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COLOR MONITOR

SERVICE MANUAL

CHASSIS NO. : CA-131

MODEL: StudioWorks 700S (700BJ-AL**M, AL**B)

StudioWorks 700B (700BJ-AL**E)

StudioWorks 700E (700BJ-AL**A, AL**K)

() **Same model for Service

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
Dot Pitch	: 0.27 mm
Face Treatment	: W-ARASC (Anti-Reflection and Anti-Static Coating)
Low Radiation	: MPR II, TCO 99

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 (Free Voltage), 50/60Hz, 1.0A Max.

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	
OFF	less than 5 W	AMBER

4. DISPLAY AREA

4-1. Active Video Area :

- Max Image Size - 326.7 x 245.5 mm (12.86" x 9.67")
- 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	: 400.0 mm (15.74 inch)
Depth	: 420.0 mm (16.53 inch)
Height	: 395.0 mm (15.55 inch)

7. WEIGHT (with TILT/SWIVEL)

Net Weight	: 14.1 kg (31.15 lbs.)
Gross Weight	: 16.6 kg (36.60 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.

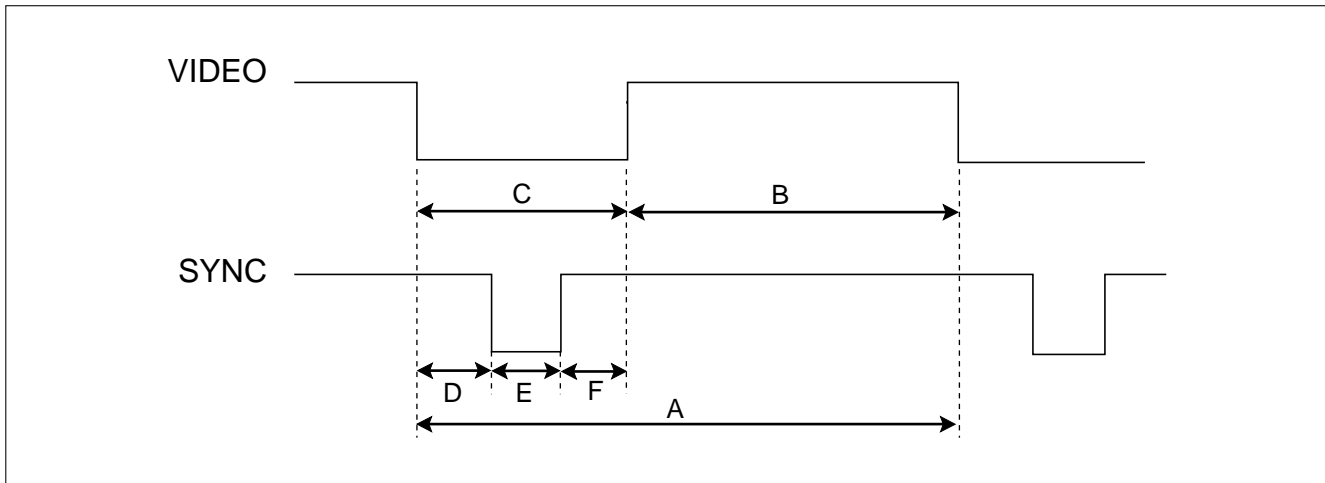
Note : It is important to use an accurate high voltage meter calibrated periodically.

- 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

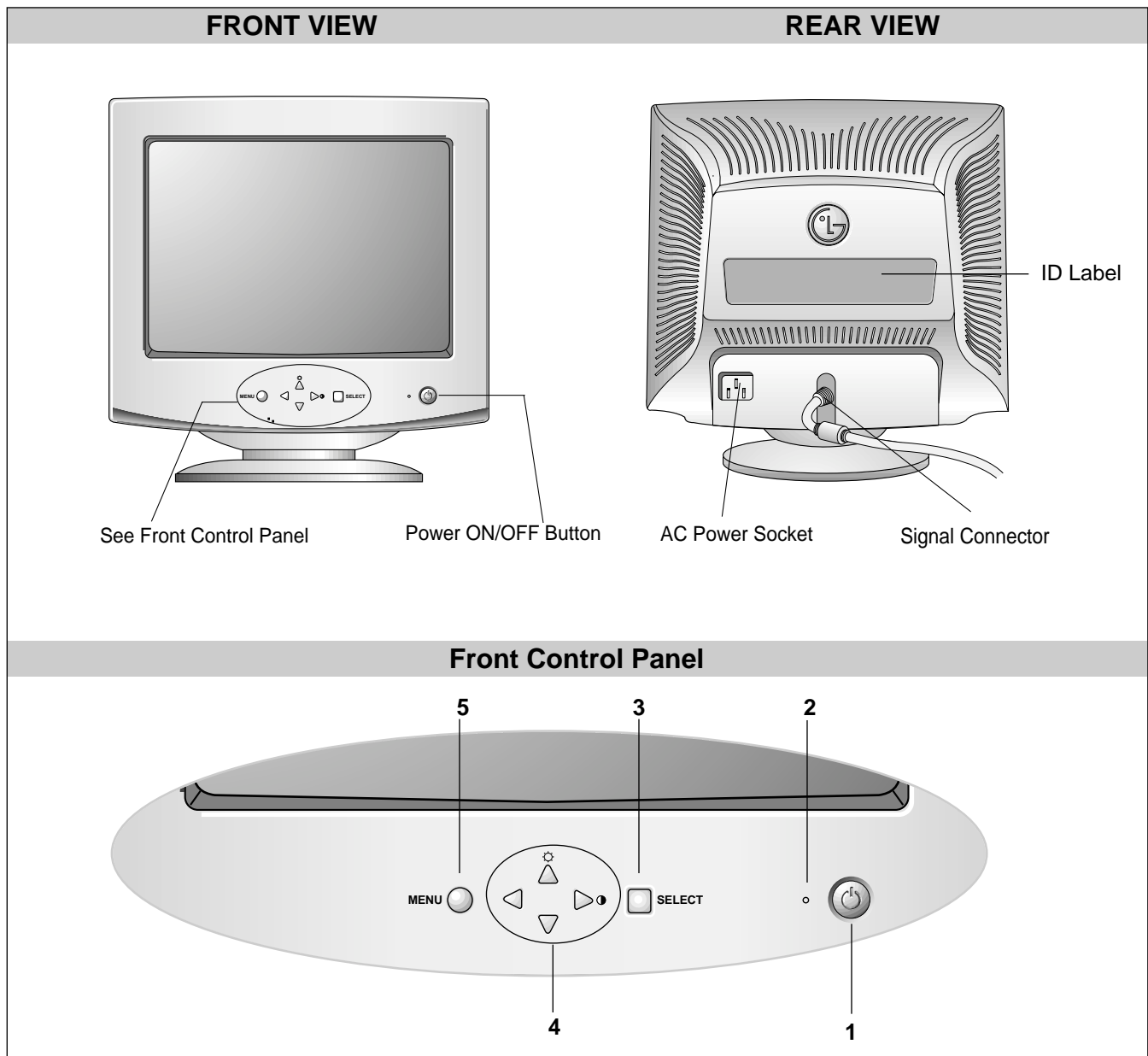


<< Dot Clock (**MHz**), Horizontal Frequency (**kHz**), Vertical Frequency (**Hz**), Horizontal etc... (**μs**), Vertical etc... (**ms**) >>

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



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.

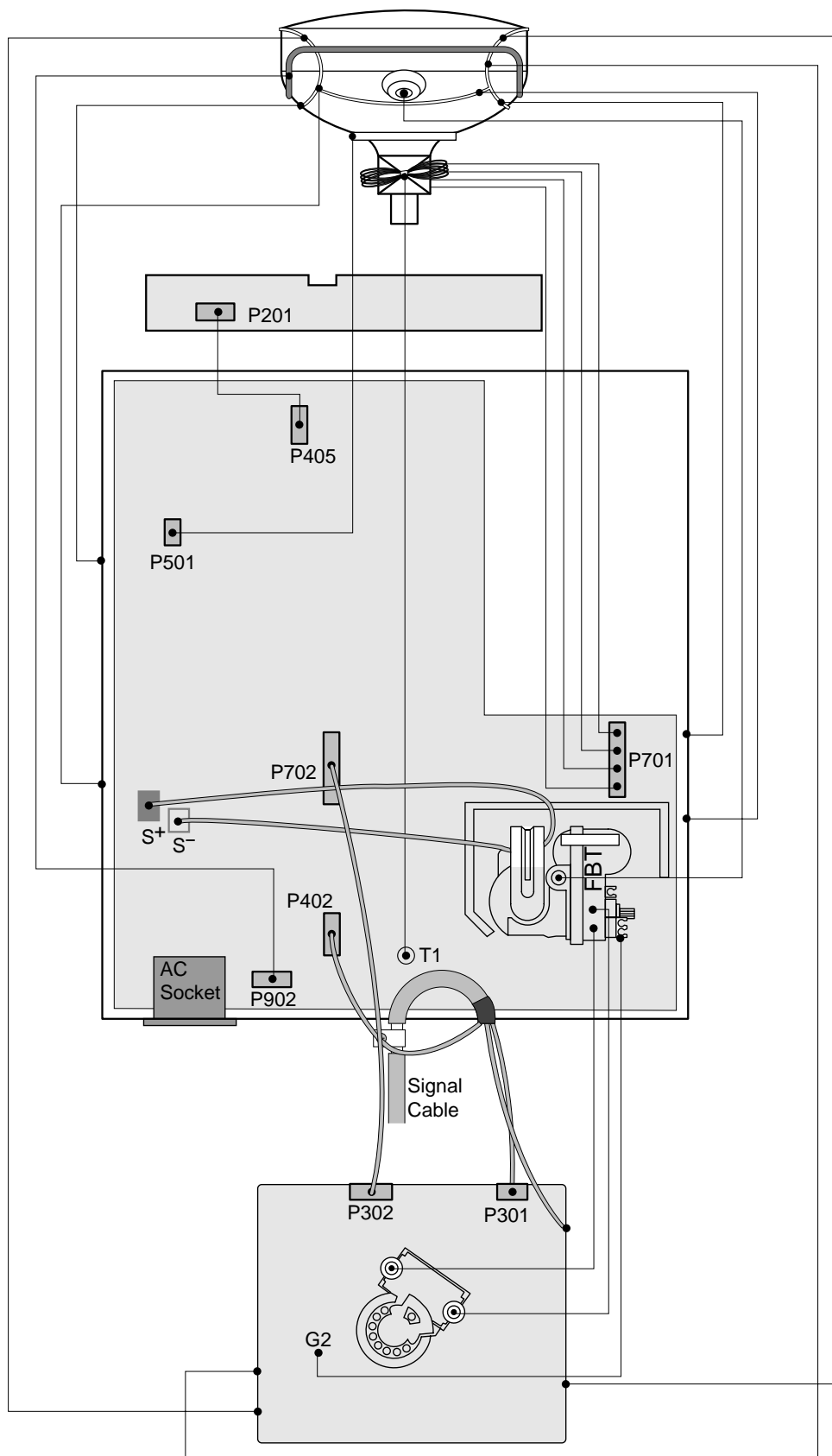
4. $\Delta \nabla / \triangleleft \triangleright$ Button

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.

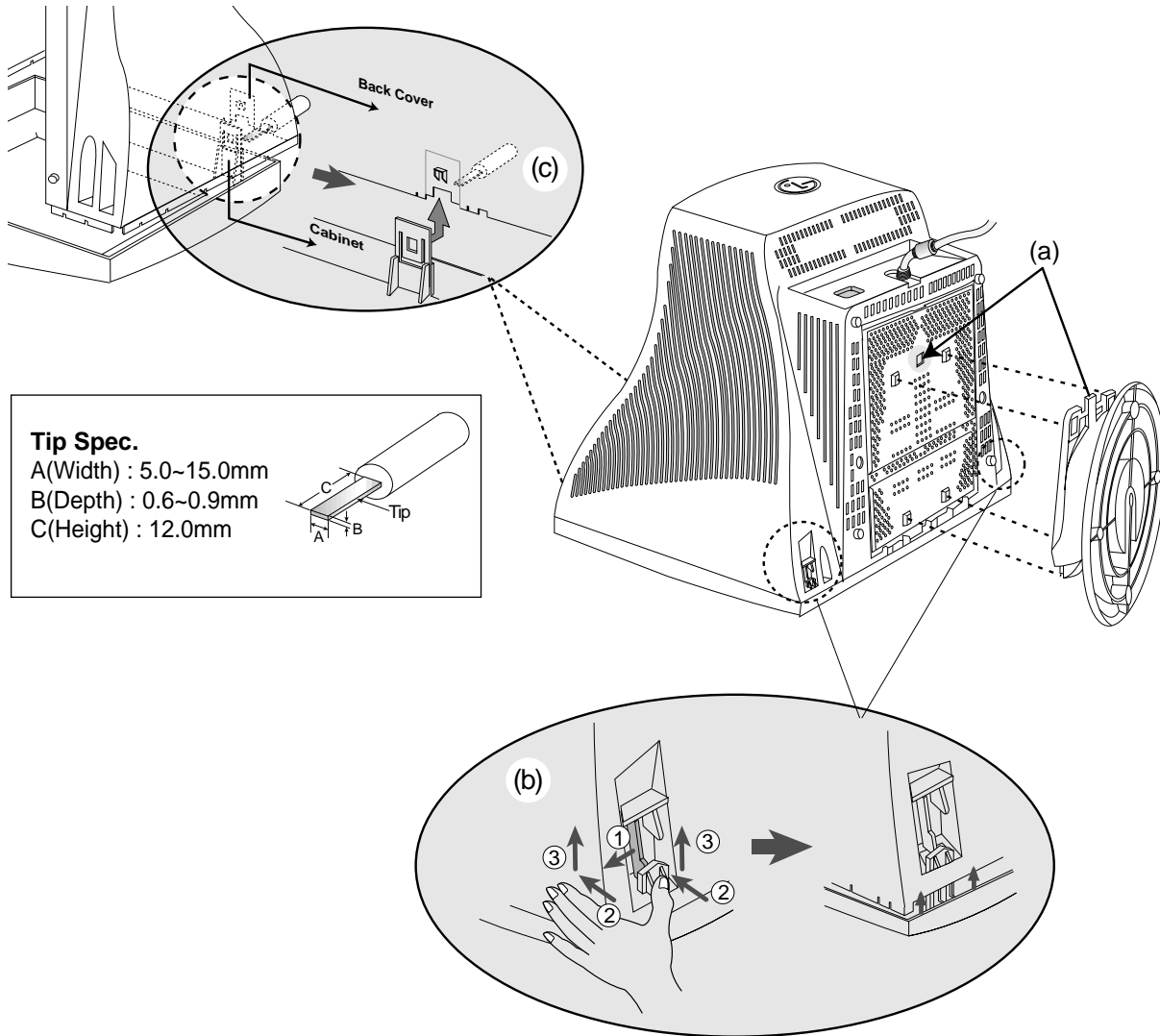
WIRING DIAGRAM



DISASSEMBLY

1. TILT/SWIVEL & BACK COVER REMOVAL

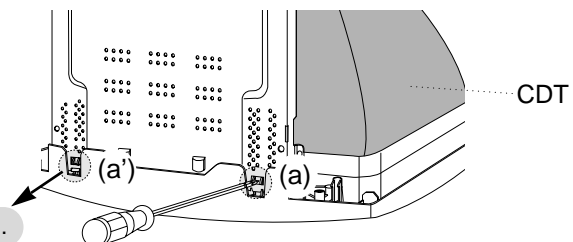
- 1) Set the monitor face downward.
- 2) Pull the latch (a), carefully remove the Tilt/Swivel by pulling it upward.
- 3) Pressing the latch (b), Back cover by pushing it upward.
- 4) Release the latch (c).
- 5) Slide the Back Cover away from the Front Cabinet of the monitor.



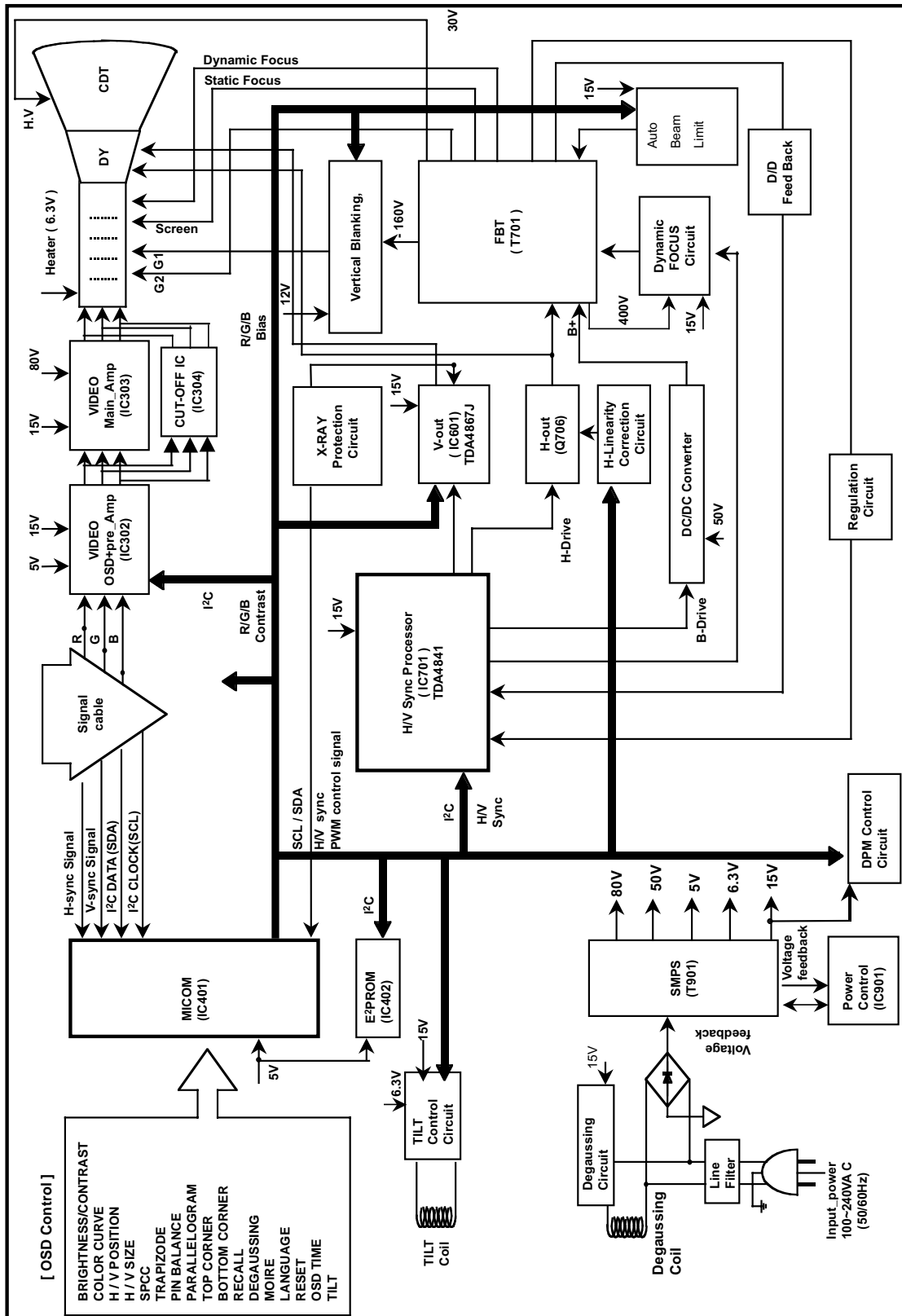
2. TOTAL CHASSIS ASSEMBLY REMOVAL

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

⚠ Please be careful, not to cut pattern.



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⁺ Voltage.

- 1) Display cross hatch pattern at Mode 4.
- 2) Check D961 voltage to 50.0V \pm 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 \pm 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 700BJ 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 \pm 2mm.
- 13) Adjust V-POSITION as arrow keys to center of the screen.
- 14) Adjust H-SIZE as arrow keys to 310 \pm 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 \pm 0.05FL of the raster luminance.
- 8) Adjust R-BIAS and G-BIAS command to x=0.283 \pm 0.005 and y=0.298 \pm 0.005 on the White Balance Meter with PC arrow keys.
- 9) Adjust SUB-Brightness command to 0.4 \pm 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 $50\pm2\text{FL}$.
- 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 $32\pm1\text{FL}$ 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.

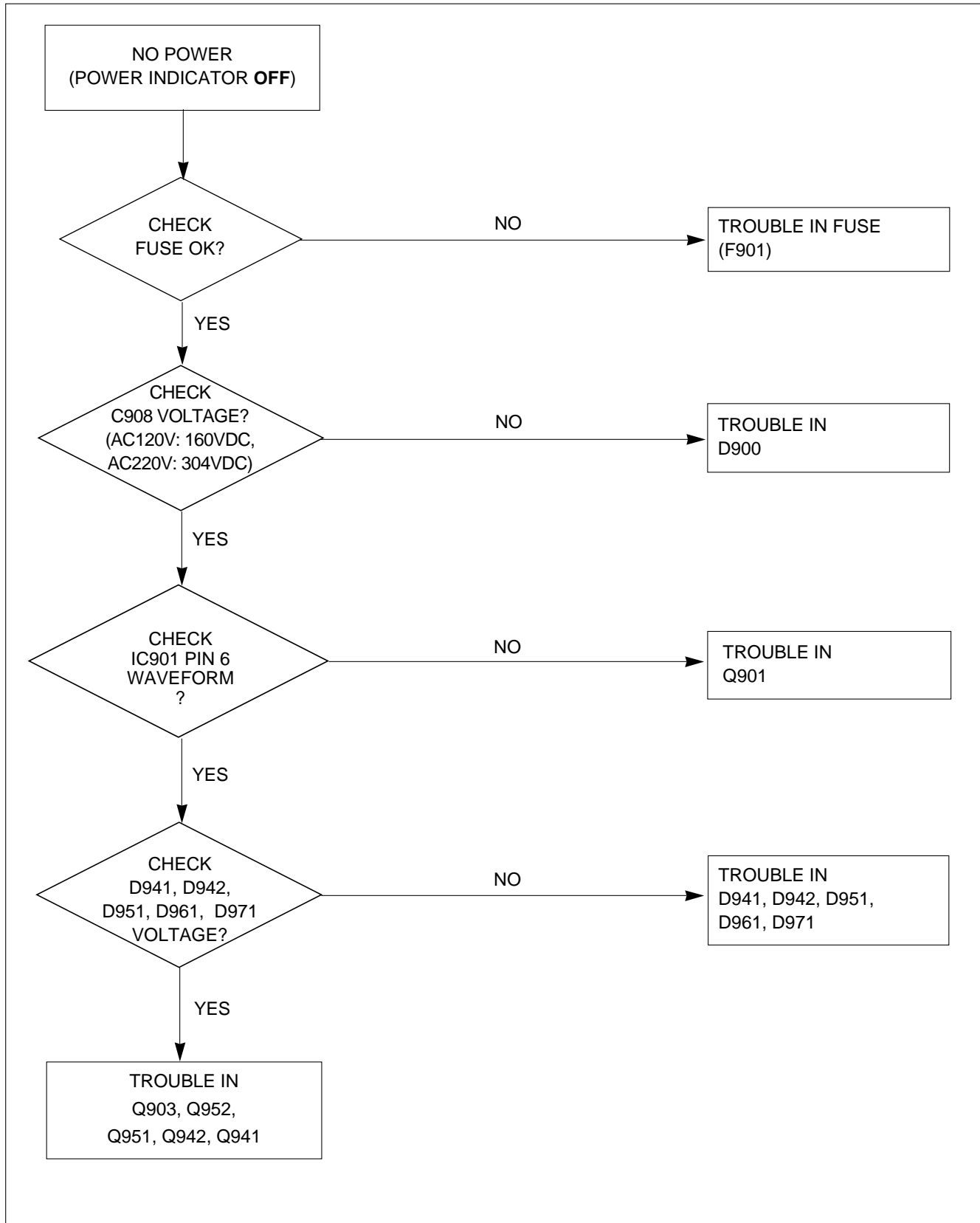
- 1) Display color 15,0 cross hatch pattern at Mode 4.
- 2) EEPROM → Write EDID command and confirm "EDID Write OK!!" message of monitor.
- 3) Exit from the alignment program.
- 4) Power switch OFF/ON for EDID data save.

6. Adjustment for Focus.

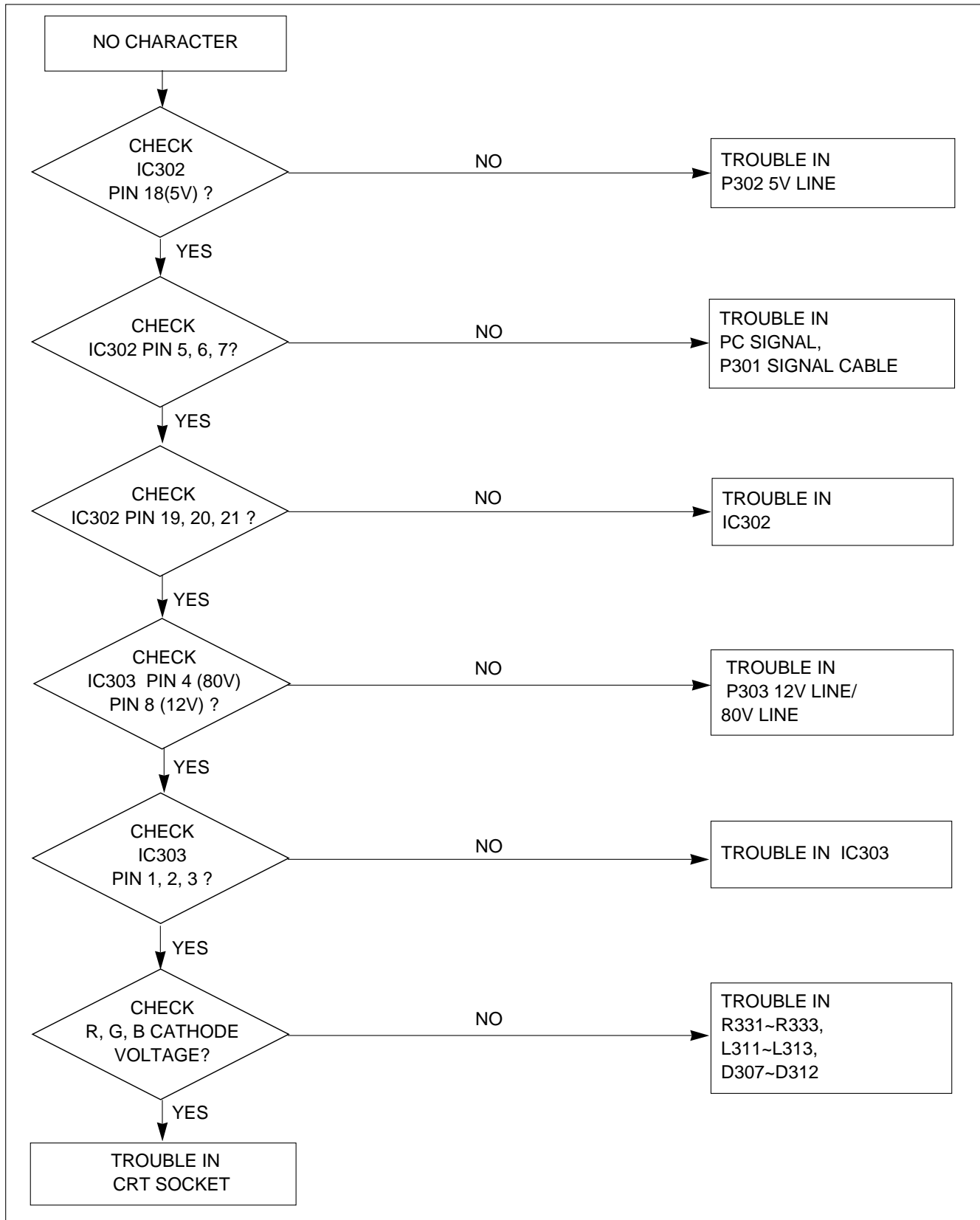
- 1) Set the Brightness and Contrast to max position.
- 2) Display H character in full screen at Mode 4.
- 3) Adjust two Focus control on the FBT that focus should be the best condition.

TROUBLESHOOTING GUIDE

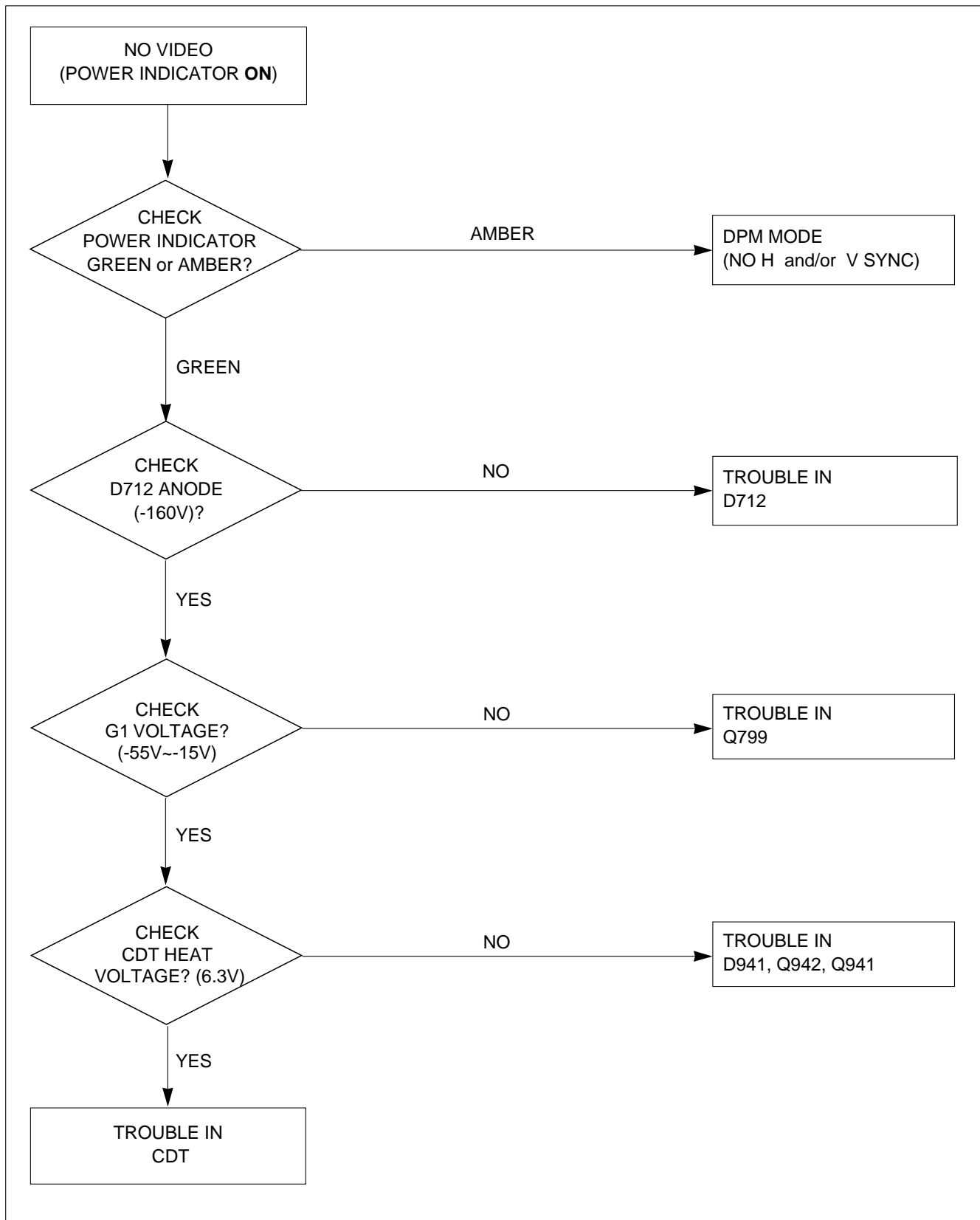
1. NO POWER



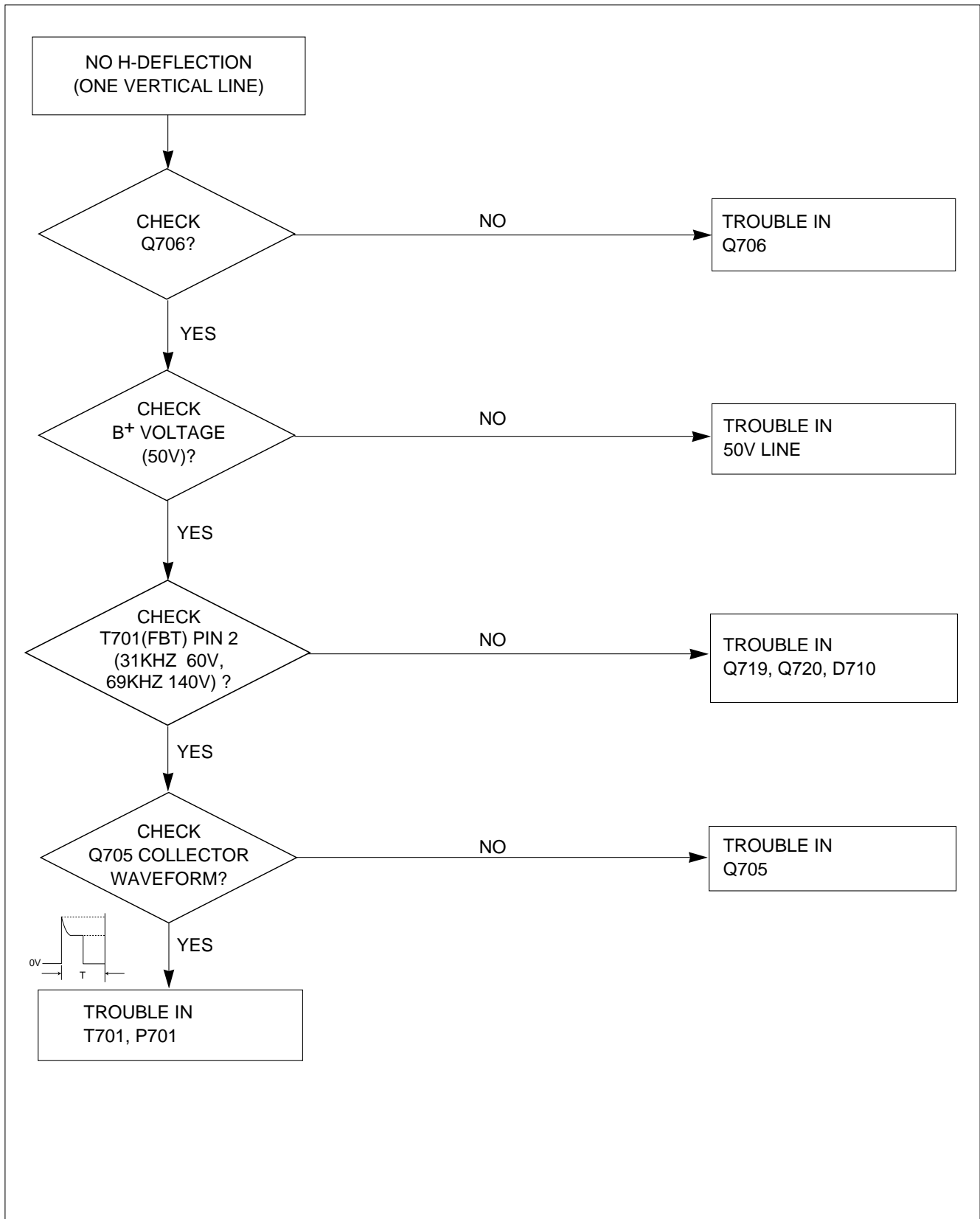
2. NO CHARACTER



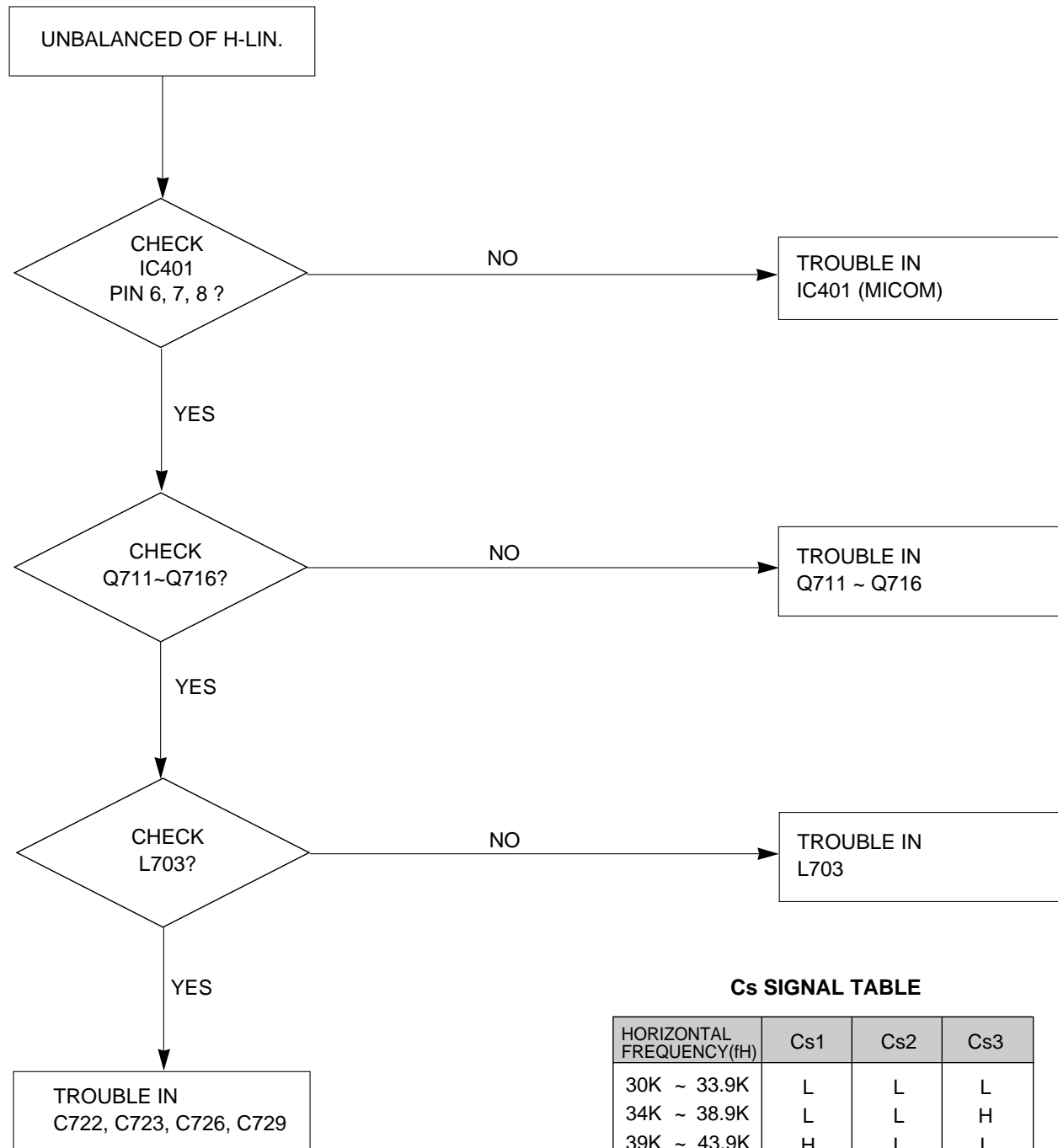
3. NO RASTER



4. NO HORIZONTAL DEFLECTION



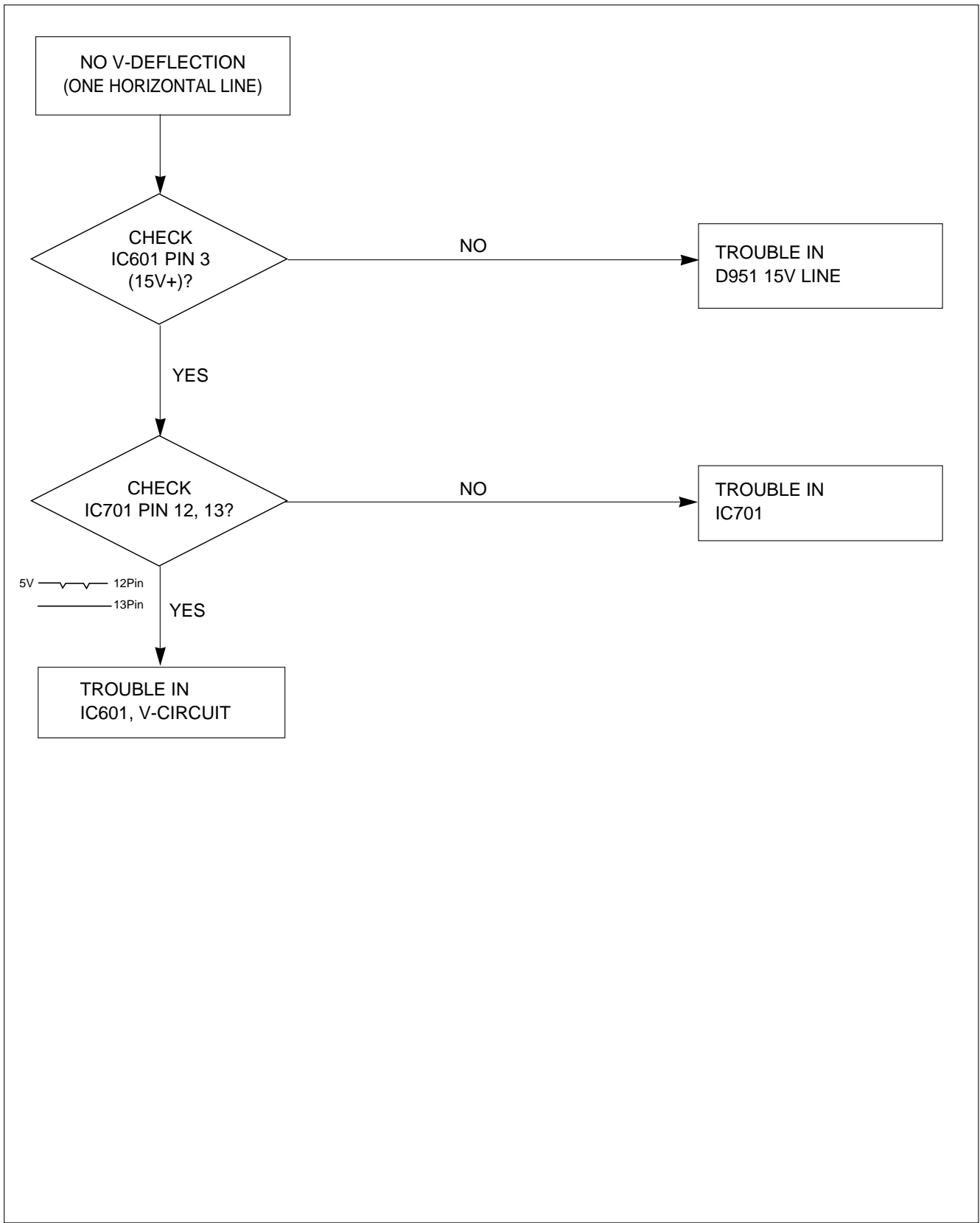
5. TROUBLE IN H-LINEARITY



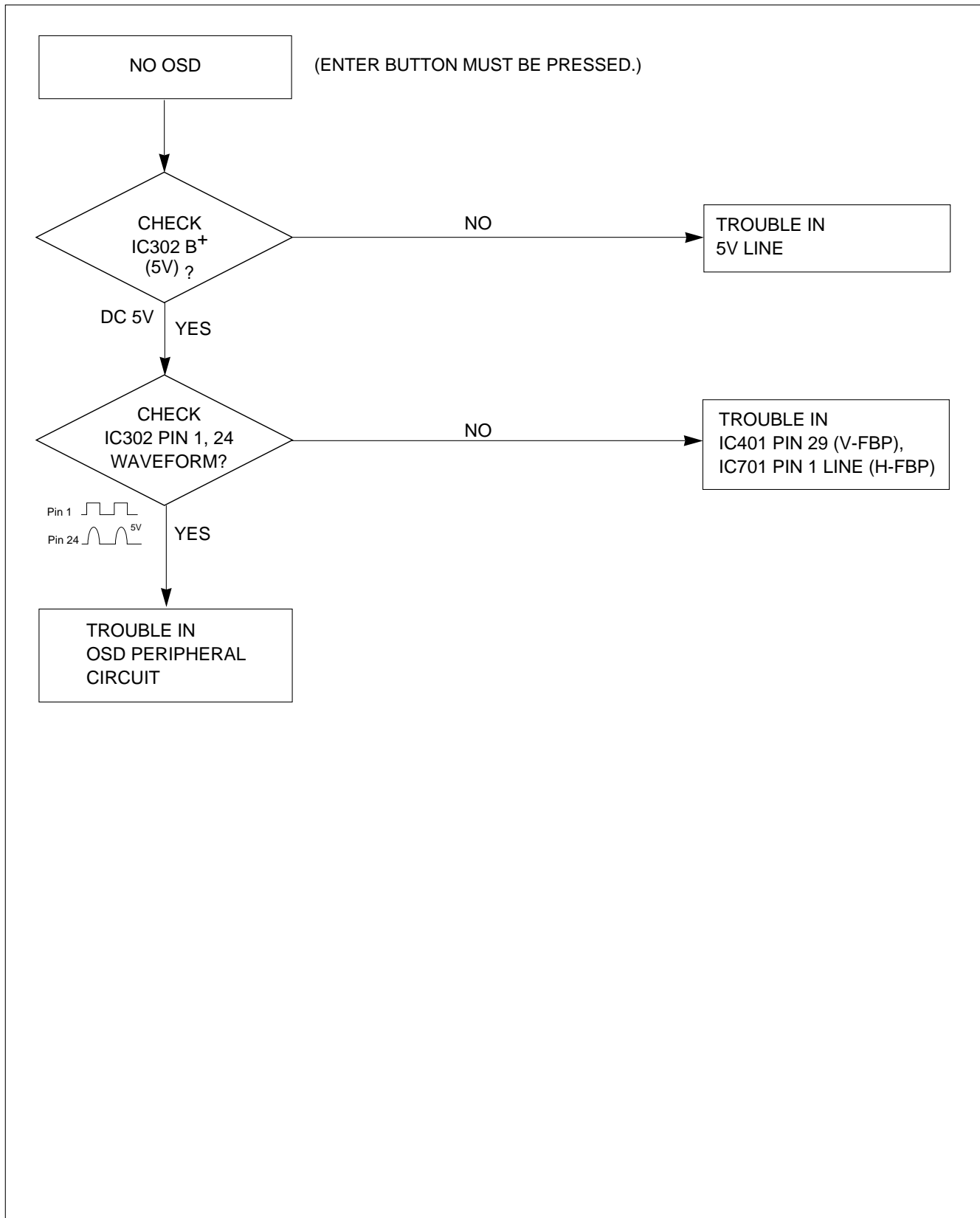
Cs SIGNAL TABLE

HORIZONTAL FREQUENCY(fH)	Cs1	Cs2	Cs3
30K ~ 33.9K	L	L	L
34K ~ 38.9K	L	L	H
39K ~ 43.9K	H	L	L
44K ~ 48.9K	H	L	L
49K ~ 51.9K	H	H	L
52K ~ 57.9K	H	H	L
58K ~ 61.9K	H	H	L
62K ~ 65.9K	H	H	H
66K ~ 71K	H	H	H

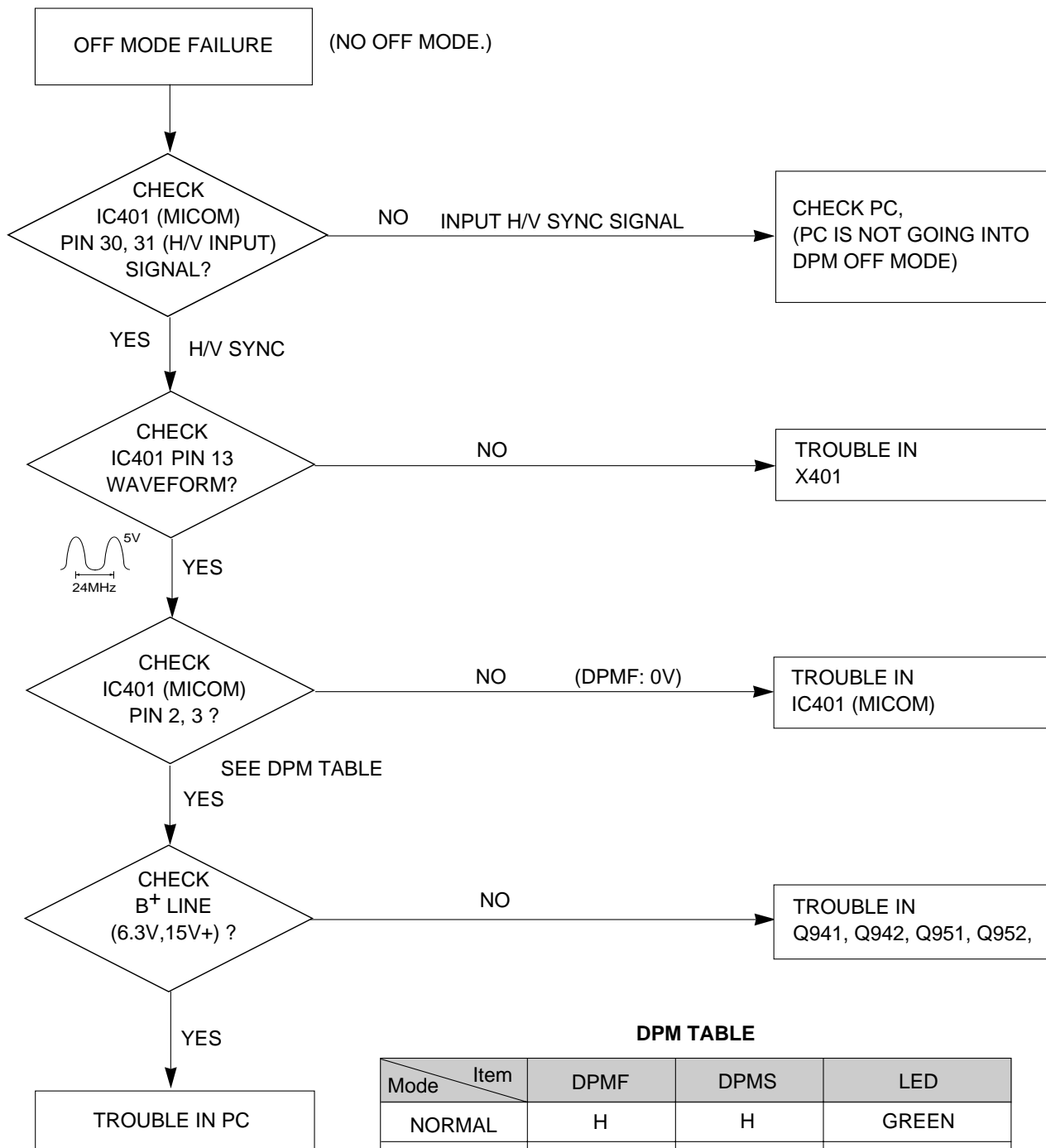
6. NO VERTICAL DEFLECTION



7. TROUBLE IN OSD



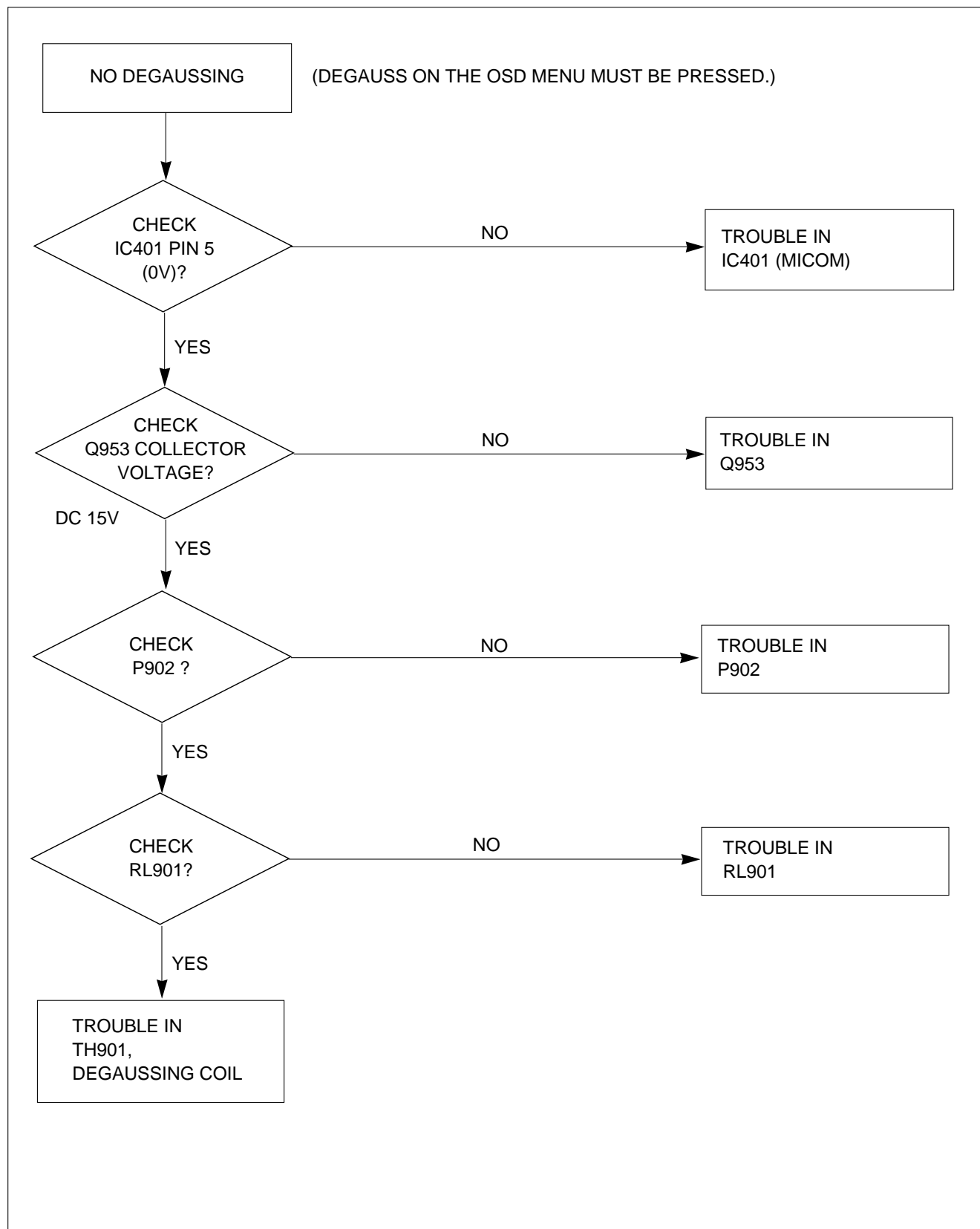
8. TROUBLE IN DPM



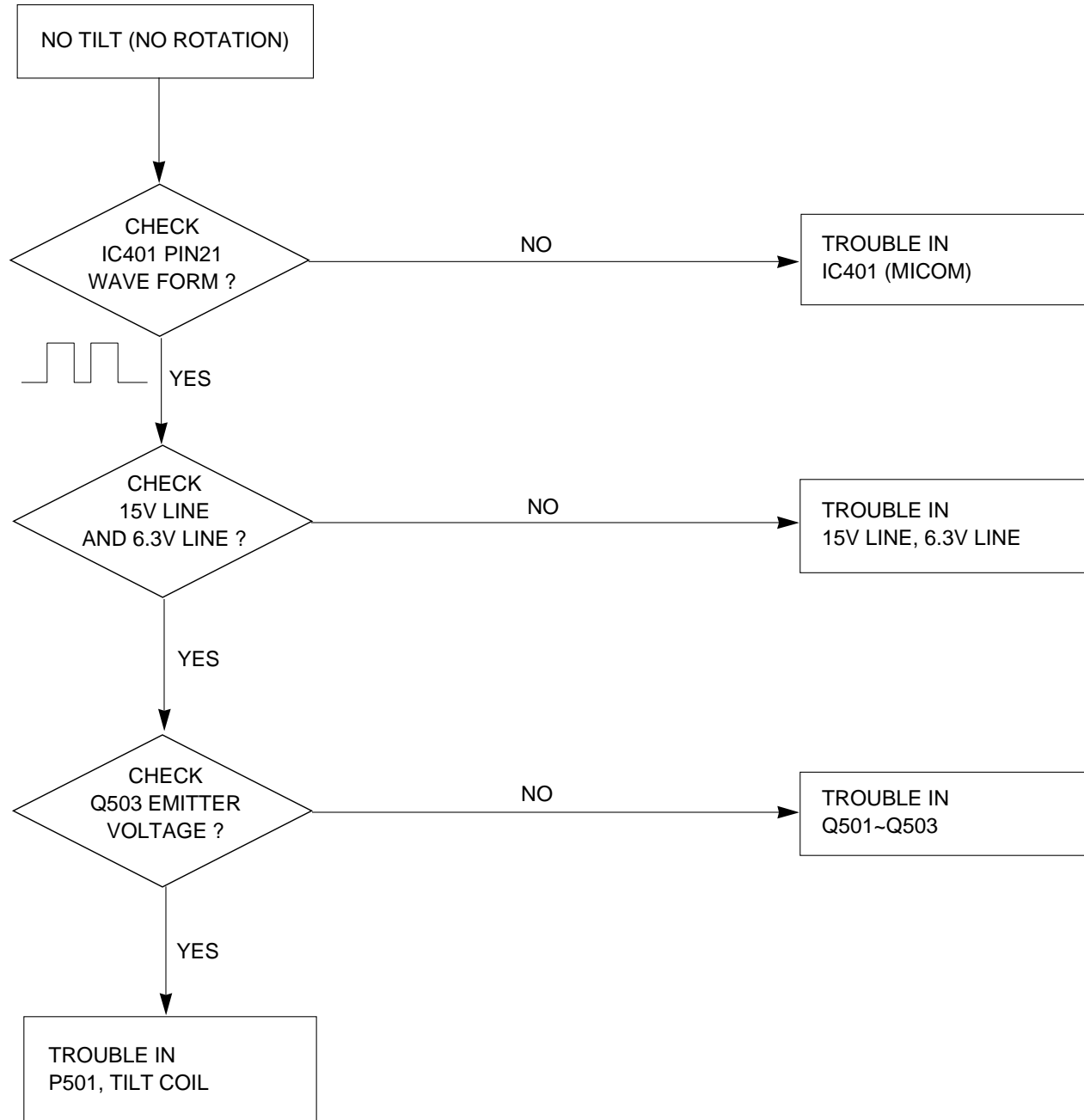
DPM TABLE

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

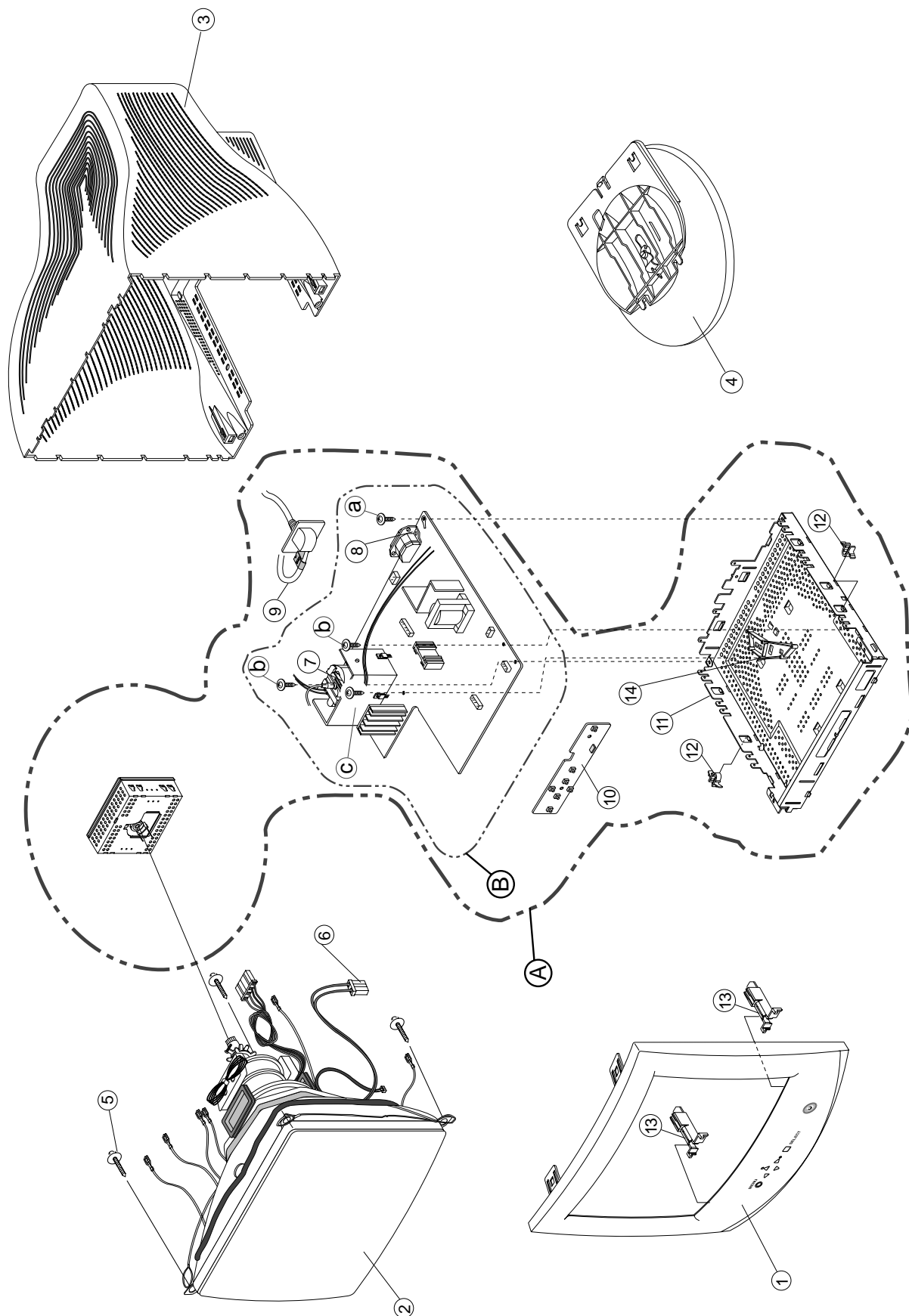
9. NO DEGAUSSING



10. NO TILT (NO ROTATION)



EXPLODED VIEW




EXPLODED VIEW PARTS LIST

Ref. No.	Part No.	Description
1	3091TKC061G	CABINET ASSEMBLY, CB777F BRAND C055 "C"CKD,ABS - For World Wide(700S)
	3091TKC061Y	CABINET ASSEMBLY, CB777H BRAND C055 320T 85964 S/W700E DI LOCAL - For Europe, Chile(700E)
	3091TKC061L	CABINET ASSEMBLY, CB777F BRAND C055 MPR,SW700E,LG(RED) - For Panama, Brazil(700E)
	3091TKC061E	CABINET ASSEMBLY, CB777F BRAND C055 "A" CKD,PC+ABS - For World Wide(700B)
	3091TKC061J	CABINET ASSEMBLY, CB777F BRAND C055, MPR2/LG(RED) - For Brazil(700S)
	3091TKC061Z	CABINET ASSEMBLY, CB777H BRAND C055 S/W700S 320T 92166 BK DI LOCAL - For South Africa, U.S.A, Philippines, Mexico(700S)
	3091TKC061C	CABINET ASSY, CB777F BRAND C055 ABS - For India(700S), (700E)
	3091TKC093B	CABINET ASSEMBLY, CB777H BRAND C055 BLACK 92166 S/W700E DI LOCAL(LG:2 COLOR) - For Panama(700E)
2	6318L17015A	CDT(CIRC), M41LFQ803X 00NGAA LG-PHILIPS 70KHZ 29.1MM FST MPR BARE - For Northern Hemisphere(700S)
	6318L17015C	CDT(CIRC), M41LFQ503X 00NGLD LG-PHILIPS 70KHZ 29.1MM FST GLARE BARE - For Northern Hemisphere(700E)
	6318L17015F	CDT(CIRC), M41LFQ503X 00QGLD LG-PHILIPS 70KHZ 29.1MM FST GLARE BARE - For Equatorial(700E)
	6318L17015H	CDT(CIRC), M41LFQ803X 00SGUD LG-PHILIPS 70KHZ 29.1MM FST TCO BARE - For Southern Hemisphere(700B)
	6318L17015G	CDT(CIRC), M41LFQ803X 00SGAA LG-PHILIPS 70KHZ 29.1MM FST MPR BARE - For Southern Hemisphere(700S)
	6318L17007B	CDT(CIRC), M41LFQ503X 55QLLD LG-PHILIPS 70KHZ 29.1MM FST GLARE - For Brazil(700E)
	6318L17006B	CDT(CIRC), M41LFQ803X 55QLUD LG-PHILIPS 70KHZ 29.1MM FST GREEN - For Brazil(700S)
	6318L17016B	CDT(CIRC), M41LFQ503X55KLLM LG-PHILIPS DISPLAYS 70KHZ 29.1MM FST GLARE SEMI-ITC - For India(700E)
	6318L17016A	CDT(CIRC), M41LFQ803X 55KLAM LG-PHILIPS 70KHZ 29.1MM FST MPR GREEN - For India(700S)
3	3809TKC035B	BACK COVER ASSY, CB777F C035 ABS - For World Wide(700S), (700E)
	3809TKC035A	BACK COVER ASSY, CB777F C035 PC-ABS 4TH - For World Wide(700B)
	3809TKC053A	BACK COVER ASSEMBLY, BRAND C055 CB777H 320T 92166 BK DI LOCAL - For South Africa, U.S.A, Philippines(700S), Panama(700E)
4	3043TKK074B	TILT SWIVEL ASSEMBLY, CB777F B046/T053 LOCAL,RUBBER CKD - For World Wide(700S), (700E), Australia(700B)
	3043TKK074P	TILT SWIVEL ASSEMBLY, CB777H T053/B046 60HR 92166 BK DI LOCAL - For South Africa, U.S.A, Philippines(700S), Panama(700E)
	3043TKK074A	TILT SWIVEL ASSEMBLY, CB777F T053/B046 4TH-HIPS - For World Wide(700B), India(700E), India, U.S.A, U.K, Russia(700S)
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	6174T11005C	FBT (FLY BACK TRANSFORMER), CF2127,EB770J(17"/70K) LIEN CHANGE 17"
8	6620TKB002A	SOCKET(CIRC),POWER, BAE EUN 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 1560MM GRAY(85964) T710BJ DM
10	6871TST376C	PWB(PCB) ASSEMBLY,SUB, 700BJ CONTROL TOTAL BRAND CA-131 - For World Wide(700S), (700E), Australia(700B)
	6871TST376F	PWB(PCB) ASSEMBLY,SUB, 700BJ CONTROL TOTAL BRAND LGEIL - For india(700S), india(700E)
	6871TST376E	PWB(PCB) ASSEMBLY,SUB 700BJ CONTROL TOTAL BRAND LGESP - For Brazil(700S), (700E)
	6871TST376G	PWB(PCB) ASSEMBLY,SUB, 700BJ CONTROL TOTAL BRAND SKYWAY(WA)
11	4950TKS169C	METAL, SHIELD BOTTOM "H"CHASSIS
	4950TKS169D	METAL, SHIELD BOTTOM "H"CHASSIS(C-CKD) - For Brazil(700S)
	4950TKS223A	METAL, SHIELD BOTTOM 0.8T "H"CHASSIS SKYWAY LOCAL
12	4930TKK031C	HOLDER, PCB FIX , PC+ABS
13	4810TKK171A	BRACKET, CB777F SUPPORTER CDT
14	4810TKK204A	BRACKET, CB777H HOLDER FBT
	4810TKK204C	BRACKET, H-CHASSIS HOLDER FBT, A-CKD
A	3313T17296C	MAIN TOTAL ASSEMBLY, 700BJ BRAND LGEDI CA-131 - For World Wide(700S)
	3313T17296L	MAIN TOTAL ASSEMBLY, 700BJ BRAND CA-131 - For Europe, Panama, Chile(700E)
	3313T17296K	MAIN TOTAL ASSEMBLY, 700BJ BRAND CA-131 - For Australia(700B)
	3313T17296M	MAIN TOTAL ASSEMBLY, 700BJ BRAND CA-131 - For Australia(700S)
	3313T17296E	MAIN TOTAL ASSEMBLY, 700BJ BRAND CA-131 NON-MPR(SP) - For Brazil(700E)
	3313T17296F	MAIN TOTAL ASSEMBLY, 700BJ BRAND CA-131 MPR(SP) - For Brazil(700S)
	3313T17296H	MAIN TOTAL ASSEMBLY, 700BJ BRAND CA-131 NON-MPR(IL) - For India(700E)
	3313T17296J	MAIN TOTAL ASSEMBLY, 700BJ BRAND CA-131 MPR(IL) - For India(700S)
B	3313T17296G	MAIN TOTAL ASSEMBLY, 700BJ BRAND CA-131 SKYWAY(WA)
	6871TMT405C	PWB(PCB) ASSEMBLY,MAIN, 700BJ KLRDMD BRAND CA-131 TOTAL - For World Wide(700S)
	6871TMT405L	PWB(PCB) ASSEMBLY,MAIN, 700BJ KLEUAD BRAND CA-131 TOTAL - For Europe, Panama, Chile(700E)
	6871TMT405K	PWB(PCB) ASSEMBLY,MAIN, 700BJ KLAUED BRAND CA-131 TOTAL - For Australia(700B)
	6871TMT405M	PWB(PCB) ASSEMBLY,MAIN, 700BJ KLAUMD BRAND CA-131 TOTAL - For Australia(700S)
	6871TMT405E	PWB(PCB) ASSEMBLY,MAIN, 700BJ KLBRAS BRAND CA-131 TOTAL - For Brazil(700E)
	6871TMT405F	PWB(PCB) ASSEMBLY,MAIN, 700BJ KLBRMS BRAND CA-131 TOTAL - For Brazil(700S)
	6871TMT405H	PWB(PCB) ASSEMBLY,MAIN, 700BJ KLINAL BRAND CA-131 TOTAL - For India(700E)
a	6871TMT405J	PWB(PCB) ASSEMBLY,MAIN, 700BJ KLINML BRAND CA-131 TOTAL - For India(700S)
	6871TMT405G	PWB(PCB) ASSEMBLY,MAIN, 700BJ BRAND CA-131 SKYWAY(WA)
b	332-112F	SCREW,DRAWING, D3.5 L10.0 MSWR/FZMY +SW3.5+RW3.5
c	4001TKK004E	SCREW ASSEMBLY, TAPTITE P TYPE D3.0 L10.0 MSWR/FZMY SW3+RW10
c	332-095B	SCREW,DRAWING, PZP+3*10(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

DATE: 2003. 5. 9.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
CAPACITORS				
			C201	0CN1040K949 0.1M 50V Z F TA52
			C301	0CQ1021N419 1000P 100V J POLY NI TP
			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
			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	0CE476CF638 47UF SHL,SD 16V M FM5 TP 5
			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
			C501	0CE106CF638 10UF SHL,SD 16V M FM5 TP 5
			C599	0CE225CK638 2.2UF SHL,SD 50V M FM5 TP 5
			C601	0CE477EH618 470UF KMG 25V M FL TP 5
			C602	181-288B MKT 100V 104JTR PHS26104
			C603	0CE476CK638 47UF SHL,SD 50V M FM5 TP 5
			C604	0CZZTFT001V ECQB1H473JM3 473J 50V TP5.0
			C605	0CK1020W515 1000P 500V K B TS

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
			C701	0CQ5621N419 5600P 100V J POLY NI TP
			C702	0CZZTFT001M ECQB1H103JF3 MATSUSHITA 50V
			C703	0CZZTFT001Z ECQB1H104JM3 104J 50V TP5.0
			C704	0CQ8221N519 0.0082U 100V K POLY NI TP
			C706	0CZZTFT001Z ECQB1H104JM3 104J 50V TP5.0
			C707	0CZZTFT002B ECQV1H154JZ3 154J 50V TP5.0
			C708	0CE227CH638 220UF SHL,SD 25V M FM5 TP 5
			C709	0CZZTFT001P ECQB1H153JM3 153J 50V TP5.0
			C711	0CQ5621N419 5600P 100V J POLY NI TP
			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
			C718	0CZZTFT001V ECQB1H473JM3 473J 50V TP5.0
			C719	0CZZTAB001F SHL-BP SYE / SWE 50V 3.3UF 2
			C720	0CK27101515 270P 1KV K B TS
			C722	181-303R 304J 31.0*21.0*13.0*20.0 250
			C723	181-305C 154J 19.0*14.0*8.0*10.0 250V
			C724	0CN1040K949 0.1M 50V Z F TA52
			C725	0CK8210W515 820P 500V K B TS
			C726	181-482F 274JF 18.0*17.0*10.0*7.5 250
			C727	0CN1040K949 0.1M 50V Z F TA52
			C728	0CQ5621N419 5600P 100V J POLY NI TP
			C729	181-305W 604J 26.0*19.0*12.5*15.0 250
			C730	0CN1040K949 0.1M 50V Z F TA52
			C731	0CBZTBU004H 5600PF D 2.5KV H M/PP NI FM2
			C732	181-288N MKT 100V 103JTR PHS86103
			C733	0CBZTBU003H 362J 20.0*12.0*7.0*10.0 800V
			C734	0CE226CK638 22UF SHL,SD 50V M FM5 TP 5
			C737	0CK10102515 100PF D 2KV 10% B(Y5P) TR
			C738	181-302L 682J 19.5*12.0*7.0*10.0 250V
			C739	0CE106CK638 10UF SHL,SD 50V M FM5 TP 5
			C740	0CE227EL630 220UF KMG 63V M FM5 BULK
			C741	0CZZTFT002B ECQV1H154JZ3 154J 50V TP5.0
			C742	0CE106CK638 10UF SHL,SD 50V M FM5 TP 5
			C743	0CZZTFT002B ECQV1H154JZ3 154J 50V TP5.0
			C744	0CZZTAB005A SMSHR SYE / SWE 160V 47UF 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	0CQ4721N419 0.0047U 100V J POLY NI TP5
			C753	0CK10301945 10000PF D 1KV Z F(Y5V) TR
			C754	0CC4700W405 47PF 500V J SL TP
			C756	0CK1010K515 100PF 50V K B TR
			C767	0CK10301945 10000PF D 1KV Z F(Y5V) TR
			C771	0CK10301945 10000PF D 1KV Z F(Y5V) TR
			C774	0CZZTFT001Z ECQB1H104JM3 104J 50V TP5.0
			C801	0CE105CK638 1UF SHL,SD 50V 20% FM5 TP 5

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C805	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
		C904	0CKZTBU003A	SC E 222M 10.0BW7 250V BK7.5
		C905	0CKZTBU003A	SC E 222M 10.0BW7 250V BK7.5
		C906	0CZZTCB003D	BULK 7.5 CS E 102M 8.0 250V
		C907	0CKZTBU003C	SC E 472M 14.0BW7 250V BK7.5
		C908	0CEZTBU002D	180UF 25.4*35 SMH/HC 400V M
		C909	0CK10301510	0.01M 1KV K B S
		C910	0CK10101515	100PF 1KV K B TR
		C911	0CE475CK638	4.7UF SHL,SD 50V M FM5 TP 5
		C912	0CK3310K515	330P 50V K B TS
		C913	0CE476CK638	47UF SHL,SD 50V M FM5 TP 5
		C914	0CZZTFT001P	ECQB1H153JM3 153J 50V TP5.0
		C915	0CK6810K515	680P 50V K B TS
		C917	0CK1020K515	1000PF 50V K B TR
		C918	0CK1040K945	0.1UF 50V Z F TR
		C920	0CKZTBU003A	SC E 222M 10.0BW7 250V BK7.5
		C921	0CKZTBU003A	SC E 222M 10.0BW7 250V BK7.5
		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
		C944	0CKZTBU003C	SC E 472M 14.0BW7 250V BK7.5
		C946	0CK2710W515	270P 500V K B TS
		C951	0CE108CH630	1000UF SHL 25V M FM5 BULK
		C952	0CE227CH638	220UF 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	0DL305029BA	LTL-305DJ-0C2 TP LITEON GREE
		D301	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D302	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D303	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D304	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D305	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D306	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D307	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D308	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D309	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		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 60
		D402	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D404	971-0054	TIN 50MM TAPING
		D512	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D702	0DS124409AA	1SS244 TP ROHM KOREA
		D704	0DR150051AA	DMV1500MF5 ST SGS-THOMSON T
		D705	0DRTW00089A	SRT14(1021) TIWAN SEMI TP NO
		D706	0DR150001AD	DTV1500LFP SGS-THOMSON ST TO
		D709	971-0054	TIN 50MM TAPING
		D710	0DR400409AC	UF4004 GULF TP DO41 400V 1A
		D711	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		D712	0DR100009CD	RGP10G-1021 TIWAN SEMI TP DO
		D713	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D714	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D715	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D716	0DR140059DA	1N4005TB52 TP LITEON DO41 60
		D717	0DR140059DA	1N4005TB52 TP LITEON DO41 60
		D718	0DR140059DA	1N4005TB52 TP LITEON DO41 60
		D719	0DR100009DA	RGP10J TP GULF SEMICONDUCTOR
		D720	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D721	0DR100009CD	RGP10G-1021 TIWAN SEMI TP DO
		D722	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D723	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D724	0DR140059DA	1N4005TB52 TP LITEON DO41 60
		D730	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D731	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D768	0DR100009DA	RGP10J TP GULF SEMICONDUCTOR
		D801	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D802	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D900	0DRTW00071A	TS4B05G-1021 TIWAN SEMI ST N
		D902	971-0054	TIN 50MM TAPING
		D904	0DR100009CD	RGP10G-1021 TIWAN SEMI TP DO
		D905	0DD400709CB	UF4007 TP G.I DO204AL 1000V
		D906	0DR100009CD	RGP10G-1021 TIWAN SEMI TP DO
		D908	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D910	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D911	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D941	0DR100009LA	UG1D TP G.I DO204AL 200V 1A
		D942	0DR400409AC	UF4004 GULF TP DO41 400V 1A
		D951	0DRTW00044B	UG2DL-1021 TIWAN SEMI BK DO1
		D952	0DSGF00019A	1N4148 GULF TP DO35 100V 0.1
		D961	0DRGF00050A	31GF6 GULF BK DO201AD 600V 3
		D971	0DD400709CB	UF4007 TP G.I DO204AL 1000V
		ZD402	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500
		ZD403	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500
		ZD404	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500
		ZD405	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500
		ZD407	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500
		ZD410	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500
		ZD701	0DZ120009BF	GDZJ12B TP GRANDE DO34 0.5W
		ZD902	0DZ510009BE	GDZ5.1B TP GRANDE DO34 500MW
ICs				
		IC302	0IPRPNS025A	LM1246DDA/NA NATIONAL SEMICO
		IC303	0IPRPNS026A	LM2445TA NATIONAL SEMICONDUCT
		IC304	0IPRPNS005A	LM2480NA NATIONAL SEMICONDUCT
		IC401	0IZZTSZ254A	SS 42PIN ST 6KEY F700BJ
		IC402	0ISG240860A	M24C08-BN6 8DIP BK 8K SERIAL
		IC601	0IPRPPH018A	TDA4867J PHILIPS 9PIN,ST DIP
		IC701	0IPRPPH005A	TDA4841PS PHILIPS 32P,SDIP S
		IC901	0ISS384200A	KA3842B (PWM)
COILs & COREs				
		FB201	6210TCE003J	BAS2550T BO SUNG 2550MM AXIA
		FB301	6210TCZ001J	BAS3550T(125-022J) BO SUNG
		FB302	6210TCE003L	BAS3580T BO SUNG 3580MM AXIA
		FB303	6210TCZ001J	BAS3550T(125-022J) BO SUNG
		FB304	6210TCZ001J	BAS3550T(125-022J) BO SUNG
		FB305	6210TCE003P	BRS2550B BO SUNG 2550MM RADI
		FB306	6210TCE003L	BAS3580T BO SUNG 3580MM AXIA
		FB307	6210TCE003B	BRS3580B BO SUNG 3580MM RADI

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		FB308	6210TCE003J	BAS2550T BO SUNG 2550MM AXIA
		FB309	6210TCE003J	BAS2550T BO SUNG 2550MM AXIA
		FB310	6210TCE003A	BRD3510B BO SUNG 3510MM RADI
		FB313	6210TCE003J	BAS2550T BO SUNG 2550MM AXIA
		FB402	971-0054	TIN 50MM TAPING
		FB403	971-0054	TIN 50MM TAPING
		FB701	6210TCE003L	BAS3580T BO SUNG 3580MM AXIA
		FB703	6210TCE003B	BRS3580B BO SUNG 3580MM RADI
		FB705	971-0054	TIN 50MM TAPING
		FB903	6210TCE003P	BRS2550B BO SUNG 2550MM RADI
		FB904	971-0054	TIN 50MM TAPING
		FB905	6210TCE003P	BRS2550B BO SUNG 2550MM RADI
		FB906	6210TCE003P	BRS2550B BO SUNG 2550MM RADI
		FB921	6210TCE003A	BRD3510B BO SUNG 3510MM RADI
		FB922	6210TCE003L	BAS3580T BO SUNG 3580MM AXIA
		FB952	6210TCE003G	BRS3550B BO SUNG 3550MM RADI
		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-C6.0,150U
		L703	6140TYZ010G	LX31 GET DR14*15-C5.2,16.5T,
		L705	6140TBZ026C	DR15*18-C9.8 100UH 0.1*30MM
		L901	6200TZZ004A	SQE2626 NAMYANG BK L/FILTER
		L903	6210TCE003G	BRS3550B BO SUNG 3550MM RADI
TRANSISTOR				
		Q501	0TR320209AA	KTC3202-Y(KTC1959) TP KEC TO
		Q502	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC T
		Q503	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO
		Q705	0TR200009AB	KTC200-Y TP KEC TO92 NPN
		Q706	0TRFC10008A	FJAF5804(TU) FAIRCHILD ST TO
		Q707	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC T
		Q708	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC T
		Q709	0TR141300AB	KTD1413 BK KEC TO220I S NPN
		Q710	0TRKE90020A	MPSA44 KEC TP TO92 500V 300M
		Q711	0TF630000AC	IRF630M BK SGS-THOMSON 200V
		Q712	0TF630000AC	IRF630M BK SGS-THOMSON 200V
		Q713	0TF630000AC	IRF630M BK SGS-THOMSON 200V
		Q714	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO
		Q715	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO
		Q716	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO
		Q719	0TF630000CA	IRFS630A BK SAMSUNG 200V 6.5
		Q720	0TR390409CA	FAIRCHILD 2N3904(TA) TP TO-9
		Q799	0TRKE90019A	MPSA92 KEC TP TO92 -300V -50
		Q901	0TF760000AD	SSS7N60B FAIRCHILD ST TO220F
		Q903	0TR100809AA	KSC1008C-Y TP SAMSUNG TO92
		Q941	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO
		Q942	0TR127309AA	KTA1273-Y(KTA966A) TP KEC TO
		Q951	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO
		Q952	0TR127309AA	KTA1273-Y(KTA966A) TP KEC TO
		Q953	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO
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% TA5
		R205	0RD1001Q609	1K 1/4W(3 5% TA52
		R206	0RD0912Q609	91 OHM 1/4 W (3.4) 5% TA52

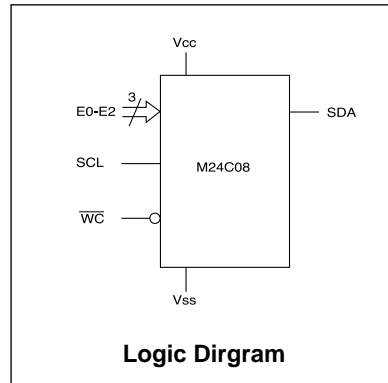
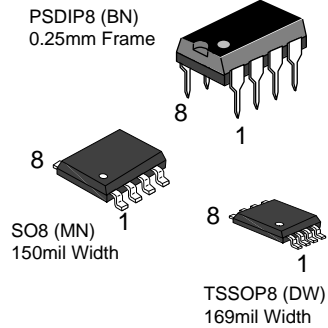
DATE: 2003. 5. 9.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R207	0RD4300Q609	430 OHM 1/4 W(3.4) 5.00% TA5
		R208	0RD2200Q609	220 1/4W(3 5% TA52
		R209	0RD9100Q609	910 1/4W(3 5% TA52
		R210	0RD2200Q609	220 1/4W(3 5% TA52
		R211	0RD2200Q609	220 1/4W(3 5% TA52
		R301	0RD0752Q609	75 1/4W(3 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	0RD0471Q609	4.70 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
		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	0RD2001Q609	2K 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
		R439	0CN1010K519	100P 50V K B TA52
		R446	0RD1002Q609	10K 1/4W(3 5% TA52

DATE: 2003. 5. 9.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R447	ORD1001Q609	1K 1/4W(3 5% TA52
		R501	ORD0102A609	10 OHM 1/2 W (7.0) 5% TA52
		R508	ORD4702Q609	47K 1/4W(3 5% TA52
		R515	ORD1502Q609	15K 1/4W(3 5% TA52
		R597	ORD3902Q609	39K 1/4W(3 5% TA52
		R598	ORD5601Q609	5.60K 1/4W(3 5% TA52
		R599	ORD0202A609	20 OHM 1/2 W (7.0) 5% TA52
		R601	ORD1000Q609	100 1/4W(3 5% TA52
		R602	ORD1000Q609	100 1/4W(3 5% TA52
		R603	ORN0390H609	0.39 1/2W 5 TA52
		R604	ORD0101A609	1 OHM 1/2 W (7.0) 5% TA52
		R605	ORD1500A609	150 OHM 1/2 W (7.0) 5% TA52
		R606	ORD1000A609	100 OHM 1/2 W (7.0) 5% TA52
		R607	ORN4301F409	4.30K 1/6W 1% TA52
		R608	ORD5600A609	560 OHM 1/2 W (7.0) 5% TA52
		R700	971-0054	TIN 50MM TAPING
		R701	ORN3301F409	3.30K 1/6W 1% TA52
		R702	ORN6800F409	680 1/6W 1% TA52
		R703	ORD1001Q609	1K 1/4W(3 5% TA52
△		R704	ORD3601Q509	3.6K OHM 1/4 W(3.4) 2% TA52
		R706	ORN2701F409	2.7K OHM 1/6 W 1.00% TA52
		R709	ORD2202Q609	22K 1/4W(3 5% TA52
		R710	ORD1000Q609	100 1/4W(3 5% TA52
		R711	ORD1000Q609	100 1/4W(3 5% TA52
		R712	ORD1500A609	150 OHM 1/2 W (7.0) 5% TA52
		R713	ORD1000Q609	100 1/4W(3 5% TA52
		R714	ORD5601Q609	5.60K 1/4W(3 5% TA52
△		R714-1	ORN3001F409	3K 1/6W 1% TA52
△		R714-2	ORN6200F409	620 1/6W 1% TA52
		R715	ORD6202Q609	62K OHM 1/4 W (3.4) 5% TA52
		R717	ORD6202Q609	62K OHM 1/4 W (3.4) 5% TA52
		R718	ORD1602Q609	16K 1/4W(3 5% TA52
		R719	971-0054	TIN 50MM TAPING
		R721	ORD1001Q609	1K 1/4W(3 5% TA52
		R722	ORD6202Q609	62K OHM 1/4 W (3.4) 5% TA52
		R723	ORD1001Q609	1K 1/4W(3 5% TA52
		R724	ORD1001Q609	1K 1/4W(3 5% TA52
△		R725	ORN1501F409	1.5K 1/6W 1 TA52
		R726	ORD5102A609	51K OHM 1/2 W (7.0) 5% TA52
		R727	ORX0512K665	51 OHM 2 W 5% SF
		R728	ORD1001Q609	1K 1/4W(3 5% TA52
		R729	ORD1002Q609	10K 1/4W(3 5% TA52
		R731	ORD1002Q609	10K 1/4W(3 5% TA52
		R732	ORD1003Q609	100K 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	ORD2402Q609	24K 1/4W(3 5% TA52
△		R743	ORD2702Q509	27K OHM 1/4 W(3.4) 2% TA52
		R744	ORD2700A609	270 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

DATE: 2003. 5. 9.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		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
		R757	971-0054	TIN 50MM TAPING
		R758	ORN1303F409	130K 1/6W 1% TA52
		R759	ORD1302Q509	13K OHM 1/4 W (3.4) 2% TA52
		R760	ORD5103Q609	510K 1/4W(3 5% 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
		R764	971-0054	TIN 50MM TAPING
		R765	ORD3000A609	300 OHM 1/2 W (7.0) 5% TA52
		R766	ORD1501Q609	1.50K 1/4W(3 5% TA52
		R768	ORD5103A609	510K OHM 1/2 W (7.0) 5% TA52
		R769	ORN1001F409	1K 1/6W 1% TA52
		R770	971-0054	TIN 50MM TAPING
		R771	ORD1501Q609	1.50K 1/4W(3 5% TA52
		R772	ORD1802Q509	18K 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% TA
		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
		R808	971-0054	TIN 50MM TAPING
		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
		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
		R908	971-0054	TIN 50MM TAPING
		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
		R925	ORB0180K607	0.18OHM 2 W 5% TA62
		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

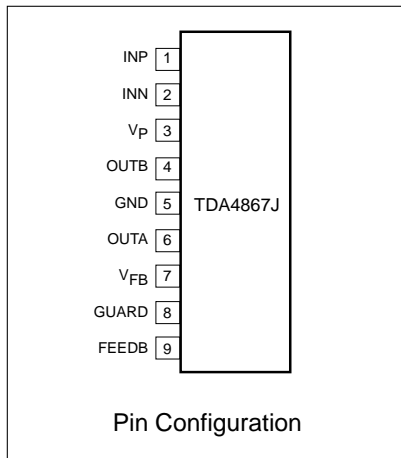
PIN CONFIGURATION

M24C08 Serial I²C BUS EEPROM

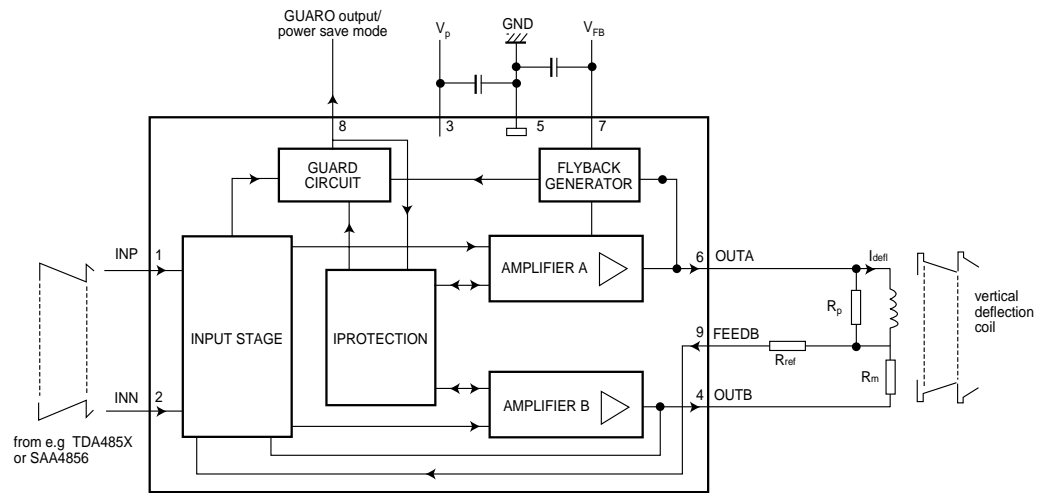


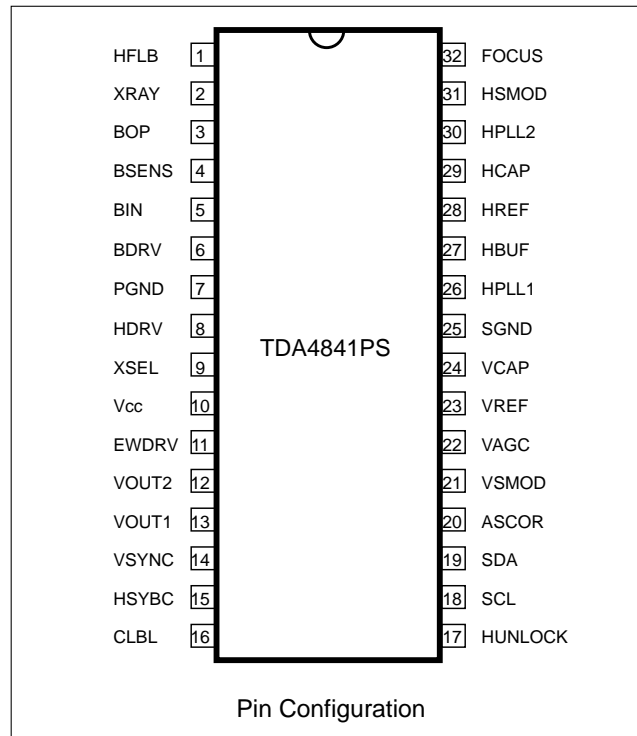
SYMBOL	DESCRIPTION
E0-E2	Chip Enable Input
SDA	Serial Data Address Input/Output
SCL	Serial Clock
WC	Write Control
Vcc	Supply Voltage
Vss	Ground

TDA4867J PHILIPS 32P, SDIP

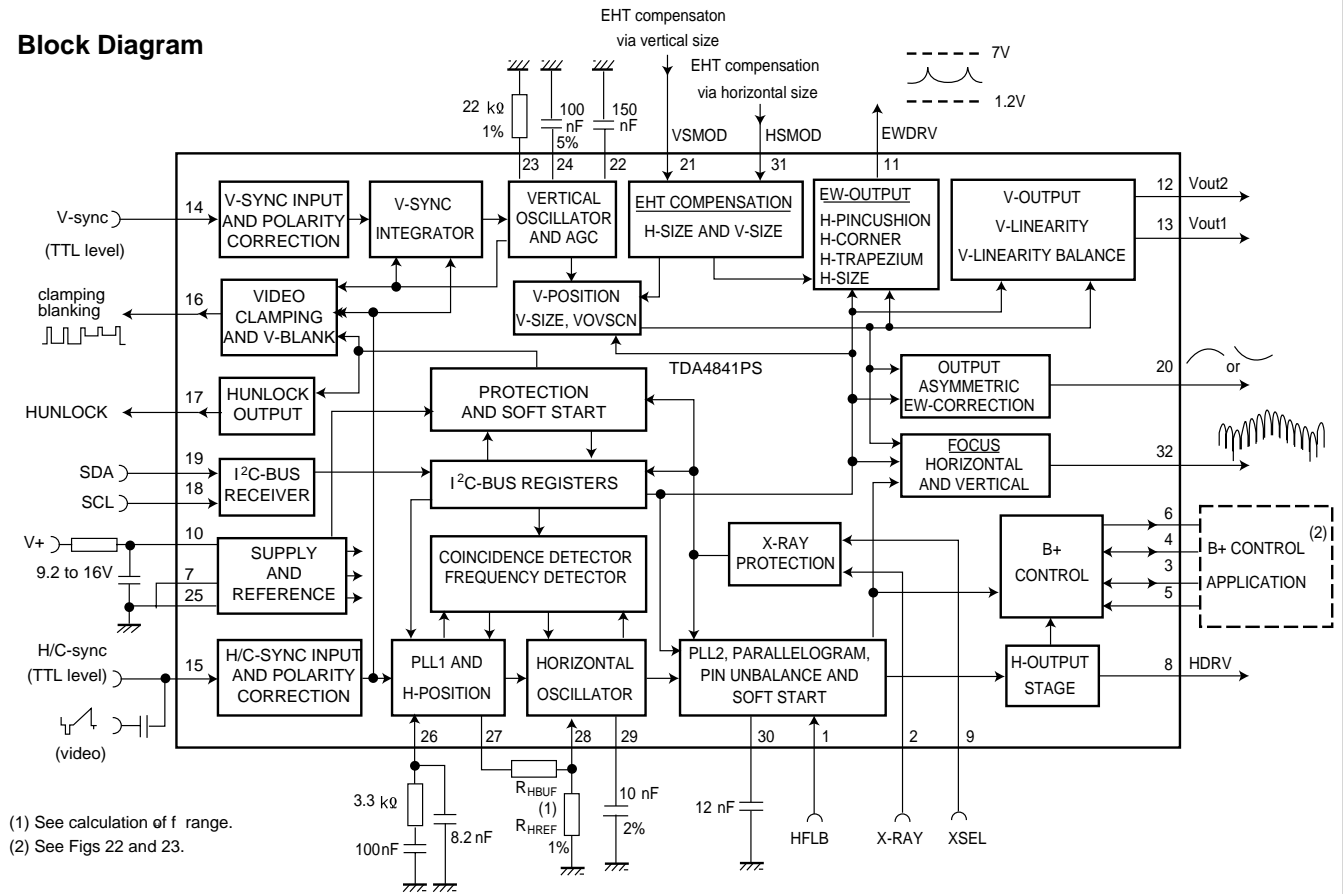


SYMBOL	PIN	DESCRIPTION
INP	1	non-inverted input
INN	2	inverted input
VP	3	supply voltage
OUTB	4	output B
GND	5	ground
OUTA	6	output A
VFB	7	flyback supply voltage
GUARD	8	guard output
FEEDB	9	feedback inprtr



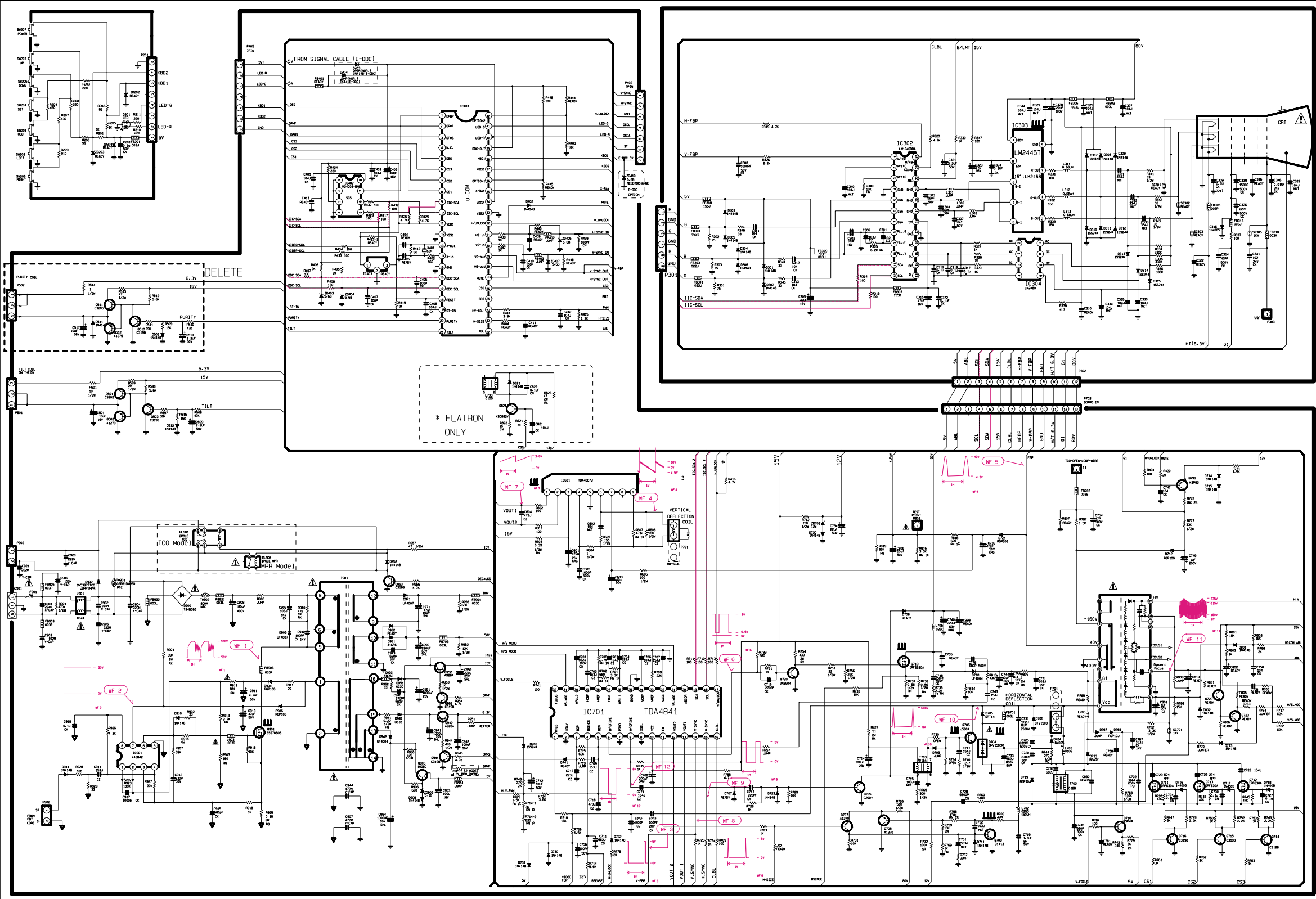


Block Diagram



SCHEMATIC DIAGRAM

DDC-SDA IIC-SDA
DDC-SCL IIC-SCL



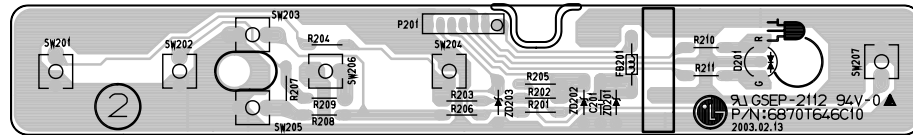
WAVE FORM CONDITION 1: 110V
2: 60KHz / 75Hz

THE SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFACTURES SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SYMBOL MARK OF THE SCHEMATIC.

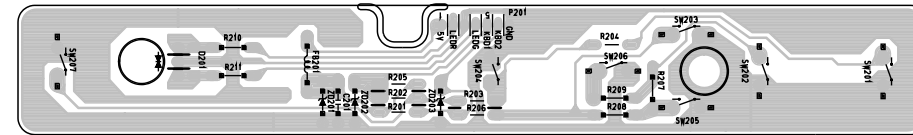
COMPANY CONFIDENTIAL DO NOT COPY!			
DATE	2003.05.07	REV	01
MODEL	700BJ	Sheet	1
		Page	1

PRINTED CIRCUIT BOARD

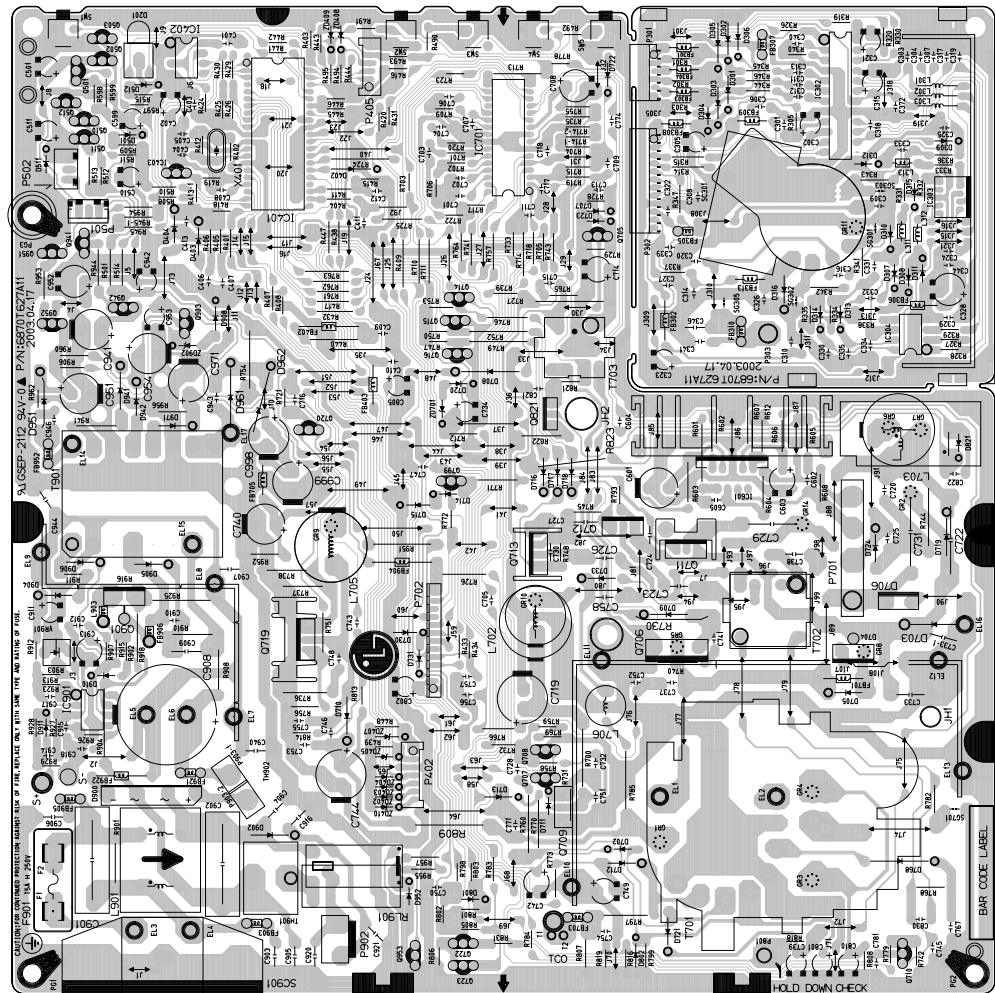
1. CONTROL BOARD (Component Side)



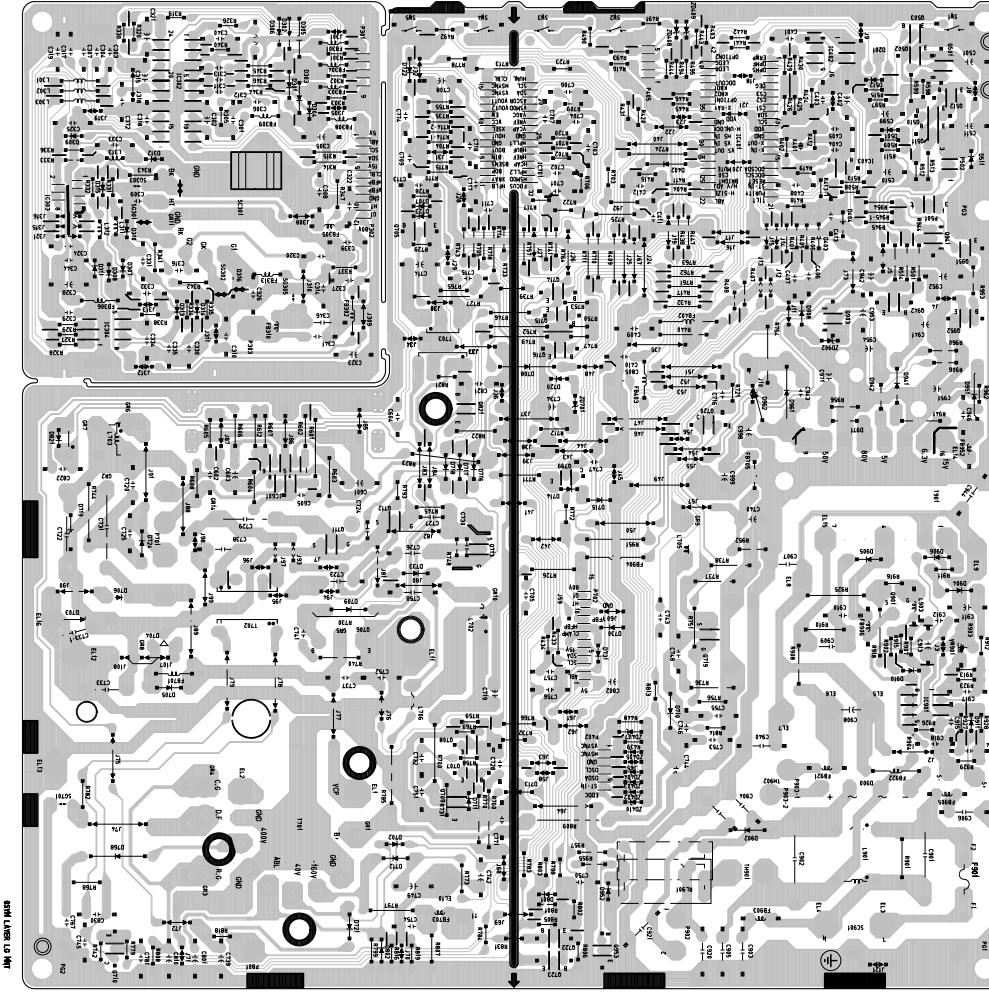
2. CONTROL BOARD (Solder Side)



3. MAIN BOARD (Component Side)



4. MAIN BOARD (Solder Side)





P/NO : 3828TSL091Q

May. 2003
Printed in Korea