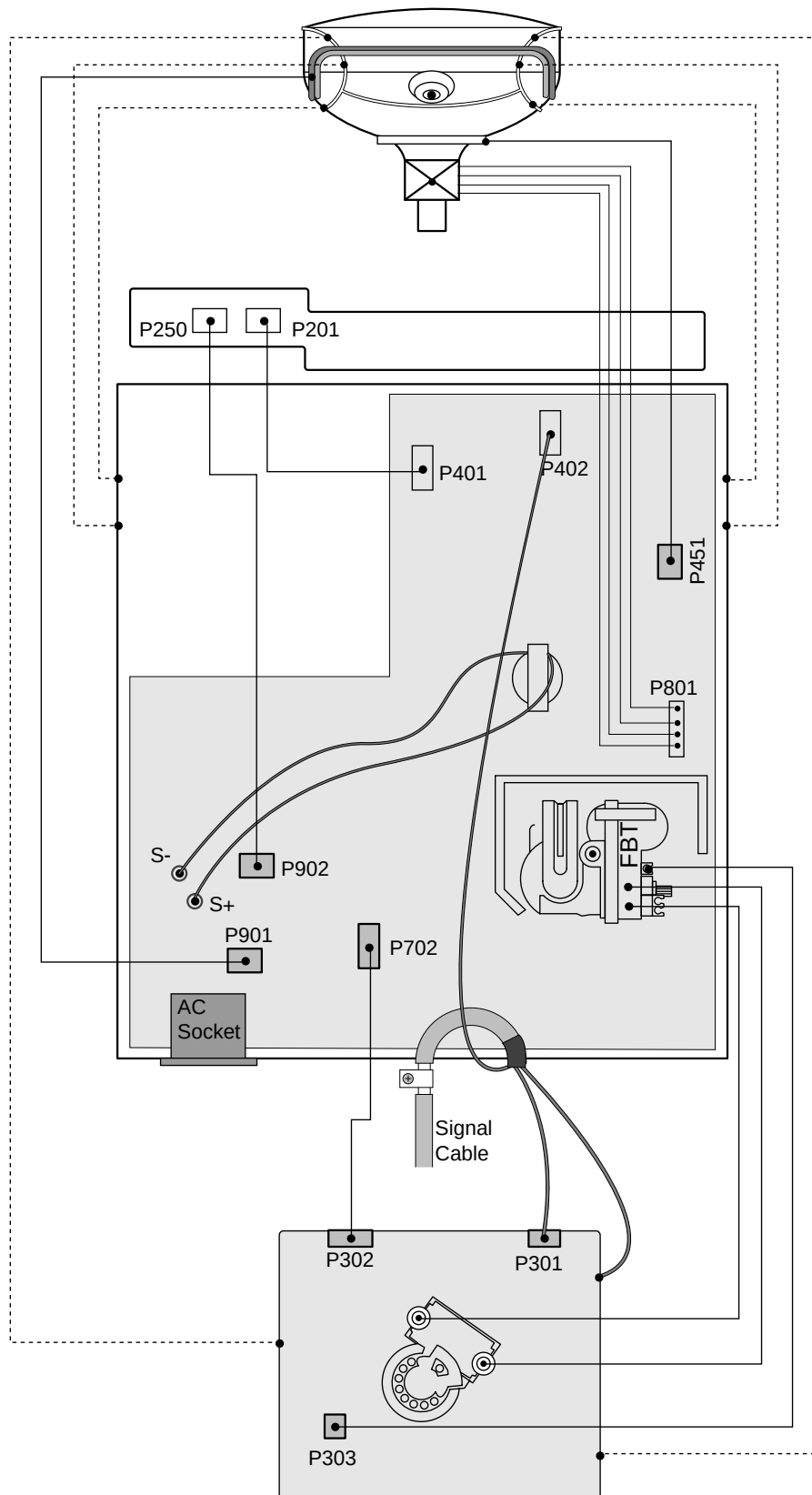
*USB(Universal Serial Bus) is supported WINDOWS98 and Higher.



CONTROL LOCATIONS



WIRING DIAGRAM



DISASSEMBLY

1. TILT/SWIVEL & BACK COVER REMOVAL

- 1) Set the monitor face downward.
- 2) Carefully remove the Tilt/Swivel by pulling it upward.
- 3) Pressing the latch (a), Back cover by pushing it upward. (See Figure. 1)
- 4) Release the latch (c). (See Figure. 2 and Tip Spec.)
- 5) Slide the Back Cover away from the Front Cabinet of the monitor.

Figure. 1

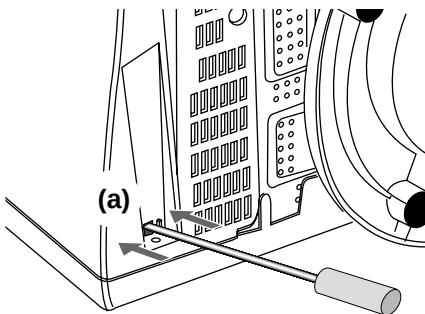
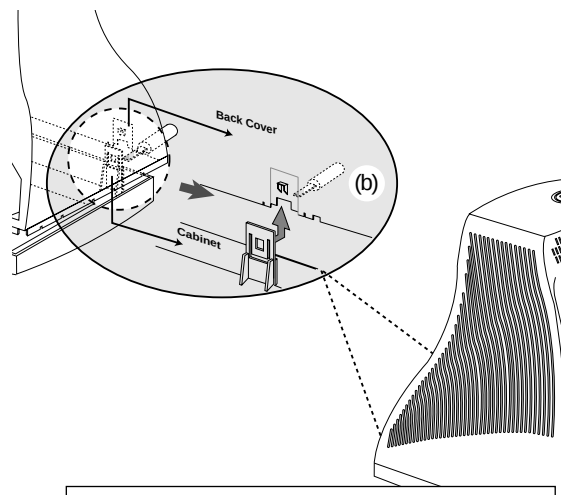


Figure. 2

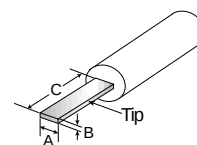


Tip Spec.

A(Width) : 5.0~15.0mm

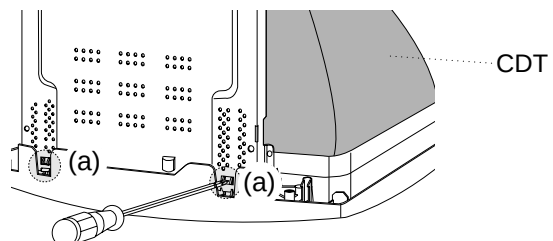
B(Depth) : 0.6~0.9mm

C(Height) : 12.0mm

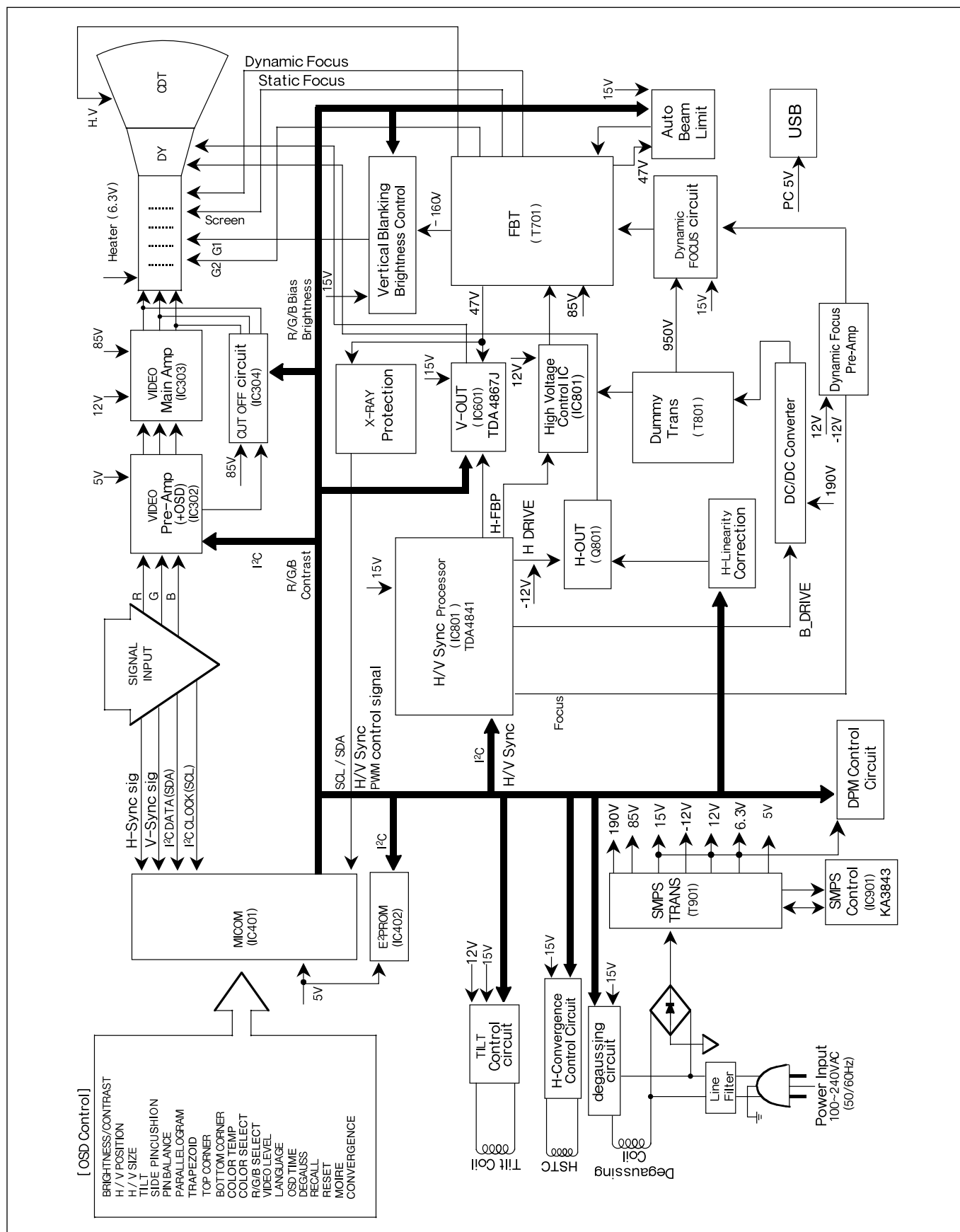


2. TOTAL CHASSIS ASSEMBLY REMOVAL

- 1) Set the monitor face downward.
- 2) Pressing the latch (a), Main Chassis by pushing it upward.



BLOCK DIAGRAM



DESCRIPTION OF BLOCK DIAGRAM

1. Line Filter & Associated Circuit.

This is used for suppressing noise of power input line flowing into the monitor and/or some noise generated in this monitor flowing out through the power input line.

That is to say, this circuit prevents interference between the monitor and other electric appliances.

2. Degauss Circuit & Coil.

The degauss circuit consists of the degaussing coil, the PTC (Positive Temperature Coefficient) thermistor (TH901), and the relay (RL901). This circuit eliminates abnormal color of the screen automatically by degaussing the slot mask in the CDT when turn on the power switch.

When you need to degauss while using the monitor, select DEGAUSS on the OSD menu.

3. SMPS (Switching Mode Power Supply).

This circuit works with power of 100~240V or 200~240V (50/60Hz) specially for PFC version.

The operation procedure is as follows:

- 1) AC input voltage is rectified and smoothed by the bridge diode (D901) and the capacitor (C905).
- 2) The rectified voltage (DC voltage) is applied to the primary coil of the transformer (T901).
- 3) The control IC (IC901) generates switching pulse to turn on and off the primary coil of the transformer (T901) repeatedly.
- 4) Depending on the turn ratio of the transformer, the secondary voltages appear at the secondary coil of the transformer (T901).
- 5) These secondary voltages are rectified by each diode (D924, D926, D923, D929, D922, D921, D920) and operate the other circuits. (Deflection, Video Amplifier, etc.)

4. Display Power Management Circuit.

This circuit control power consumption of the monitor by detecting H and V sync signal. There are stand-by and suspend mode. When no horizontal or vertical sync signal input, the circuit consists of Q913, Q915 and IC401 control signal becomes stand-by and suspend mode. It's power consumption is below 8W.

5. X-ray Protection.

This circuit detects the rectified DC voltage comes from the FBT pin 4. If the high voltage of the FBT reaches up to about 30kV (abnormal state), H.V control (IC802) detects. It stops B⁺ voltage supplied to the FBT (T701), and high voltage is not be generated, (In the normal state, the high voltage is about 26kV.)

6. Micom(Microprocessor) Circuit.

The operating procedure of Micom (Microprocessor) and its associated circuit is as follows:

- 1) H and V sync signal is supplied from Signal Cable to the Micom (IC401).
- 2) The Micom (IC401) distinguishes polarity and frequency of H and V sync.
- 3) The Micom controls each OSD function signals. (H-size, H-position, V-size, etc.)
- 4) The controlled data of each mode is stored in IC402. User can adjust screen condition by each OSD function. The data of the adjust screen condition is stored automatically.

7. Horizontal and Vertical Synchronous Processor.

This circuit generates the horizontal drive pulse and the vertical drive pulse by taking sync-signal from Signal Cable. This circuit consists of the TDA4841(IC801) and the associated circuit.

8. Oscillating Circuit for D/D Converter.

This circuit generates the pulse wave which has the horizontal period by taking the output of the TDA4841(IC801).

9. D/D (DC to DC) Converter.

This circuit supplies DC voltage to the horizontal deflection output circuit by decreasing DC 190V which is the secondary voltage of the SMPS in accordance with the input horizontal sync signal.

10. D/D Drive & Convert Circuit.

This circuit is used for supplying B⁺ voltage to horizontal deflection output transistor (T801).

11. Horizontal Deflection Output Circuit.

This circuit makes the horizontal deflection by supplying the saw-tooth current to the horizontal deflection yoke.

12. High Voltage Output & FBT (Flyback Transformer).

The high voltage output circuit is used for generating pulse wave to the primary coil of the FBT (Flyback Transformer (T701)). A boosted voltage (about 26kV) appears at the secondary of the FBT and it is supplied to the anode of the CDT.

And there are another output voltages such as the dynamic focus voltage.

13. H-Linearity Correction Circuit.

This circuit corrects the horizontal linearity for each horizontal sync frequency.

14. Vertical Output Circuit.

This circuit takes the vertical wave from the TDA4841(IC801) and performs the vertical deflection by supplying the saw-tooth wave current from the TDA4867J (IC601) to the vertical deflection yoke.

15. Dynamic Focus Output Circuit.

This circuit takes H and V parabola wave from the TDA4841(IC801), and amplifies these waves to offer to the FBT (T701).

16. H & V Blanking and Brightness Control.

This circuit eliminates the retrace line by supplying a negative pulse to the G1 of the CDT.

17. Image Rotation (Tilt) Circuit.

This circuit corrects the tilt of the screen by supplying the image rotation signal to the tilt coil which is attached to the CDT near the deflection.

18. Static Convergence Control Circuit.

This circuit corrects the convergence of the screen by supplying the convergence signal to the 4H (STC) coil which is attached to the CDT near the deflection.

19. Moire Reduction Circuit

This circuit reduce interference between the periodical display pattern and the CDT's slot (or dot).

The positions of every other one dot video signal beams (red, green, and blue beam) are shifted finely, thus reducing interference.

20. OSD Circuit.

This circuit is used for performing the OSD (On-Screen- Display) function.

When a user selects the OSD Select/Adjustment control, the adjustment status displays on the screen.

21. Video Pre-Amp Circuit.

This circuit amplifies the analog video signal from 0-0.7V to 0-4V. This circuit is operated by taking the clamp, R, G, B drives, and contrast signals from the Micom (IC401).

22. Video Output Amp Circuit.

This circuit amplifies the video signal which comes from the video pre-amp circuit and amplified video signal is applied to the CDT cathode.

ADJUSTMENT

GENERAL INFORMATION

All adjustment are thoroughly checked and corrected when the monitor leaves the factory, but sometimes several adjustments may be required.

Adjustment should be following procedure and after warming up for a minimum of 30 minutes.

- Alignment appliances and tools.
 - IBM compatible PC.
 - Programmable Signal Generator.
(eg. VG-819 made by Astrodesign Co.)
 - EPROM or EEPROM with saved each mode data.
 - Alignment Adaptor and Software.
 - Digital Voltmeter.
 - White Balance Meter.
 - Luminance Meter.
 - High-voltage Meter.

AUTOMATIC AND MANUAL DEGAUSSING

The degaussing coil is mounted around the CDT so that automatic degaussing when turn on the monitor. But a monitor is moved or faced in a different direction, become poor color purity cause of CDT magnetized, then press DEGAUSSING on the OSD menu.

ADJUSTMENT PROCEDURE & METHOD

- Install the cable for adjustment such as Figure 1 and run the alignment program on the DOS for IBM compatible PC.
- Set external Brightness and Contrast volume to max position.

1. Adjustment for B⁺ Voltage.

- 1) Display cross hatch pattern at Mode 4.
- 2) Adjust P905 voltage to 190V $\pm$ 0.2V with **VR901**.

2. Adjustment for High-Voltage.

- 1) Display cross hatch pattern at Mode 4.
- 2) Adjust CDT Anode voltage to 26kV $\pm$ 0.2kV with **VR801**.

3. Adjustment for Horizontal Raster Center.

- 1) Display cross hatch pattern at Mode 4.
- 2) Adjust the Back Raster should be center of the screen with SW801.

4. Adjustment for Factory Mode (Preset Mode).

- 1) Display cross hatch pattern at Mode 1~4.
- 2) Run alignment program for F700PJ on the IBM compatible PC.

- 3) EEPROM $\rightarrow$ ALL CLEAR $\rightarrow$ Y(Yes) command.

<Caution> Do not run this procedure unless the EEPROM is changed. All data in EEPROM (mode data and color data) will be erased.

- 4) COMMAND $\rightarrow$ PRESET START $\rightarrow$ Y(Yes) command.
- 5) DIST. ADJ. $\rightarrow$ FOS. ADJ command.
- 6) Adjust H-POSITION as arrow keys to center of the screen.
- 7) Adjust H-SIZE as arrow keys to 310 $\pm$ 2mm.
- 8) Adjust V-POSITION as arrow keys to center of the screen.
- 9) Adjust V-SIZE as arrow keys to 230 $\pm$ 2mm.
- 10) Adjust TRAPEZOID as arrow keys to be the best condition.
- 11) Adjust TILT as arrow keys to be the best condition.
- 12) Display cross hatch pattern at Mode 4.
- 13) DIST. ADJ. $\rightarrow$ BALANCE DATA command.
- 14) Adjust balance of Pin-Balance as arrow keys to be the best condition.
- 15) Adjust parallelogram as arrow keys to be the best condition.
- 16) Save of the Mode.
- 17) Save of the System.
- 18) Display from Mode 4 and repeat above from number 6) to 15).
- 19) COMMAND $\rightarrow$ PRESET EXIT $\rightarrow$ Y (Yes) command.

5. Adjustment for White Balance and Luminance.

- 1) Set the White Balance Meter.
- 2) Press the DEGAUSSING on the OSD menu for demagnetization of the CDT.
- 3) Display color 0,0 pattern at Mode 4.
- 4) COMMAND $\rightarrow$ PRESET START $\rightarrow$ Y(Yes) command.
- 5) Set Brightness and Contrast to max position.
- 6) COLOR ADJ. $\rightarrow$ LUMINANCE command of the alignment program.
- 7) COLOR ADJ. $\rightarrow$ BIAS ADJ. command of the alignment program.
- 8) Check whether blue color or not at R-BIAS and G-BIAS to min position, Sub-Brightness to 90 position, B-BIAS to **75** or **100**(**75**: when CDT is M41QBF423X07(P), **100**: when CDT is M41QEV423X01(CH)) position. If it's not blue color, the monitor must repair.
- 9) Adjust Screen control on the FBT to 0.15 $\pm$ 0.05FL of the raster luminance.
- 10) Adjust R-BIAS and G-BIAS command to x=0.283 $\pm$ 0.006 and y=0.298 $\pm$ 0.006 on the White Balance Meter with PC arrow keys.

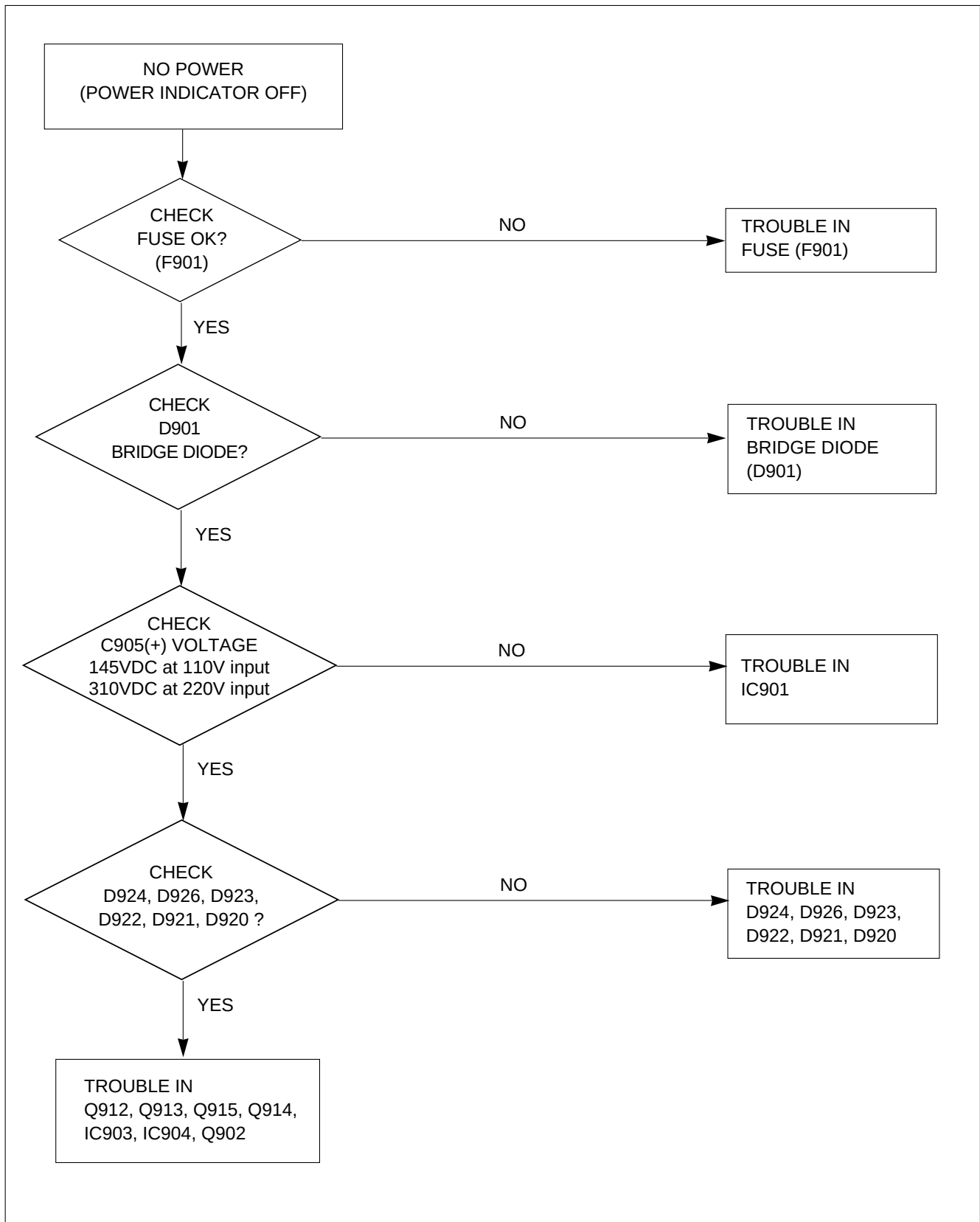
- 11) Display color 15,0 box pattern(70x70mm) at mode 4.
- 12) DRIVE ADJ command.
- 13) Set B-DRIVE to 85 at DRIVE of the alignment program.
- 14) Adjust R-DRIVE and G-DRIVE command to white balance $x=0.283 \pm 0.003$ and $y=0.298 \pm 0.003$ on the White Balance Meter with PC arrow keys.
- 15) Adjust SUB-CONTRAST command to $47 \pm 1\text{FL}$ of the raster luminance.
- 15) Display color 15,0 full white patten at Mode 4.
- 16) COLOR ADJ. → LUMINANCE → ABL command.
- 17) Adjust ABL to $32 \pm 1\text{FL}$ of the luminance.
- 18) Exit from the program.

6. Adjustment for Focus.

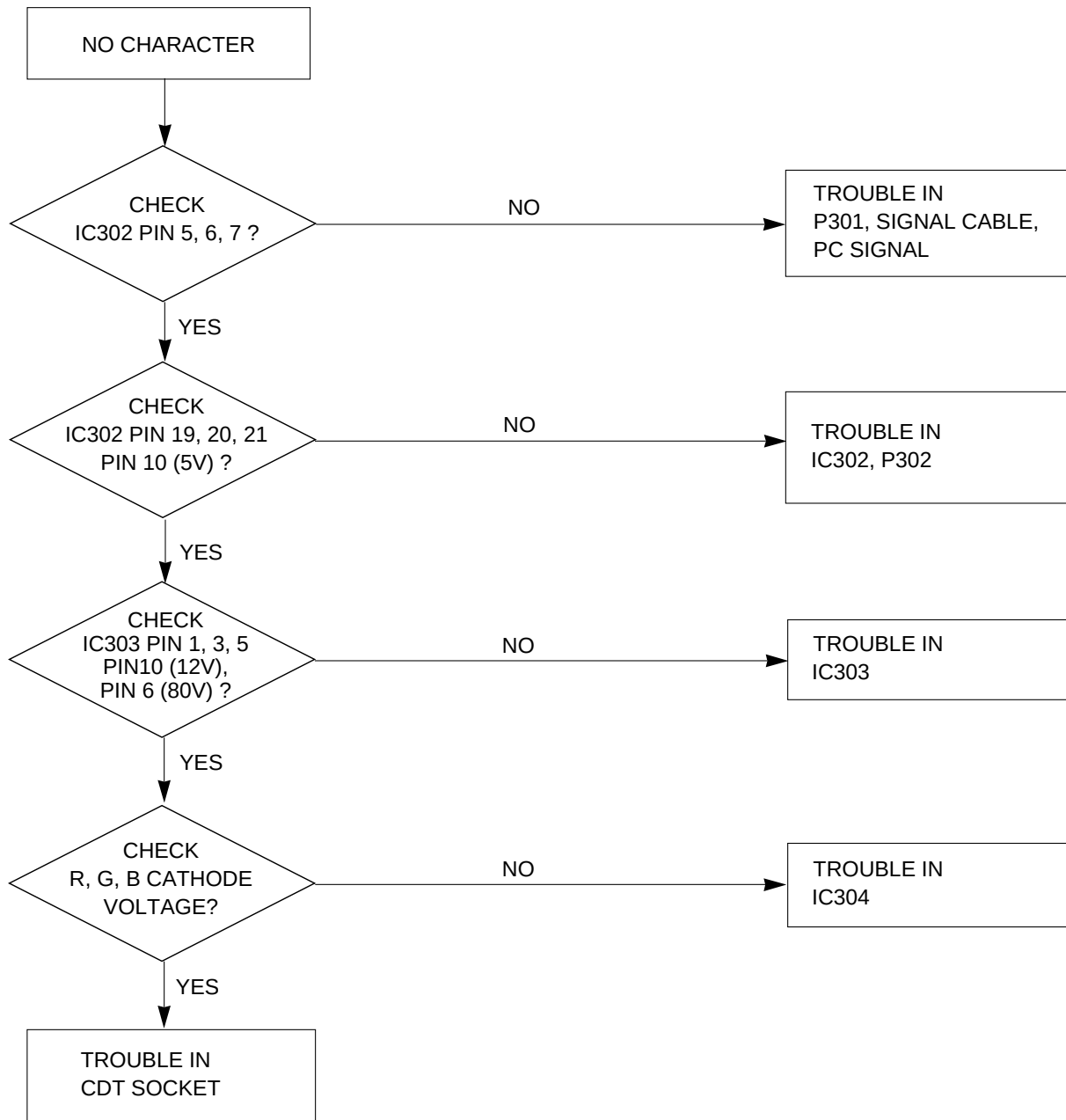
- 1) Display H character in full screen at Mode 4.
- 2) Adjust two Focus control on the FBT that focus should be the best condition.

TROUBLESHOOTING GUIDE

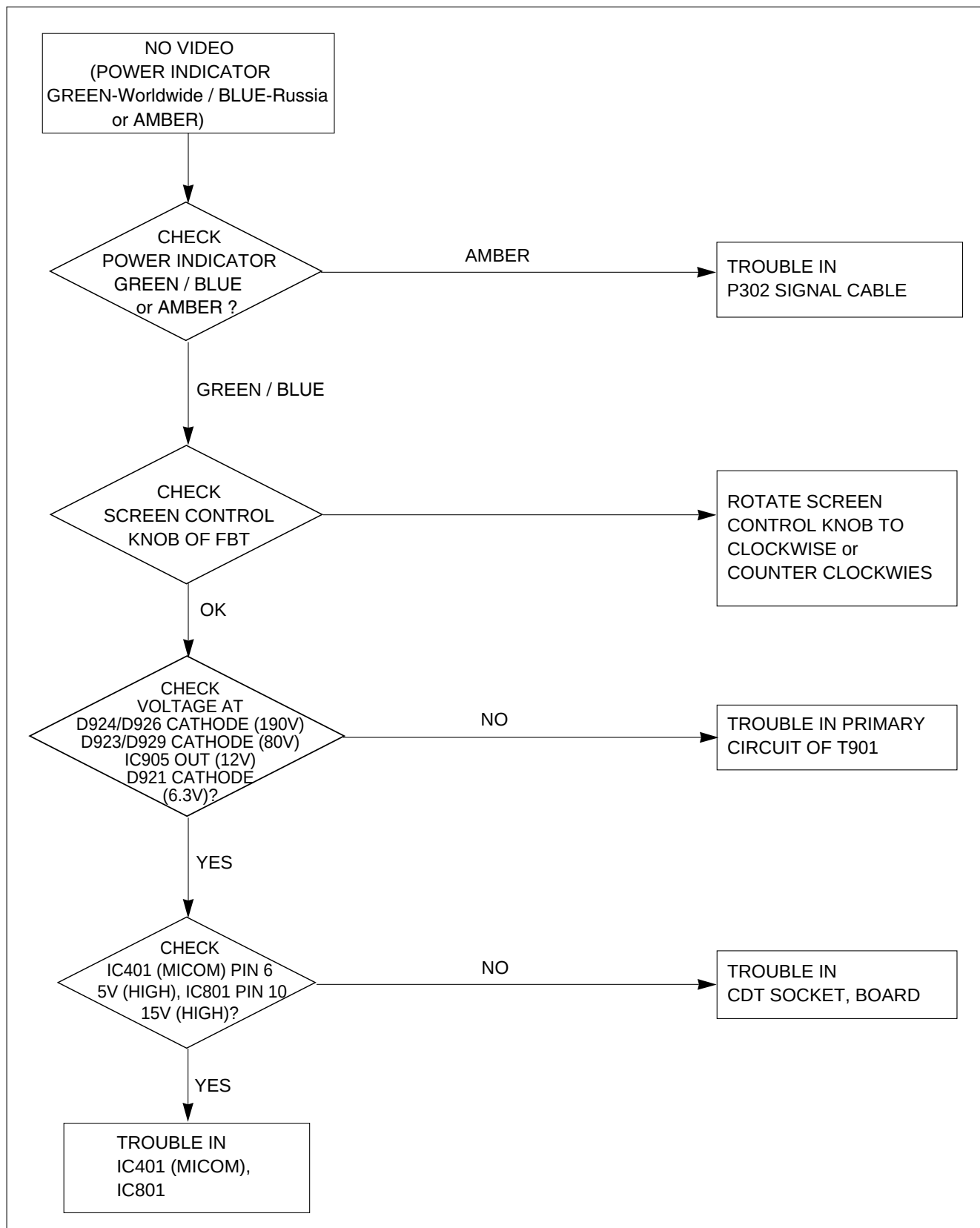
1. NO POWER



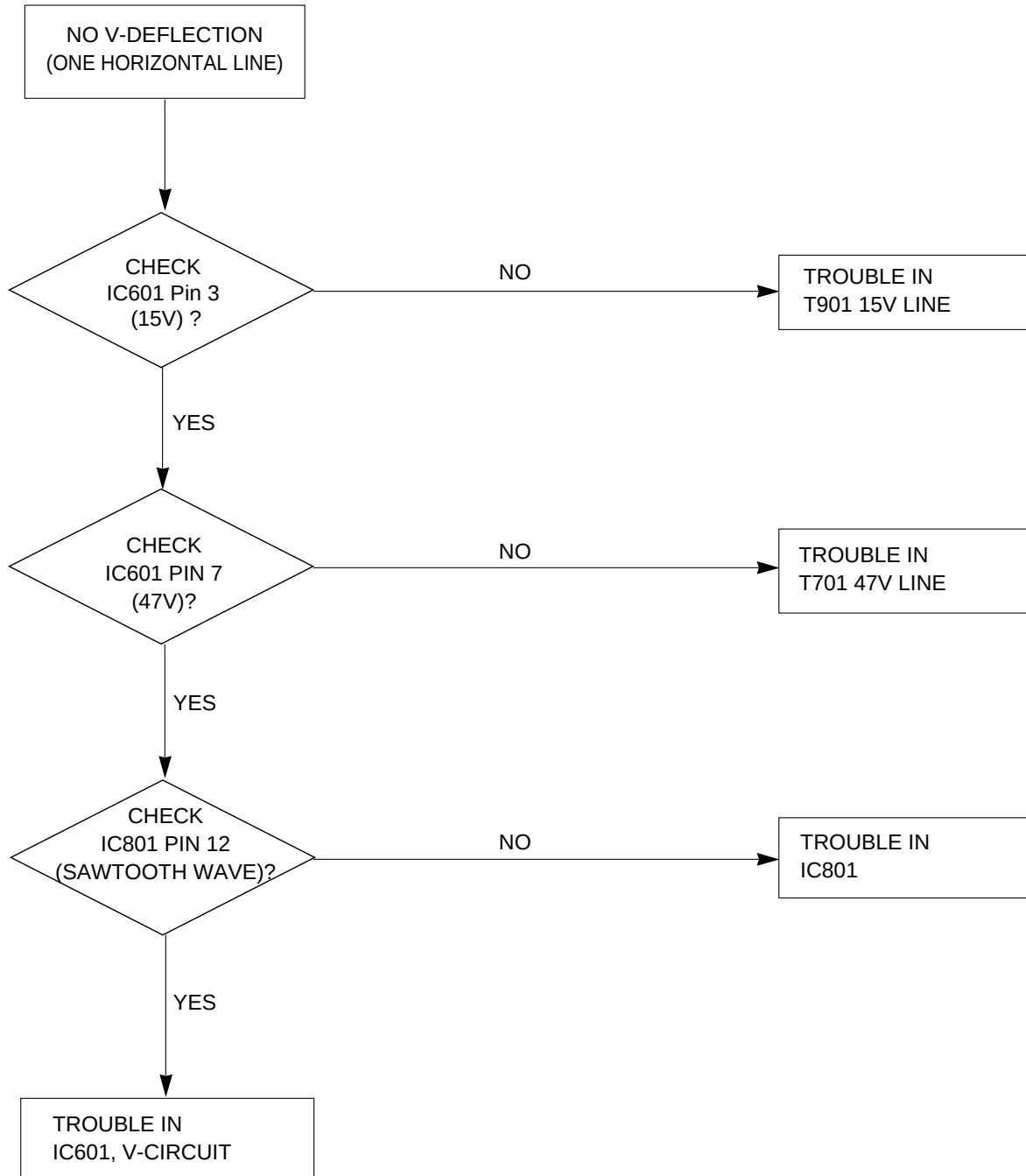
2. NO CHARACTER



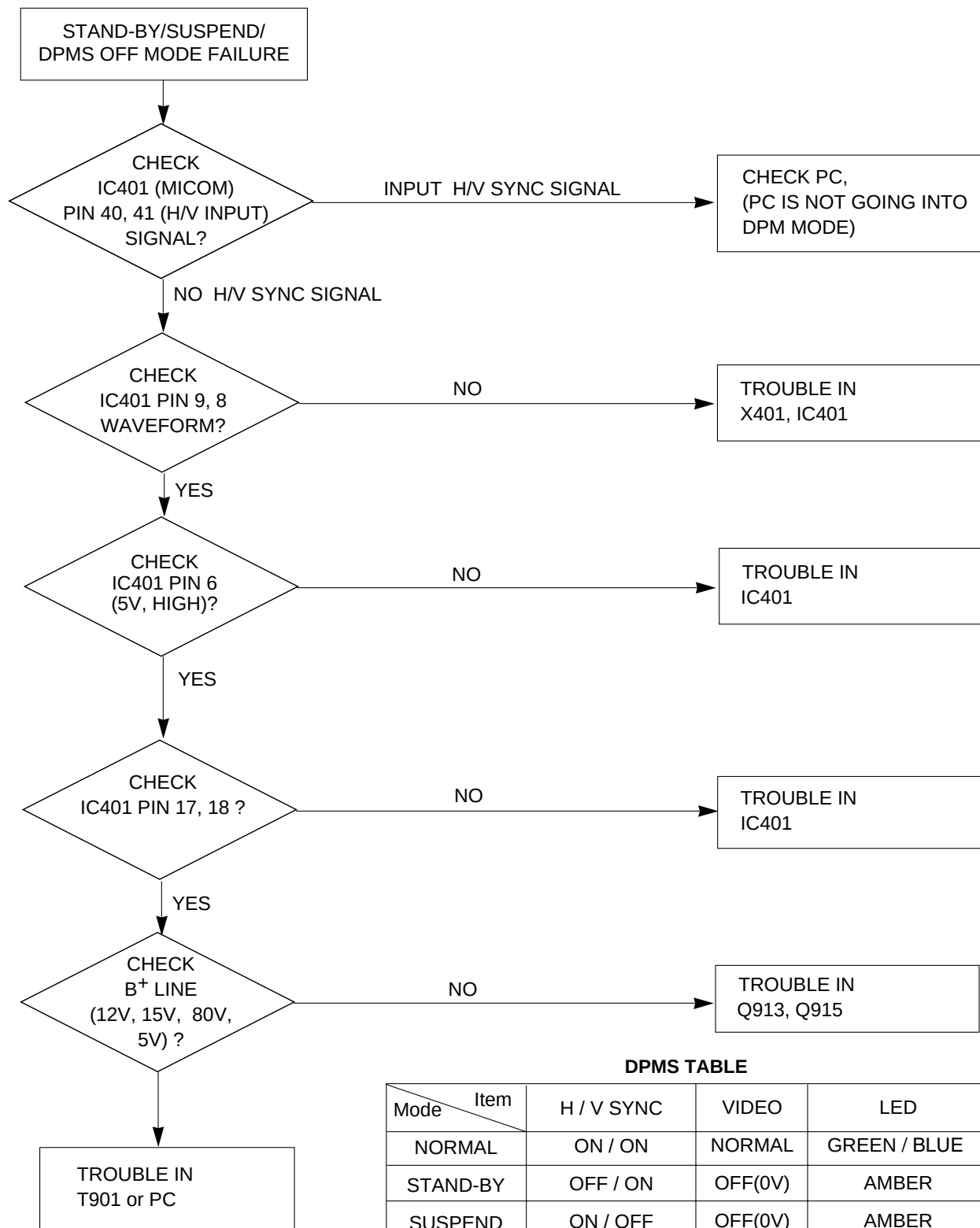
3. NO RASTER



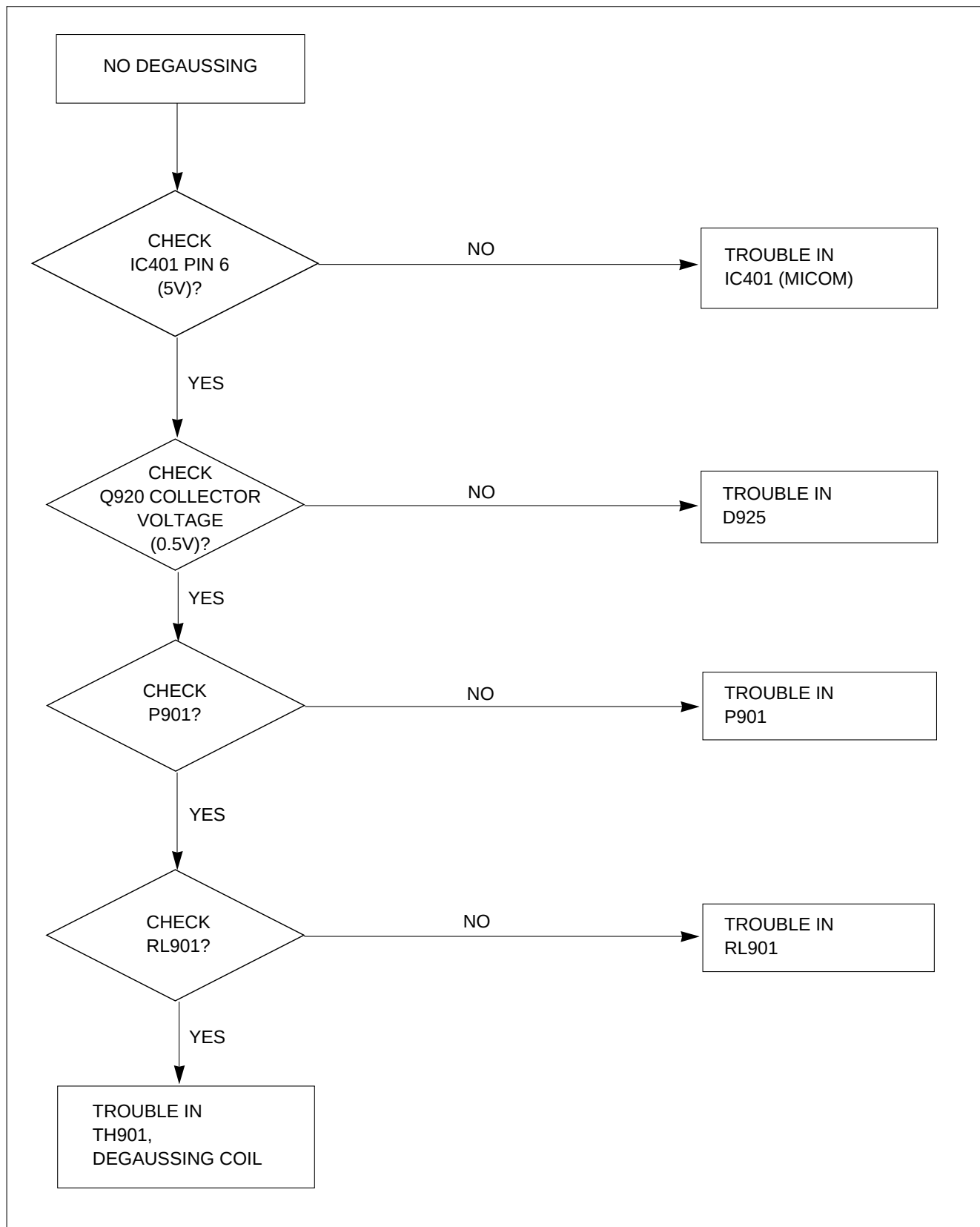
4. NO VERTICAL DEFLECTION



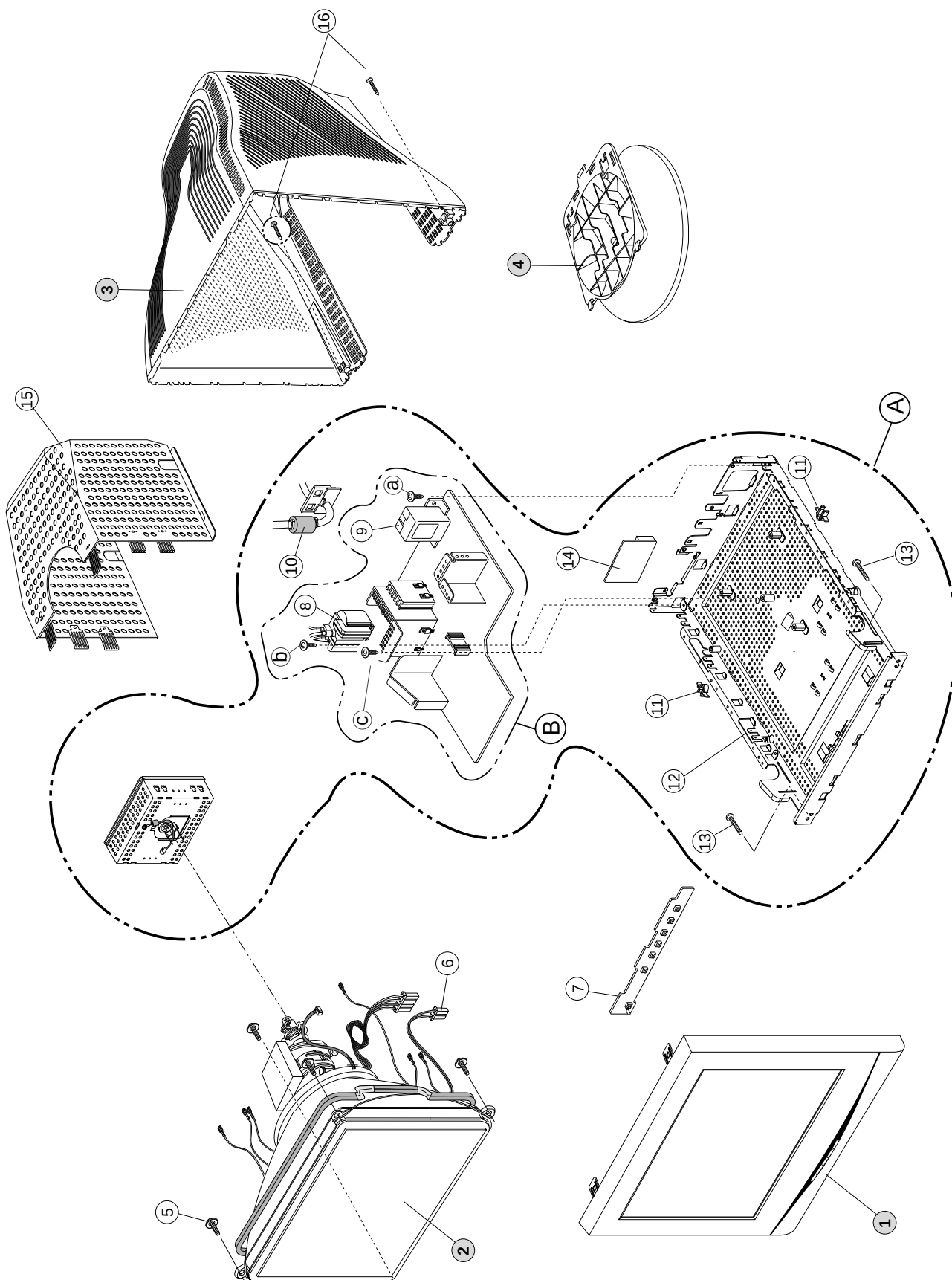
5. TROUBLE IN DPM



6. NO DEGAUSSING



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Ref. No.	Part No.	Description
1	3091TKC114E	CABINET ASSEMBLY, F720 BRAND C088 F720PK FLATRON
2	6318L17020A	CDT(CIRC), M41QEU423X01NDDH LG-PHILIPS 95KHZ 29.1MM FLATRON TCO RTC
3	3809TKC042N	BACK COVER ASSEMBLY, F720PK 041NT
4	3043TKK103H	TILT SWIVEL ASSEMBLY, F720 FLATRON 058 060
5	339-002H	SCREW ASSY, PHP+5*20(FZMY)+GW18 NEW TYPE
6	6140TC2014C	COIL,DEGAUSSING, GET D-COIL,1410MM,0.5*130T,W/O PURITY,FB790J
7	6871TST466F	PWB(PCB) ASSEMBLY,SUB, F720PK CONTROL TOTAL BRAND DI CKD.
8	6174T13010K	FBT(FLY BACK TRANSFORMER), FQM19A013,T910BJ(98K) SAMSUNG 19"
9	6200TJB001N	FILTER(CIRC),EMC, 02MD5 DELTA BK F900BJ
10	6850TA9009N	CABLE, D-SUB, UL20276-9C(5.8MM) AT 1560MM GRAY(85964) T910BJ DM
11	4930TKK031C	HOLDER, PCB FIX , PC+ABS
12	4950TKK368C	METAL ASSEMBLY, BASE A-CKD,FB770G
13	332-102E	SCREW, PTP+4*16(MSWR/FZMY)
14	6871TUT031A	PWB(PCB) ASSEMBLY, USB, F700PJ SUB TOTAL BRAND DI CKD.
15	4815TKT016B	SHIELD ASSEMBLY, TOP FB790G
16	332-102E	SCREW, PTP+4*16(MSWR/FZMY)
A	3313T17334B	MAIN TOTAL ASSEMBLY, F700PK BRAND CA-127
B	6871TMT501B	PWB(PCB) ASSEMBLY,MAIN, F700PJ KLCNQT BRAND CA-127 TOTAL
a	332-112F	SCREW, DRAWING, D3.5 L10.0 MSWR/FZMY +SW3.5+RW3.5
b	4001TKK004E	SCREW, DRAWING, D3.0 L10.0 MSWR/FZMY SW3+RW10
c	339-008C	SCREW ASSY, MP+3*10(FZMY)+SW3+RW3

REPLACEMENT PARTS LIST

CAUTION: BEFORE REPLACING ANY OF THESE COMPONENTS,
READ CAREFULLY THE **SAFETY PRECAUTIONS** IN THIS MANUAL.

* NOTE : **S** SAFETY Mark
AL ALTERNATIVE PARTS

MODEL: F720PK				DATE:2004.03.01
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
CAPACITOR				
		C201	OCN1040K949	0.1M 50V Z F TA52
		C301	OCK1020K515	1000PF 50V K B TR
		C303	OCK3320K515	3300P 50V K B TS
		C304	181-288B	MKT 100V 104JTR PHS26104
		C306	181-288N	MKT 100V 103JTR PHS86103
		C307	OCK1030K945	0.01UF 50V Z F TR
		C308	OCK1040K945	0.1UF 50V Z F TR
		C309	OCK1040K945	0.1UF 50V Z F TR
		C310	181-288E	MKT 100V 474JTR PHS 26474
		C311	181-288B	MKT 100V 104JTR PHS26104
		C312	181-288B	MKT 100V 104JTR PHS26104
		C313	181-288B	MKT 100V 104JTR PHS26104
		C315	OCE476CF638	"47UF SHL,SD 16V M FM5 TP 5"
		C317	OCK1040K945	0.1UF 50V Z F TR
		C318	OCN1040K949	0.1M 50V Z F TA52
		C319	OCK1040K945	0.1UF 50V Z F TR
		C320	OCE107CN630	100U SHL 100V M FM5
		C321	OCK1040K945	0.1UF 50V Z F TR
		C323	OCE107CH638	"100UF SHL,SD 25V M FM5 TP 5"
		C324	OCN1040K949	0.1M 50V Z F TA52
		C325	181-288E	MKT 100V 474JTR PHS 26474
		C328	OCE476CN618	47UF SHL 100V M FL TP5
		C330	181-288B	MKT 100V 104JTR PHS26104
		C331	181-288G	MKT 100V 334JTR PHS26334
		C332	181-288G	MKT 100V 334JTR PHS26334
		C333	181-288G	MKT 100V 334JTR PHS26334
		C334	181-288B	MKT 100V 104JTR PHS26104
		C335	181-288B	MKT 100V 104JTR PHS26104
		C339	OCK2710W515	270P 500V K B TS
		C340	181-288B	MKT 100V 104JTR PHS26104
		C341	OCK10302940	0.01M 2KV Z F S
		C342	OCC2200W415	22PF 500V J NP0 TR
		C344	181-288C	MKT 100V 224JTR PHS 26224
		C346	OCK10202515	1000PF D 2KV 10% TR B(Y5P)
		C347	OCK10302940	0.01M 2KV Z F S
		C355	OCE476CF638	"47UF SHL,SD 16V M FM5 TP 5"
		C372	OCN1040K949	0.1M 50V Z F TA52
		C401	OCC5600K415	56P 50V J NP0 TP
		C402	OCE476CH638	"47UF SHL,SD 25V M FM5 TP 5"
		C403	OCK2710K515	270P 50V K B TS
		C404	OCK2710K515	270P 50V K B TS
		C405	OCK2710K515	270P 50V K B TS
		C406	OCC0400K115	4P 50V D NP0 TS
		C407	OCC0400K115	4P 50V D NP0 TS
		C408	OCN1040K949	0.1M 50V Z F TA52
		C410	OCK1040K945	0.1UF 50V Z F TR
		C417	OCK1040K945	0.1UF 50V Z F TR
		C452	OCE106CK638	"10UF SHL,SD 50V M FM5 TP 5"
		C454	OCK1040K945	0.1UF 50V Z F TR
		C456	OCN1040K949	0.1M 50V Z F TA52
		C457	181-288E	MKT 100V 474JTR PHS 26474
		C458	OCK1040K945	0.1UF 50V Z F TR
		C459	OCK1010K515	100PF 50V K B TR
		C460	OCE475CK638	"4.7UF SHL,SD 50V M FM5 TP 5"
		C601	OCK6821N419	6800PF 100V J PE NI TP

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*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		C602	181-288Q	MKT 100V 154JTR PHS26154
		C603	OCK1020W515	1000P 500V K B TS
		C605	OCE476CN618	47UF SHL 100V M FL TP5
		C611	OCE108CH618	1000UF SHL 25V M FL TP5
		C701	OCE106CK638	"10UF SHL,SD 50V M FM5 TP 5"
		C702	OCE337EN630	330UF KMG 100V M FM5 BULK
		C704	OCBZTBU003M	562J 20.0*14.0*8.5*10.0 800V J BUP FM10
		C705	OCE336CN638	"33UF SHL,SD 100V M FM5 TP 5"
		C707	OCE106CK638	"10UF SHL,SD 50V M FM5 TP 5"
		C708	OCE476CQ618	47U SHL 200V M FL TP5
		C709	181-477A	102J 19.5*12.0*7.0*7.5 250V J PU TP7.5
		C710	OCC3300K405	33P 50V J SL TP
		C711	OCQ4721N419	0.0047U 100V J POLY NI TP5
		C712	OCK2220K515	2200P 50V K B TS
		C713	OCE107CH638	"100UF SHL,SD 25V M FM5 TP 5"
		C730	OCE476CH638	"47UF SHL,SD 25V M FM5 TP 5"
		C731	OCE105CK638	"1UF SHL,SD 50V 20% FM5 TP 5"
		C732	OCK1040K945	0.1UF 50V Z F TR
		C734	181-288T	MKT 100V 223KTR PHS85223
		C735	OCK10302940	0.01M 2KV Z F S
		C736	OCK10302940	0.01M 2KV Z F S
		C738	OCE685CN638	"6.8UF SHL,SD 100V 20% TP 5 FM5"
		C739	OCK1040K945	0.1UF 50V Z F TR
		C740	OCE106EK638	10UF KMG 50V M FM5 TP 5
		C741	OCC1000W105	10PF 500V D SL TR
		C742	OCC1000W105	10PF 500V D SL TR
		C743	OCE106CN638	"10UF SHL,SD 100V M FM5 TP 5"
		C744	OCN1020K519	1000P 50V K B TA52
		C771	OCK6810K515	680P 50V K B TS
		C772	OCK4710W515	470P 500V K B TS
		C801	OCK6821N419	6800PF 100V J PE NI TP
		C802	181-288B	MKT 100V 104JTR PHS26104
		C803	OCE106CK638	"10UF SHL,SD 50V M FM5 TP 5"
		C804	181-288D	MKT 100V 473JTR PHS26473
		C805	181-476R	2200 D 100V H PP NI TP5
		C806	OCE227CH638	"220UF SHL,SD 25V M FM5 TP 5"
		C807	181-288B	MKT 100V 104JTR PHS26104
		C808	OCC1000K115	10P 50V D NP0 TS
		C809	OCK1020K515	1000PF 50V K B TR
		C810	OCE105CK638	"1UF SHL,SD 50V 20% FM5 TP 5"
		C811	OCE476CH638	"47UF SHL,SD 25V M FM5 TP 5"
		C812	OCE107CH638	"100UF SHL,SD 25V M FM5 TP 5"
		C813	OCE106CK638	"10UF SHL,SD 50V M FM5 TP 5"
		C814	OCK5610K515	560P 50V K B TS
		C815	OCE227CF638	"220UF SHL,SD 16V M FM5 TP 5"
		C817	OCE476CH638	"47UF SHL,SD 25V M FM5 TP 5"
		C818	181-288J	MKT 100V 563JTR PHS26563
		C819	181-477U	333J 19.5*13.0*7.5*7.5 250V J PU TP7.5
		C821	OCN1040K949	0.1M 50V Z F TA52
		C823	OCK1010K515	100PF 50V K B TR
		C832	OCK10102515	100PF D 2KV 10% B(Y5P) TR
		C833	181-482C	154J 18.0*14.0*8.0*7.5 250V J MPP TP7.5
		C834	OCN1040K949	0.1M 50V Z F TA52
		C835	OCBZTTA001R	103J 20.0*17.0*10.0*7.5 800V J BUP TP7.5
		C841	OCE107CR650	100UF SHL 250V M FM7.5 BULK
		C842	OCBZTTA002A	2000PF D 2.5KV J M/PP NI TP7.5 .

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*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON					
		C843	0CQ3321N419	3300P 100V J POLY NI TP					
		C844	0CBZTTA002A	2000PF D 2.5KV J M/PP NI TP7.5 .					
		C845	181-288B	MKT 100V 104JTR PHS26104					
		C846	0CE108EF618	1000UF KMG 16V M FL TP 5					
		C847	0CQ2221N419	2200PF 100V J PE NI TP					
		C848	0CK47101515	470P 1KV K B TS					
		C849	0CK6810W515	680P 500V K B TS					
		C850	0CK1040K945	0.1UF 50V Z F TR					
		C851	0CK1040K945	0.1UF 50V Z F TR					
		C852	0CN1040K949	0.1M 50V Z F TA52					
		C854	181-482G	334J 18.0*18.0*11.0*7.5 250V J MPP TP7.5					
		C855	181-303A	104J 20.5*18.5*10.5*10.0 250V J PU FM10					
		C857	181-305N	105J 26.0*22.5*14.0*15.0 250V J MPP FM15					
		C858	181-303A	104J 20.5*18.5*10.5*10.0 250V J PU FM10					
		C859	181-477X	563J 19.5*15.5*9.0*7.5 250V J PU TP7.5					
		C860	0CN1040K949	0.1M 50V Z F TA52					
		C861	0CN1040K949	0.1M 50V Z F TA52					
		C864	0CN1040K949	0.1M 50V Z F TA52					
		C865	0CE105CK638	"1UF SHL,SD 50V 20% FM5 TP 5"					
		C891	0CZZTFT001J	ECQB1H562JM3 562J 50V TP5.0					
				MATSUSHITA					
		C892	0CZZTFT001M	ECQB1H103JF3 MATSUSHITA 50V					
				10000PF 5% TAPING 103J					
		C893	181-288B	MKT 100V 104JTR PHS26104					
		C894	0CZZTFT001L	ECQB1H822JM3 822J 50V TP5.0					
				MATSUSHITA					
		C895	181-288B	MKT 100V 104JTR PHS26104					
		C896	181-288Q	MKT 100V 154JTR PHS26154					
		C901	0CKZTTA003C	SC E 472M 14.0FF7 250V TP7.5 SAMWHA					
				Y2					
		C902	0CKZTTA003C	SC E 472M 14.0FF7 250V TP7.5 SAMWHA					
				Y2					
		C903	0CK10101515	100PF 1KV K B TR					
		C904	181-304V	393J 19.5*15.5*9.5*10.0 400V J PU FM10					
		C905	181-124R	220UF SMG(25.4*40) 400V M VNSN BULK					
		C906	0CE475CN638	"4.7UF SHL,SD 100V M FM5 TP 5"					
		C907	0CE476CK638	"47UF SHL,SD 50V M FM5 TP 5"					
		C908	0CK1040K945	0.1UF 50V Z F TR					
		C909	181-288T	MKT 100V 223KTR PHS85223					
		C910	0CZZTFT001N	ECQB1H123JM3 123J 50V TP5.0					
				MATSUSHITA					
		C911	0CE108CD618	1000UF SHL 10V M FL TP5					
		C912	0CE475CK638	"4.7UF SHL,SD 50V M FM5 TP 5"					
		C915	0CE476CH638	"47UF SHL,SD 25V M FM5 TP 5"					
		C916	0CK2220K515	2200P 50V K B TS					
		C917	0CKZTTA003C	SC E 472M 14.0FF7 250V TP7.5 SAMWHA					
				Y2					
		C918	0CKZTTA003C	SC E 472M 14.0FF7 250V TP7.5 SAMWHA					
				Y2					
		C920	0CC47001505	47PF 1KV K SL TR					
		C921	0CE227CR650	220UF SHL 250V M FM7.5 BULK					
		C922	0CE3376N650	330M SMS 100V M FM7.5					
		C923	0CK1010W515	100P 500V K B TS					
		C925	0CE228CH618	2200U SHL 25V M FL TP5					
		C926	0CE108EF618	1000UF KMG 16V M FL TP 5					
		C927	0CE228CH618	2200U SHL 25V M FL TP5					
		C928	0CE108EF618	1000UF KMG 16V M FL TP 5					
		C929	0CK1020K515	1000PF 50V K B TR					
		C930	0CQ2721N419	2700PF 100V J PE NI TP					
		C931	0CK1010W515	100P 500V K B TS					
		C932	0CC47001505	47PF 1KV K SL TR					
		C953	0CE477CF638	470UF SHL TYPE 16V M FM5 TP 5					
		C970	0CE476CH638	"47UF SHL,SD 25V M FM5 TP 5"					

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*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON	
DIODES					
		D201	0DLTX0039AA	TIANXING TL-50194-5W-C-TA(TIN) TP GREEN/YELLOW 44/23	
		D301	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)	
		D302	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)	
		D303	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)	
		D304	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)	
		D305	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)	
		D306	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)	
		D307	0DS124409AA	1SS244 TP ROHM KOREA	
		D308	0DS124409AA	1SS244 TP ROHM KOREA	
		D309	0DS124409AA	1SS244 TP ROHM KOREA	
		D310	0DS124409AA	1SS244 TP ROHM KOREA	
		D311	0DS124409AA	1SS244 TP ROHM KOREA	
		D312	0DS124409AA	1SS244 TP ROHM KOREA	
		D313	0DS124409AA	1SS244 TP ROHM KOREA	
		D314	0DS124409AA	1SS244 TP ROHM KOREA	
		D315	0DS124409AA	1SS244 TP ROHM KOREA	
		D316	0DR140059DA	"1N4005TB52 TP LITEON DO41 600V 1A 40A SEC 5UA"	
		D401	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)	
		D402	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)	
		D405	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)	
		D451	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)	
		D453	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)	
		D701	0DR400409AC	UF4004 GULF TP DO41 400V 1A 30A 50NSEC 10UA	
		D702	0DR400409AC	UF4004 GULF TP DO41 400V 1A 30A 50NSEC 10UA	
		D703	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)	
		D704	0DR100009CA	RGP10G TP GULF SEMICONDUCTOR LTD. DO41 400V 1A 30A - 100UA	
		D706	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)	
		D707	0DR100009DA	RGP10J TP GULF SEMICONDUCTOR LTD. DO41 600V 1A 30A - 100UA	
		D708	0DRFJ00011A	YG339D6F208 FUJI ST TO220 -400V 5A 20A 50NSEC 100UA	
		D731	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)	
		D732	0DD400709CB	UF4007 TP G.I DO204AL 1000V 1A 30A 75NS 10UA	
		D733	0DD400709CB	UF4007 TP G.I DO204AL 1000V 1A 30A 75NS 10UA	
		D734	0DD400709CB	UF4007 TP G.I DO204AL 1000V 1A 30A 75NS 10UA	
		D735	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)	
		D736	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)	
		D737	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1	

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*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON	
		D738	0DS141489AB	25NA(20V) 1N4148 TP GRANDE DO-34 500MW 1	
		D740	0DS141489AB	25NA(20V) 1N4148 TP GRANDE DO-34 500MW 1	
		D771	0DS141489AB	25NA(20V) 1N4148 TP GRANDE DO-34 500MW 1	
		D772	0DS141489AB	25NA(20V) 1N4148 TP GRANDE DO-34 500MW 1	
		D773	0DS141489AB	25NA(20V) 1N4148 TP GRANDE DO-34 500MW 1	
		D801	0DS141489AB	25NA(20V) 1N4148 TP GRANDE DO-34 500MW 1	
		D802	0DS141489AB	25NA(20V) 1N4148 TP GRANDE DO-34 500MW 1	
		D803	0DS141489AB	25NA(20V) 1N4148 TP GRANDE DO-34 500MW 1	
		D804	0DS141489AB	25NA(20V) 1N4148 TP GRANDE DO-34 500MW 1	
		D805	0DS141489AB	25NA(20V) 1N4148 TP GRANDE DO-34 500MW 1	
		D808	0DS141489AB	25NA(20V) 1N4148 TP GRANDE DO-34 500MW 1	
		D811	0DS141489AB	25NA(20V) 1N4148 TP GRANDE DO-34 500MW 1	
		D812	0DS141489AB	25NA(20V) 1N4148 TP GRANDE DO-34 500MW 1	
		D831	0DRGF00150A	UF5404 GULF BK DO201AD 400V 3.0A 150A 50NSSEC 10.0UA	
		D833	0DR140059DA	"1N4005TB52 TP LITEON DO41 600V 1A 40A ,SEC 5UA"	
		D834	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1	
		D835	0DRGF00069A	25NA(20V) SB140 GULF TP DO41 40V 1A 40A .SEC 1MA	
		D836	0DRGF00069A	SB140 GULF TP DO41 40V 1A 40A .SEC 1MA	
		D837	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1	
		D838	0DRFC00020A	25NA(20V) FFPF10F150S FAIR CHILD BK TO220F 1500V 10A 100A 170NSSEC 10UA	
		D839	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1	
		D840	0DR100009DA	25NA(20V) RGP10J TP GULF SEMICONDUCTOR LTD. DO41 600V 1A 30A - 100UA	
		D861	0DRGF00069A	SB140 GULF TP DO41 40V 1A 40A .SEC 1MA	
		D901	0DRGF00090A	GBL06 GULF BK GBL 600V 4A 120A .SEC 10UA	
		D902	0DRGF00109A	GUF10M GULF TP DO41 1000V 1A 30A 75NSEC 10UA	
		D903	0DR100009CA	RGP10G TP GULF SEMICONDUCTOR LTD DO41 400V 1A 30A - 100UA	
		D904	0DR100009DA	RGP10J TP GULF SEMICONDUCTOR LTD. DO41 600V 1A 30A - 100UA	
		D905	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1	
		D907	0DS141489AB	25NA(20V) 1N4148 TP GRANDE DO-34 500MW 1	
		D908	0DS141489AB	25NA(20V) 1N4148 TP GRANDE DO-34 500MW 1	
		D910	0DRGF00139A	25NA(20V) GPP20J GULF TP DO15 600V 2.0A 70A 2.0USSEC 5.0UA	
		D913	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1	
				25NA(20V)	

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*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		D914	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)
		D920	0DRSD00079A	D2L20U SHINDENGEN TP DO-204AC 200V 1.5A 40A 35NSEC 10UA
		D921	0DRSD00079A	D2L20U SHINDENGEN TP DO-204AC 200V 1.5A 40A 35NSEC 10UA
		D922	0DRGF00150A	UF5404 GULF BK DO201AD 400V 3.0A 150A 50NSSEC 10.0UA
		D923	0DRGS00400A	31GF4 GENERAL SEMICONDUCTOR BK DO201AD 400V 3A 60A 30NSSEC -A
		D924	0DR260400AA	S2L60-4004P15 BK SHINDENGEN NON 600V 1.5A 50A 50NS
		D925	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)
		D926	0DR260400AA	S2L60-4004P15 BK SHINDENGEN NON 600V 1.5A 50A 50NS
		D927	0DS141489AB	1N4148 TP GRANDE DO-34 500MW 1 25NA(20V)
		D929	0DRGS00400A	31GF4 GENERAL SEMICONDUCTOR BK DO201AD 400V 3A 60A 30NSSEC -A
		D951	0DR100009CA	RGP10G TP GULF SEMICONDUCTOR LTD. DO41 400V 1A 30A - 100UA
		ZD401	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD402	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD403	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD404	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD405	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD407	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD408	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD409	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD410	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD601	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD703	0DZ510009BE	GDZ5.1B TP GRANDE DO34 500MW 5.1V 20MA .PF
		ZD711	0DZ180009BD	GDZJ18B TP GRANDE DO34 0.5W 18V 5MA .PF
		ZD712	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD801	0DZ110009AD	MTZJ11B TP ROHM-K DO34 500MW 11V 5MA
		ZD802	0DZ180009BD	GDZJ18B TP GRANDE DO34 0.5W 18V 5MA .PF
		ZD804	0DZ180009BD	GDZJ18B TP GRANDE DO34 0.5W 18V 5MA .PF
		ZD902	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
COILs&COREs				
		FB301	6210TCZ001J	BAS3550T0(125-022J) BO SUNG RH3.5*5.0*0.8TMM AXIAL52MM
		FB302	6210TCE003A	BRD3510B BO SUNG 3510MM RADIAL
		FB303	6210TCZ001J	BAS3550T0(125-022J) BO SUNG RH3.5*5.0*0.8TMM AXIAL52MM

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*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON	
		FB304	6210TCZ001J	BAS3550T0(125-022J) BO SUNG RH3.5*5.0*0.8TMM AXIAL52MM	
		FB305	6210TCE003J	BAS2550T BO SUNG 2550MM AXIAL52MM	
		FB306	6210TCE003A	BRD3510B BO SUNG 3510MM RADIAL	
		FB309	6210TCE003B	BRS3580B BO SUNG 3580MM RADIAL	
		FB310	6210TCE003A	BRD3510B BO SUNG 3510MM RADIAL	
		FB311	6210TCE003A	BRD3510B BO SUNG 3510MM RADIAL	
		FB401	6210TCE003J	BAS2550T BO SUNG 2550MM AXIAL52MM	
		FB402	6210TCE003N	BRD3565B BO SUNG 3565MM RADIAL	
		FB403	6210TCE003L	BAS3580T BO SUNG 3580MM AXIAL52MM	
		FB404	6210TCE003F	BRD3580B BO SUNG 3580MM RADIAL	
		FB405	6210TCE003F	BRD3580B BO SUNG 3580MM RADIAL	
		FB406	6210TCE003A	BRD3510B BO SUNG 3510MM RADIAL	
		FB407	6210TCE003A	BRD3510B BO SUNG 3510MM RADIAL	
		FB701	6210TCE003J	BAS2550T BO SUNG 2550MM AXIAL52MM	
		FB801	6210TCE003J	BAS2550T BO SUNG 2550MM AXIAL52MM	
		FB841	6210TCE003P	BRS2550B BO SUNG 2550MM RADIAL	
		FB901	6210TCE003J	BAS2550T BO SUNG 2550MM AXIAL52MM	
		FB902	6210TCE003A	BRD3510B BO SUNG 3510MM RADIAL	
		FB903	6210TCE003H	BAS3510T BO SUNG 3510MM AXIAL52MM	
		FB904	6210TCE003H	BAS3510T BO SUNG 3510MM AXIAL52MM	
		FB905	6210TCE003C	BRD3514B BO SUNG 3514MM RADIAL	
		FB906	6210TCE003H	BAS3510T BO SUNG 3510MM AXIAL52MM	
		FB907	6210TCE003J	BAS2550T BO SUNG 2550MM AXIAL52MM	
		FB908	6210TCE003J	BAS2550T BO SUNG 2550MM AXIAL52MM	
		FB909	6210TCE003H	BAS3510T BO SUNG 3510MM AXIAL52MM	
		J54	6210TCE003J	BAS2550T BO SUNG 2550MM AXIAL52MM	
		J315	6210TCE003K	BAS3550T BO SUNG 3550MM AXIAL52MM	
		L301	6210TCE003J	BAS2550T BO SUNG 2550MM AXIAL52MM	
		L302	6210TCE003J	BAS2550T BO SUNG 2550MM AXIAL52MM	
		L303	6210TCE003J	BAS2550T BO SUNG 2550MM AXIAL52MM	
		L311	0LA0470K119	0.47UH K 2.3*3.4 TP	
		L312	0LA0560K119	0.56UH K 2.3*3.4 TP	
		L313	0LA0470K119	0.47UH K 2.3*3.4 TP	
		L701	6140TBZ009C	NO CORE 10UH 0.12*15MM 50.5T FILTER CHOKE	
		L801	6140TYZ011B	- GET DR14*15 EB990G H-LIN	
		L805	150-985P	DR12*15 6MH 0.25MM 365.5T H- CENTERING	
		L806	150-985N	DR10*10 4.7UH 0.16MM 322.5T FILTER CHOKE	
		L901	6140TBZ031B	EE36SI PFC 49MH 0.5MM 228 +/- 10T .	
ICs					
		IC302	0IPRPNS025B	"LM1246DDB/NA NATIONAL SEMICONDUCTOR 24, DIP ST ONE CHIP(VIDEO+OSD)"	
		IC303	0IPRPNS007A	LM2463TA NATIONAL SEMICONDUCTOR 11P ST MONORITIC TRIPLE 4.5NS CRT DRIVER	
		IC304	0IPRPNS005A	"LM2480NA NATIONAL SEMICONDUCTOR 8P,DIP ST 80V TRIPLE BIAS CLAMP"	
		IC401	0IMCRWL007A	"WT62P2 WELTREND 42P,SDIP ST MTP MCU"	
		IC402	0ISG240860A	M24C08-BN6 8DIP BK 8K SERIAL IIC BUS EEPROM	
		IC601	0IPRPPH018A	"TDA4867J PHILIPS 9PIN,ST DIP VERTICAL OUTPUT IC"	
		IC702	0INS353000A	LF353N OP-AMP	
		IC801	0IPRPPH005A	"TDA4841PS PHILIPS 32P,SDIP ST IIC-BUS H/V SYNC PROCESSOR"	
		IC802	0IMI625010A	M62501P 16P4 BK INTERFACE PWM IC	
		IC901	0ISS384300A	KA3843B 8P SDIP BK PWM CONTROLLER	

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*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON	
		IC903	0ISS780500F	KA7805	
		IC905	0ISS781200K	KA78R12-STU TO220(4L) BK L/DROP 12V REGULATOR	
TRANSISTORS					
		Q451	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO92 PNP	
		Q452	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO92 PNP	
		Q453	0TR320209AA	KTC3202-Y(KTC1959) TP KEC TO92 NPN	
		Q458	0TR320509AB	KTC3205-Y(KTC2236A) TP KEC TO92L NPN	
		Q459	0TR127309AA	KTA1273-Y(KTA966A) TP KEC TO92L PNP	
		Q701	0TR320509AB	KTC3205-Y(KTC2236A) TP KEC TO92L NPN	
		Q704	0TF760000AD	SSS7N60B FAIRCHILD ST TO220F 650V 7A	
		Q705	0TR320209AA	KTC3202-Y(KTC1959) TP KEC TO92 NPN	
		Q706	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO92 PNP	
		Q707	0TR390409CA	FAIRCHILD 2N3904(TA) TP TO-92 60V 0.2A	
		Q708	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92 NPN	
		Q721	0TR390409CA	FAIRCHILD 2N3904(TA) TP TO-92 60V 0.2A	
		Q723	0TR390409CA	FAIRCHILD 2N3904(TA) TP TO-92 60V 0.2A	
		Q724	0TR463300AB	2SC4633(LS-CB11) BK SANYO LS-CB11 NPN	
		Q725	0TR463300AB	2SC4633(LS-CB11) BK SANYO LS-CB11 NPN	
		Q726	0TR555109AB	2N5551 TP SAMSUNG TO92 AMP TR	
		Q771	0TR920009AB	KSP92 TP SAMSUNG TO92 HIGH VOLTAGE TR	
		Q801	0TRFC10007A	FJAF6815 FAIRCHILD ST TO3PF 1500V 15A	
		Q802	0TR471009AA	KSD471AC-Y TP SAMSUNG TO92 NPN	
		Q803	0TR564009AB	KSB564AC-YTA TP SANSUNG TO92 PNP	
		Q804	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92 NPN	
		Q806	0TR471009AA	KSD471AC-Y TP SAMSUNG TO92 NPN	
		Q807	0TR564009AB	KSB564AC-YTA TP SANSUNG TO92 PNP	
		Q808	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO92 PNP	
		Q810	0TR114009AB	DTC114ES TP ROHM-K SPT NPN	
		Q811	0TF630001BB	SGS-T(STM) IRF630MFP ST TO220F 200V 5A	
		Q812	0TR114009AB	DTC114ES TP ROHM-K SPT NPN	
		Q832	0TFFC90002A	IRFNL210B FAIRCHILD TP TO-92L 200V 1A	
		Q833	0TFFC10008A	SFS9634 FAIRCHILD ST TO220F 250V 3.4A	
		Q834	0TR231609AA	KSC2316-Y TP SAMSUNG TO92L NPN	
		Q836	0TF630001BB	SGS-T(STM) IRF630MFP ST TO220F 200V 5A	
		Q837	0TF630001BB	SGS-T(STM) IRF630MFP ST TO220F 200V 5A	
		Q839	0TF640000CA	IRFS640A BK SAMSUNG 200V 9A TO220F	
		Q841	0TR114009AB	DTC114ES TP ROHM-K SPT NPN	
		Q842	0TR114009AB	DTC114ES TP ROHM-K SPT NPN	
		Q844	0TR114009AB	DTC114ES TP ROHM-K SPT NPN	
		Q901	0TFFC10010A	FQPF10N60C FAIRCHILD ST TO220F 650V 9.5A	
		Q903	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92 NPN	
		Q912	0TR127309AA	KTA1273-Y(KTA966A) TP KEC TO92L PNP	
		Q913	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92 NPN	
		Q914	0TR928009AB	KSA928A-Y TP SAMSUNG TO92L PNP	
		Q915	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92 NPN	
		Q920	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92 NPN	

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*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
RESISTORS				
		R201	ORD1001Q609	1K 1/4W(3 5% TA52
		R202	ORD1600Q609	160 1/4W(3 5% TA52
		R203	ORD2200Q609	220 1/4W(3 5% TA52
		R204	ORD2200Q609	220 1/4W(3 5% TA52
		R205	ORD1001Q609	1K 1/4W(3 5% TA52
		R206	ORD1600Q609	160 1/4W(3 5% TA52
		R207	ORD3300Q609	330 1/4W(3 5% TA52
		R208	ORD3300Q609	330 1/4W(3 5% TA52
		R209	ORD5600Q609	560 1/4W(3 5% TA52
		R210	ORD3600Q609	360 1/4W(3 5% TA52
		R211	ORD5100Q609	510 1/4W(3 5% TA52
		R301	ORD0752Q609	75 1/4W(3 5% TA52
		R302	ORD0752Q609	75 1/4W(3 5% TA52
		R303	ORD0752Q609	75 1/4W(3 5% TA52
		R305	ORN6201F409	6.20K 1/6W 1% TA52
		R314	ORD1000Q609	100 1/4W(3 5% TA52
		R315	ORD1000Q609	100 1/4W(3 5% TA52
		R319	ORD8201Q609	8.20K 1/4W(3 5% TA52
		R320	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R326	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R327	ORD2001Q609	2K 1/4W(3 5% TA52
		R328	ORD2001Q609	2K 1/4W(3 5% TA52
		R329	ORD2001Q609	2K 1/4W(3 5% TA52
		R330	ORD1000Q609	100 1/4W(3 5% TA52
		R331	ORD1500Q609	150 1/4W(3 5% TA52
		R332	ORD1800Q609	180 1/4W(3 5% TA52
		R333	ORD1300Q609	130 1/4W(3 5% TA52
		R334	ORD3303Q609	330K 1/4W(3 5% TA52
		R335	ORD3303Q609	330K 1/4W(3 5% TA52
		R336	ORD3303Q609	330K 1/4W(3 5% TA52
		R337	ORD1500Q609	150 1/4W(3 5% TA52
		R340	ORN1002F409	10K 1/6W 1 TA52
		R341	ORD0332A609	33 OHM 1/2 W (7.0) 5% TA52
		R342	ORD0332A609	33 OHM 1/2 W (7.0) 5% TA52
		R343	ORD0332A609	33 OHM 1/2 W (7.0) 5% TA52
		R344	ORD0332Q609	33 1/4W(3 5% TA52
		R345	ORD0332Q609	33 1/4W(3 5% TA52
		R346	ORD0332Q609	33 1/4W(3 5% TA52
		R401	ORD3300Q609	330 1/4W(3 5% TA52
		R402	ORD1000Q609	100 1/4W(3 5% TA52
		R403	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R405	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R406	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R407	ORD1000Q609	100 1/4W(3 5% TA52
		R412	ORD1000Q609	100 1/4W(3 5% TA52
		R413	ORD2202Q609	22K 1/4W(3 5% TA52
		R414	ORD2202Q609	22K 1/4W(3 5% TA52
		R415	ORD2202Q609	22K 1/4W(3 5% TA52
		R416	ORD2202Q609	22K 1/4W(3 5% TA52
		R418	ORD2000Q609	200 1/4W(3 5% TA52
		R420	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R421	ORD1001Q609	1K 1/4W(3 5% TA52
		R422	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R423	ORD1000Q609	100 1/4W(3 5% TA52
		R424	ORN1002F409	10K 1/6W 1 TA52
		R425	ORD2001Q609	2K 1/4W(3 5% TA52
		R426	ORD2001Q609	2K 1/4W(3 5% TA52
		R428	ORD1000Q609	100 1/4W(3 5% TA52
		R429	ORD1000Q609	100 1/4W(3 5% TA52
		R430	ORD1801Q609	1.80K 1/4W(3 5% TA52
		R431	ORD1801Q609	1.80K 1/4W(3 5% TA52
		R432	ORD1301Q609	1.30K 1/4W(3 5% TA52

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*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		R434	ORN1002F409	10K 1/6W 1 TA52
		R440	ORD1000Q609	100 1/4W(3 5% TA52
		R443	ORD1001Q609	1K 1/4W(3 5% TA52
		R451	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R452	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R453	ORD1500Q609	150 1/4W(3 5% TA52
		R454	ORD6201Q609	6.20K 1/4W(3 5% TA52
		R456	ORD0622A609	62 OHM 1/2 W (7.0) 5% TA52
		R461	ORX0472J609	47 OHM 1 W 5% TA52
		R462	ORD0102A609	10 OHM 1/2 W (7.0) 5% TA52
		R463	ORD6801Q609	6.80K 1/4W(3 5% TA52
		R464	ORN1000F409	100OHM 1/6 W 1% TA52
		R465	ORN6202F409	62KOHM 1/6 W 1% TA52
		R466	ORD4302Q609	43K 1/4W(3 5% TA52
		R467	ORN5601F409	5.60K 1/6W 1% TA52
		R473	ORD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R493	ORD1000Q609	100 1/4W(3 5% TA52
		R494	ORD1000Q609	100 1/4W(3 5% TA52
		R601	ORD2001Q609	2K 1/4W(3 5% TA52
		R602	ORD2001Q609	2K 1/4W(3 5% TA52
		R603	ORD0111A509	1.1 OHM 1/2 W(7.0) 2% TA52
		R604	ORD0331A609	3.3 OHM 1/2 W (7.0) 5% TA52
		R605	ORN1202F409	12K 1/6W 1% TA52
		R606	ORN1502F409	15K 1/6W 1% TA52
		R607	ORD1500A609	150 OHM 1/2 W (7.0) 5% TA52
		R608	ORD1000Q609	100 1/4W(3 5% TA52
		R609	ORD1000A609	100 OHM 1/2 W (7.0) 5% TA52
		R610	ORN0390H609	0.39 1/2W 5 TA52
		R701	ORMZTWD001C	47 OHM 7 W 5% RWR PD-TYPE
		R702	ORD1002Q609	10K 1/4W(3 5% TA52
		R703	ORD3301Q609	3.30K 1/4W(3 5% TA52
		R704	ORD2201Q609	2.20K 1/4W(3 5% TA52
		R705	ORB0150K609	0.15 OHM 2 W 5% TA52
		R706	ORD1003Q609	100K 1/4W(3 5% TA52
		R707	ORD5601Q609	5.60K 1/4W(3 5% TA52
		R710	ORD0222Q609	22 1/4W(3 5% TA52
		R711	ORN1502F409	15K 1/6W 1% TA52
		R712	ORD1003Q609	100K 1/4W(3 5% TA52
		R714	ORD1001Q609	1K 1/4W(3 5% TA52
		R715	ORD5601Q609	5.60K 1/4W(3 5% TA52
		R716	ORD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R717	ORD1000Q609	100 1/4W(3 5% TA52
		R718	ORN0121H609	1.2 1/2W 5 TA52
		R718-1	ORN0910H609	0.91 1/2W 5 TA52
		R719	ORD0332Q609	33 1/4W(3 5% TA52
		R720	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R721	ORN7501F409	7.50K 1/6W 1% TA52
		R722	ORD1003Q609	100K 1/4W(3 5% TA52
		R723	ORN1302F409	13K 1/6W 1% TA52
		R730	ORD7502Q609	75K 1/4W(3 5% TA52
		R731	ORD1000Q609	100 1/4W(3 5% TA52
		R732	ORD1001Q609	1K 1/4W(3 5% TA52
		R733	ORD4702Q609	47K 1/4W(3 5% TA52
		R734	ORD2001Q609	2K 1/4W(3 5% TA52
		R735	ORD1002Q609	10K 1/4W(3 5% TA52
		R736	ORD2001A609	2.0K OHM 1/2 W (7.0) 5% TA52
		R737	ORD6801Q609	6.80K 1/4W(3 5% TA52
		R738	ORN2702F409	27K 1/6W 1% TA52
		R739	ORC1004A609	1M OHM 1/2 W(7.0) 5% TA52
		R740	ORN1503G409	150K 1/4W 1 TA52
		R741	ORD2001Q609	2K 1/4W(3 5% TA52
		R742	ORD6800Q609	680 1/4W(3 5% TA52
		R743	ORD1000A609	100 OHM 1/2 W (7.0) 5% TA52
		R744	ORX1502J609	15KOHM 1 W 5% TA52

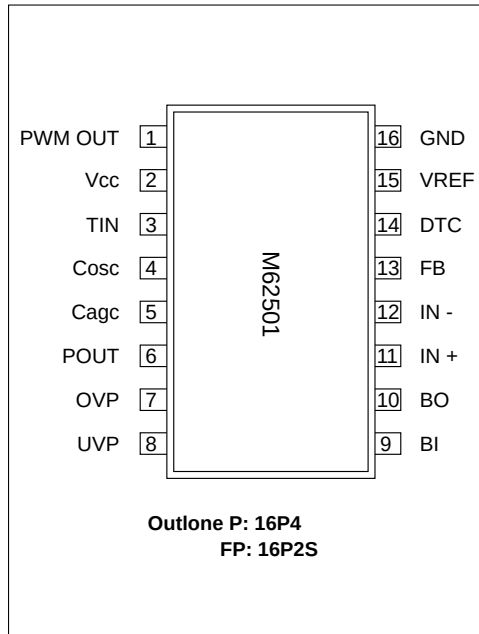
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*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON					
		R745	0RD0472Q609	47 1/4W(3 5% TA52					
		R746	0RX1503L607	150K OHM 3 W 5% TA62					
		R747	0RX1503L607	150K OHM 3 W 5% TA62					
		R748	0RD0472Q609	47 1/4W(3 5% TA52					
		R749	0RD4300Q609	430 OHM 1/4 W(3.4) 5.00% TA52					
		R750	0RD6800Q609	680 1/4W(3 5% TA52					
		R751	0RX0102J609	10 OHM 1 W 5% TA52					
		R764	0RD0472Q609	47 1/4W(3 5% TA52					
		R771	0RD1101Q609	1.1K OHM 1/4 W (3.4) 5% TA52					
		R773	0RN1803H409	180K OHM 1/2 W 1% TA52					
		R774	0RD5102Q509	51K OHM 1/4 W (3.4) 2% TA52					
		R775	0RD3300Q609	330 1/4W(3 5% TA52					
		R776	0RD7502Q609	75K 1/4W(3 5% TA52					
		R780	0RD2202Q609	22K 1/4W(3 5% TA52					
		R801	0RD1502Q609	15K 1/4W(3 5% TA52					
		R802	0RD2202Q509	22K OHM 1/4 W(3.4) 2% TA52					
		R803	0RD3302Q609	33K 1/4W(3 5% TA52					
		R805	0RD1002Q609	10K 1/4W(3 5% TA52					
		R806	0RD1002Q609	10K 1/4W(3 5% TA52					
		R807	0RD1001Q609	1K 1/4W(3 5% TA52					
		R808	0RD1001Q609	1K 1/4W(3 5% TA52					
		R809	0RD3902Q509	39K OHM 1/4 W(3.4) 2% TA52					
		R810	0RD1001Q609	1K 1/4W(3 5% TA52					
		R811	0RD1001Q609	1K 1/4W(3 5% TA52					
		R812	0RD2201Q609	2.20K 1/4W(3 5% TA52					
		R813	0RD2401Q609	2.40K 1/4W(3 5% TA52					
		R814	0RN1202F409	12K 1/6W 1% TA52					
		R815	0RN4700F409	470 1/6W 1 TA52					
		R816	0RD1001Q609	1K 1/4W(3 5% TA52					
		R817	0RD1002Q609	10K 1/4W(3 5% TA52					
		R818	0RD2701Q609	2.70K 1/4W(3 5% TA52					
		R822	0RN3601F409	3.6K 1/6W 1 TA52					
		R823	0RD2703Q609	270K 1/4W(3 5% TA52					
		R824	0RN4700F409	470 1/6W 1 TA52					
		R825	0RN1002F409	10K 1/6W 1 TA52					
		R826	0RN1202F409	12K 1/6W 1% TA52					
		R827	0RN1002F409	10K 1/6W 1 TA52					
		R830	0RD1002Q609	10K 1/4W(3 5% TA52					
		R831	0RN1002F409	10K 1/6W 1 TA52					
		R835	0RD4700Q609	470 OHM 1/4 W (3.4) 5% TA52					
		R836	0RD1002A609	10K OHM 1/2 W (7.0) 5% TA52					
		R837	0RD1202Q509	12K OHM 1/4 W (3.4) 2% TA52					
		R838	0RD0101Q609	1 1/4W(3 5% TA52					
		R841	0RD5601Q609	5.60K 1/4W(3 5% TA52					
		R842	0RMZTWD001A	4.7 OHM 5 W 5% B RWR					
		R843	0RX1003J609	100KOHM 1 W 5% TA52					
		R846	0RD0332A609	33 OHM 1/2 W (7.0) 5% TA52					
		R847	0RD1000A609	100 OHM 1/2 W (7.0) 5% TA52					
		R848	0RD0471A609	4.7 OHM 1/2 W (7.0) 5% TA52					
		R849	0RX1300J609	130 OHM 1 W 5% TA52					
		R850	0RMZTWD001C	47 OHM 7 W 5% RWR PD-TYPE					
		R851	0RD4701Q609	4.70K 1/4W(3 5% TA52					
		R853	0RD4701Q609	4.70K 1/4W(3 5% TA52					
		R857	0RD3001Q609	3K 1/4W(3 5% TA52					
		R859	0RD0102Q609	10 1/4W(3 5% TA52					
		R860	0RD1000Q609	100 1/4W(3 5% TA52					
		R861	0RMZTWD001L	RWR SMART 1.5OHM 5 W 5% PD TYPE					
		R862	0RN0390J607	0.39 1W 5% TA62					
		R865	0RD4701Q609	4.70K 1/4W(3 5% TA52					
		R871	0RX2200K607	220 OHM 2 W 5% TA62					
		R872	0RD2401Q609	2.40K 1/4W(3 5% TA52					
		R873	0RD0122A609	12 OHM 1/2 W (7.0) 5% TA52					
		R874	0RX0332K607	33 OHM 2 W 5% TA62					

MODEL: F720PK				DATE:2004.03.01
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		R875	0RX0242K607	24 OHM 2 W 5.00% TA62
		R876	0RD3002Q509	30000 OHM 1/4 W (3.4) 2% TA52
		R878	0RX0182K607	18 OHM 2 W 5% TA62
		R891	0RN2701F409	2.7K OHM 1/6 W 1.00% TA52
		R892	0RN6800F409	680 1/6W 1% TA52
		R893	0RD3301Q609	3.30K 1/4W(3 5% TA52
		R894	0RN2202F409	22K 1/6W 1% TA52
		R895	0RD1000Q609	100 1/4W(3 5% TA52
		R896	0RD1000Q609	100 1/4W(3 5% TA52
		R902	0RD0512Q609	51 1/4W(3 5% TA52
		R903	0RD0752Q609	75 1/4W(3 5% TA52
		R904	0RX3902K665	39K OHM 2 W 5% SF
		R905	0RX1003K607	100KOHM 2 W 5% TA62
		R906	0RX1003K607	100KOHM 2 W 5% TA62
		R907	0RD3901Q609	3.90K 1/4W(3 5% TA52
		R908	0RN0220H609	0.22 1/2W 5% TA52
		R909	0RD1002Q609	10K 1/4W(3 5% TA52
		R910	0RN1602H409	16000 OHM 1/2 W 1% TA52
		R911	0RN6200F409	620 1/6W 1% TA52
		R912	0RD1001Q609	1K 1/4W(3 5% TA52
		R913	0RB0120K607	0.12 OHM 2 W 5% TA62
		R914	0RD2000Q609	200 1/4W(3 5% TA52
		R915	0RD8203Q609	820KOHM 1/4 W (3.4) 5% TA52
		R916	0RD8203Q609	820KOHM 1/4 W (3.4) 5% TA52
		R917	0RD0622Q609	62 OHM 1/4 W(3.4) 5.00% TA52
		R918	0RD1003Q609	100K 1/4W(3 5% TA52
		R919	0RD2002Q609	20K 1/4W(3 5% TA52
		R920	0RD0392Q609	39 1/4W(3 5% TA52
		R921	0RD0332Q609	33 1/4W(3 5% TA52
		R922	0RD5601Q609	5.60K 1/4W(3 5% TA52
		R925	0RD1501Q609	1.50K 1/4W(3 5% TA52
		R926	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R929	0RN0220H609	0.22 1/2W 5% TA52
		R930	0RN0220H609	0.22 1/2W 5% TA52
		R931	0RC4703A609	470K OHM 1/2 W(7.0) 5% TA52
		R932	0RC4703A609	470K OHM 1/2 W(7.0) 5% TA52
		R933	0RD0472Q609	47 1/4W(3 5% TA52
		R934	0RD3302Q609	33K 1/4W(3 5% TA52
		R935	0RD3301Q609	3.30K 1/4W(3 5% TA52
		R941	0RD2703Q609	270K 1/4W(3 5% TA52
		R949	0RN0220H609	0.22 1/2W 5% TA52
		R951	0RD1101A609	1.1K OHM 1/2 W (7.0) 5% TA52
		R952	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R954	0RD4700A609	470 OHM 1/2 W (7.0) 5% TA52
		R955	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R990	0RD0512Q609	51 1/4W(3 5% TA52
		R991	0RD5101Q609	5.10K 1/4W(3 5% TA52
		R992	0RD5101Q609	5.10K 1/4W(3 5% TA52
OTHERs				
		F1	430-858C	AFC-520 BAE EUN TA
		F2	430-858C	AFC-520 BAE EUN TA
		F901	0FZZTTH001B	"TIME LAG HBC 5A/250V,215 005,LITTELFUSE"
		RL901	6920TBB007A	JZC-42012-2HS HONGMEI 250VAC 5A 12V 2A NO VENTING
		SC301	6620TBD004A	GZS10-2-101 DUOLING(SANLING) 10PIN 14/360 STRAIGHT
		SC901	6200TJB001N	02MD5 DELTA BK F900BJ
		SG301	6918TAT007A	KSA-201-MA Y&Y UNICTRON AXIAL TAPING
		SG302	6918TAT007A	KSA-201-MA Y&Y UNICTRON AXIAL TAPING

PIN CONFIGURATION

M62501P /FP

PIN CONFIGURATION(TOP VIEW)

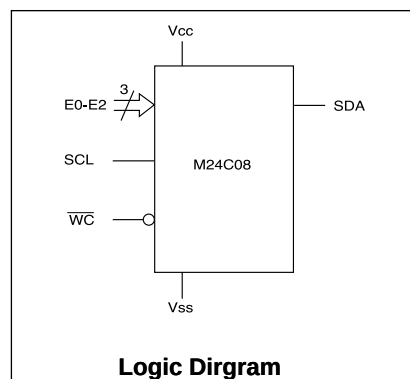
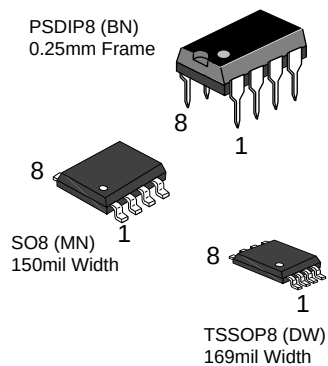


Teerminal Number and The facility

PIN NO.	Symbol	Functional Description
1	PWM OUT	PWM output terminal
2	Vcc	Power supply terminal
3	TIN	Trigger Input terminal
4	CAGC	This pin is used to set oscillating frequency
5	CAGC	This pin is used for AGC setting
6	P.OUT	Output terminal of error signal
7	OVP	Input terminal of Over Voltage Protection
8	UVP	Input terminal of Under Voltage Protection
9	BI	Postive Input terminal of Buffer Amp
10	BO	Output terminal of Buffer Amp
11	IN ⁺	Postive Input terminal of OP Amp
12	IN ⁻	Negative Input terminal of OP Amp
13	FB	Output terminal of OP Amp
14	DTC	Dead time control terminal(Soft start function)
15	VREF	Output terminal of reference voltage (5V)
16	GND	Ground terminal

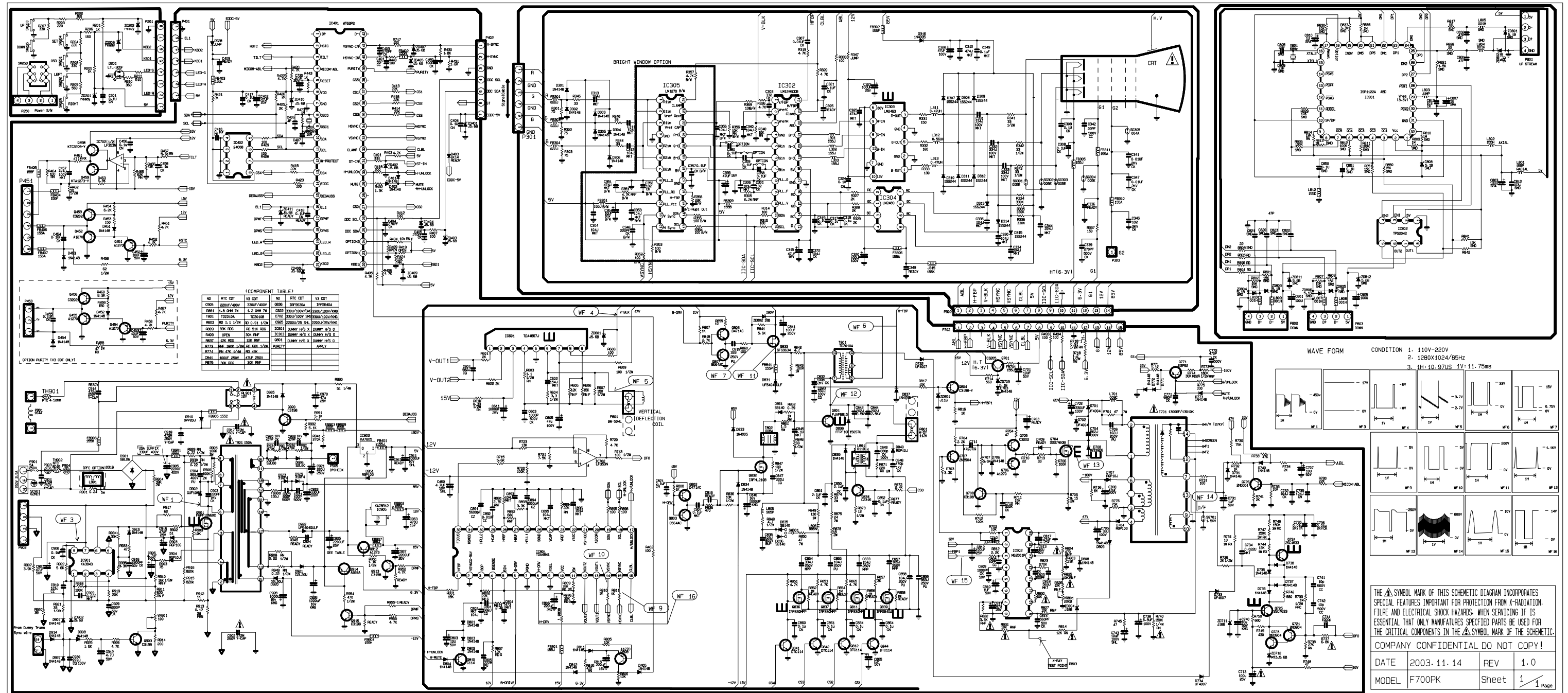
M24C08

Serial I²C BUS EEPROM



SYMBOL	DESCRIPTION
E0-E2	Chip Enable Input
SDA	Serial Data Address Input/Output
SCL	Serial Clock
WC	Write Control
Vcc	Supply Voltage
Vss	Ground

SCHEMATIC DIAGRAM





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