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## SPECIFICATIONS

### 1. PICTURE TUBE

- Size : 17 inch
- Deflection Angle : 90°
- Neck Diameter : 29.1 mm
- Stripe Pitch : 0.25 mm
- Face Treatment : W-ARASC (Anti-Reflection and Anti-Static Coating)
- Internal : Anti-Glare

### 2. SIGNAL

- 2-1. Horizontal & Vertical Sync
  - 1) Input Voltage Level : Low=0~1.2V, High=2.5~5.5V
  - 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
  - 3 row 15-pin Connector (Attached)

- 2-4. Scanning Frequency
  - Horizontal : 30 ~ 71 kHz
  - Vertical : 50 ~ 160 Hz

### 3. POWER SUPPLY

- 3-1. Power Range
  - AC 100-240V~ 50/60Hz, 1.0A

### 3-2. Power Consumption

MODE	POWER CONSUMPTION	LED COLOR
MAX	85 W	GREEN
NORMAL (ON)	73 W	GREEN
STAND-BY	less than 15 W	AMBER
SUSPEND	less than 15 W	AMBER
DPMS OFF	less than 5 W	AMBER

### 4. DISPLAY AREA

- 4-1. Active Video Area :
  - Max Image Size - 325.1 x 243.8 mm (12.80" x 9.60")
  - Preset Image Size - 310 x 230 mm (12.20" x 9.06")
- 4-2. Display Color : Full Colors
- 4-3. Display Resolution : 1280 x 1024 / 60Hz(Max)  
(Non-Interlace)
- 4-4. Video Bandwidth : 110 MHz

### 5. ENVIRONMENT

- 5-1. Operating Temperature: 0°C ~ 40°C  
(Ambient)
- 5-2. Relative Humidity : 10%~ 90%  
(Non-condensing)
- 5-3. Altitude : 5,000 m

### 6. DIMENSIONS (with TILT/SWIVEL)


- Width : 400 mm (15.75 inch)
- Depth : 411 mm (16.18 inch)
- Height : 397.5 mm (15.65 inch)

### 7. WEIGHT (with TILT/SWIVEL)

- Net Weight : 14.0 kg (30.87 lbs.)
- Gross Weight : 16.8 kg (37.04 lbs.)

# 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 25.8KV. The following steps describe how to measure the high voltage and how to prevent X-radiation.

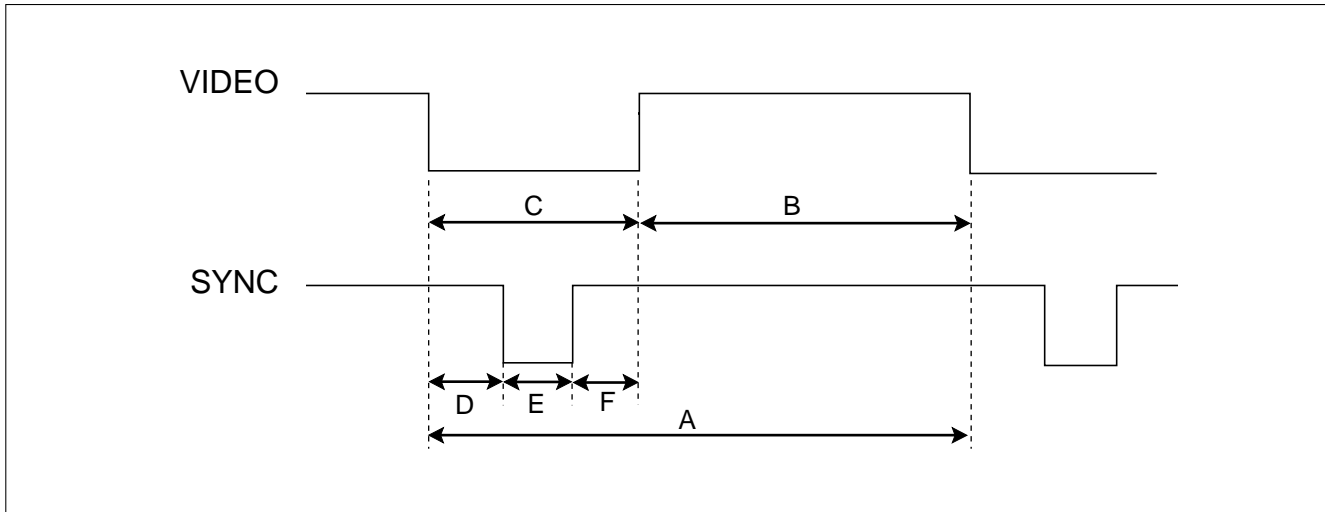
**Note :** It is important to use an accurate high voltage meter calibrated periodically.

- 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



<< Dot Clock (MHz), Horizontal Frequency (kHz), Vertical Frequency (Hz), Horizontal etc... (μs), Vertical etc... (ms) >>

Mode	H/V Sort	Sync Polarity	Frequency	Total Period (A)	Video Active Time (B)	Blanking Time (C)	Sync Duration (E)	Back Porch (F)	Front Porch (D)	Resolution
1	H	-	37.50	26.67	20.32	6.35	2.03	3.81	0.51	640x480 75Hz
	V	-	74.99	13.335	12.802	0.533	0.080	0.427	0.026	
2	H	+	46.88	21.33	16.16	5.17	1.62	3.23	0.32	800x600 75Hz
	V	+	75.01	13.331	12.798	0.533	0.064	0.448	0.021	
3	H	+	53.68	18.63	14.22	4.41	1.14	2.70	0.57	800x600 85Hz
	V	+	85.07	11.755	11.178	0.577	0.056	0.503	0.018	
4	H	+	68.677	14.561	10.836	3.725	1.016	2.201	0.508	1024x768 85Hz
	V	+	85.00	11.764	11.182	0.582	0.044	0.524	0.014	

\* No Composite Mode.

# OPERATING INSTRUCTIONS

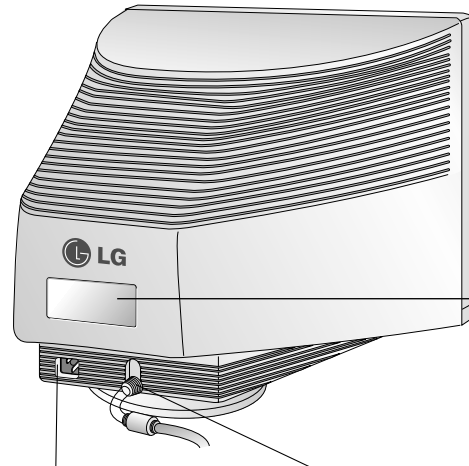
## FRONT VIEW



See Front Control Panel

Power ON/OFF Button

## REAR VIEW

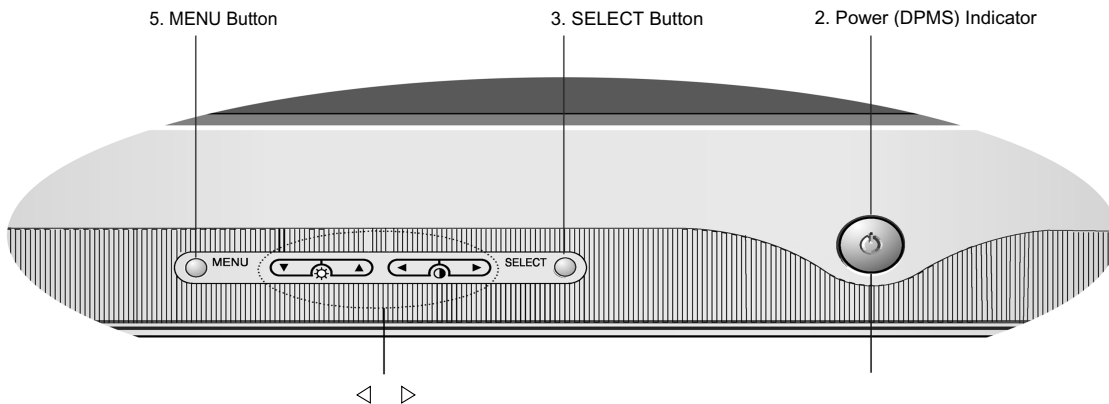


ID Label

AC Power Socket

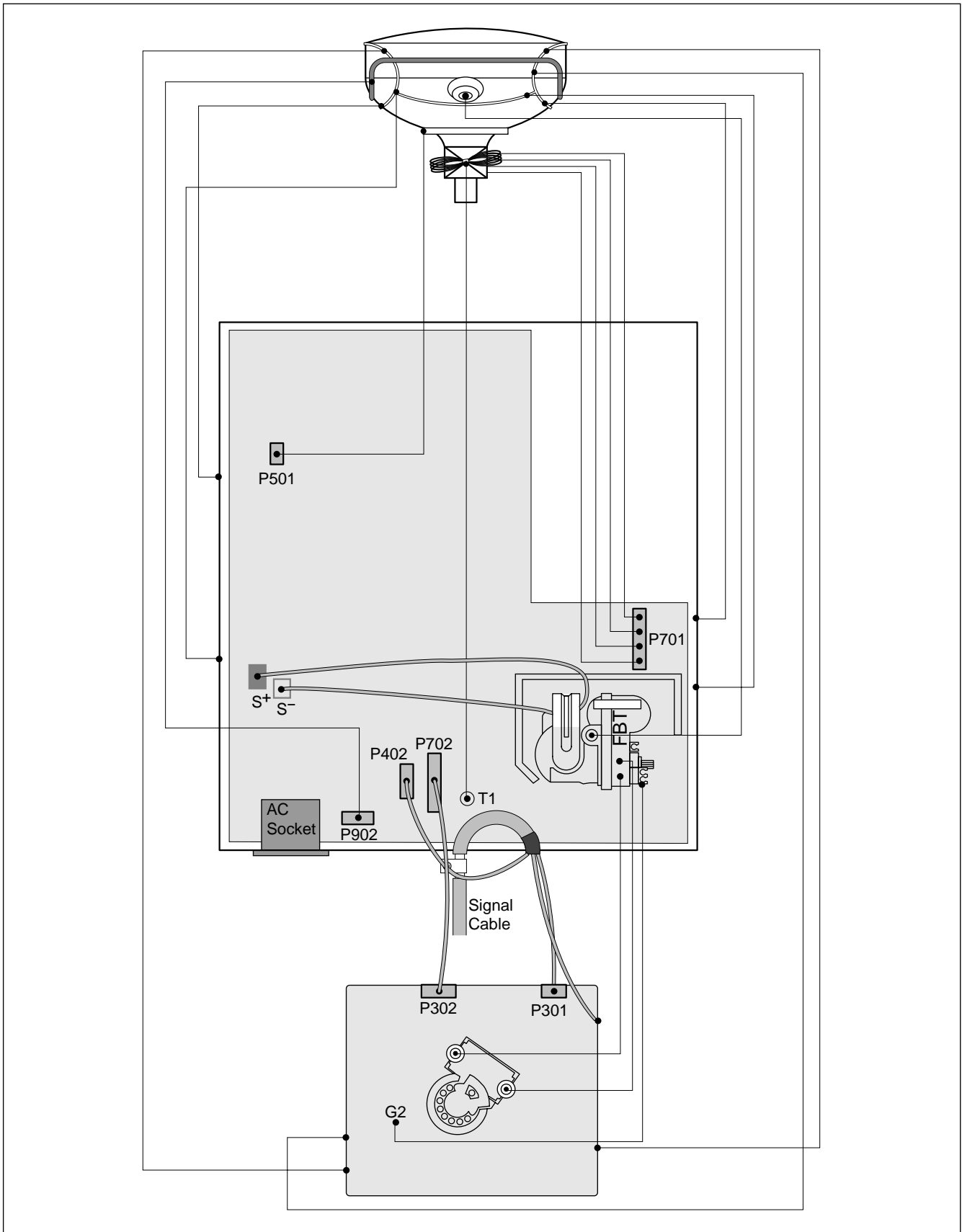
Signal Connector

## Front Control Panel



- 1. Power ON/OFF Button**  
Use this button to turn the monitor ON or OFF.
- 2. Power Indicator**  
This indicator lights up green when the monitor operates normally; in DPMS (Energy Saving) mode, -stand-by, suspend, or power off mode - its color changes to orange, and if abnormal or damaging circuit turns out orange blink.
- 3. Select Button**  
Use this button to enter a selection in the on screen display.
- 4. < > Button**  
Use these buttons to choose or adjust items in the on screen display.
- 5. MENU Button**  
Use this button to enter or exit the on screen display.

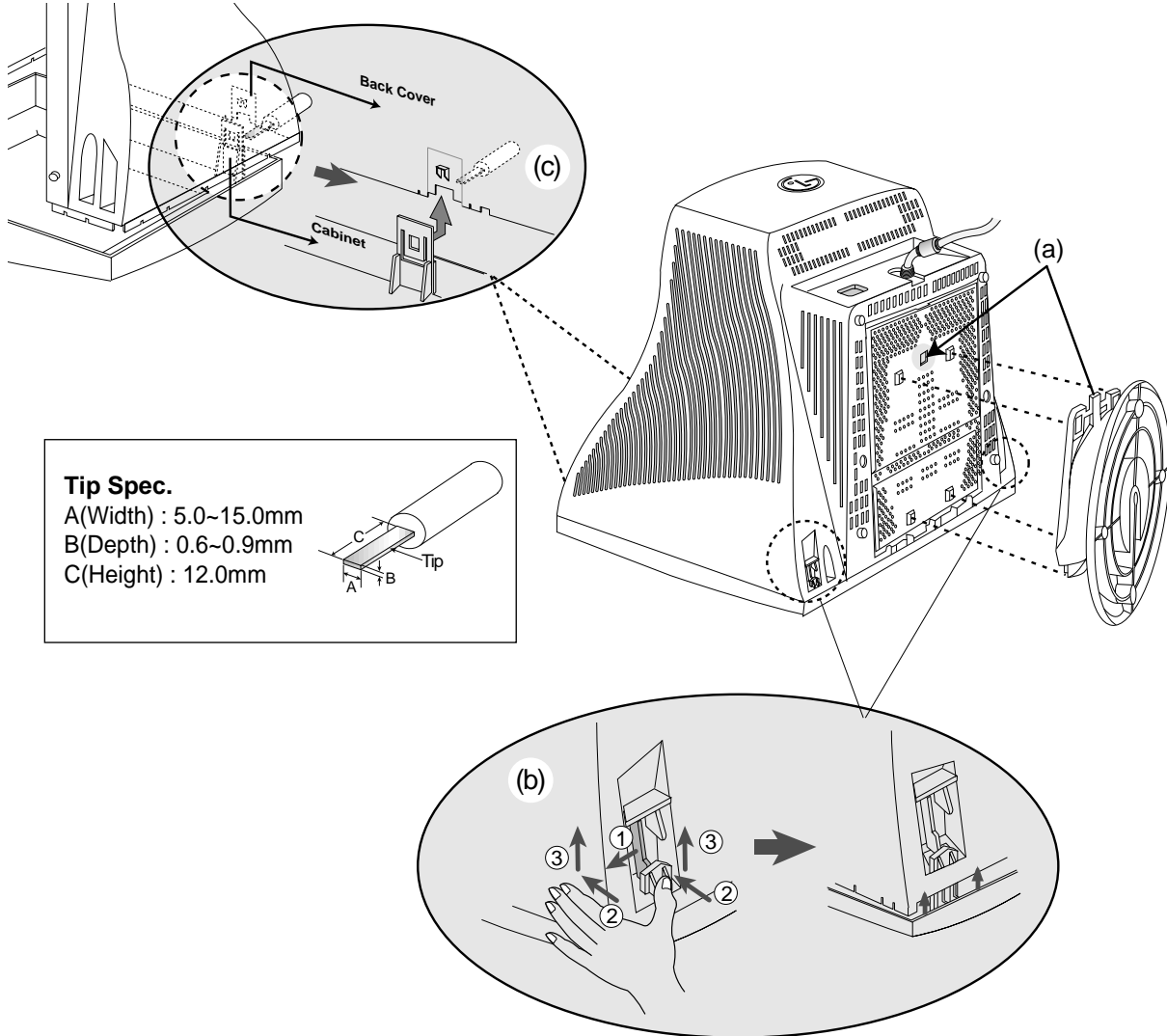
# WIRING DIAGRAM



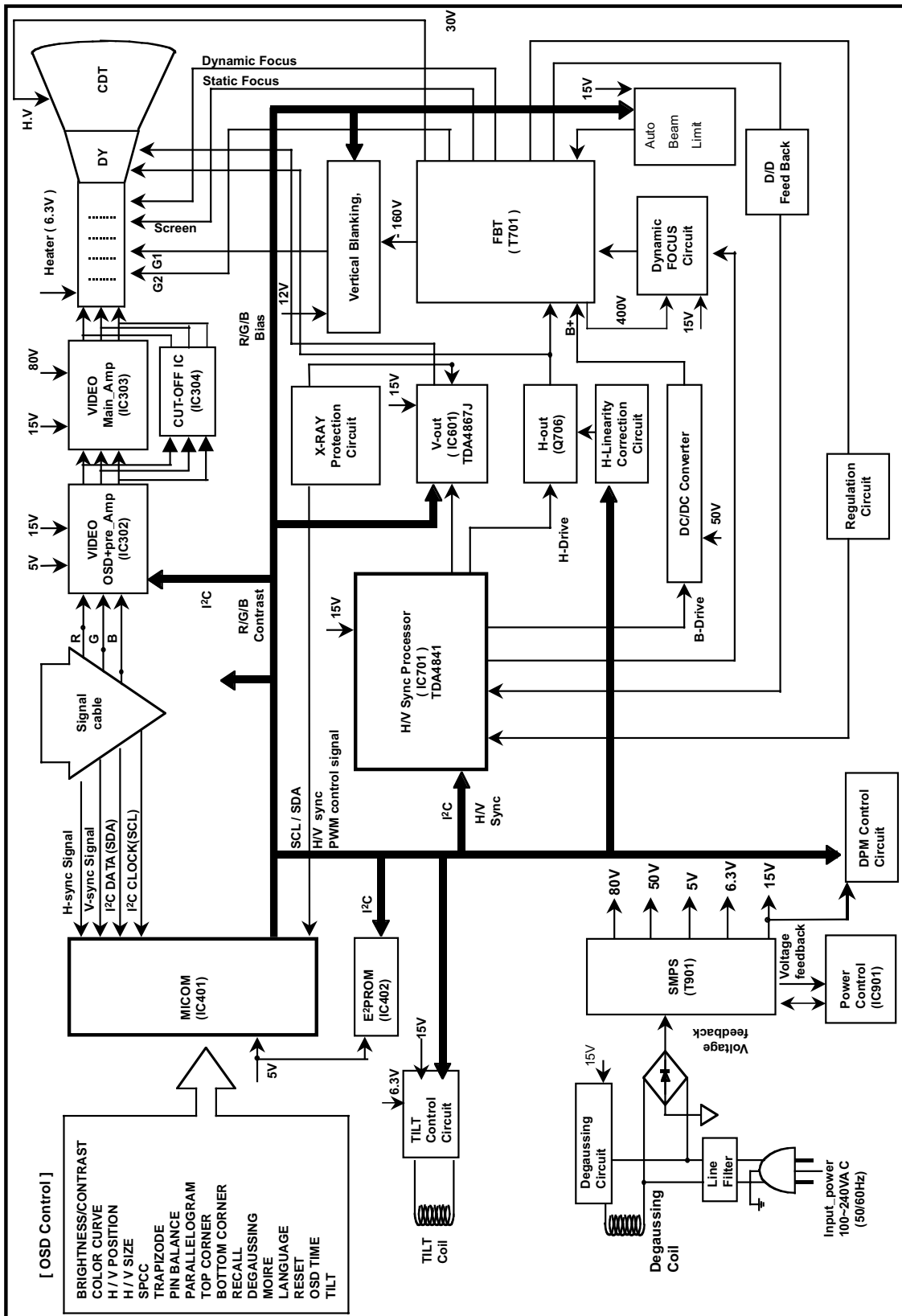
# DISASSEMBLY

## 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 (b), Back cover by pushing it upward.
- 4) Release the latch (c). (See Tip Spec.)
- 5) Slide the Back Cover away from the Front Cabinet of the monitor.



# 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 shadow mask in the CRT during turning on the power switch. When you need to degauss in using the monitor, select DEGAUSS on the OSD menu.

## 3. SMPS(Switching Mode Power Supply).

This circuit is working of 90~264V AC(50/60Hz).

The operation procedure is as follows:

- 1) AC input voltage is rectified and smoothed by the bridge diodes (D900) and the capacitor (C908).
- 2) The rectified voltage(DC) 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 turn ratio of the transformer, the secondary voltages appear at the secondary coils of the transformer(T901).
- 5) These secondary voltages are rectified by each diode(D941, D942, D951, D961, D971) and operate other circuit. (horizontal and vertical deflection, video amplifier, ...etc.)

## 4. X-ray Protection.

If the high voltage of the FBT reaches up to 29kV (abnormal state), IC401(MICOM) pin 35 Sensing from FBT directly.

Then MICOM control IC701 (Deflection controller) to stop Horizontal drive pulse and stop Horizontal Deflection.

## 5. 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 the signal cable.
- 2) The Micom(IC401) distinguishes polarity and frequency of H and V sync.
- 3) The Micom sets operating mode and offers the controlled data. (H-size, H-position, V-size, ... etc.)
- 4) The controlled data of each mode is stored in itself.
- 5) User can adjust screen condition by each OSD function. The data of the adjusted condition is stored in EEPROM(IC402).

## 6. Horizontal and Vertical Oscillation.

This circuit generates the horizontal pulse and the vertical pulse by taking the H and V sync signal.

This circuit consists of the TDA4867(IC601) and the associated circuit.

## 7. D/D(DC to DC) Converter.

This circuit supplies DC voltage to the horizontal deflection output circuit by increasing DC 50V which is the secondary voltage of the SMPS in accordance with the input horizontal sync signal.

## 8. Side-Pincushion & Trapezoid Correction Circuit.

This circuit improves the side-pincushion and the trapezoid distortion of the screen by mixing parabola and saw-tooth wave to output of the horizontal deflection D/D converter which is used for the supply voltage(B + ) of the deflection circuit.

## 9. Horizontal Deflection Output Circuit.

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

## 10. High Voltage Output & FBT(Flyback Transformer).

The high voltage output circuit is used for generating pulse to the primary coil of the FBT(Flyback Transformer) secondary of the FBT and it is supplied to the anode, focus, and screen voltage of the CRT.

## 11. H-Linearity Correction Circuit.

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

## 12. Vertical Output Circuit.

This circuit takes the vertical ramp wave from the TDA4841(IC701) and performs the vertical deflection by supplying the saw-tooth current to the vertical deflection yoke.

## 13. Dynamic Focus Output Circuit.

This circuit takes the horizontal and the vertical parabola waves from the TDA4841(IC701) and amplifies it to maintain constant focus on center and corners in the screen.

## 14. H & V Blanking and Brightness Control.

Blanking circuit eliminates retrace line by supplying negative pulse to the G1 of the CRT. And Brightness circuit is used for control of the screen brightness by changing DC level of the G1.



**15. 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 near the deflection yoke of the CRT.

**16. Video Pre-Amp Circuit.**

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

**17. Video Output Amp Circuit.**

This circuit amplifies the video signal which comes from the video pre-amp circuit and amplified it to applied the CRT 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 DEGAUSS 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. Checked for B<sup>+</sup> Voltage.

- 1) Display cross hatch pattern at Mode 4.
- 2) Check D961 voltage to 50.0V ± 1V with.

### 2. Adjustment for High-Voltage.

- 1) Display cross hatch pattern at Mode 4.
- 2) DIST.ADJ.→CTRL PWM → High Voltage Command.
- 3) Adjust High Voltage to 25.8kV±0.1 kVdc.
- 4) Press Enter Key.

### 3. Adjustment for Factory Mode (Preset Mode).

- 1) Display cross hatch pattern at Mode 1.
- 2) Run alignment program for 710BK on the IBM compatible PC.
- 3) EEPROM → ALL CLEAR → 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) Power button of the monitor turn off → turn on.
- 5) COMMAND→PRESET START→Y(Yes) command.
- 6) DIST. ADJ. → CTRL PWM → TILT command.

- 7) Adjust tilt as arrow keys to be the best condition.
- 8) DIST. ADJ. → BALANCE command.
- 9) Adjust parallelogram as arrow keys to be the best condition.
- 10) Adjust balance of pin-balance as arrow keys to be the best condition.
- 11) DIST. ADJ. → FOS. ADJ command.
- 12) Adjust V-SIZE as arrow keys to 230±2mm.
- 13) Adjust V-POSITION as arrow keys to center of the screen.
- 14) Adjust H-SIZE as arrow keys to 310±2mm.
- 15) Adjust H-POSITION as arrow keys to center of the screen.
- 16) Adjust S-PCC (Side-Pincushion) as arrow keys to be the best condition.
- 17) Adjust TRAPEZOID as arrow keys to be the best condition.
- 18) Save of the Mode 1~4.
- 19) Display from Mode 2 to 4 and repeat above from number 12) to 19)
- 20) PRESET EXIT → Y (Yes) command.

### 4. Adjustment for White Balance and Luminance.

- 1) Set the White Balance Meter.
- 2) Press the DEGAUSS on the OSD menu for demagnetization of the CDT.
- 3) COLOR ADJ. → LUMINANCE command of the alignment program.
- 4) Set Brightness and Contrast to Max position.
- 5) Display color 0,0 pattern at Mode 4.
- 6) COLOR ADJ.→ BIAS ADJ.→ COLOR No. → 1 command of the alignment program.
- 7) Check whether green color or not at R-BIAS and G-BIAS to min position and B-BIAS to 127(7F) position and Sub-Brightness to 205(CD) position. Adjust G2 (screen) command to 0.4± 0.05FL of the raster luminance.
- 8) Adjust R-BIAS and G-BIAS command to x=0.283± 0.005 and y=0.298±0.005 on the White Balance Meter with PC arrow keys.
- 9) Adjust SUB-Brightness command to 0.4±0.1FL of the raster luminance.
- 10) Adjust repeat number 8).
- 11) After push the "ENTER" key.
- 11-1) COMMAND → PRESET START → Y(Yes) command.
- 12) Display color 15,0 full white pattern at Mode 4.
- 13) DRIVE ADJ.→ No 1. command.

- 14) Set Brightness and Contrast to Max position.
- 15) Set SUB-CONTRAST 127(7F) (decimal) position.
- 16) Set B-DRIVE to 85(55) at DRIVE of the alignment program.
- 17-1) Adjust R-DRIVE and G-DRIVE command to white balance  $x=0.283\pm0.003$  and  $y=0.298\pm0.003$  on the White Balance Meter with PC arrow keys.
- 17-2) Display color 15,0 window pattern (70x70mm) at mode 4.
- 18) Adjust SUB-CONTRAST command to  $50\pm2FL$ .
- 19) After push the "ENTER" key.
- 20) Display color 15,0 full white pattern at Mode 4..
- 21) COLOR ADJ. → LUMINANCE → ABL command.
- 22) Adjust ABL to  $32\pm1FL$  of the luminance.
- 23) After push the "ENTER" key, and "COMMAND → PRESET EXIT → Y(Yes)" command.
- 24) Exit from the program.

#### **5. Input EDID Data.**

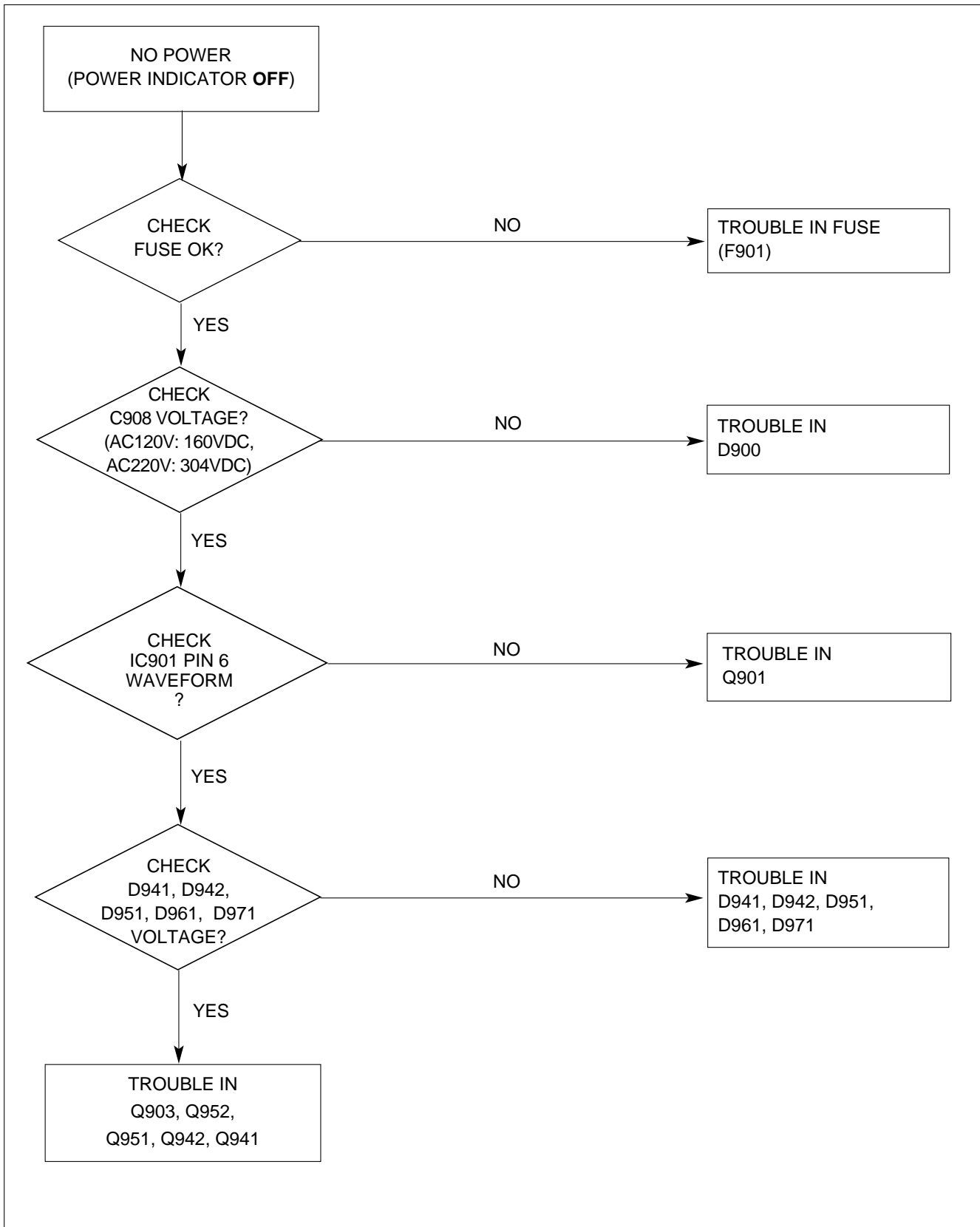
- 1) Display color 15,0 cross hatch pattern at Mode 4.
- 2) EEPROM → Write EDID command and confirm "EDID Write OK!!" message of monitor.
- 3) Exit from the alignment program.
- 4) Power switch OFF/ON for EDID data save.

#### **6. Adjustment for Focus.**

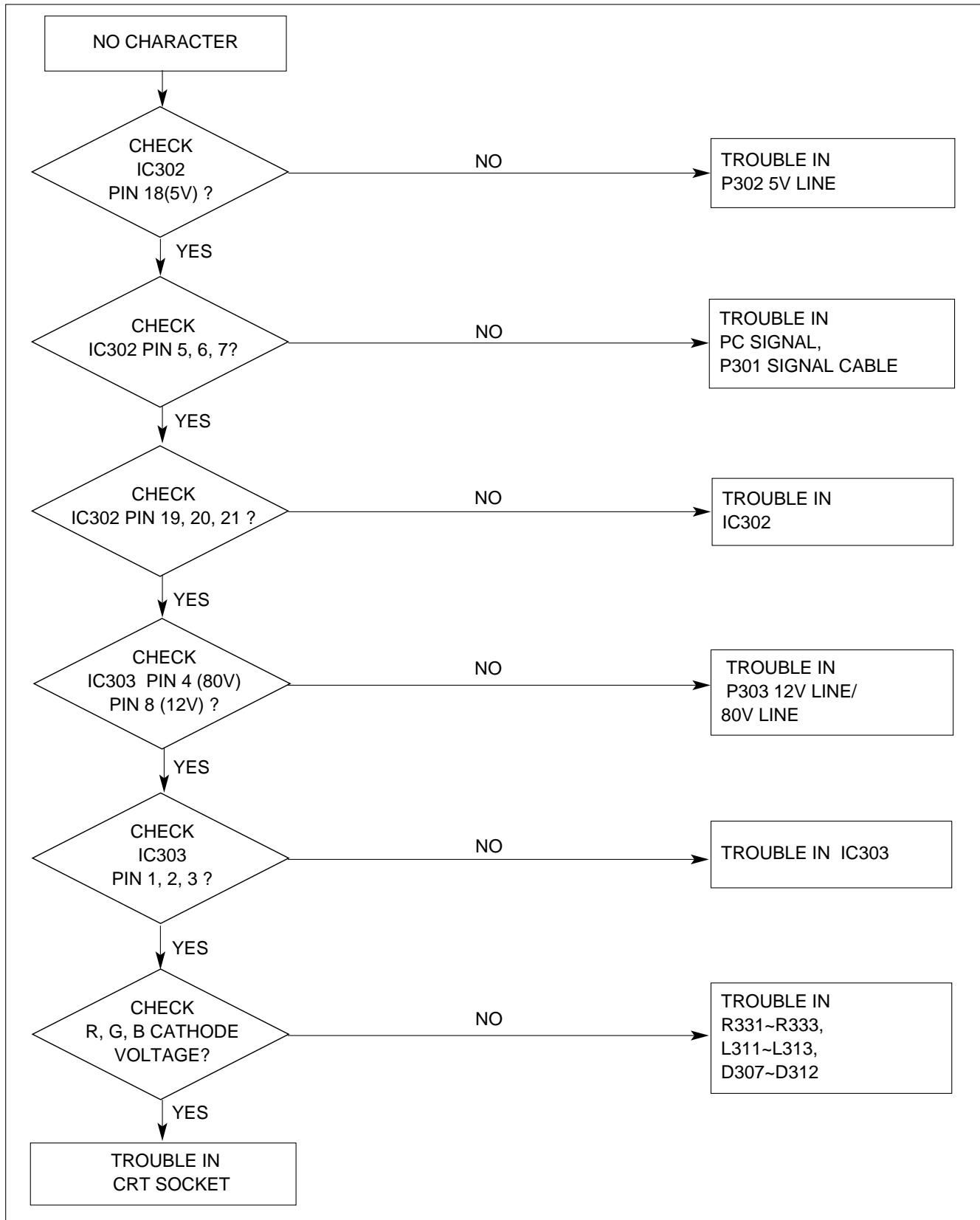
- 1) Set the Brightness and Contrast to max position.
- 2) Display H character in full screen at Mode 4.
- 3) Adjust two Focus control on the FBT that focus should be the best condition.

# TROUBLESHOOTING GUIDE

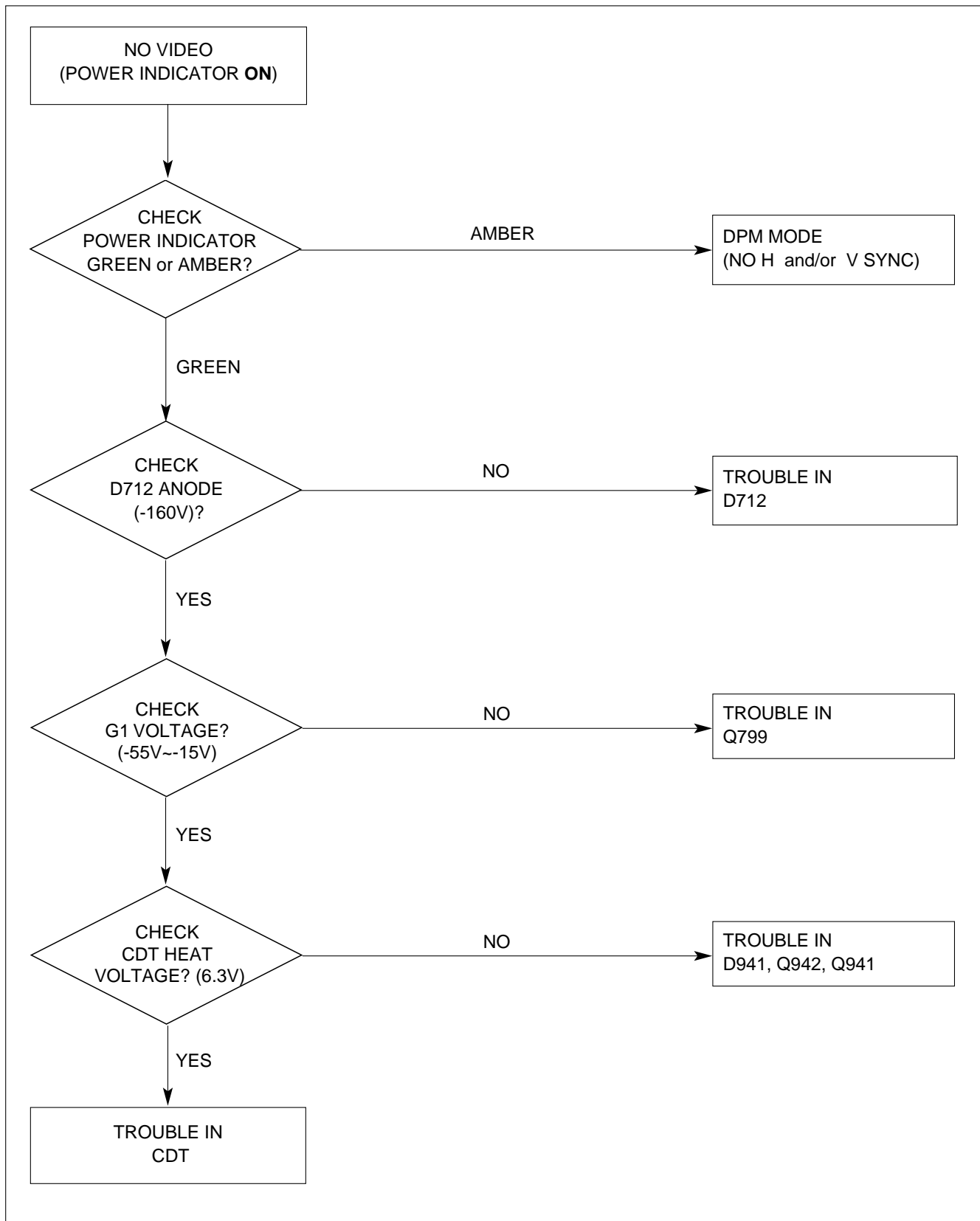
## 1. NO POWER



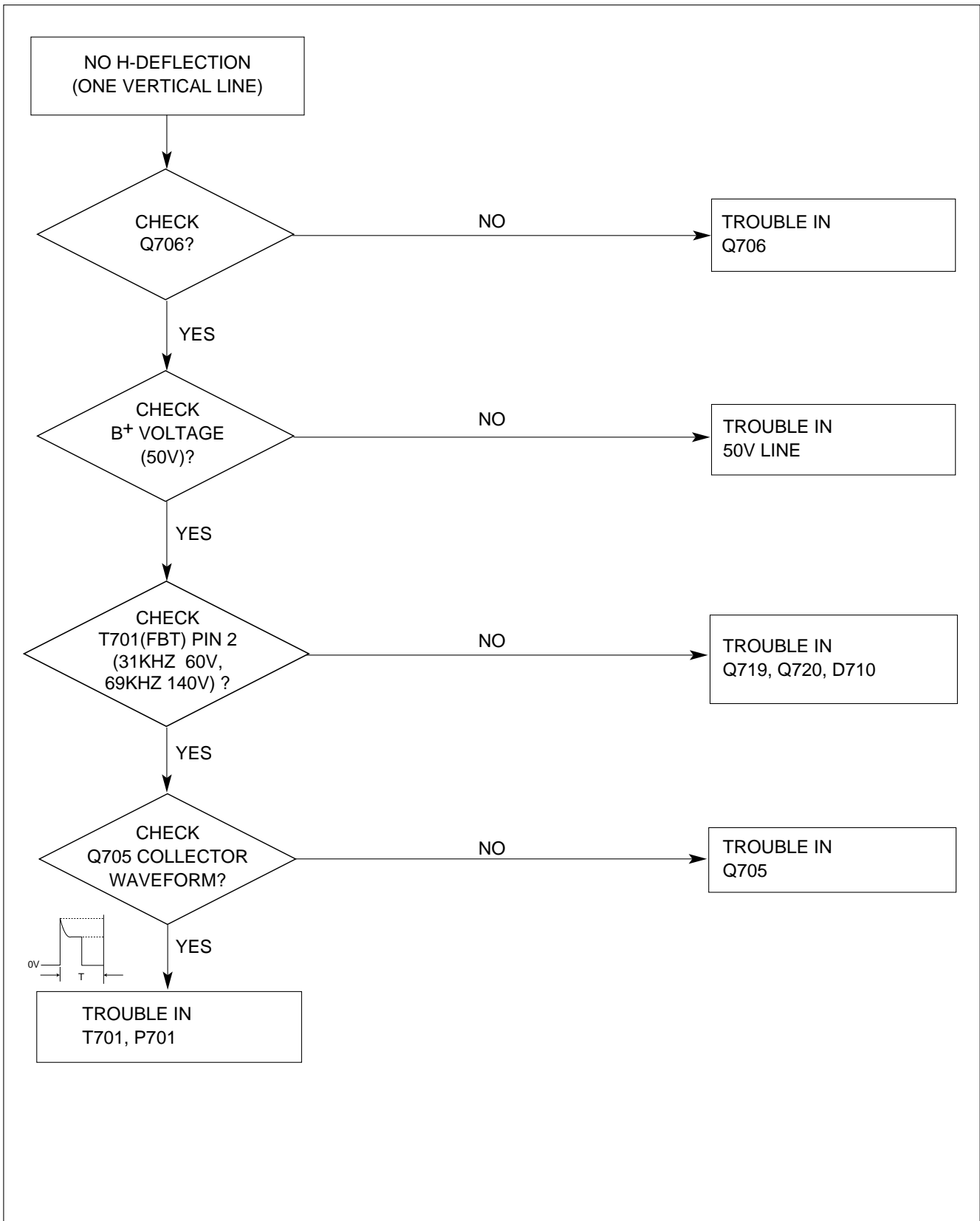
## 2. NO CHARACTER



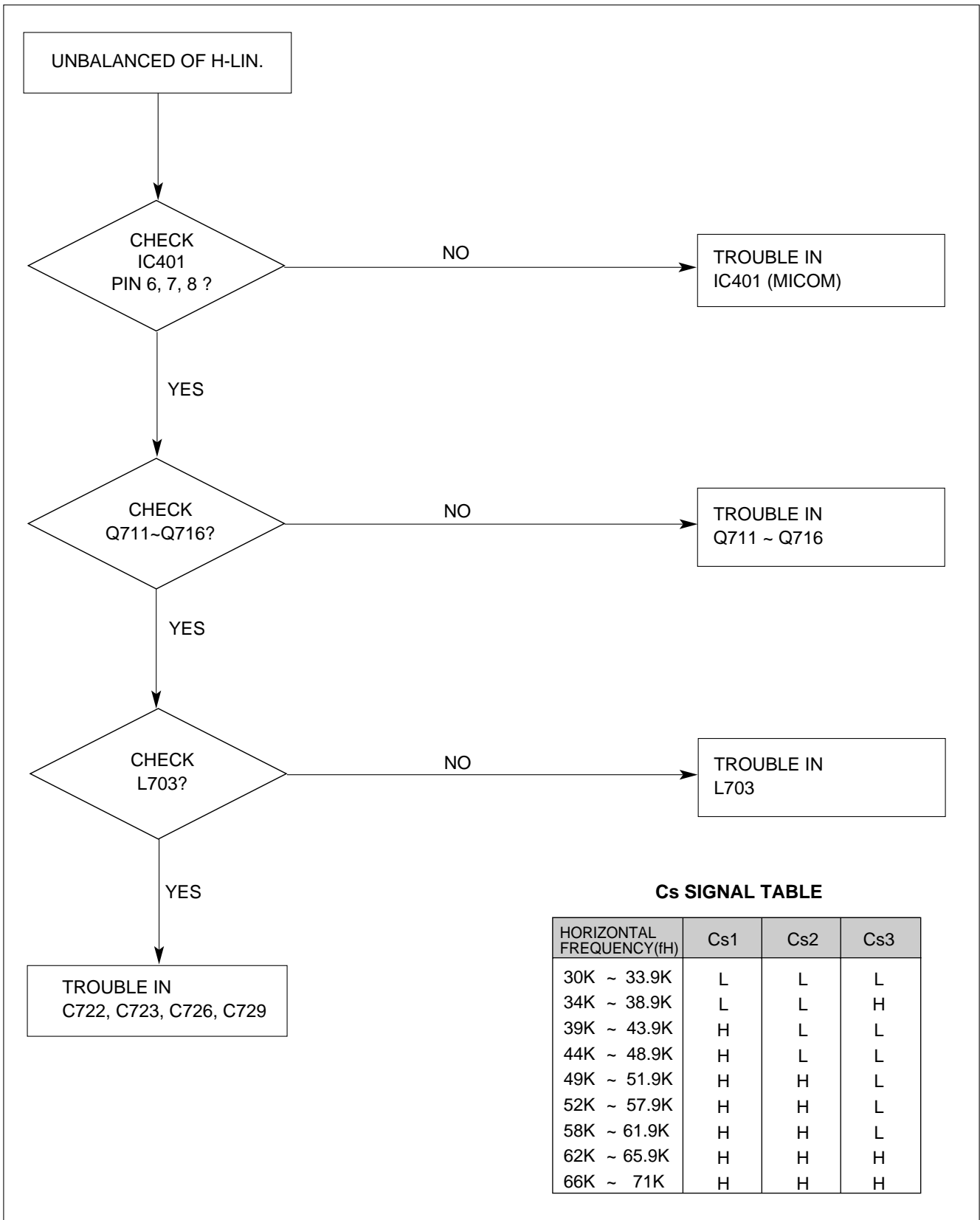
### 3. NO RASTER



## 4. NO HORIZONTAL DEFLECTION

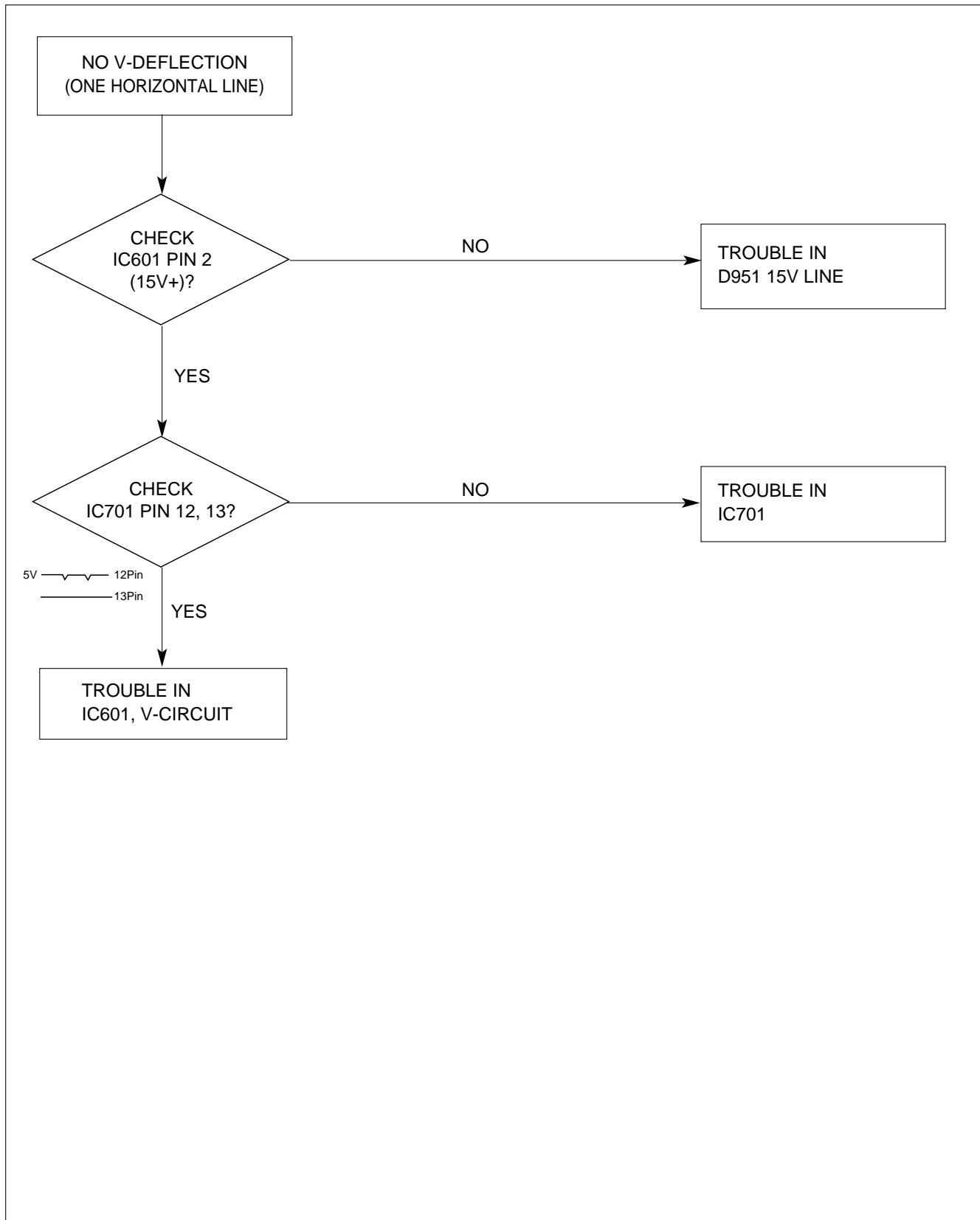


## 5. TROUBLE IN H-LINEARITY

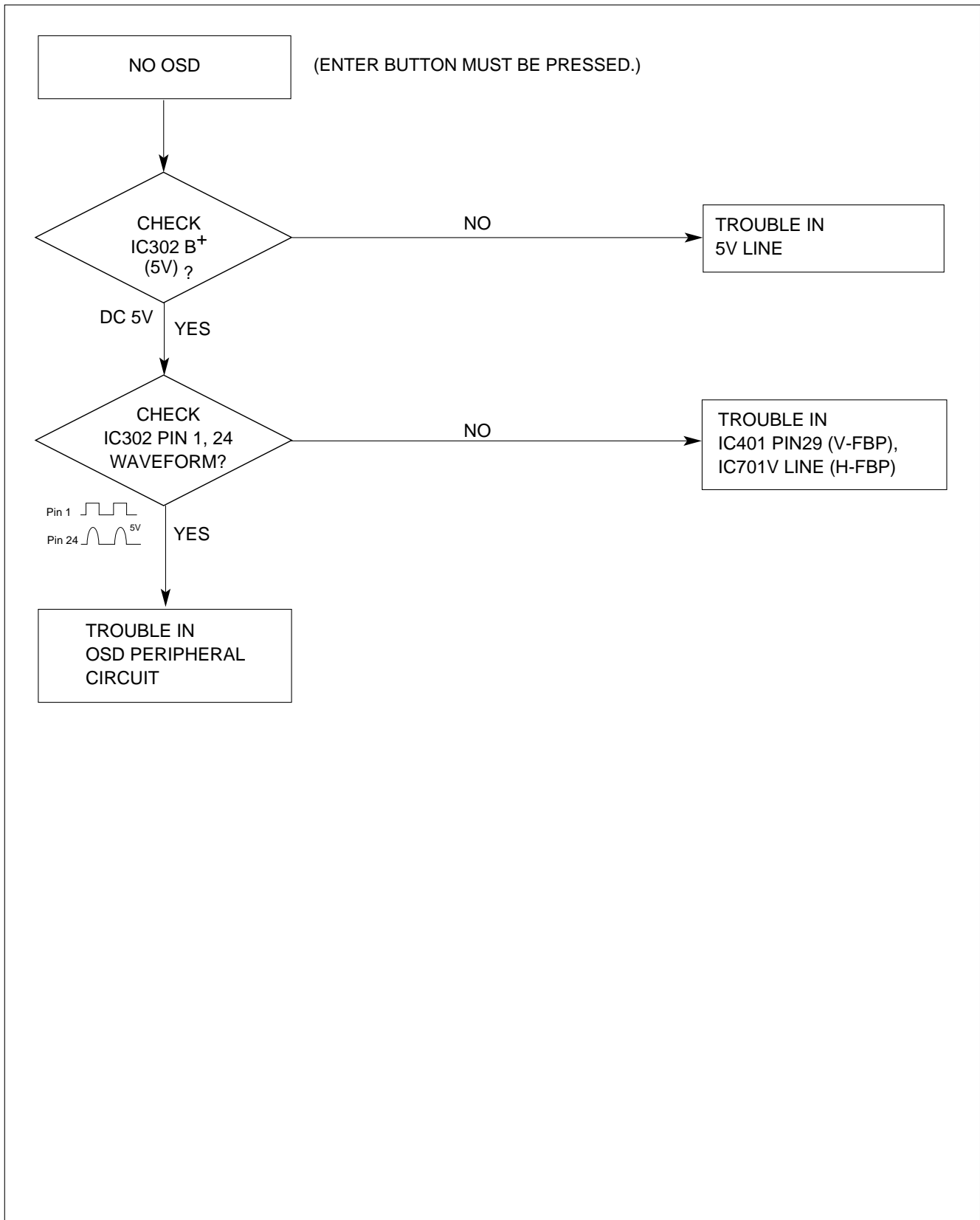




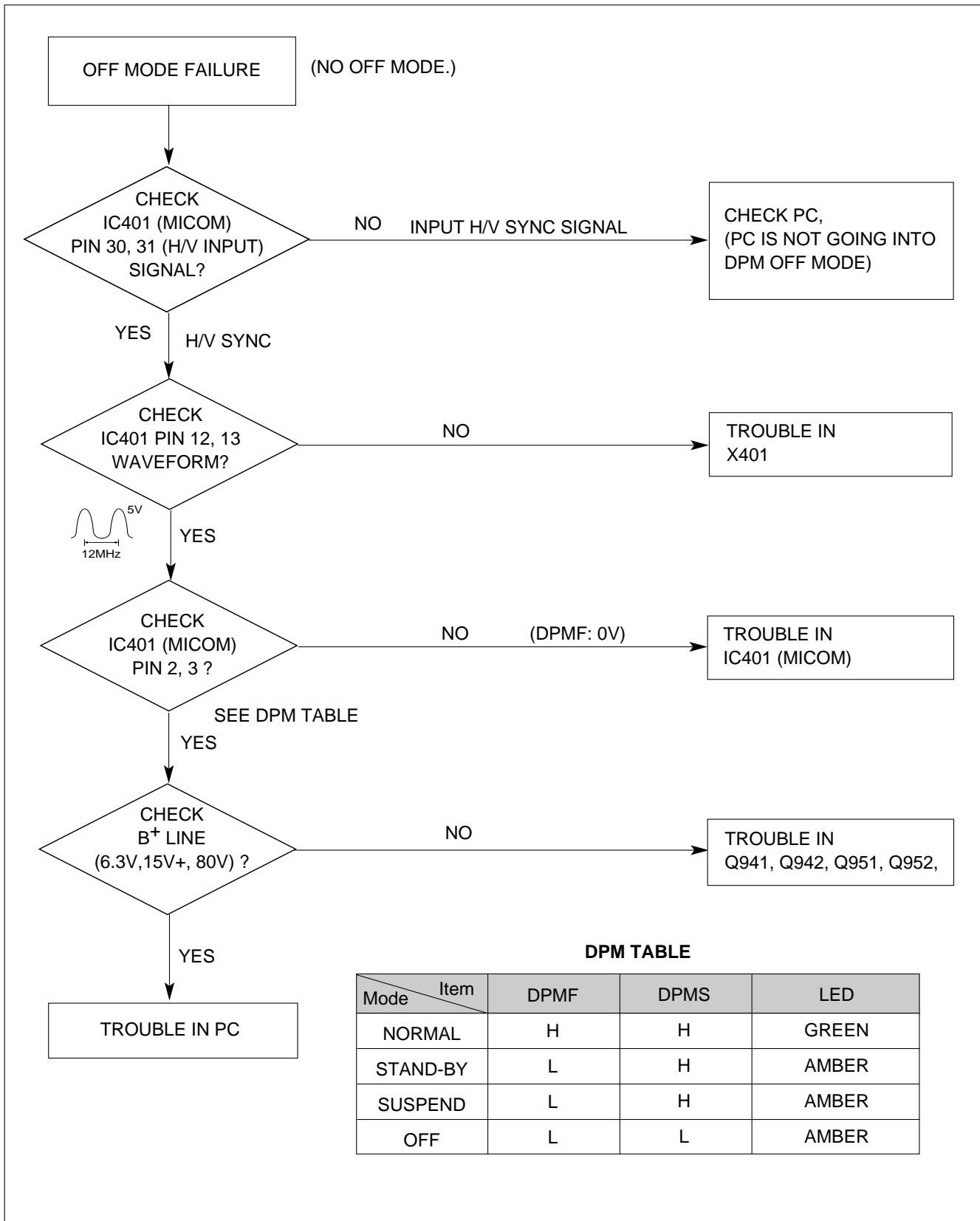
## 6. NO VERTICAL DEFLECTION



## 7. TROUBLE IN OSD



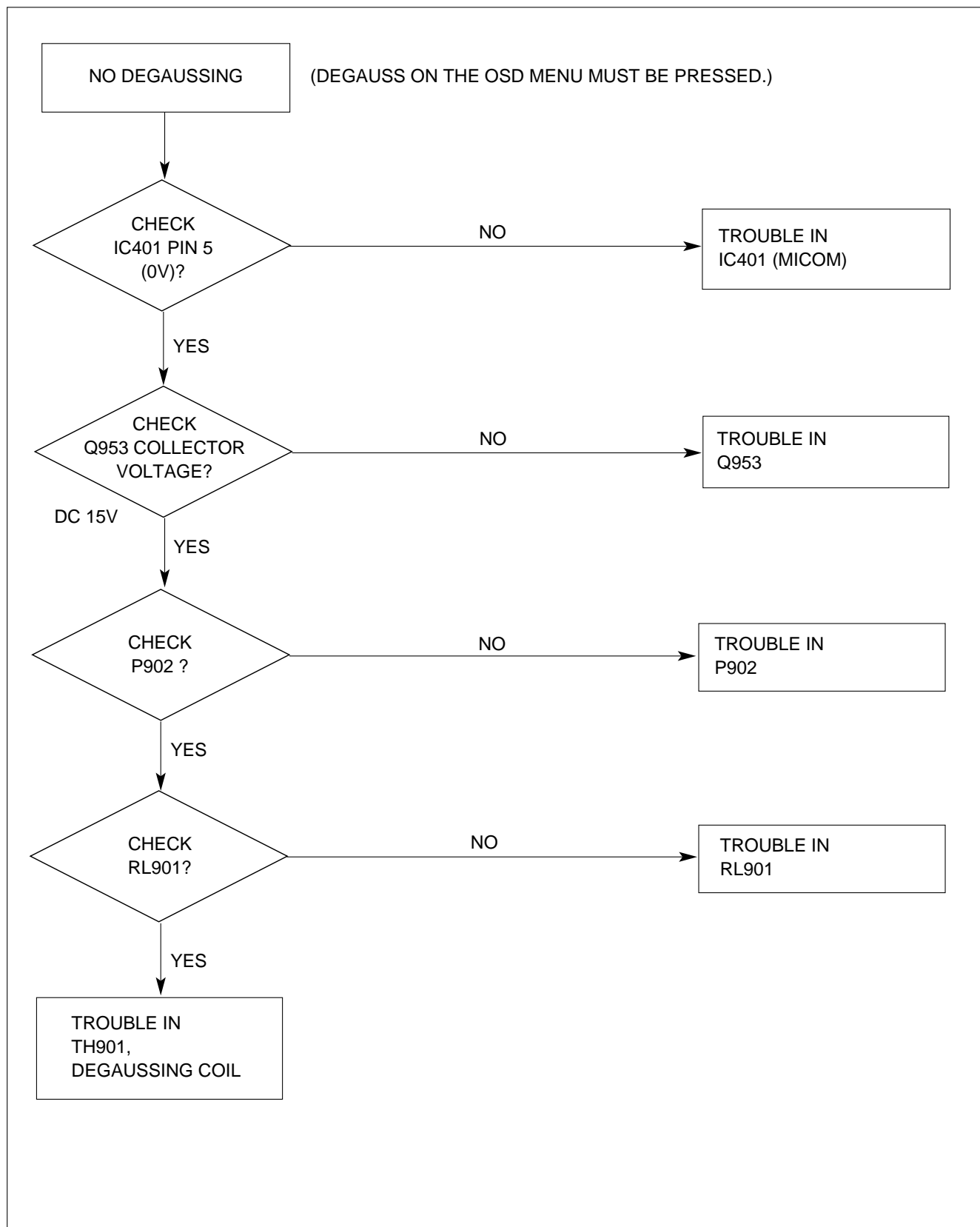
## 8. TROUBLE IN DPM



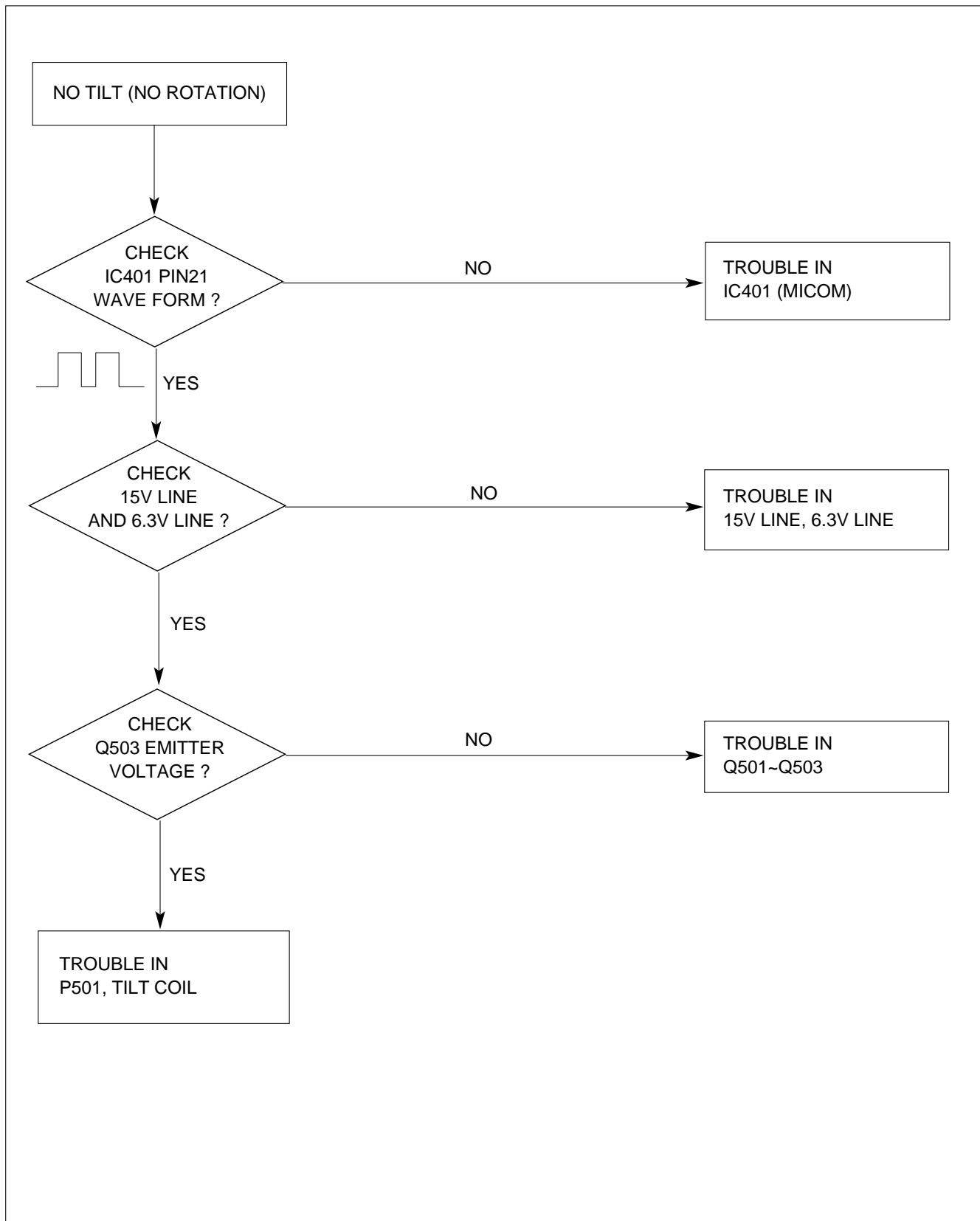
**DPM TABLE**

Mode \ Item	DPMF	DPMS	LED
NORMAL	H	H	GREEN
STAND-BY	L	H	AMBER
SUSPEND	L	H	AMBER
OFF	L	L	AMBER

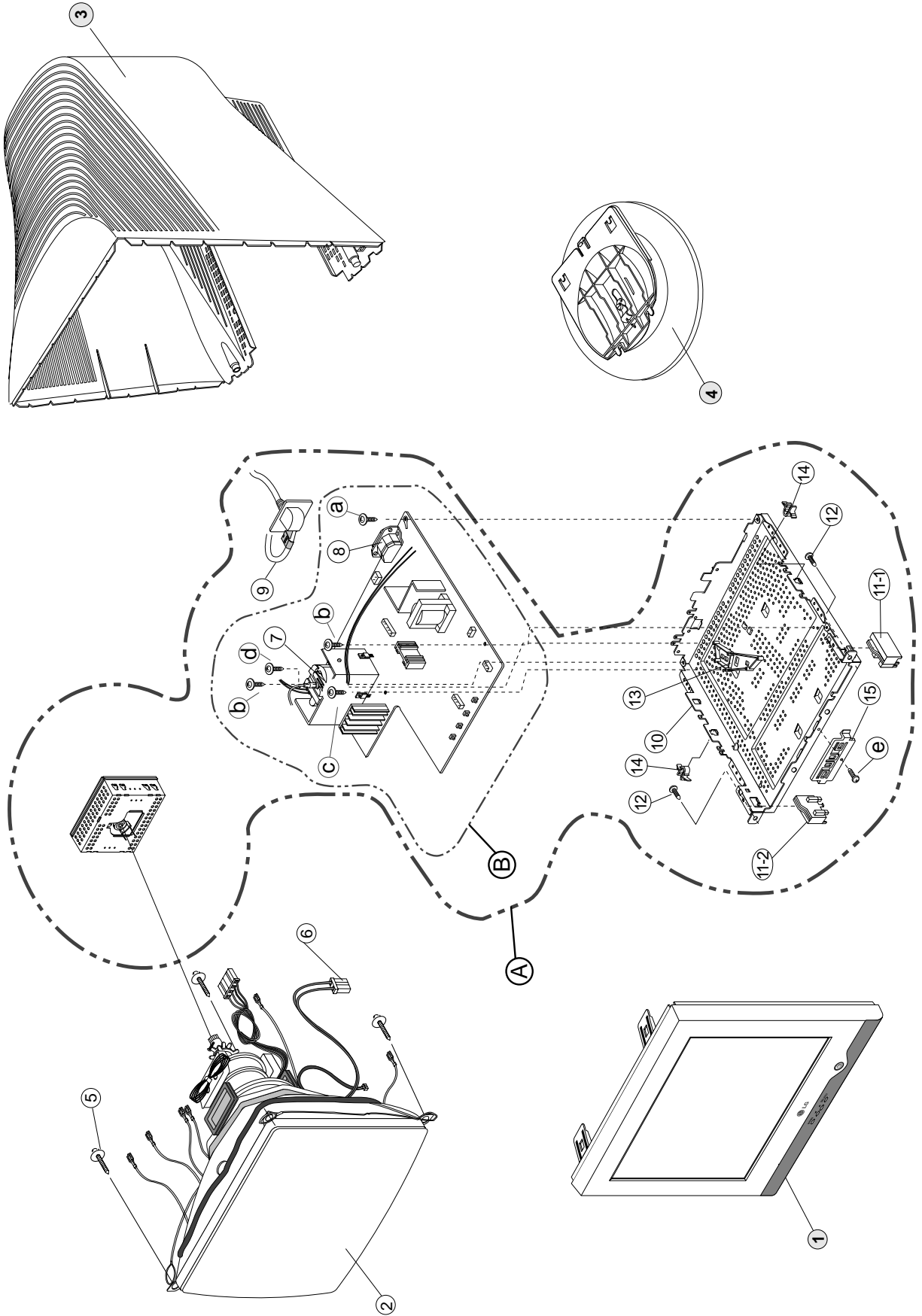
## 9. NO DEGAUSSING



## 10. NO TILT (NO ROTATION)



EXPLODED VIEW



## EXPLODED VIEW PARTS LIST

Ref. No.	Part No.	Description
1	3091TKC099C	CABINET ASSEMBLY, 710BJ BRAND C083 320T,89483,S/W710E,DI(SPRING CKD) <b>-(S/W 710E)</b>
	3091TKC099E	CABINET ASSEMBLY, 710BK BRAND C083 320T,89483,S/W710E,LG RED,DI <b>-For Panama(S/W 710E)</b>
	3091TKC099B	CABINET ASSEMBLY, 710BJ BRAND C083 S/W 700S,320T,89483,SPRING CKD,DI <b>-(S/W 710S)</b>
	3091TKC099D	CABINET ASSEMBLY, 710BJ BRAND C083 PC+ABS,89483,S/W710B,MAADIRAN <b>-(S/W 710B)</b>
2	6318L17026C	CDT(CIRC), M41LFQ503X00NDDV LG-PHILIPS DISPLAYS 70KHZ 29.1MM FST GLARE PLUS BARE <b>-For Northern Hemisphere(S/W 710E)</b>
	6318L17026B	CDT(CIRC), M41LFQ803X00NDDV LG-PHILIPS DISPLAYS 70KHZ 29.1MM FST MPR PLUS BARE <b>-For Equatorial (S/W 710S)</b>
	6318L17026E	CDT(CIRC), M41LFQ803X00SDDV LG-PHILIPS DISPLAYS 70KHZ 29.1MM FST MPR PLUS BARE <b>-For Southern Hemisphere(S/W 710S)</b>
	6318L17024A	CDT(CIRC), M41LFQ803X61NDDP LG-PHILIPS DISPLAYS 70KHZ 29.1MM FST TCO PLUS <b>-For Iran(S/W 710B)</b>
3	3809TKC050C	BACK COVER ASSEMBLY, T710 C046 320T,EQ54(8C358) <b>-For World Wide(S/W 710E, 710S)</b>
	3809TKC050B	BACK COVER ASSEMBLY, T710BH/PH C046 GN5008HF,8C358(EQ54) <b>-For Iran(S/W 710B)</b>
4	3043TKK129A	TILT SWIVEL ASSEMBLY, 710BJ T068/B060 60HR,8C358 <b>-For World Wide(S/W 710E, 710S)</b>
	3043TKK129B	TILT SWIVEL ASSEMBLY, 710BJ T068/060 60HR,8C358 MAADIRAN CKD <b>-For Iran(S/W 710B)</b>
5	339-002H	SCREW ASSY, PHP+5*20(FZMY)+GW18 NEW TYPE
6	6140TC3004G	COIL, DEGAUSSING, 16.0OHM 0.35MM 80T 17" L1090MM,WITH EARTH 700BJ
7	6174T11005E	FBT(FLY BACK TRANSFORMER), CF2154/F700BK(17"/71K,FLAT,FCDT,FST) LIEN CHANGE 17"
8	6620TKB002D	SOCKET(CIRC), POWER, CDJ-3C DUOLING AC UNIVERSAL 3PIN BLACK
	or 6620TKB002B	SOCKET(CIRC), POWER, SA-4S HUA JIE AC UNIVERSAL 3PIN BLACK
9	6850TA9012A	CABLE,D-SUB, UL20276-9C(5.8MM) AT 1500MM GRAY(85964) T710BJ DM
10	4950TKS155S	METAL, SHIELD BOTTOM,CB553,0.8T,REAR HOLE DELETE <b>-For World Wide(S/W 710E, 710S)</b>
	4950TKS212D	METAL, SHIELD BOTTOM C-CKD <b>-For Iran(S/W 710B)</b>
11-1	4810TKK150A	BRACKET, CN771C SUPPORTER BOT.(RIGHT)
11-2	4810TKK151A	BRACKET, CN771C SUPPORTER BOT.(LEFT)
12	332-102F	SCREW, PTP+4*20BP(MSWR/FZMY)
13	4810TKK204J	BRACKET, 700BK HOLDER FBT H-CKD
14	4930TKK031C	HOLDER, PCB FIX , PC+ABS
15	4810TKK200A	BRACKET, KNOB SUPPORTER CN772G NECCI
A	3313T17335G	MAIN TOTAL ASSEMBLY, 710BK BRAND CA-131 <b>-For Saudi, Africa(S/W 710E)</b>
	3313T17335B	MAIN TOTAL ASSEMBLY, 710BK BRAND CA-131 <b>-For Asia(S/W 710E)</b>
	3313T17335C	MAIN TOTAL ASSEMBLY, 710BK BRAND CA-131 <b>-For Asia(S/W 710S)</b>
	3313T17335D	MAIN TOTAL ASSEMBLY, 710BK BRAND CA-131 <b>-For Austrailia(S/W 710S)</b>
	3313T17335E	MAIN TOTAL ASSEMBLY, 710BK BRAND CA-131 <b>-For S.Africa(S/W 710S)</b>
	3313T17335F	MAIN TOTAL ASSEMBLY, 710BK BRAND CA-131 <b>-For India(S/W 710S)</b>
	3313T17335H	MAIN TOTAL ASSEMBLY, 710BK.KLIOEI BRAND CA-131 <b>-For Iran(S/W 710B)</b>
B	6871TMT508G	PWB(PCB) ASSEMBLY, MAIN, 710BK KLEUAD BRAND CA-131 TOTAL <b>-For Saudi, Africa(S/W 710E)</b>
	6871TMT508B	PWB(PCB) ASSEMBLY, MAIN, 710BK KLDAAD BRAND CA-131 TOTAL <b>-For Asia(S/W 710E)</b>
	6871TMT508C	PWB(PCB) ASSEMBLY, MAIN, 710BK KLDAMD BRAND CA-131 TOTAL <b>-For Asia(S/W 710S)</b>
	6871TMT508D	PWB(PCB) ASSEMBLY, MAIN, 710BK KLAUMD BRAND CA-131 TOTAL <b>-For Austrailia(S/W 710S)</b>
	6871TMT508E	PWB(PCB) ASSEMBLY, MAIN, 710BK KLZAMD BRAND CA-131 TOTAL <b>-For S.Africa(S/W 710S)</b>
	6871TMT508F	PWB(PCB) ASSEMBLY, MAIN, 710BK KLIDMD BRAND CA-131 TOTAL <b>-For India(S/W 710S)</b>
	6871TMT508H	PWB(PCB) ASSEMBLY, MAIN, 710BK KLIOEI BRAND CA-131 TOTAL <b>-For Iran(S/W 710B)</b>
a	332-112F	SCREW, DRAWING, D3.5 L10.0 MSWR/FZMY +SW3.5+RW3.5
b	4001TKK004E	SCREW ASSEMBLY, TAPTITE P TYPE D3.0 L10.0 MSWR/FZMY SW3+RW10
c	332-095B	SCREW, DRAWING, PZP+3*10(MSWR/FZMY)
d	332-113H	SCREW, PVP+3*16(MSWR/FZMY)
e	332-095A	SCREW, PZP+3*8 (MSWR/FZMY)

# 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 :FLATRON T711B				DATE:2004.03.26
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
Capactions				
		C301	0CQ1021N409	0.001UF D 100V 5% PE TP5
		C302	0CE106CF638	"10UF SHL,SD 16V M FM5 TP 5"
		C303	0CC5600K415	56P 50V J NP0 TP
		C304	0CC5600K415	56P 50V J NP0 TP
		C305	0CE476CF638	"47UF SHL,SD 16V M FM5 TP 5"
		C306	0CZZTFT001M	ECQB1H103JF3 MATSUSHITA 50V 10000PF 5% TAPING 103J
		C307	0CC5600K415	56P 50V J NP0 TP
		C308	0CK1020K515	1000PF 50V K B TR
		C309	0CK1040K945	0.1UF 50V Z F TR
		C311	0CK1040K945	0.1UF 50V Z F TR
		C312	0CK1040K945	0.1UF 50V Z F TR
		C313	0CK1040K945	0.1UF 50V Z F TR
		C314	0CC4700W405	47PF 500V J SL TP
		C315	0CE476EF638	47UF KMG 16V M FM5 TP 5
		C316	0CK10202515	1000PF D 2KV 10% TR B(Y5P)
		C317	0CK1040K945	0.1UF 50V Z F TR
		C318	0CK1040K945	0.1UF 50V Z F TR
		C319	0CK1040K945	0.1UF 50V Z F TR
		C320	0CK10202515	1000PF D 2KV 10% TR B(Y5P)
		C321	0CE225CK638	"2.2UF SHL,SD 50V M FM5 TP 5"
		C323	0CE476CF638	"47UF SHL,SD 16V M FM5 TP 5"
		C324	0CK1040K945	0.1UF 50V Z F TR
		C325	181-288B	MKT 100V 104JTR PHS26104
		C326	0CC2200W415	22PF 500V J NP0 TR
		C327	181-288B	MKT 100V 104JTR PHS26104
		C328	0CE226CN638	"22UF SHL,SD 100V M FM5 TP 5"
		C329	181-288B	MKT 100V 104JTR PHS26104
		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	0CK1520W515	1500P 500V K B TS
		C340	181-288B	MKT 100V 104JTR PHS26104
		C341	0CK10202515	1000PF D 2KV 10% TR B(Y5P)
		C344	181-288B	MKT 100V 104JTR PHS26104
		C346	0CK10302940	0.01M 2KV Z F S
		C372	0CK1040K945	0.1UF 50V Z F TR
		C401	0CK1040K945	0.1UF 50V Z F TR
		C402	0CE476CF638	"47UF SHL,SD 16V M FM5 TP 5"
		C403	0CK1040K945	0.1UF 50V Z F TR
		C406	0CK1010K515	100PF 50V K B TR
		C407	0CK1010K515	100PF 50V K B TR
		C408	0CK1040K945	0.1UF 50V Z F TR
		C410	0CK1010K515	100PF 50V K B TR
		C412	0CK1040K945	0.1UF 50V Z F TR
		C414	0CK1010K515	100PF 50V K B TR
		C501	0CE106CF638	"10UF SHL,SD 16V M FM5 TP 5"
		C599	0CE225CK638	"2.2UF SHL,SD 50V M FM5 TP 5"

MODEL :FLATRON T711B				DATE:2004.03.26
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
			C601	0CE227CH638 "220UF SHL,SD 25V M FM5 TP 5"
			C602	181-288K MKT 100V 683JTR PHS26683
			C603	0CE476EK638 47UF KMG 50V M FM5 TP 5
			C604	0CZZTFT001V ECQB1H473JM3 473J 50V TP5.0 MATSUSHITA
			C605	0CK1020W515 1000P 500V K B TS
			C701	0CQ4721N409 0.0047UF D 100V 5% PE TP5
			C702	0CZZTFT001M ECQB1H103JF3 MATSUSHITA 50V 10000PF 5% TAPING 103J
			C703	0CZZTFT001Z ECQB1H104JM3 104J 50V TP5.0 MATSUSHITA
			C704	0CF8221N409 8200PF D 100V 5% PE TP 5
			C706	0CZZTFT001Z ECQB1H104JM3 104J 50V TP5.0 MATSUSHITA
			C707	0CZZTFT002B ECQV1H154JZ3 154J 50V TP5.0 MATSUSHITA
			C708	0CE227CH638 "220UF SHL,SD 25V M FM5 TP 5"
			C709	0CZZTFT001Z ECQB1H104JM3 104J 50V TP5.0 MATSUSHITA
			C711	0CF5621N409 5600PF D 100V 5% PE TP 5
			C713	0CK2210K515 220P 50V K B TS
			C714	0CE107CH638 "100UF SHL,SD 25V M FM5 TP 5"
			C715	181-288N MKT 100V 103JTR PHS86103
			C716	0CK2710K515 270P 50V K B TS
			C717	0CZZTFT001R ECQB1H223JM3 223J 50V TP5.0 MATSUSHITA
			C718	0CZZTFT001V ECQB1H473JM3 473J 50V TP5.0 MATSUSHITA
			C719	0CZZTAB001F SHL-BP SYE / SWE 50V 3.3UF 20% BULK EB770H
			C720	0CK10201515 1000P 1KV K B TS
			C722	181-303F 274J 30.0*21.0*13.5*20.0 250V J PU FM20
			C723	181-303B 124J 20.5*19.0*11.0*10.0 250V J PU FM10
			C724	0CK1040K945 0.1UF 50V Z F TR
			C726	181-482E 224J 18.0*16.0*9.5*7.5 250V J MPP TP7.5
			C727	0CK1040K945 0.1UF 50V Z F TR
			C729	181-305K 564J 26.0*18.0*11.0*15.0 250V J MPP FM15
			C730	0CK1040K945 0.1UF 50V Z F TR
			C731	0CBZTBU004H 5600PF D 2.5KV H M/PP NI FM20
			C732	181-288N MKT 100V 103JTR PHS86103
			C733	0CBZTBU003H 362J 20.0*12.0*7.0*10.0 800V J BUP FM10
			C734	0CE226CK638 "22UF SHL,SD 50V M FM5 TP 5"
			C735	0CK1030K945 0.01UF 50V Z F TR
			C737	0CK10102515 100PF D 2KV 10% B(Y5P) TR
			C738	181-302P 123J 19.5*12.0*7.0*10.0 250V J PU FM10
			C739-1	0CE106CK638 "10UF SHL,SD 50V M FM5 TP 5"
			C740	0CE227EL630 220UF KMG 63V M FM5 BULK
			C741	0CZZTFT002B ECQV1H154JZ3 154J 50V TP5.0 MATSUSHITA
			C742	0CE106CK638 "10UF SHL,SD 50V M FM5 TP 5"
			C743	0CZZTFT002B ECQV1H154JZ3 154J 50V TP5.0



MODEL :FLATRON T711B				DATE:2004.03.26
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		C744	0CZZTAB005A	SMSHR SYE / SWE 160V 47UF 20% BULK 12.5*20
		C745	0CK5610W515	560P 500V K B TS
		C746	0CK3310W515	330P 500V K B TS
		C747	0CK1040K945	0.1UF 50V Z F TR
		C748	0CK1510W515	150PF 500V K B TR
		C749	0CE105CQ638	"1UF SHL,SD 200V M FM5 TP 5"
		C750	0CK1040K945	0.1UF 50V Z F TR
		C751	181-288J	MKT 100V 563JTR PHS26563
		C752	0CQ4721N409	0.0047UF D 100V 5% PE TP5
		C753	0CK10301945	10000PF D 1KV Z F(Y5V) TR
		C767	0CK10301945	10000PF D 1KV Z F(Y5V) T
		C774	0CZZTFT001Z	ECQB1H104JM3 104J 50V TP5.0 MATSUSHITA
		C801	0CE105CK638	"1UF SHL,SD 50V 20% FM5 TP 5"
		C805	0CE106CK638	"10UF SHL,SD 50V M FM5 TP 5"
		C810	0CE106CK638	"10UF SHL,SD 50V M FM5 TP 5"
		C901	0CBZTBU002A	BULK PCX2 335 224K
		C902	0CBZTBU002C	BULK PCX2 335 104M
		C903	0CZZTCB003D	BULK 7.5 CS E 102M 8.0 250V TDK
		C904	0CZZTCB003A	BULK 7.5 CS E 222M 10.5 250V TDK
		C905	0CZZTCB003A	BULK 7.5 CS E 222M 10.5 250V TDK
		C906	0CZZTCB003D	BULK 7.5 CS E 102M 8.0 250V TDK
		C907	0CZZTCB003A	BULK 7.5 CS E 222M 10.5 250V TDK
		C908	0CEZTBU002D	180UF 25.4*35 SMH/HC 400V M VNSN BULK
		C909	0CK10301945	10000PF D 1KV Z F(Y5V) TR
		C910	0CK22101515	220P 1KV K B TP5
		C911	0CE475CK638	"4.7UF SHL,SD 50V M FM5 TP 5"
		C912	0CK3310K515	330P 50V K B TS
		C913	0CE476CK63	"47UF SHL,SD 50V M FM5 TP 5"
		C914	0CZZTFT001	ECQB1H153JM3 153J 50V TP5.0 MATSUSHITA
		C915	0CK6810K515	680P 50V K B TS
		C917	0CK1020K515	1000PF 50V K B TR
		C918	0CK1040K945	0.1UF 50V Z F TR
		C941	0CE108CD618	1000UF SHL 10V M FL TP5
		C942	0CE107CF638	"100UF SHL,SD 16V M FM5 TP 5"
		C943	0CK56101515	560P 1KV K B TS
		C946	0CK2710W515	270P 500V K B TS
		C951	0CE108CH630	1000UF SHL 25V M FM5 BULK
		C952	0CE107CH638	"100UF SHL,SD 25V M FM5 TP 5"
		C953	0CE107CF638	"100UF SHL,SD 16V M FM5 TP 5"
		C954	0CE108CF630	1000UF SHL 16V M FM5 BULK
		C971	0CE476CN618	47UF SHL 100V M FL TP5
		C999	0CE227CL630	220U SHL 63V M FM5
Diodes				
		D201	0DLGP0040AB	XIAMEN G&P GP34052ME/50-ZSY BK BLUE-YW 180/200
		D301	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D302	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D303	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D304	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D305	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D306	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D307	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D308	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D309	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D310	0DS124409AA	1SS244 TP ROHM KOREA
		D311	0DS124409AA	1SS244 TP ROHM KOREA
		D312	0DS124409AA	1SS244 TP ROHM KOREA

MODEL :FLATRON T711B				DATE:2004.03.26
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		D313	0DS124409AA	1SS244 TP ROHM KOREA
		D314	0DS124409AA	1SS244 TP ROHM KOREA
		D315	0DS124409AA	1SS244 TP ROHM KOREA
		D316	0DRTW00119A	1N4005-1021 TIWAN SEMI TP DO41 600V 1A 30A 2USSEC 5.0UA
		D402	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D404	971-0016	TIN HDC 0.60H
		D512	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D702	0DS124409AA	1SS244 TP ROHM KOREA
		D703	0DRGF00120A	MUR460(15MM) GULF BK DO201AD 600V 4A 150A 45NSSEC 10UA
		D704	0DRFC00010A	FFPF04F150S FAIR CHILD ST TO220F 1500V 4A 40A 170NSEC 5UA
		D705	0DRGF00069A	SB140 GULF TP DO41 40V 1A 40A .SEC 1MA
		D706	0DRFC00010A	FFPF04F150S FAIR CHILD ST TO220F 1500V 4A 40A 170NSEC 5UA
		D710	0DR400409AC	UF4004 GULF TP DO41 400V 1A 30A 50NSEC 10UA
		D711	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D712	0DR100009CD	RGP10G-1021 TIWAN SEMI TP DO41 400V 1A 30A 150NSEC 5UA
		D714	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D715	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D716	0DRTW00119A	1N4005-1021 TIWAN SEMI TP DO41 600V 1A 30A 2USSEC 5.0UA
		D717	0DRTW00119A	1N4005-1021 TIWAN SEMI TP DO41 600V 1A 30A 2USSEC 5.0UA
		D718	0DRTW00119A	1N4005-1021 TIWAN SEMI TP DO41 600V 1A 30A 2USSEC 5.0UA
		D719	0DR100009DC	RGP10J-1021 TIWAN SEMI TP DO41 600V 1A 30A 250NSEC 5UA
		D720	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D721	0DR100009CD	RGP10G-1021 TIWAN SEMI TP DO41 400V 1A 30A 150NSEC 5UA
		D722	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D723	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D724	0RD1800A609	180 OHM 1/2 W (7.0) 5% TA52
		D730	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D731	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D768	0DR100009DC	RGP10J-1021 TIWAN SEMI TP DO41 600V 1A 30A 250NSEC 5UA
		D801	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D802	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D900	0DRTW00121A	D2SB60-1121 TIWAN SEMI ST GBL 600V 2A 80A _SEC 10UA
		D902	0DRGF00139A	GPP20J GULF TP DO15 600V 2.0A 70A 2.0USSEC 5.0UA
		D904	0DR100009CD	RGP10G-1021 TIWAN SEMI TP DO41 400V 1A 30A 150NSEC 5UA
		D905	0DD400709CB	UF4007 TP G.I DO204AL 1000V 1A 30A 75NS 10UA
		D906	0DR100009CD	RGP10G-1021 TIWAN SEMI TP DO41 400V 1A 30A 150NSEC 5UA
		D908	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D910	0DSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA

MODEL :FLATRON T711B				DATE:2004.03.26
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		D911	ODSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D941	ODR100009LD	UG1D GULF TP DO41 200V 1A 40A 40NSEC 10UA
		D942	ODR400409AC	UF4004 GULF TP DO41 400V 1A 30A 50NSEC 10UA
		D951	ODRGF00150A	UF5404 GULF BK DO201AD 400V 3.0A 150A 50NSSEC 10.0UA
		D952	ODSGF00019A	1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA
		D961	ODRGS00090A	31GF6L-5701 GENERAL SEMICONDUCTOR BK NON 600V 3A 60A 30NSEC 20UA
		D971	ODD400709CB	UF4007 TP G.I DO204AL 1000V 1A 30A 75NS 10UA
		ZD402	ODZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD403	ODZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD404	ODZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD405	ODZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD407	ODZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD410	ODZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD701	ODZ120009BF	GDZJ12B TP GRANDE DO34 0.5W 12V 5MA .PF
		ZD902	ODZ510009BE	GDZ5.1B TP GRANDE DO34 500MW 5.1V 20MA .PF
Cicls&Cores				
		FB301	6210TCZ001J	BAS3550T0(125-022J) BO SUNG RH3.5*5.0*0.8TMM AXIAL52MM
		FB302	6210TCE003L	BAS3580T BO SUNG 3580MM AXIAL52MM
		FB303	6210TCZ001J	BAS3550T0(125-022J) BO SUNG RH3.5*5.0*0.8TMM AXIAL52MM
		FB304	6210TCZ001J	BAS3550T0(125-022J) BO SUNG RH3.5*5.0*0.8TMM AXIAL52MM
		FB305	6210TCE003P	BRS2550B BO SUNG 2550MM RADIAL
		FB306	6210TCE003L	BAS3580T BO SUNG 3580MM AXIAL52MM
		FB307	6210TCE003B	BRS3580B BO SUNG 3580MM RADIAL
		FB308	6210TCE003J	BAS2550T BO SUNG 2550MM AXIAL52MM
		FB309	6210TCE003J	BAS2550T BO SUNG 2550MM AXIAL52MM
		FB310	6210TCE003A	BRD3510B BO SUNG 3510MM RADIAL
		FB313	6210TCE003J	BAS2550T BO SUNG 2550MM AXIAL52MM
		FB701	6210TCE003L	BAS3580T BO SUNG 3580MM AXIAL52MM
		FB903	6210TCE003P	BRS2550B BO SUNG 2550MM RADIAL
		FB905	6210TCE003J	BAS2550T BO SUNG 2550MM AXIAL52MM
		FB906	6210TCE003P	BRS2550B BO SUNG 2550MM RADIAL
		FB921	6210TCE003A	BRD3510B BO SUNG 3510MM RADIAL
		FB922	6210TCE003A	BRD3510B BO SUNG 3510MM RADIAL
		L311	0LA0680K119	0.68UH K 2.3*3.4 TP
		L312	0LA0680K119	0.68UH K 2.3*3.4 TP
		L313	0LA0680K119	0.68UH K 2.3*3.4 TP
		L702	6140TBZ025D	" - H-SIZE,DR12*20-C6.0,150UH 700BJ"

MODEL :FLATRON T711B				DATE:2004.03.26
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		L703	6140TYZ010G	"LX31 GET DR14*15- C5.2,16.5T,4.9UH,EB770H"
		L705	6140TBZ026C	DR15*18-C9.8 100UH 0.1*30MM 40.5T D/D CHOKE
		L901	6200TZZ004A	"SQE2626 NAMYANG BK L/FILTER 15MH,EB770H"
		L903	6210TCE003K	BAS3550T BO SUNG 3550MM AXIAL52MM
ics				
		IC302	0IPRPNS025B	"LM1246DDB/NA NATIONAL SEMICONDUCTOR 24, DIP ST ONE CHIP(VIDEO+OSD)"
		IC303	0IPRPNS026A	LM2445TA NATIONAL SEMICONDUCTOR 9P ST CRT DRIVE
		IC304	0IPRPNS005A	"LM2480NA NATIONAL SEMICONDUCTOR 8P,DIP ST 80V TRIPLE BIAS CLAMP"
		IC401	0IMCRSS035A	"LGM31B-180/AJH SAMSUNG ELECTRONICS 42,SDIP ST CDT K-CHASSIS 71KHZ 6-KEY"
		IC402	0ISG240860A	M24C08-BN6 8DIP BK 8K SERIAL IIC BUS EEPROM
		IC601	0IPRPPH018A	"TDA4867J PHILIPS 9PIN,ST DIP VERTICAL OUTPUT IC"
		IC701	0IPRPPH005A	"TDA4841PS PHILIPS 32P,SDIP ST IIC-BUS H/V SYNC PROCESSOR"
		IC901	0ISS384200A	KA3842B (PWM)
Transistors				
		Q501	0TR320209AA	KTC3202-Y(KTC1959) TP KEC TO92 NPN
		Q502	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO92 PNP
		Q503	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92 NPN
		Q705	0TR200009AB	KTC200-Y TP KEC TO92 NPN
		Q706	0TRFC10008A	FJAF5804(TU) FAIRCHILD ST TO3PF 1500V 12A
		Q707	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO92 PNP
		Q708	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO92 PNP
		Q709	0TRFC10010A	"KSD1589Y FAIRCHILD ST TO220F 150V NPN,5A/8A/0.5A"
		Q710	0TRKE90020A	MPSA44 KEC TP TO92 500V 300MA
		Q711	0TF630001BB	SGS-T(STM) IRF630MFP ST TO220F 200V 5A
		Q712	0TF630001BB	SGS-T(STM) IRF630MFP ST TO220F 200V 5A
		Q713	0TF630001BB	SGS-T(STM) IRF630MFP ST TO220F 200V 5A
		Q714	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92 NPN
		Q715	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92 NPN
		Q716	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92 NPN
		Q719	0TFFC10012A	FQPF10N20C FAIRCHILD ST TO220F 200V 9.5A
		Q720	0TR390409CA	FAIRCHILD 2N3904(TA) TP TO-92 60V 0.2A
		Q722	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92 NPN
		Q723	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO92 PNP
		Q799	0TRKE90019A	MPSA92 KEC TP TO92 -300V -500MA
		Q901	0TF760000AD	SSS7N60B FAIRCHILD ST TO220F 650V 7A
		Q903	0TR100809AA	KSC1008C-Y TP SAMSUNG TO92 NPN

MODEL :FLATRON T711B				DATE:2004.03.26
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		Q941	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92 NPN
		Q942	0TR127309AA	KTA1273-Y(KTA966A) TP KEC TO92L PNP
		Q951	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92 NPN
		Q952	0TR127309AA	KTA1273-Y(KTA966A) TP KEC TO92L PNP
		Q953	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO92 NPN

Resistors

		R201	0RD1001Q609	1K 1/4W(3 5% TA52
		R202	0RD0912Q609	91 OHM 1/4 W (3.4) 5% TA52
		R203	0RD2200Q609	220 1/4W(3 5% TA52
		R204	0RD4300Q609	430 OHM 1/4 W(3.4) 5.00% TA52
		R205	0RD1001Q609	1K 1/4W(3 5% TA52
		R206	0RD0912Q609	91 OHM 1/4 W (3.4) 5% TA52
		R207	0RD4300Q609	430 OHM 1/4 W(3.4) 5.00% TA52
		R208	0RD2200Q609	220 1/4W(3 5% TA52
		R209	0RD9100Q609	910 1/4W(3 5% TA52
		R210	0RD2200Q609	220 1/4W(3 5% TA52
		R211	0RD2200Q609	220 1/4W(3 5% TA52
		R301	0RD0752Q609	75 1/4W(3 5% TA52
		R302	0RD0752Q609	75 1/4W(3 5% TA52
		R303	0RD0752Q609	75 1/4W(3 5% TA52
		R305	0RN6201F409	6.20K 1/6W 1% TA52
		R314	0RD1000Q609	100 1/4W(3 5% TA52
		R315	0RD1000Q609	100 1/4W(3 5% TA52
		R319	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R320	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R326	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R327	0RD1001Q609	1K 1/4W(3 5% TA52
		R328	0RD1001Q609	1K 1/4W(3 5% TA52
		R329	0RD1001Q609	1K 1/4W(3 5% TA52
		R330	0RD1001Q609	1K 1/4W(3 5% TA52
		R331	0RD1600Q609	160 1/4W(3 5% TA52
		R332	0RD1600Q609	160 1/4W(3 5% TA52
		R333	0RD1600Q609	160 1/4W(3 5% TA52
		R334	0RD3303Q609	330K 1/4W(3 5% TA52
		R335	0RD3303Q609	330K 1/4W(3 5% TA52
		R336	0RD3303Q609	330K 1/4W(3 5% TA52
		R337	0RD1000Q609	100 1/4W(3 5% TA52
		R338	0RD0102Q609	10 1/4W(3 5% TA52
		R340	0RN1002F409	10K 1/6W 1 TA52
		R341	0RD0332A609	33 OHM 1/2 W (7.0) 5% TA52
		R342	0RD0332A609	33 OHM 1/2 W (7.0) 5% TA52
		R343	0RD0332A609	33 OHM 1/2 W (7.0) 5% TA52
		R344	0RD0332Q609	33 1/4W(3 5% TA52
		R345	0RD0332Q609	33 1/4W(3 5% TA52
		R346	0RD0332Q609	33 1/4W(3 5% TA52
		R347	0RD1200Q609	120 1/4W(3 5% TA52
		R401	0RD1000Q609	100 1/4W(3 5% TA52
		R402	0RD5600Q609	560 1/4W(3 5% TA52
		R403	0RD1002Q609	10K 1/4W(3 5% TA52
		R405	0RD2001Q609	2K 1/4W(3 5% TA52
		R406	0RD2001Q609	2K 1/4W(3 5% TA52
		R407	0RD1300Q609	130 1/4W(3 5% TA52
		R408	0RD1300Q609	130 1/4W(3 5% TA52
		R409	0RD1000Q609	100 1/4W(3 5% TA52
		R411	0RD3901Q609	3.90K 1/4W(3 5% TA52

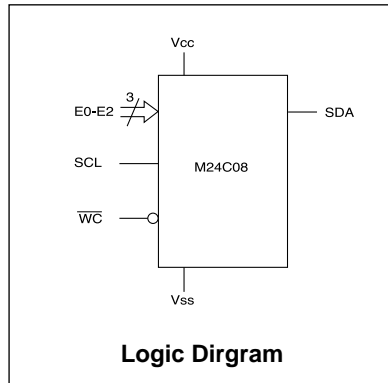
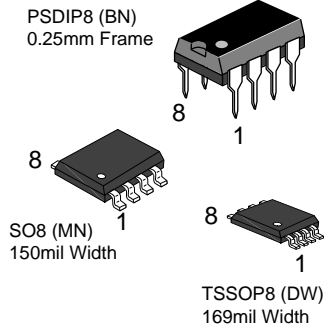
MODEL :FLATRON T711B				DATE:2004.03.26
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		R412	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R415	0RD1301Q609	1.30K 1/4W(3 5% TA52
		R416	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R417	0RD1000Q609	100 1/4W(3 5% TA52
		R418	0RD1002Q609	10K 1/4W(3 5% TA52
		R419	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R420	0RD3001Q609	3K 1/4W(3 5% TA52
		R424	0RD2200Q609	220 1/4W(3 5% TA52
		R425	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R426	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R429	0RD1000Q609	100 1/4W(3 5% TA52
		R430	0RD1000Q609	100 1/4W(3 5% TA52
		R431	0RD1000Q609	100 1/4W(3 5% TA52
		R432	0RD1000Q609	100 1/4W(3 5% TA52
		R433	0RD1000Q609	100 1/4W(3 5% TA52
		R434	0RD1000Q609	100 1/4W(3 5% TA52
		R438	0RD1001Q609	1K 1/4W(3 5% TA52
		R445	0RD1002Q609	10K 1/4W(3 5% TA52
		R447	0RD1001Q609	1K 1/4W(3 5% TA52
		R501	0RD0102A609	10 OHM 1/2 W (7.0) 5% TA52
		R508	0RD4702Q609	47K 1/4W(3 5% TA52
		R515	0RD1502Q609	15K 1/4W(3 5% TA52
		R597	0RD3902Q609	39K 1/4W(3 5% TA52
		R598	0RD5601Q609	5.60K 1/4W(3 5% TA52
		R599	0RD0202A609	20 OHM 1/2 W (7.0) 5% TA52
		R601	0RD1000Q609	100 1/4W(3 5% TA52
		R602	0RD1000Q609	100 1/4W(3 5% TA52
		R603	0RN0390H609	0.39 1/2W 5 TA52
		R604	0RD0101A609	1 OHM 1/2 W (7.0) 5% TA52
		R605	0RD0102A609	10 OHM 1/2 W (7.0) 5% TA52
		R606	0RD1000A609	100 OHM 1/2 W (7.0) 5% TA52
		R607	0RN4701F409	4.70K 1/6W 1% TA52
		R608	0RD5600A609	560 OHM 1/2 W (7.0) 5% TA52
		R609	0RD1000A609	100 OHM 1/2 W (7.0) 5% TA52
		R701	0RN3301F409	3.30K 1/6W 1% TA52
		R702	0RN6800F409	680 1/6W 1% TA52
		R704	0RD3601Q509	3.6K OHM 1/4 W(3.4) 2% TA52
		R706	0RN2701F409	2.7K OHM 1/6 W 1.00% TA52
		R709	0RD2202Q609	22K 1/4W(3 5% TA52
		R710	0RD1000Q609	100 1/4W(3 5% TA52
		R711	0RD1000Q609	100 1/4W(3 5% TA52
		R712	0RD1500Q609	150 1/4W(3 5% TA52
		R713	0RD1000Q609	100 1/4W(3 5% TA52
		R714	0RD5601Q609	5.60K 1/4W(3 5% TA52
		R714-1	0RN3001F409	3K 1/6W 1% TA52
		R714-2	0RN6200F409	620 1/6W 1% TA52
		R715	0RD3602Q609	36K 1/4W(3 5% TA52
		R718	0RD1602Q609	16K 1/4W(3 5% TA52
		R719	0RD1002Q609	10K 1/4W(3 5% TA52
		R721	0RD1001Q609	1K 1/4W(3 5% TA52
		R722	0RD4301Q609	4.30K 1/4W(3 5% TA52
		R723	0RD1001Q609	1K 1/4W(3 5% TA52
		R724	0RD1001Q609	1K 1/4W(3 5% TA52
		R725	0RN1501F409	1.5K 1/6W 1 TA52
		R726	0RD5102A609	51K OHM 1/2 W (7.0) 5% TA52
		R727	0RX0512K665	51 OHM 2 W 5% SF
		R728	0RD1001Q609	1K 1/4W(3 5% TA52
		R729	0RD1002Q609	10K 1/4W(3 5% TA52
		R731	0RD1002Q609	10K 1/4W(3 5% TA52

MODEL: FLATRON 774FT				DATE: 2002.05.28
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R732	ORD7502Q609	75K 1/4W(3 5% TA52
		R733	ORD1002Q609	10K 1/4W(3 5% TA52
		R735	ORD1001Q609	1K 1/4W(3 5% TA52
		R736	ORX2201J609	2.2KOHM 1 W 5% TA52
		R737	ORN0560H609	0.56 1/2W 5 TA52
		R738	ORN0560H609	0.56 1/2W 5 TA52
		R739	ORD6800Q609	680 1/4W(3 5% TA52
		R740	ORD0271A609	2.7 OHM 1/2 W (7.0) 5% TA52
		R741	ORD1000Q609	100 1/4W(3 5% TA52
		R742	ORD1003Q609	100K 1/4W(3 5% TA52
		R743	ORD2702Q509	27K OHM 1/4 W(3.4) 2% TA52
		R744	ORD1001A609	1K OHM 1/2 W (7.0) 5% TA52
		R745	ORD4702Q609	47K 1/4W(3 5% TA52
		R746	ORD2201Q609	2.20K 1/4W(3 5% TA52
		R747	ORD3001Q609	3K 1/4W(3 5% TA52
		R748	ORD4702Q609	47K 1/4W(3 5% TA52
		R749	ORD2201Q609	2.20K 1/4W(3 5% TA52
		R750	ORD3001Q609	3K 1/4W(3 5% TA52
		R751	ORD0222A609	22 OHM 1/2 W (7.0) 5% TA52
		R752	ORD2201Q609	2.20K 1/4W(3 5% TA52
		R753	ORD3001Q609	3K 1/4W(3 5% TA52
		R754	ORX4300K607	430 OHM 2 W 5% TA62
		R755	ORD0471Q609	4.70 1/4W(3 5% TA52
		R756	ORD2202A609	22K OHM 1/2 W (7.0) 5% TA52
		R758	ORN1303F409	130K 1/6W 1% TA52
		R759	ORD1002Q509	10K OHM 1/4 W (3.4) 2% TA52
		R761	ORD3001Q609	3K 1/4W(3 5% TA52
		R762	ORD3001Q609	3K 1/4W(3 5% TA52
		R763	ORD3001Q609	3K 1/4W(3 5% TA52
		R765	ORD3000A609	300 OHM 1/2 W (7.0) 5% TA52
		R766	ORD1501Q609	1.50K 1/4W(3 5% TA52
		R768	ORD9103A609	910K OHM 1/2 W (7.0) 5% TA52
		R769	ORN1001F409	1K 1/6W 1% TA52
		R771	ORD1501Q609	1.50K 1/4W(3 5% TA52
		R772	ORD2702Q509	27K OHM 1/4 W(3.4) 2% TA52
		R773	ORD3302A609	33K OHM 1/2 W (7.0) 5% TA52
		R778	ORD2001Q609	2K 1/4W(3 5% TA52
		R779	ORD3001Q509	3000 OHM 1/4 W(3.4) 2% TA52
		R782	ORD3301A609	3.3K OHM 1/2 W(7.0) 5.00% TA52
		R784	ORD1000Q609	100 1/4W(3 5% TA52
		R793	ORD4702Q609	47K 1/4W(3 5% TA52
		R797	ORD1501Q609	1.50K 1/4W(3 5% TA52
		R798	ORD2001Q609	2K 1/4W(3 5% TA52
		R799	ORD1502Q609	15K 1/4W(3 5% TA52
		R801	ORD1802Q609	18K 1/4W(3 5% TA52
		R802	ORD1502Q609	15K 1/4W(3 5% TA52
		R803	ORD1001Q609	1K 1/4W(3 5% TA52
		R805	ORD2001Q609	2K 1/4W(3 5% TA52
		R806	ORD4702Q609	47K 1/4W(3 5% TA52
		R808	ORD7502Q509	75K OHM 1/4 W(3.4) 2% TA52
		R809	ORX0101K665	1 OHM 2 W 5% SF
		R813	ORD4302Q609	43K 1/4W(3 5% TA52
		R814	ORD1002Q609	10K 1/4W(3 5% TA52
		R816	ORN3301F409	3.30K 1/6W 1% TA52
		R818	ORN6202F409	62KOHM 1/6 W 1% TA52
		R819	ORN8202F409	82K 1/6W 1% TA52
		R831	ORD1002Q609	10K 1/4W(3 5% TA52
		R901	ORD4703A609	470K OHM 1/2 W (7.0) 5% TA52
		R902	ORD0332Q609	33 1/4W(3 5% TA52
		R903	ORN1800F409	180 OHM 1/6 W 1.00% TA52
		R904	ORX3902K665	39K OHM 2 W 5% SF
		R906	ORD6200Q609	620 1/4W(3 5% TA52
		R907	ORD3902Q609	39K 1/4W(3 5% TA52
		R910	ORX4702J609	47K OHM 1 W 5% TA52
		R911	ORD0202Q609	20 1/4W(3 5% TA52
		R912	ORN1802F409	18K 1/6W 1% TA52
		R913	ORN2701F409	2.7K OHM 1/6 W 1.00% TA52
		R915	ORD0622Q609	62 OHM 1/4 W(3.4) 5.00% TA52
		R916	ORD1002Q609	10K 1/4W(3 5% TA52
		R918	ORD1001Q609	1K 1/4W(3 5% TA52
		R923	ORD1003Q609	100K 1/4W(3 5% TA52

MODEL :FLATRON 774FT				DATE:2002.05.28
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		R924	ORN0390H609	0.39 1/2W 5 TA52
		R925	ORN0390H609	0.39 1/2W 5 TA52
		R926	ORD4301Q609	4.30K 1/4W(3 5% TA52
		R927	ORD2002Q609	20K 1/4W(3 5% TA52
		R928	ORD1800Q609	180 1/4W(3 5% TA52
		R929	ORD0332Q609	33 1/4W(3 5% TA52
		R941	ORN0220H609	0.22 1/2W 5% TA52
		R944	ORD4700A609	470 OHM 1/2 W (7.0) 5% TA52
		R945	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R952	ORD1202A609	12K OHM 1/2 W(7.0) 5.00% TA52
		R953	ORD1001A609	1K OHM 1/2 W (7.0) 5% TA52
		R954	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R955	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R956	ORD6802A609	68K OHM 1/2 W (7.0) 5% TA52
		R957	ORD0472A609	47 OHM 1/2 W (7.0) 5% TA52
		R960	ORD6200A609	620 OHM 1/2 W(7.0) 5.00% TA52
		R962	ORD0332Q609	33 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"
		J57	ORD1001Q609	1K 1/4W(3 5% TA52
		P201	6631T20022E	6P-7P H-B 220MM UL 1061 AWG 26 TWI LS51K
		P405	6602T20008E	SMW200-06 YEONHO 6P 2.0MM LOCK S/T
		P501	6602T25008B	SMW250-03 YEONHO 3P 2.5MM LOCK S/T
		P701	366-112K	SA-0002K/YFW800-04L SE- A/YEONHO 4P 10.0MM NI PLATED
		P702	6631T20022A	12-13P H-B 300MM UL1061 AWG 26 TWI EB770H
		P902	366-164A	YW396-03AV YEONHO 3P 3.96MM S/T
		RL901	6920TBB007A	JZC-42012-2HS HONGMEI 250VAC 5A 12V 2A NO VENTING
		SC301	6620TBD003A	PCS701E PARK ELEC. 10PIN 14/360 STRAIGHT
		SC901	6620TKB002B	SA-4S HUA JIE AC UNIVERSAL 3PIN BLACK
		SG305	6918TRT005A	"SSG-102-A0,1KV SMART RADIA L TAPING"
		SG701	6918TRT005A	"SSG-102-A0,1KV SMART RADIAL TAPING"
		T701	6174T11005E	"CF2154/F700BK(17"/71K,FLAT,FCDD, FST) LIEN CHANGE 17"
		T702	6170TCZ012B	"EE1916 1.6MH FOCUS TRANS,700BJ"
		T703	6170TCZ015A	"EI-19 4.45MH H-DRIVE,700BJ"
		T901	6170TMZ147A	EER3541 300UH V-16PIN J-CHASSIS SI/SC/NY/JS CCM
		TH901	163-053E	J502P61D4R5Q270 JA HWA 4.5OHM 20% 8 D2 10 SEMITEC 8OHM 15% D(11.5)
		TH902	6322A00003C	HC-49U SOUTH STAR 12MHZ +/- 30 PPM 22PF BULK
		X401	6212AA2003A	

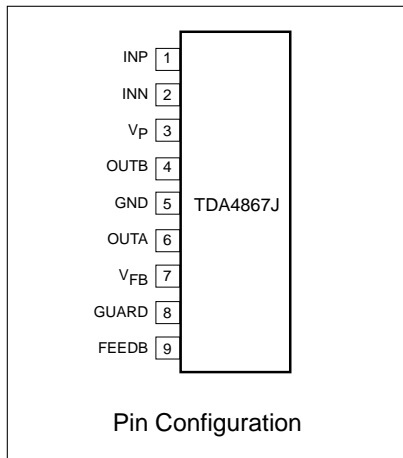
# PIN CONFIGURATION

## M24C08 Serial I<sup>2</sup>C BUS EEPROM

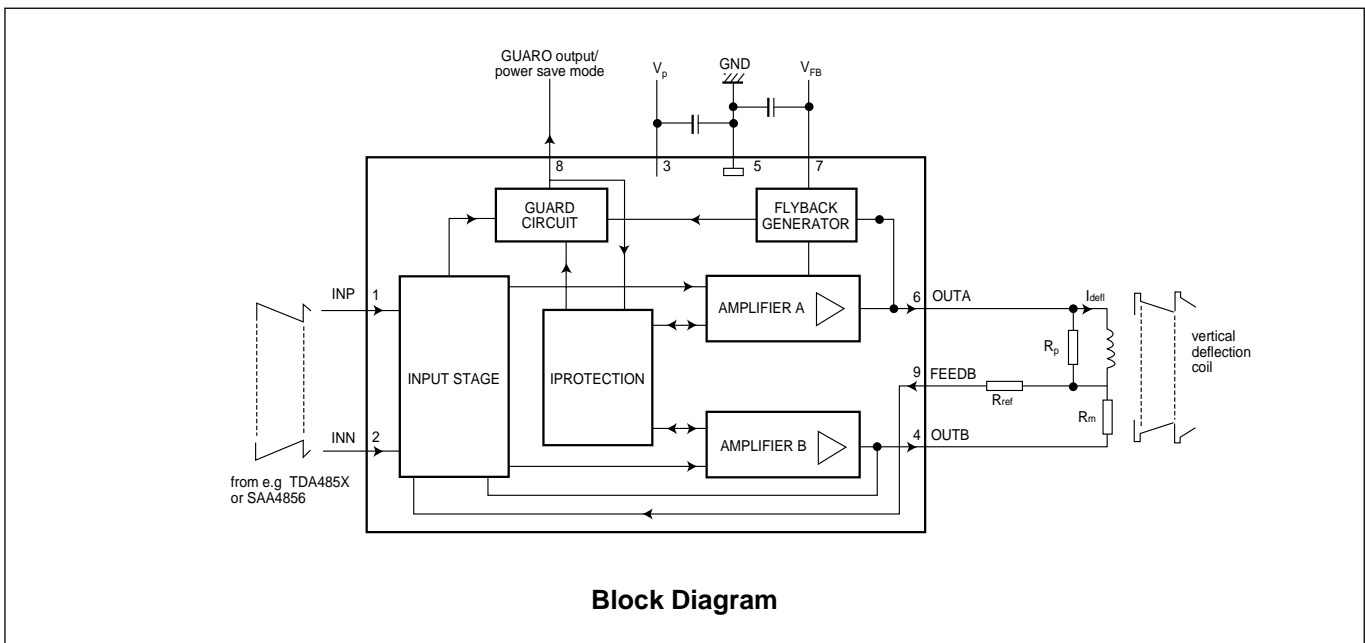


SYMBOL	DESCRIPTION
E0-E2	Chip Enable Input
SDA	Serial Data Address Input/Output
SCL	Serial Clock
WC	Write Control
Vcc	Supply Voltage
Vss	Ground

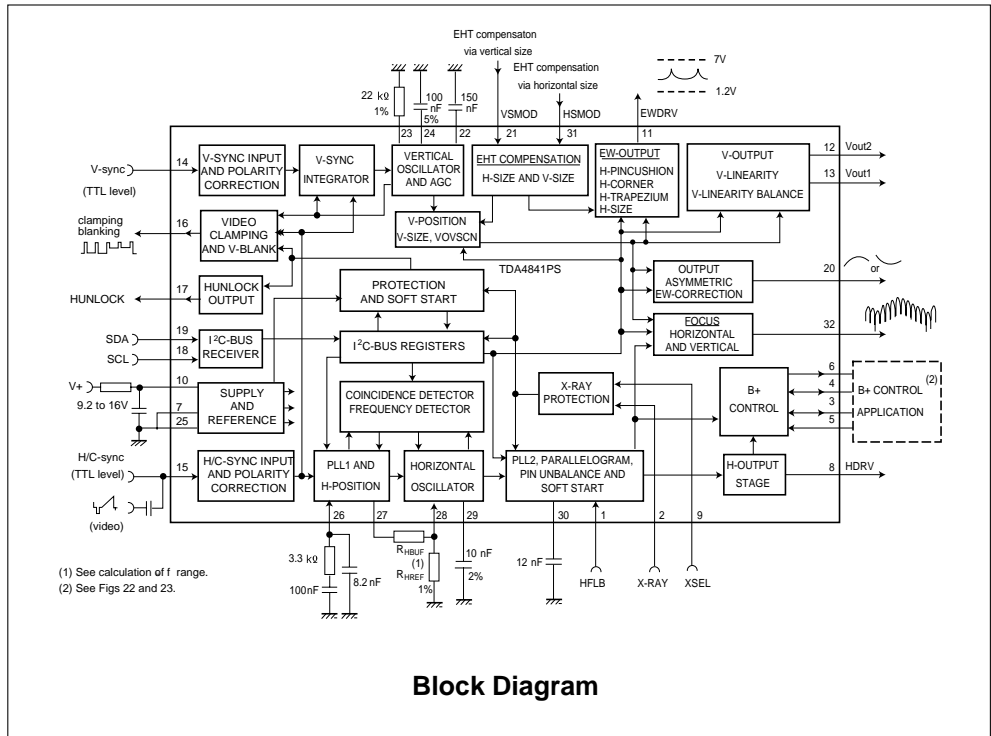
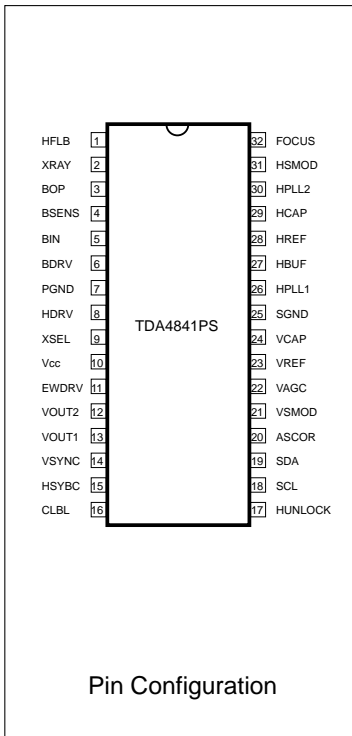
## TDA4867J PHILIPS 32P, SDIP



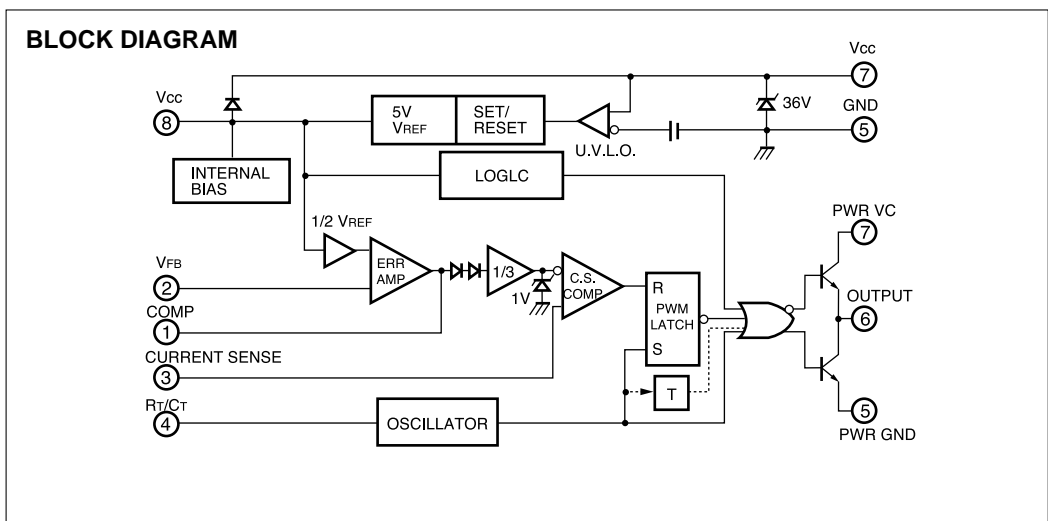
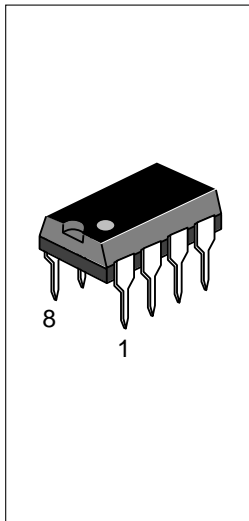
SYMBOL	PIN	DESCRIPTION
INP	1	non-inverted input
INN	2	inverted input
VP	3	supply voltage
OUTB	4	output B
GND	5	ground
OUTA	6	output A
VFB	7	flyback supply voltage
GUARD	8	guard output
FEEDB	9	feedback inprt



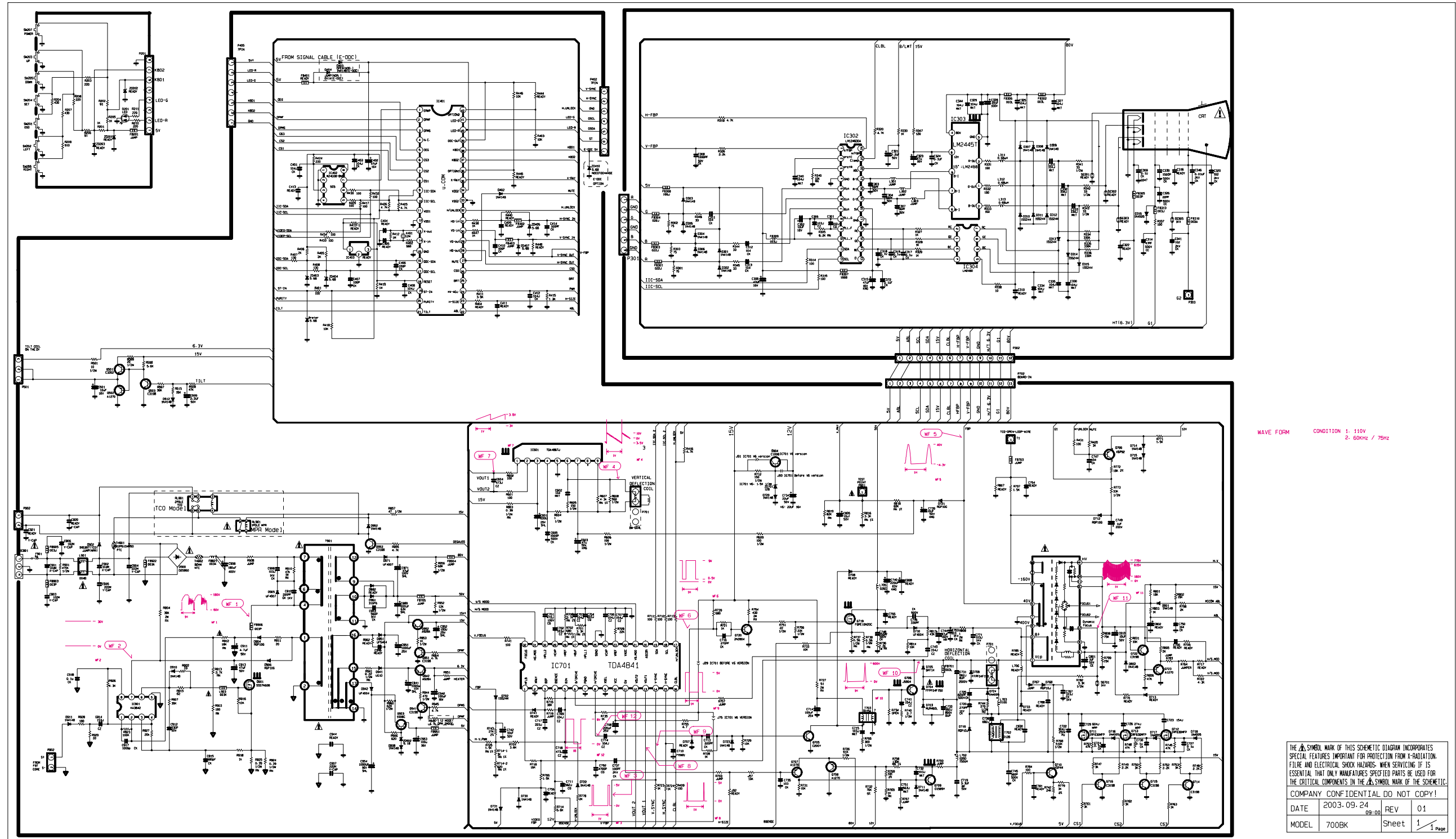
## TDA4841PS PHILIPS 32P



## KA3842B Current-Mode PWM Controller



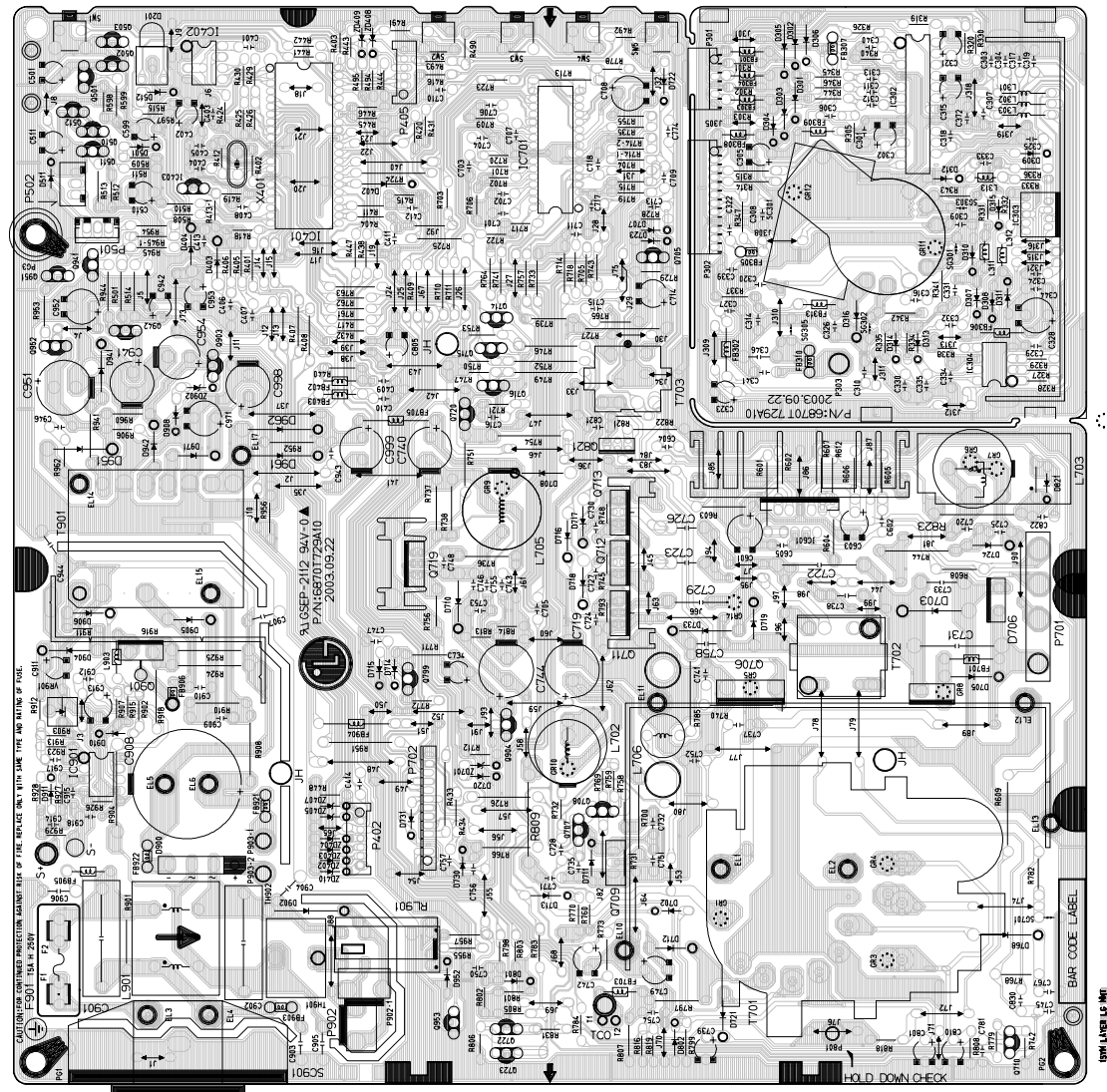
# SCHEMATIC DIAGRAM



**NOTICE**  
 Since this is a basic schematic diagram,  
 The value of components and some partial connection are  
 subject to be changed for improvement without notice.

# PRINTED CIRCUIT BOARD

1. MAIN BOARD (Component Side)



2. MAIN BOARD (Solder Side)

