

LG

COLOR MONITOR SERVICE MANUAL

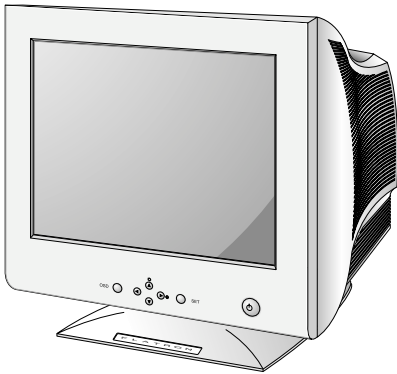
CHASSIS NO. : CA-113

FACTORY MODEL: FB775G

MODEL: **FLATRON** 775FT (FB775G-EA)

CAUTION

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



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SPECIFICATIONS

1. PICTURE TUBE

Size	: 17 inch
Deflection Angle	: 90°
Neck Diameter	: 29.1 mm
Stripe Pitch	: 0.24 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 ~ 70 kHz
Vertical	: 50 ~ 160 Hz

3. POWER SUPPLY

3-1. Power Range

AC 110~220V (Free Voltage), 60Hz, 2.0A Max.

3-2. Power Consumption

MODE	POWER CONSUMPTION	LED COLOR
MAX	95 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 - 325.4 x 244.1 mm (12.81" x 9.61")
- Preset Image Size - 310 x 230 mm (12.20" x 9.06")

4-2. Display Color : Full Colors

4-3. Display Resolution : 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	: 415.0 mm (16.34 inch)
Depth	: 439.0 mm (17.28 inch)
Height	: 435.0 mm (17.13 inch)

7. WEIGHT (with TILT/SWIVEL)

Net Weight	: 17.8 kg (39.24 lbs.)
Gross Weight	: 21.0 kg (46.30 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.

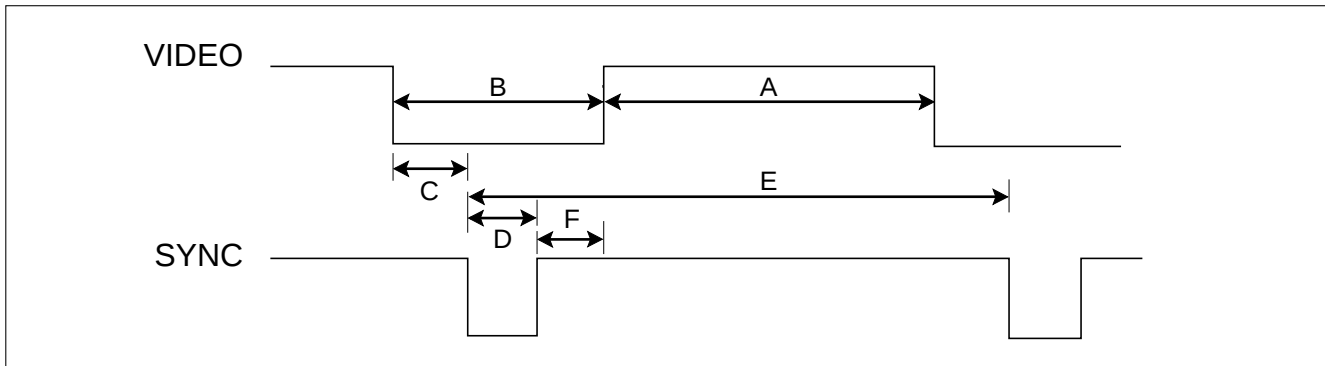
Note : It is important to use an accurate high voltage meter calibrated periodically.

- 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



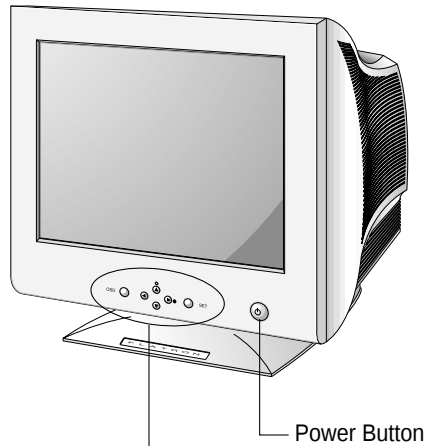
<< Dot Clock (**MHz**), Horizontal Frequency (**kHz**), Vertical Frequency (**Hz**), Horizontal etc... (**μs**), Vertical etc... (**ms**) >>

Mode	H/V Sort	Sync Polarity	Frequency	Total Period (E)	Video Active Time (A)	Blanking Time (B)	Sync Duration (D)	Back Porch (F)	Front Porch (C)	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	

* Mode 1~Mode 4: Basic Mode

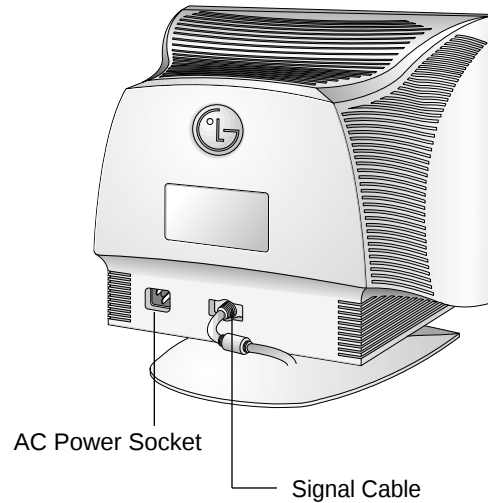
OPERATING INSTRUCTIONS

FRONT VIEW



See Front Control Panel

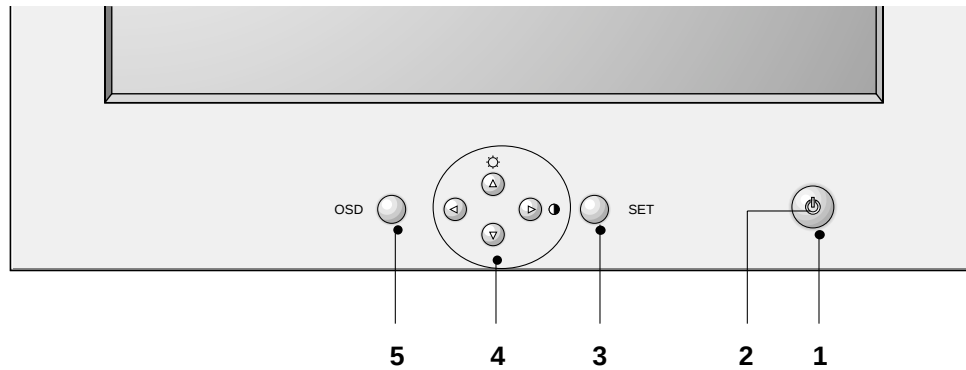
REAR VIEW



AC Power Socket

Signal Cable

Front Control Panel



1. Power ON/OFF Button

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

2. Power Indicator

This indicator lights up green when the monitor operates normally; 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. SET Button

This button to enter a selection in the on screen display.

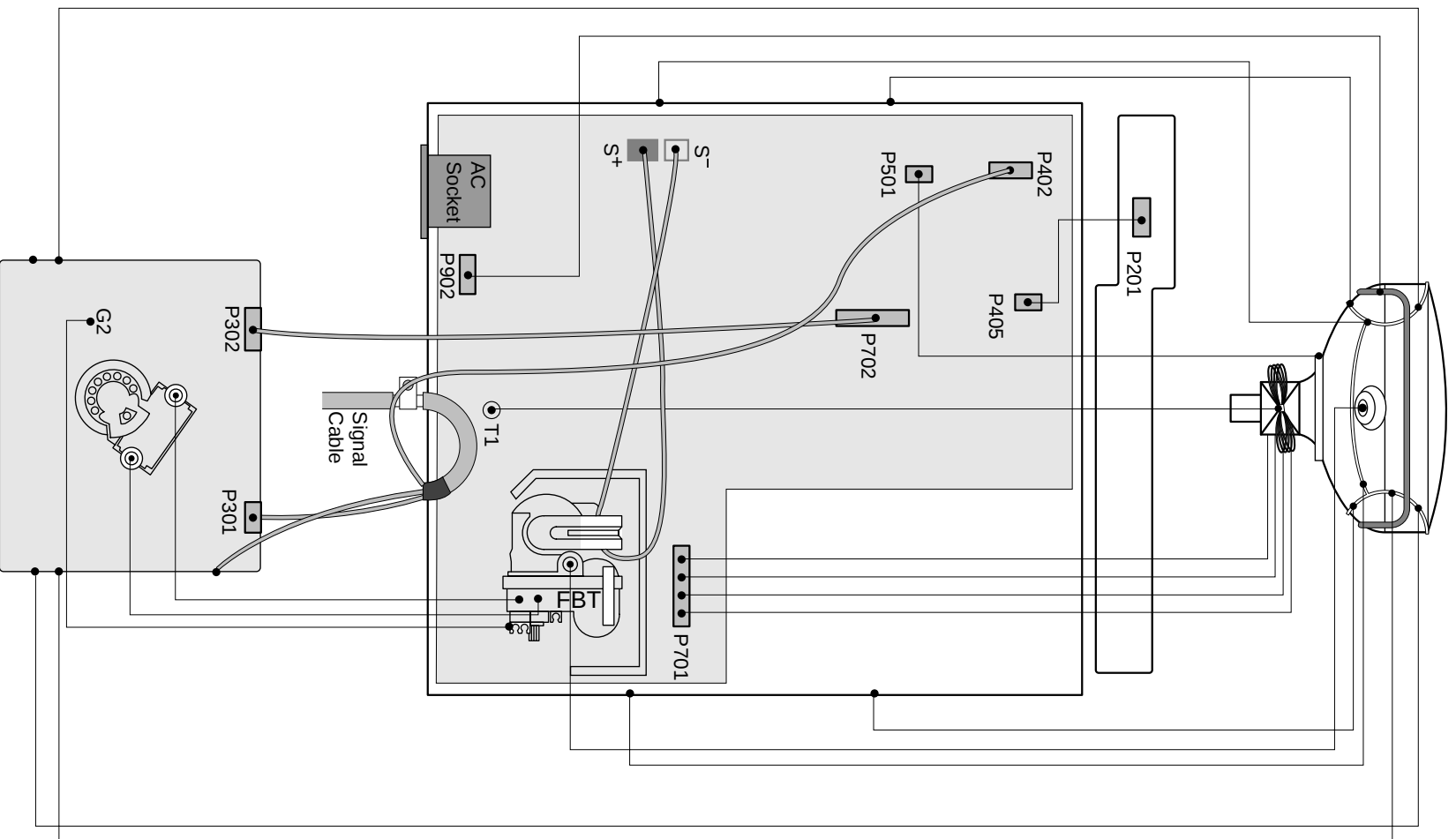
4. OSD Select/Adjustment

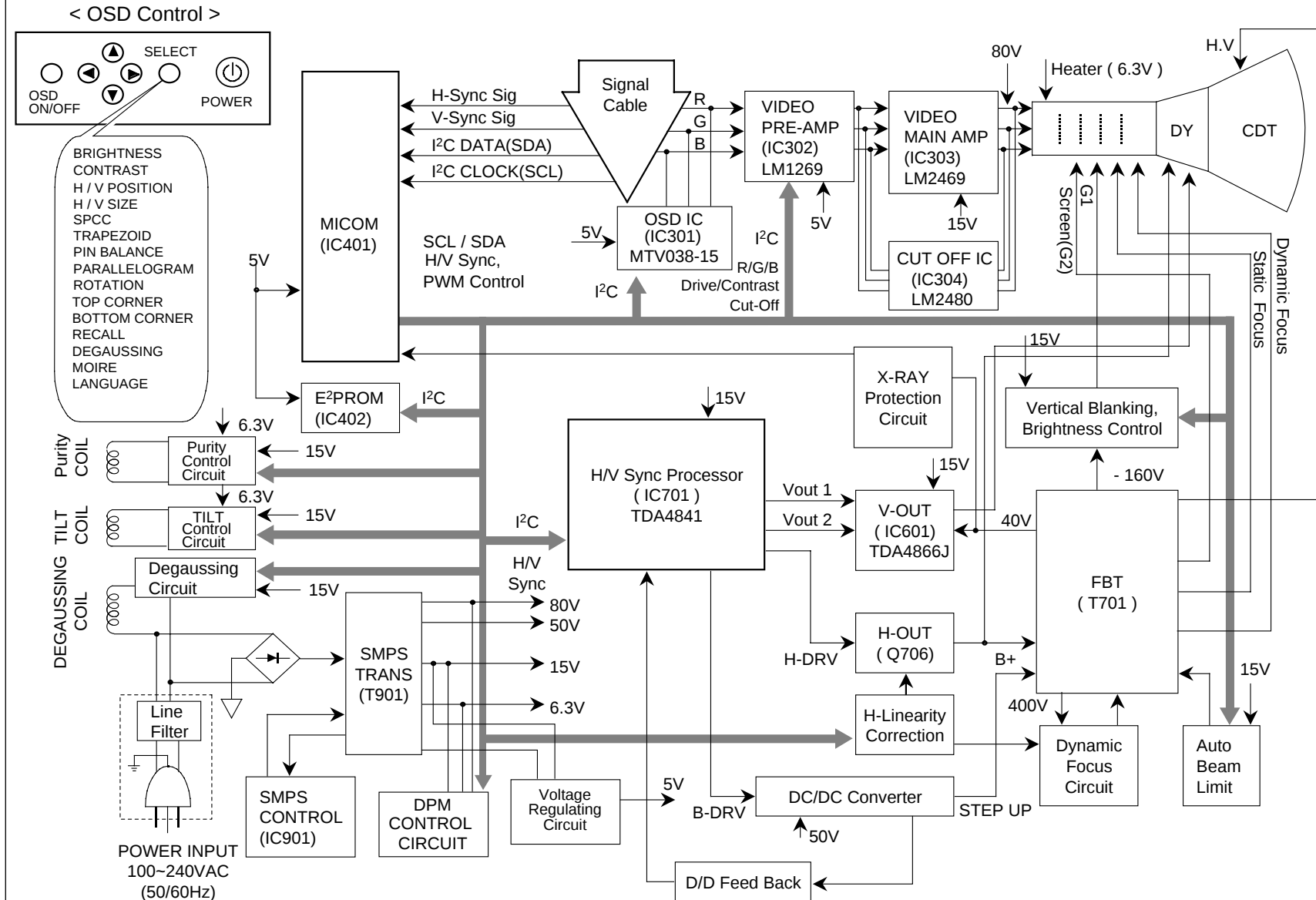
Use for selecting (highlighting) an OSD icon and adjusting level of the selected menu.

5. OSD Button

This button to enter or exit the on screen display.

WIRING 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, D962, 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 TDA4841(IC701) 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. 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.

2. Adjustment for Factory Mode (Preset Mode).

- 1) Display cross hatch pattern at Mode 1.
- 2) Run alignment program for FB775G 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.
- 19) Display from Mode 2 to 4 and repeat above from number 12) to 19)
- 20) PRESET EXIT → Y (Yes) command.

3. 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) and Sub-Brightness to 177(B1) 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 Max 127(7F) (decimal) position.
- 16) Set B-DRIVE to 100(64) 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) Display color 15,0 full white pattern at Mode 4.
 - 20) Set Brightness and Contrast to Max position.
 - 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.

4. Input EDID Data.

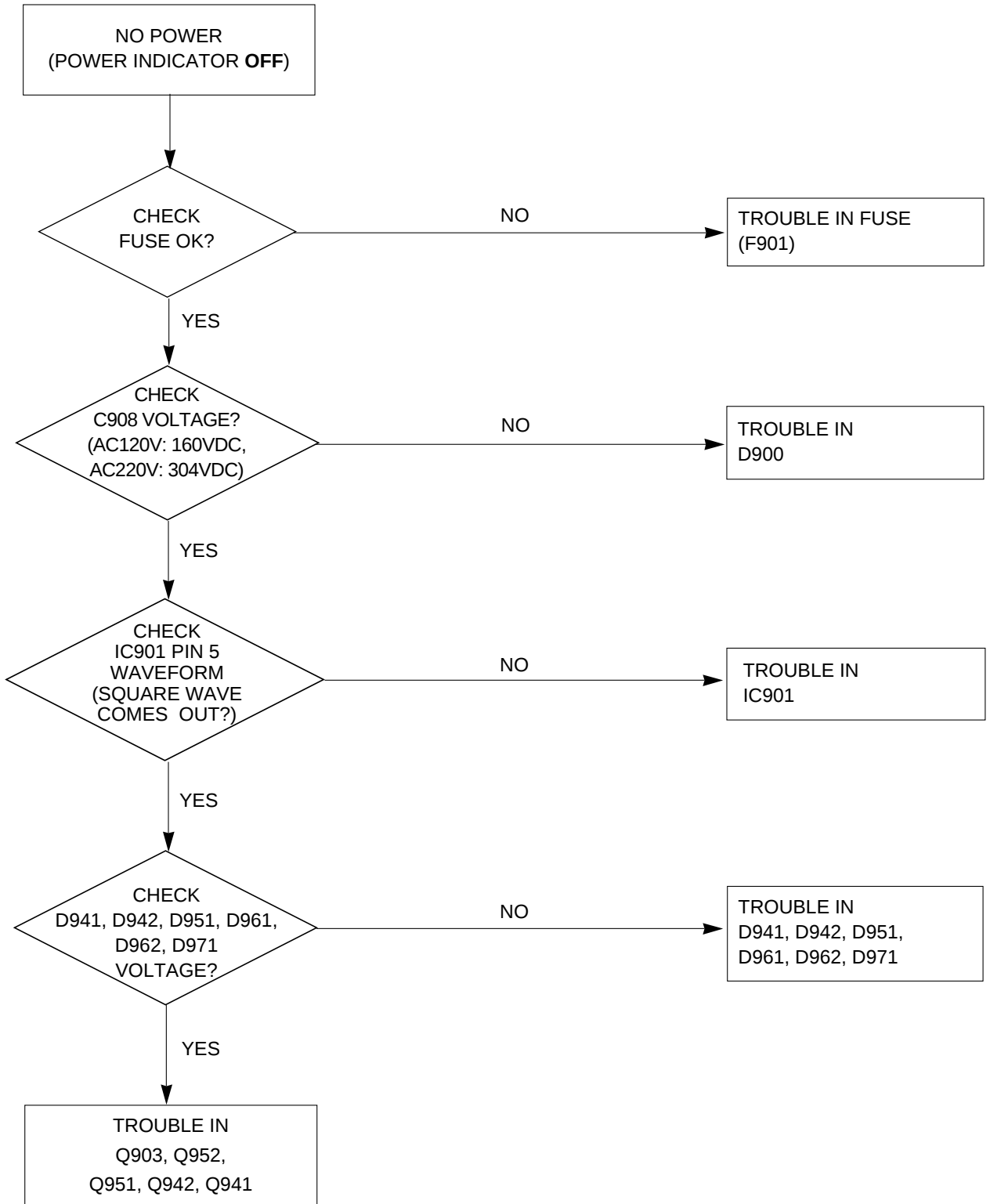
- 1) Display color 15,0 cross hatch pattern at Mode 4.
- 2) EEPROM → Write EDID command and confirm "EDID Write OK!!" message of monitor.
- 3) Exit from the alignment program.
- 4) Power switch OFF/ON for EDID data save.

5. Adjustment for Focus.

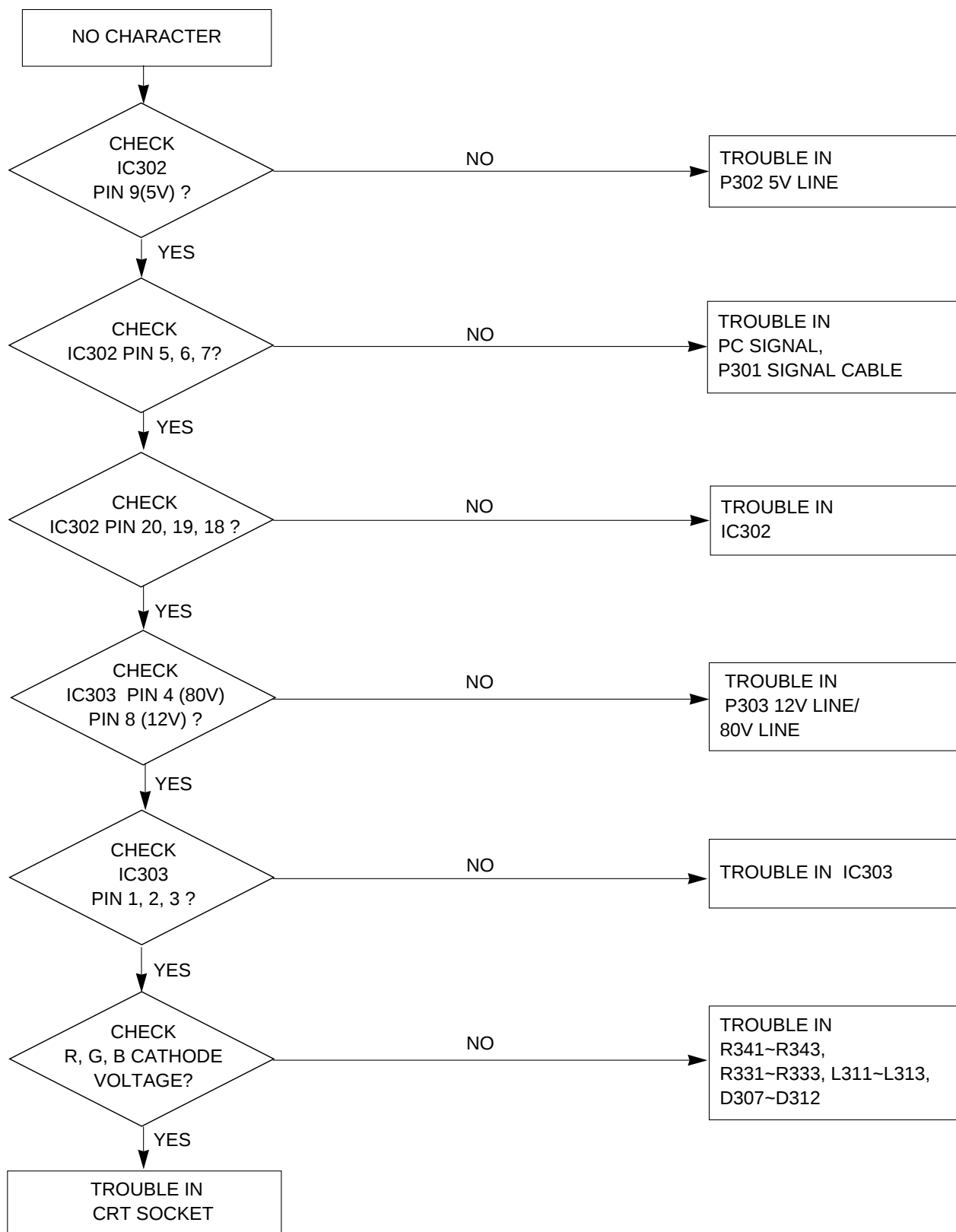
- 1) Set the Brightness and Contrast to max position.
- 2) Display H character in full screen at Mode 4.
- 3) Adjust two Focus control on the FBT that focus should be the best condition.

TROUBLESHOOTING GUIDE

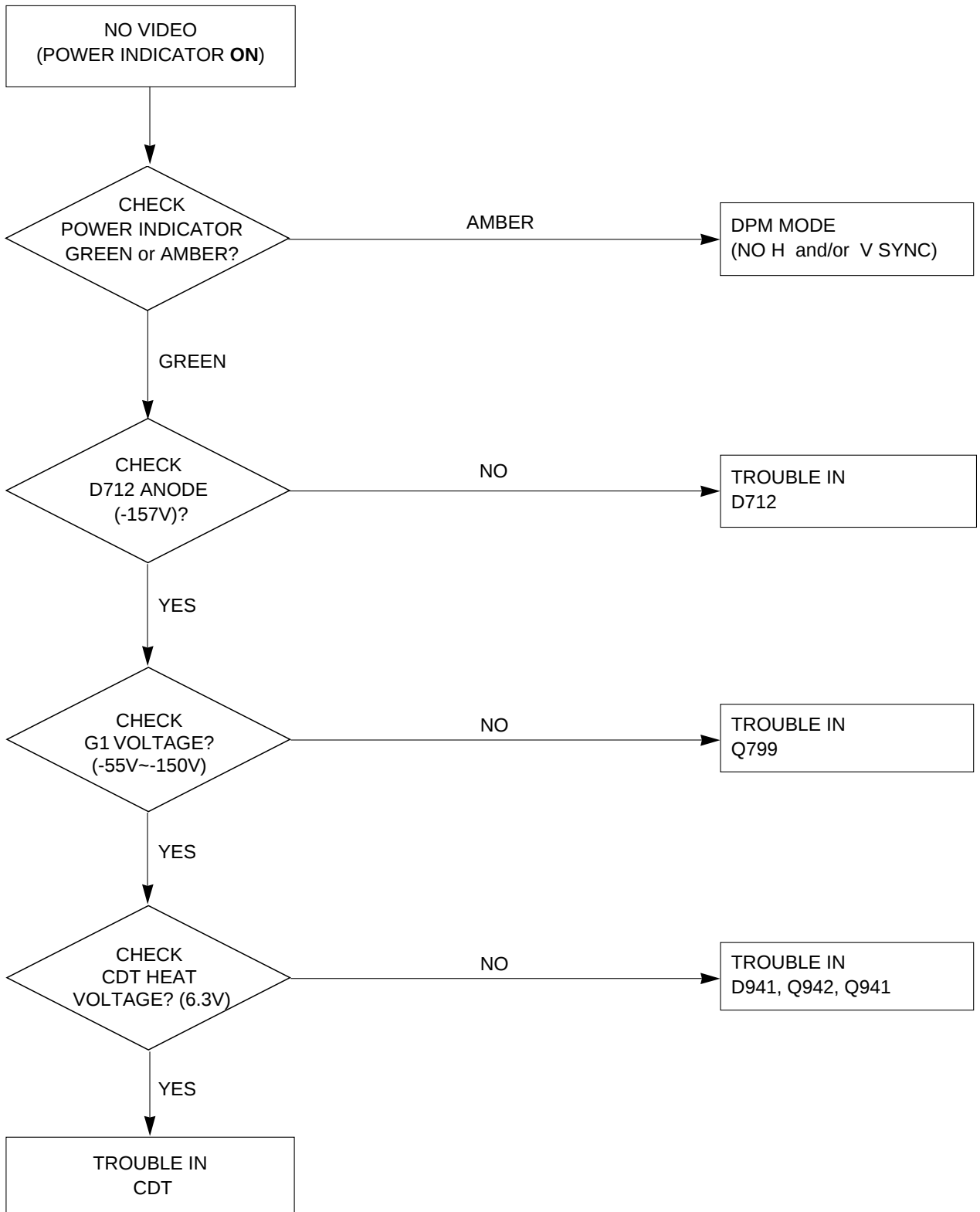
1. NO POWER



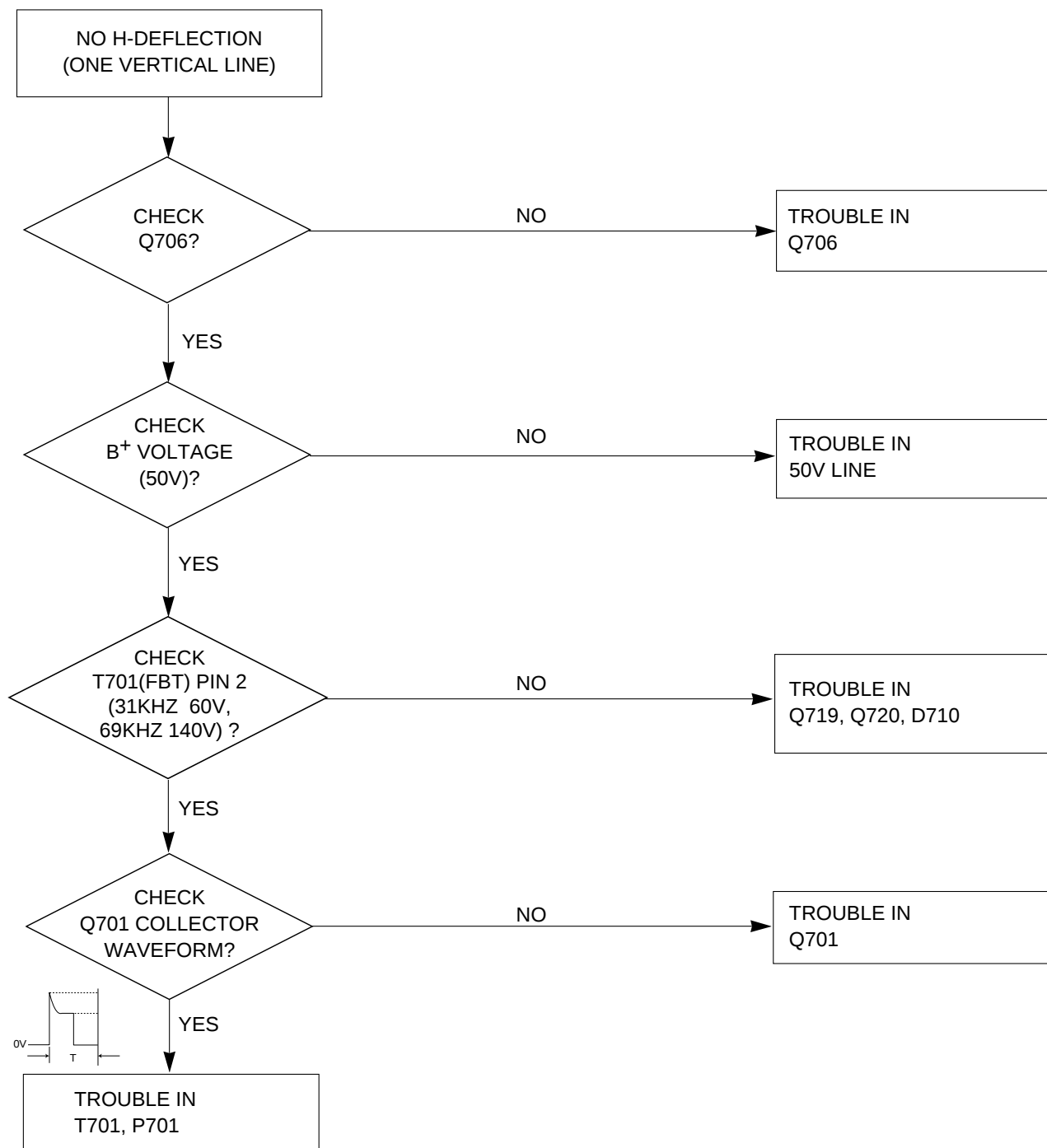
2. NO CHARACTER



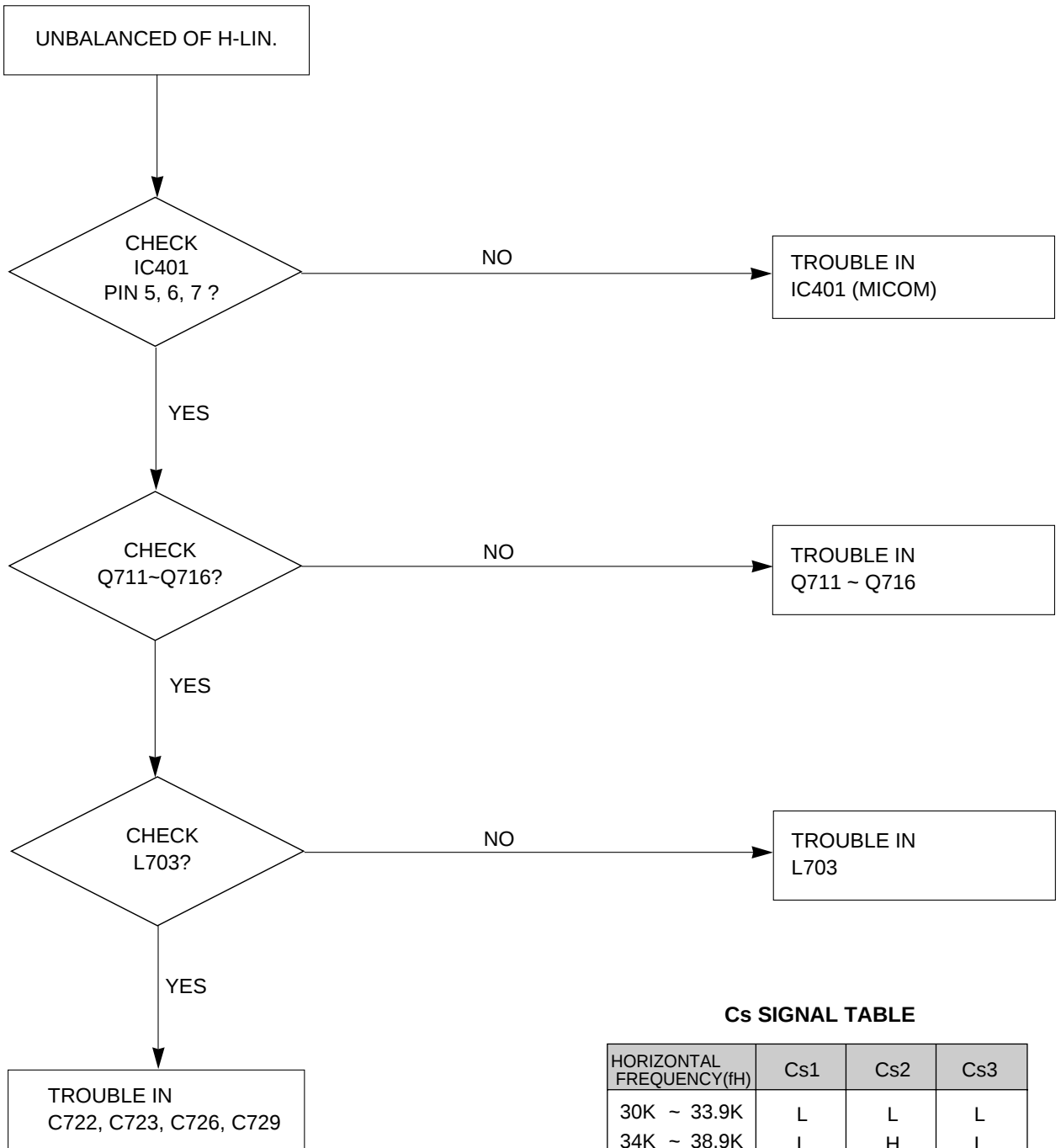
3. NO RASTER



4. NO HORIZONTAL DEFLECTION



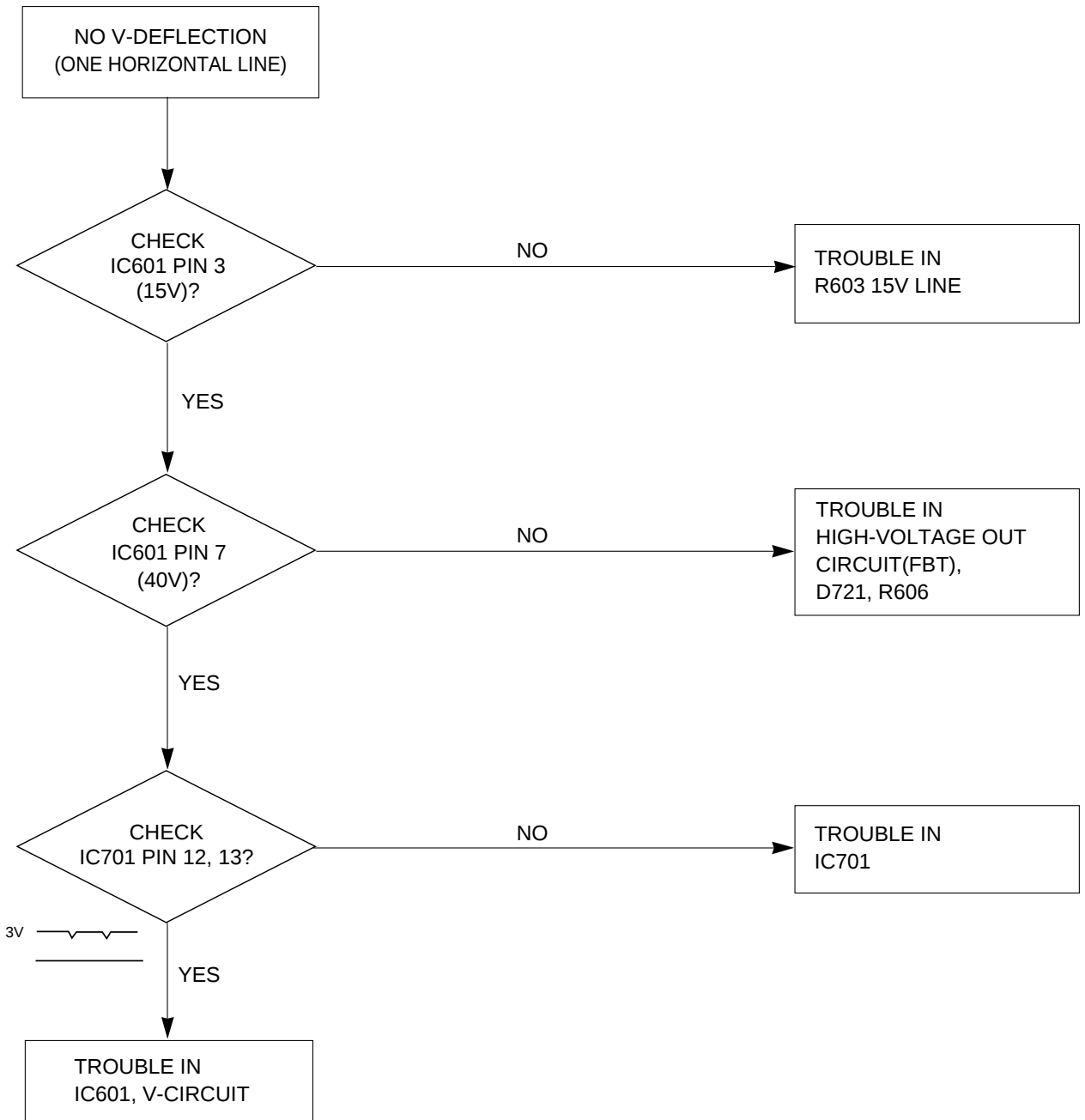
5. TROUBLE IN H-LINEARITY



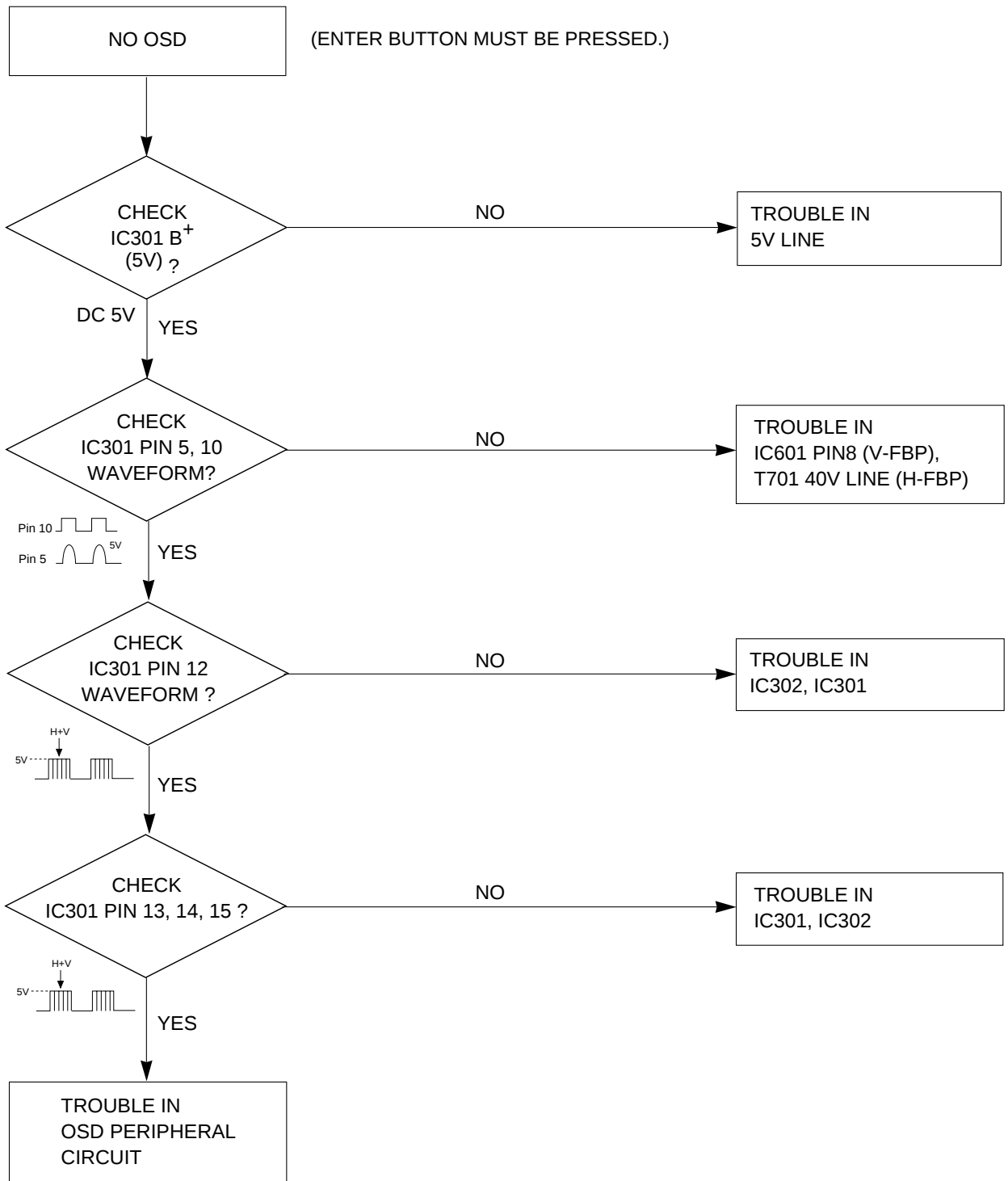
Cs SIGNAL TABLE

HORIZONTAL FREQUENCY(fH)	Cs1	Cs2	Cs3
30K ~ 33.9K	L	L	L
34K ~ 38.9K	L	H	L
39K ~ 44.9K	H	H	L
45K ~ 48.9K	L	L	H
49K ~ 57.9K	H	L	H
58K ~ 65.9K	L	H	H
66K ~ 70K	H	H	H

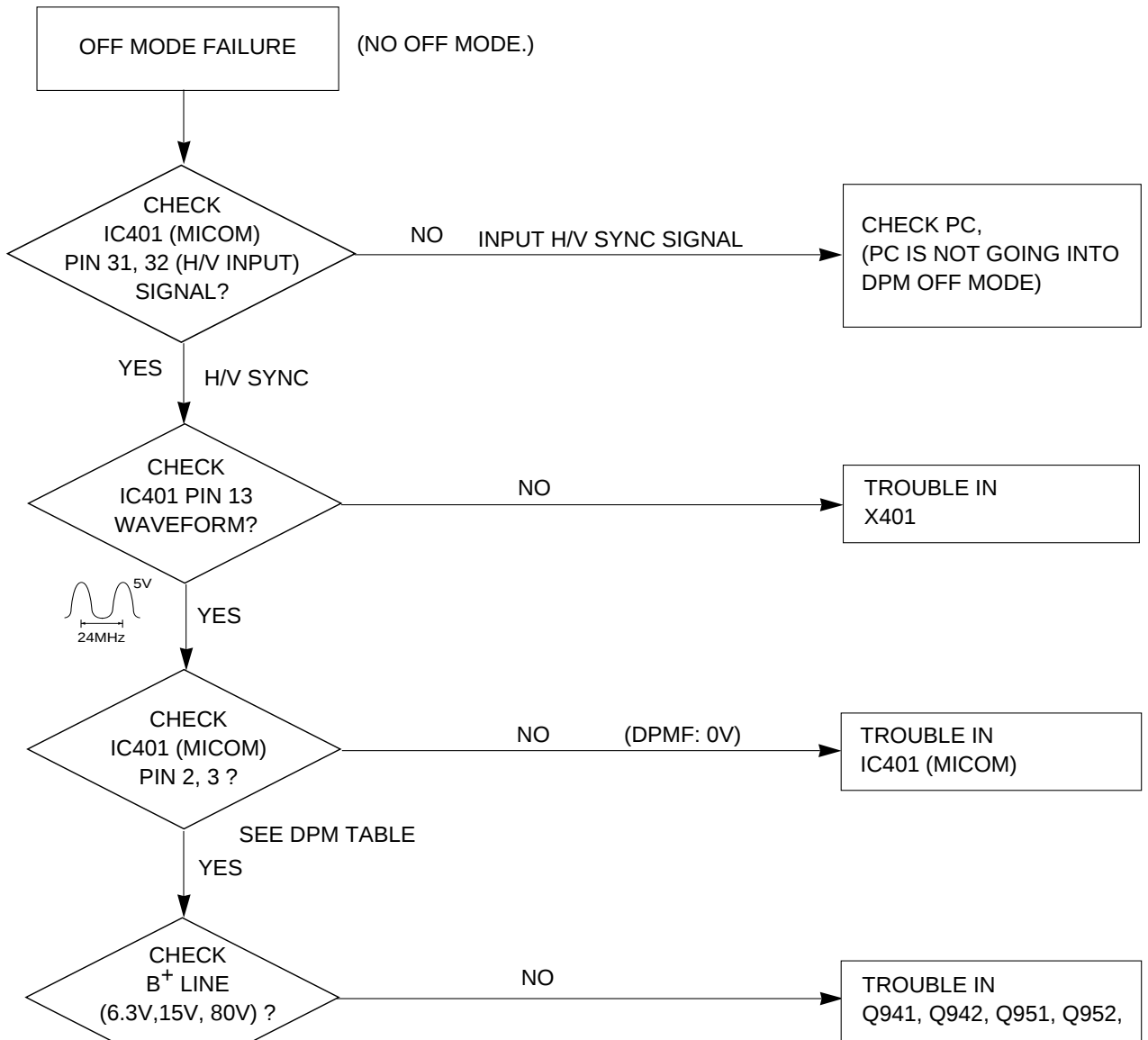
6. NO VERTICAL DEFLECTION



7. TROUBLE IN OSD



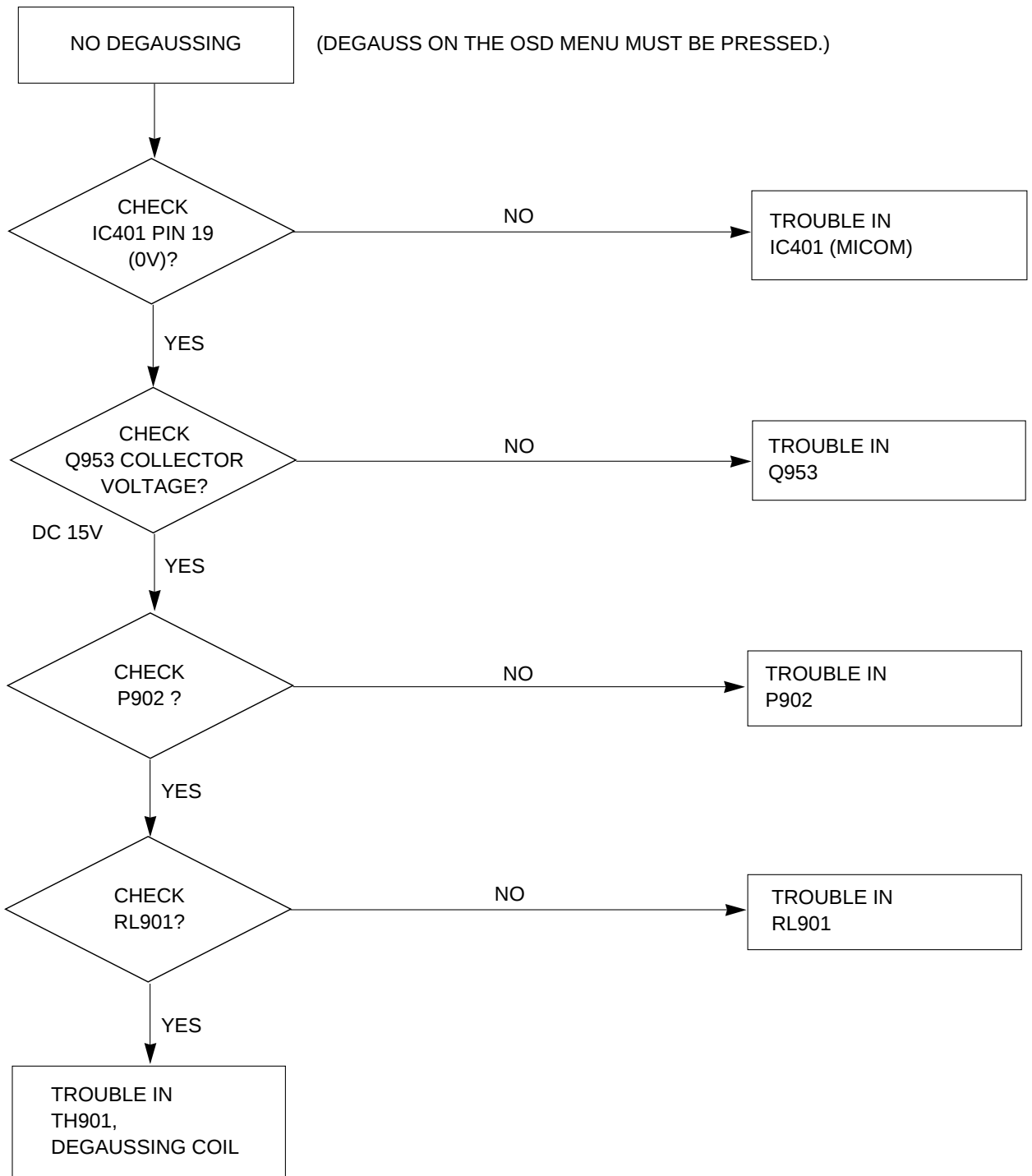
8. TROUBLE IN DPM



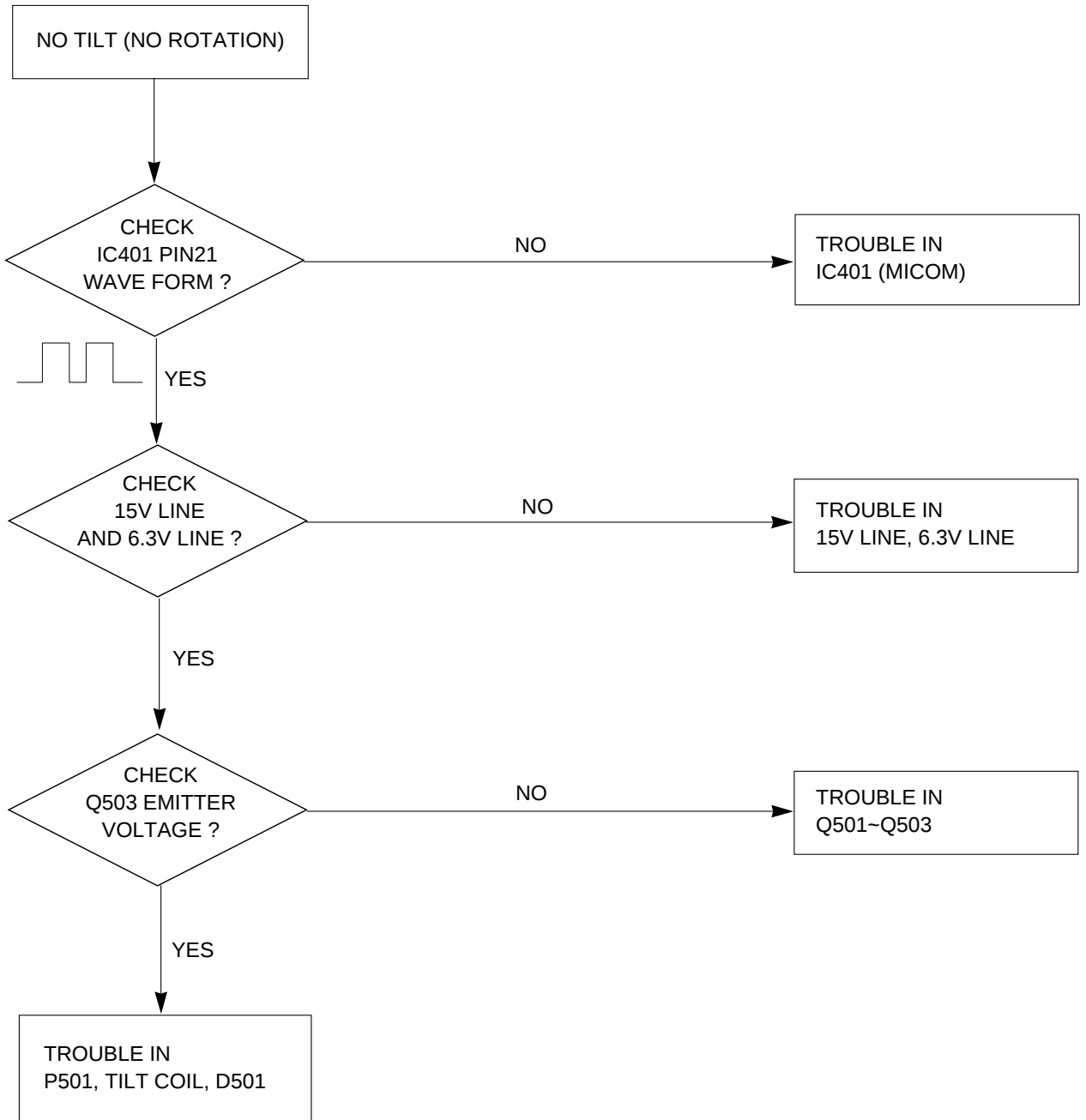
DPM TABLE

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

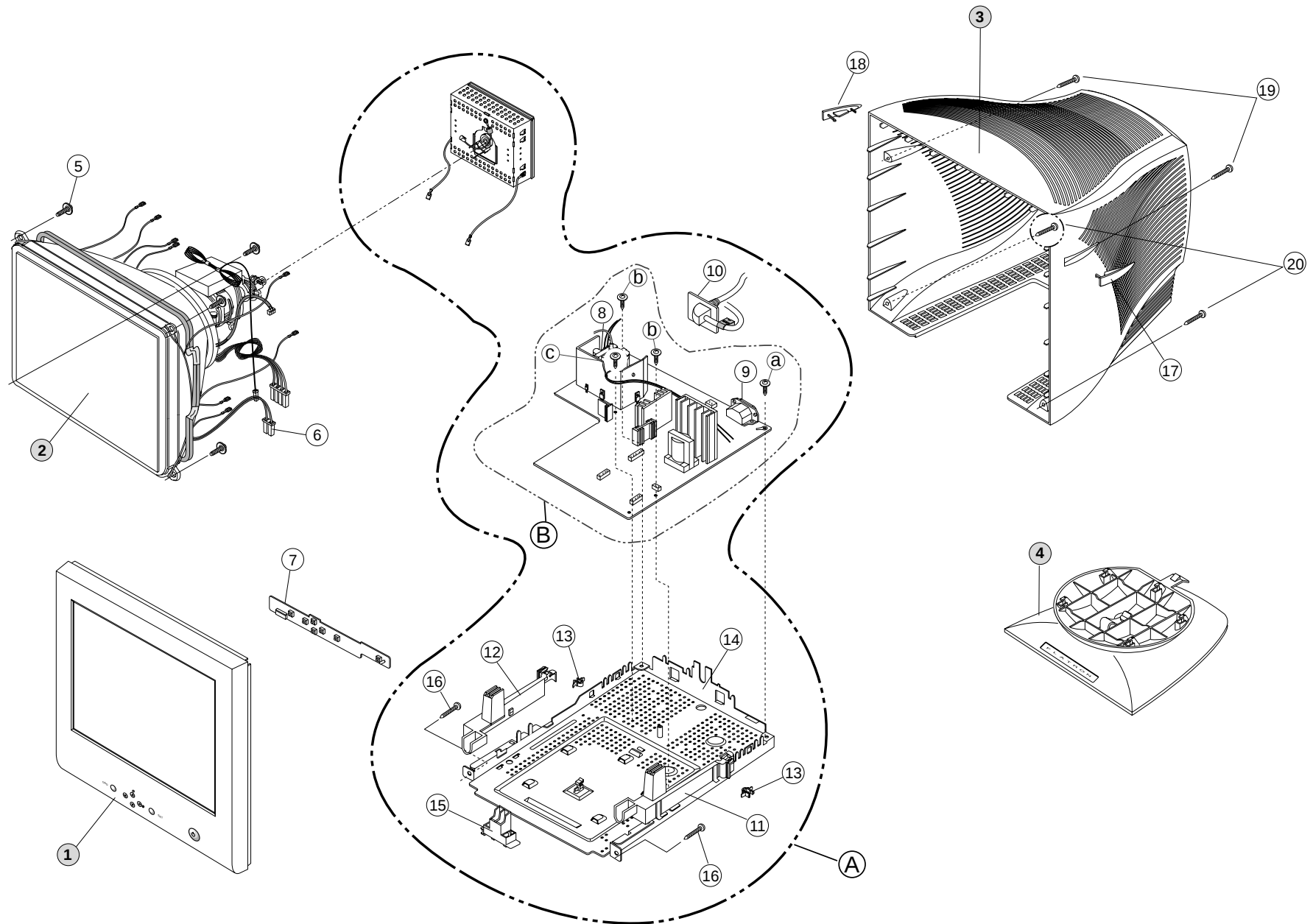
9. NO DEGAUSSING



10. NO TILT (NO ROTATION)



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Ref. No.	Part No.	Description
1	3091TKC071K	CABINET ASSEMBLY, FB775G BRAND 035 CKD
	3091TKC071J	CABINET ASSEMBLY, FB775G BRAND 035 SP CKD -Brazil only
2	2423GC3E41M	CDT(CIRC), M41QBF423 x 31NPLD LG PHILIPS DISPLAYS 70KHZ 29.1M -For Northern Hemisphere
	2423GC3E41U	CDT(CIRC), M41QBF423X 32SPLD LG-PHILIPS Displays 70KHZ 29.1 mm -For Southern Hemisphere
	2423GC3E41N	CDT(CIRC), M41QBF423X 31RPLD LG-PHILIPS Displays 70KHZ 29.1 mm -For Equatorial
3	3809TKC032A	BACK COVER ASSEMBLY, FB795C 031 C-CORE SLIM
	3809TKC032N	BACK COVER ASSEMBLY, FB775G 031 CKD -Brazil only
4	3043TKK040L	TILT SWIVEL ASSY, SFB775B T032 B029 HIPS 85964 CKD
5	339-002H	SCREW ASSY, PHP+5*20(FZMY)+GW18 NEW TYPE
6	6140TC2014B	COIL, DEGAUSSING, - GET D-COIL,0.5*130TS,1410,WITH PURITY,FB770G
7	6871TST289C	PWB(PCB) ASSEMBLY, SUB, FB775G.KXLVED CONTROL TOTAL BRAND CA-109
	6871TST289F	PWB(PCB) ASSEMBLY, SUB, FB775G.KQBRES CONTROL TOTAL BRAND CA-113 -Brazil only
8	6174T11003E	FBT (FLY BACK TRANSFORMER), 1054A,CB777G LG-PHILIPS 17"
9	6620TKB002A	SOCKET(CIRC), POWER, BAE EUN AC UNIVERSAL 3PIN BLACK
10	6850TA9004A	CABLE, D-SUB, UL 2990-9C(7.5) AT 1560MM GLAY CB777G DM
11	4810TKK168B	BRACKET, FB775F GUIDE PCB(R) PC+ABS
12	4810TKK169B	BRACKET, FB775F GUIDE PCB(L) PC+ABS
13	4930TKK031C	HOLDER, PCB FIX , PC+ABS
14	4951TKS070J	METAL ASSEMBLY, BASE FB775G(CKD)
15	4810TKK167B	BRACKET, FB775F SUPPORTER CDT PC+ABS
16	332-102J	SCREW, PTP 4*20 (FZMW)
17	3550TKK061A	COVER, FB795B SCREW RIGHT
18	3550TKK061B	COVER, FB795B SCREW LEFT
19	332-102P	SCREW, PTP 4*30[MSWR/FZMCWY-1]
20	332-102J	SCREW, PTP 4*20 (FZMW)
A	3313T17256B	MAIN TOTAL ASSEMBLY, FB775G.KXLVED BRAND CA-109
	3313T17256E	MAIN TOTAL ASSEMBLY, FB775G.KQBRES BRAND CA-113 -Brazil only
B	6871TMT295B	PWB(PCB) ASSEMBLY, MAIN, FB775G KXLVED BRAND CA-109 TOTAL
	6871TMT295D	PWB(PCB) ASSEMBLY, MAIN, FB775G KQBRES BRAND CA-113 TOTAL -Brazil only
a	332-112F	SCREW, DRAWING, D3.5 L10.0 MSWR/FZMY+SW3.5+RW3.5
b	1SZZTER001D	SCREW, D3.0 L10.0 MSWR/FZMY DOUBLE
c	339-008C	SCREW ASSY, MP+3*10(FZMY) + SW3+RW3

REPLACEMENT PARTS LIST

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

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

DATE: 2002. 05. 22.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
CAPACITORS				
		C201	OCN1040K949	0.1M 50V Z F TA52
		C301	181-288N	MKT 100V 103JTR PHS86103
		C302	OCE107CF638	100UF SHL,SD 16V M FM5 TP 5
		C303	OCK1040K945	0.1UF 50V Z F TR
		C304	OCK1030K945	0.01UF 50V Z F TR
		C305	OCE107CF638	100UF SHL,SD 16V M FM5 TP 5
		C306	181-288N	MKT 100V 103JTR PHS86103
		C307	OCK3910K515	390P 50V K B TS
		C308	OCN1040K949	0.1M 50V Z F TA52
		C309	OCK1040K945	0.1UF 50V Z F TR
		C310	181-288B	MKT 100V 104JTR PHS26104
		C311	OCK1040K945	0.1UF 50V Z F TR
		C312	OCN1040K949	0.1M 50V Z F TA52
		C313	OCK1040K945	0.1UF 50V Z F TR
		C314	OCC4700W405	47PF 500V J SL TP
		C315	OCE476CF638	47UF SHL,SD 16V M FM5 TP 5
		C316	OCK1010W515	100P 500V K B TS
		C317	OCN1040K949	0.1M 50V Z F TA52
		C318	OCK1040K945	0.1UF 50V Z F TR
		C319	OCN1040K949	0.1M 50V Z F TA52
		C320	OCN1040K949	0.1M 50V Z F TA52
		C321	OCE475CK638	4.7UF SHL,SD 50V M FM5 TP 5
		C322	OCN6810K519	680P 50V K B TA52
		C323	OCE476CF638	47UF SHL,SD 16V M FM5 TP 5
		C324	OCK1040K945	0.1UF 50V Z F TR
		C325	181-288B	MKT 100V 104JTR PHS26104
		C326	OCE106CN638	10UF SHL,SD 100V M FM5 TP 5
		C327	181-288B	MKT 100V 104JTR PHS26104
		C328	OCE106CN638	10UF 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
		C336	181-288E	MKT 100V 474JTR PHS 26474
		C339	OCK4710W515	470P 500V K B TS
		C340	OCK1040K945	0.1UF 50V Z F TR
		C341	OCK10302940	0.01M 2KV Z F S
		C342	OCE106CK638	10UF SHL,SD 50V M FM5 TP 5
		C346	OCK10202515	1000PF D 2KV 10% TR B(Y5P)
		C351	OCC0400K115	4P 50V D NP0 TS
		C352	OCC0400K115	4P 50V D NP0 TS
		C353	OCC0400K115	4P 50V D NP0 TS
		C358	OCK8210K515	820P 50V K B TS
		C359	OCN5610K519	560P 50V K B TA52
		C372	OCK1040K945	0.1UF 50V Z F TR
		C401	OCN1040K949	0.1M 50V Z F TA52
		C402	OCE476CF638	47UF SHL,SD 16V M FM5 TP 5
		C403	OCK1040K945	0.1UF 50V Z F TR
		C404	OCC1800K415	18P 50V J NPO TP
		C405	OCC1800K415	18P 50V J NPO TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C406	OCK1010K515	100PF 50V K B TR
		C407	OCK1010K515	100PF 50V K B TR
		C408	OCK1040K945	0.1UF 50V Z F TR
		C409	OCC5600K415	56P 50V J NP0 TP
		C410	OCK1010K515	100PF 50V K B TR
		C411	OCK1040K945	0.1UF 50V Z F TR
		C412	OCK1040K945	0.1UF 50V Z F TR
		C413	OCK1040K945	0.1UF 50V Z F TR
		C501	OCE106CF638	10UF SHL,SD 16V M FM5 TP 5
		C510	OCE225CK638	2.2UF SHL,SD 50V M FM5 TP 5
		C511	OCE106CF638	10UF SHL,SD 16V M FM5 TP 5
		C599	OCE225CK638	2.2UF SHL,SD 50V M FM5 TP 5
		C601	OCE477EH618	470UF KMG 25V M FL TP 5
		C602	181-288B	MKT 100V 104JTR PHS26104
		C603	OCE476CK638	47UF SHL,SD 50V M FM5 TP 5
		C604-1	181-288T	MKT 100V 223KTR PHS85223
		C605	OCK1020W515	1000P 500V K B TS
		C701	OCQ5621N419	5600P 100V J POLY NI TP
		C702	OCZZTFT001M	ECQB1H103JM3 103J 50V TP5.0
		C703	OCZZTFT001Z	ECQB1H104JM3 104J 50V TP5.0
		C704	OCQ8221N519	0.0082U 100V K POLY NI TP
		C705	OCE476CF638	47UF SHL,SD 16V M FM5 TP 5
		C706	OCZZTFT001Z	ECQB1H104JM3 104J 50V TP5.0
		C707	OCZZTFT002B	ECQV1H154JZ3 154J 50V TP5.0
		C708	OCE227CH638	220UF SHL,SD 25V M FM5 TP 5
		C709	181-288P	MKT 100V 153JTR PHS86153
		C711	OCQ5621N419	5600P 100V J POLY NI TP
		C713	OCQ1031N419	0.01U 100V J POLY NI TP
		C716	OCK2710K515	270P 50V K B TS
		C717	OCE105CN638	1UF SHL,SD 100V M FM5 TP 5
		C718	181-288D	MKT 100V 473JTR PHS26473
		C719	OCZZTAB001A	SM-BP(P)/BP 10UF 50V 13*25 B
		C721-1	181-477W	473J 19.5*15.0*8.5*7.5 250V
		C722	181-303W	0.2UF D 250V J PP NI FM20
		C723	181-482A	104J 18.0*13.0*7.0*7.5 250V
		C724	OCN1040K949	0.1M 50V Z F TA52
		C725	OCK6810W515	680P 500V K B TS
		C726	181-305Y	MPP 250 204J S=10.0
		C727	OCN1040K949	0.1M 50V Z F TA52
		C728	OCQ5621N419	5600P 100V J POLY NI TP
		C729	181-305V	514J 26.0*18.0*11.0*15.0 250
		C730	OCN1040K949	0.1M 50V Z F TA52
		C731	OCBZTBU004D	542J 29.0*20.5*9.5*20.0 2.5K
		C732	OCQ1031N419	0.01U 100V J POLY NI TP
		C733	OCBZTBU003J	392J 20.0*12.5*7.5*10.0 800V
		C737	OCK10102515	100PF 2KV K B TR
		C739	OCE226CK638	22UF SHL,SD 50V M FM5 TP 5
		C740	OCE227EL630	220UF KMG 63V M FM5 BULK
		C741	OCZZTFT002B	ECQV1H154JZ3 154J 50V TP5.0
		C742	OCZZTFT001R	ECQB1H223JM3 223J 50V TP5.0
		C743	OCK3310W515	330P 500V K B TS
		C744	OCE107CP630	100UF SHL 160V M FM5 BULK
		C745	OCK5610W515	560P 500V K B TS
		C746	OCK33101515	330P 1KV K B TS

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		C747	0CK3320W515	3300P 500V K B TS
		C748	181-288B	MKT 100V 104JTR PHS26104
		C749	0CE2256R638	2.2000UF SMS 250V M FM5 TP5
		C750	0CK1040K945	0.1UF 50V Z F TR
		C751	181-288N	MKT 100V 103JTR PHS86103
		C752	0CQ4721N419	0.0047U 100V J POLY NI TP5
		C754	0CC4700W405	47PF 500V J SL TP
		C755	0CN1040K949	0.1M 50V Z F TA52
		C767	0CK10301510	0.01M 1KV K B S
		C771	0CK10301510	0.01M 1KV K B S
		C773	0CE107CH638	100UF SHL,SD 25V M FM5 TP 5
		C774	181-288B	MKT 100V 104JTR PHS26104
		C775	0CK2210K515	220P 50V K B TS
		C781	0CK1030K945	0.01UF 50V Z F TR
		C801	0CK1040K945	0.1UF 50V Z F TR
		C802	0CE106CK638	10UF SHL,SD 50V M FM5 TP 5
		C805	0CE106CK638	10UF SHL,SD 50V M FM5 TP 5
		C810	0CE106CK638	10UF SHL,SD 50V M FM5 TP 5
		C821	0CK1040K945	0.1UF 50V Z F TR
		C822	0CN1040K949	0.1M 50V Z F TA52
		C830	0CK10101515	100PF 1KV K B TR
		C901	0CBZTBU002B	BULK PCX2 335 474K
		C902	0CBZTBU002A	BULK PCX2 335 224K
		C903	0CKZTTA003A	SC E 222M 10.0FF7 250V TP7.5
		C904	0CKZTTA003A	SC E 222M 10.0FF7 250V TP7.5
		C905	0CE476EK638	47UF KMG 50V M FM5 TP 5
		C906	0CK1520K515	1500P 50V K B TS
		C908	181-124R	220UF SMG(25.4*40) 400V M VN
		C909	181-304T	273J 19.5*14.0*8.5*10.0 400V
		C910	0CK33101515	330P 1KV K B TS
		C911	0CQ1021N419	1000P 100V J POLY NI TP
		C912	0CKZTTA003D	SC SAMWHA 250V 1000F M TAPIN
		C913	0CKZTTA003D	SC SAMWHA 250V 1000F M TAPIN
		C941	0CE108EF630	1000UF KMG 16V M FM5 BULK
		C942	0CE107CF638	100UF SHL,SD 16V M FM5 TP 5
		C943	0CK3310W515	330P 500V K B TS
		C944	0CKZTBU003C	SC E 472M 14.0BW7 250V BK7.5
		C944	0CKZTBU003C	SC E 472M 14.0BW7 250V BK7.5
		C945	0CKZTBU003C	SC E 472M 14.0BW7 250V BK7.5
		C951	0CE228CH630	2200U SHL 25V M FM5
		C952	0CE227CH638	220UF SHL,SD 25V M FM5 TP 5
		C953	0CE107CF638	100UF SHL,SD 16V M FM5 TP 5
		C954	0CE108ED618	1000UF KMG 10V M FL TP 5
		C971	0CE476EN618	47UF KMG 100V M FL TP 5
		C999	0CE227EL630	220UF KMG 63V M FM5 BULK
DIODEs				
		D201	0DL305029BA	LTL-305DJ-0C2 TP LITEON GREE
		D301	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D302	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D303	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D304	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D305	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D306	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D307	0DS124409AA	1SS244 TP ROHM KOREA
		D308	0DS124409AA	1SS244 TP ROHM KOREA
		D309	0DS124409AA	1SS244 TP ROHM KOREA
		D310	0DS124409AA	1SS244 TP ROHM KOREA
		D311	0DS124409AA	1SS244 TP ROHM KOREA
		D312	0DS124409AA	1SS244 TP ROHM KOREA

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		D313	0DS124409AA	1SS244 TP ROHM KOREA
		D314	0DS124409AA	1SS244 TP ROHM KOREA
		D315	0DS124409AA	1SS244 TP ROHM KOREA
		D316	6210TCE003J	BAS2550T BO SUNG 2550MM AXIA
		D317	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D401	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D402	971-0016	TIN HDC 0.60H
		D501	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D511	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D512	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D701	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D702	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D704	0DR150051AA	DMV1500M/F5 ST SGS-THOMSON T
		D705	0DR100009CA	RGP10G TP GULF SEMICONDUCTOR
		D706	0DR359150AA	BY359F-1500 BK PHILIPS SOD
		D709	971-0016	TIN HDC 0.60H
		D710	0DR320400AA	S3L20U-4004P15 BK SHINDENGEN
		D711	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D712	0DR100009CA	RGP10G TP GULF SEMICONDUCTOR
		D714	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D715	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		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
		D721	0DR100009CA	RGP10G TP GULF SEMICONDUCTOR
		D723	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D724	0DR100009DA	RGP10J TP GULF SEMICONDUCTOR
		D725	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D730	971-0016	TIN HDC 0.60H
		D735	0DR140059DA	1N4005TB52 TP LITEON DO41 60
		D741	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D767	0DR100009DA	RGP10J TP GULF SEMICONDUCTOR
		D768	971-0016	TIN HDC 0.60H
		D801	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D802	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D821	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D900	0DD406000AB	RBV406M FL-B BK SANKEN 600V
		D902	0DR153979AA	1N5397GP TP G.I DO201AD 600V
		D903	0DR100009CA	RGP10G TP GULF SEMICONDUCTOR
		D905	0DD400709CB	UF4007 TP G.I DO204AL 1000V
		D906	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D908	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D941	0DD150009CB	RGP15D TP G.I DO204AC 200V
		D942	0DRGS00089A	SB1H100 GENERAL SEMICONDUCTO
		D951	0DRGS00110A	UF5403L-5700 GENERAL SEMICON
		D952	0DS141489AB	1N4148 TP GRANDE DO-34 500MW
		D961	0DRGS00090A	31GF6L-5701 GENERAL SEMICOND
		D962	0DRGS00090A	31GF6L-5701 GENERAL SEMICOND
		D971	0DR100009DA	RGP10J TP GULF SEMICONDUCTOR
		ZD201	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500
		ZD202	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500
		ZD203	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500
		ZD301	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500
		ZD302	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500
		ZD401	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
		ZD406	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
		ZD411	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500

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		ZD412 ZD701 ZD702 ZD705 ZD901 ZD902	0DZ560009AG 0DZ110009CF 0DZ560009AG 0DZ510009BE 0DZ510009BE 0DZ510009BE	GDZJ5.6B TP GRANDE DO-34 500 GDZJ11B TP GRANDE DO34 0.5W GDZJ5.6B TP GRANDE DO-34 500 GDZ5.1B TP GRANDE DO34 500MW GDZ5.1B TP GRANDE DO34 500MW GDZ5.1B TP GRANDE DO34 500MW
ICs				
		IC301 IC302 IC303 IC304 IC401 IC402 IC403 IC601 IC701 IC901	0IPRPMJ008A 0IPRPNS003A 0IPRPNS009A 0IPRPNS005A 0IZZTSZ181A 0ISG240860A 0IKE704200H 0IPH486600C 0IPRPPH005A 0IPMGSK005A	MTV038N-15EG MYSON 16P DIP S LM1269NA NATIONAL SEMICONDUCT LM2469TA NATIONAL SEMICONDUCT LM2480NA NATIONAL SEMICONDUCT SS 42PIN ST FB775G CA-113 M24C08-BN6 8DIP BK 8K SERIAL KIA7042AP TO-92 TP 4.2 VOLT TDA4866J 9P ST VERTICAL OUTP TDA4841PS PHILIPS 32P,SDIP S STR-G8656D(LF1140) SANKEN 5P
COILS & COREs				
		FB201 FB301 FB302 FB303 FB304 FB305 FB308 FB309 FB310 FB311 FB312 FB313 FB401 FB402 FB403 FB701 FB703 FB705 FB901 FB904 FB913 FB921 FB922 FB951 L301 L302 L303 L304 L311 L312 L313 L501 L502 L702 L703 L705 L901	6210TCE003J 6210TCE003F 6210TCE003J 6210TCE003J 6210TCE003J 6210TCE003J 6210TCE003G 971-0016 6210TCE003A 6210TCZ001J 6210TCZ001J 6210TCZ001J 6210TCE003J 6210TCE003J 6210TCE003J 6210TCE003L 6210TCE003B 6210TCE003L 6210TCE003P 6210TCE003K 6210TCE003P 6210TCE003A 6210TCE003H 6210TCE003J 0LA0270K119 0LA0270K119 0LA0270K119 0LA1000K119 0LA0820K119 0LA0820K119 0LA0820K119 6210TCE003K 6210TCE003K 6140TBZ025C 6140TYZ011C 6140TBZ026C 6200TLS004B	BAS2550T BO SUNG 2550MM AXIA BRD3580B BO SUNG 3580MM RADI BAS2550T BO SUNG 2550MM AXIA BAS2550T BO SUNG 2550MM AXIA BAS2550T BO SUNG 2550MM AXIA BAS2550T BO SUNG 2550MM AXIA BRS3550B BO SUNG 3550MM RADI TIN HDC 0.60H BRD3510B BO SUNG 3510MM RADI BAS3550T0(125-022J) BO SUNG BAS3550T0(125-022J) BO SUNG BAS3550T0(125-022J) BO SUNG BAS2550T BO SUNG 2550MM AXIA BAS2550T BO SUNG 2550MM AXIA BAS2550T BO SUNG 2550MM AXIA BAS3580T BO SUNG 3580MM AXIA BRS3580B BO SUNG 3580MM RADI BAS3580T BO SUNG 3580MM AXIA BRS2550B BO SUNG 2550MM RADI BAS3550T BO SUNG 3550MM AXIA BRS2550B BO SUNG 2550MM RADI BRD3510B BO SUNG 3510MM RADI BAS3510T BO SUNG 3510MM AXIA BAS2550T BO SUNG 2550MM AXIA 0.27UH K 2.3*3.4 TP 0.27UH K 2.3*3.4 TP 0.27UH K 2.3*3.4 TP 100UH K 2.3*3.4 TP 0.82UH K 2.3*3.4 TP 0.82UH K 2.3*3.4 TP 0.82UH K 2.3*3.4 TP BAS3550T BO SUNG 3550MM AXIA BAS3550T BO SUNG 3550MM AXIA DR14*20 150UH 0.12*25MM 51T - GET DR14*25,5.4UH,FB775G DR15*18-C9.8 100UH 0.1*30MM SQE2424 15MH 0.55MM 70T CB77

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
TRANSISTOR				
		Q501 Q502 Q503 Q510 Q511 Q512 Q701 Q706 Q707 Q708 Q709 Q710 Q711 Q712 Q713 Q714 Q715 Q716 Q719 Q720 Q722 Q723 Q799 Q821 Q903 Q941 Q942 Q951 Q952 Q953	0TR320209AA 0TR127009AA 0TR319809AA 0TR319809AA 0TR320509AB 0TR127509AC 0TR200009AB 0TR558900BA 0TR127009AA 0TR127009AA 0TR141300AB 0TR440009CA 0TF630000CA 0TF630000CA 0TF630000CA 0TR319809AA 0TR319809AA 0TR319809AA 0TF630000CA 0TR390409CA 0TR319809AA 0TR127009AA 0TR920009AB 0TRFC10003A 0TRFC10003A 0TR319809AA 0TR928009AB 0TR319809AA 0TR928009AB 0TR319809AA	KTC3202-Y(KTC1959) TP KEC TO KTA1270-Y(KTA562TM) TP KEC T KTC3198-Y(KTC1815) TP KEC TO KTC3198-Y(KTC1815) TP KEC TO KTC3205-Y(KTC2236A) TP KEC T KTA1275-Y(KTA1013) TP KEC TO KTC200-Y TP KEC TO92 NPN 2SC5589(LG,W/M) BK TOSHIBA T KTA1270-Y(KTA562TM) TP KEC T KTA1270-Y(KTA562TM) TP KEC T KTD1413 BK KEC TO220I S NPN KSP44 TP SAMSUNG IRFS630A BK SAMSUNG 200V 6.5 IRFS630A BK SAMSUNG 200V 6.5 IRFS630A BK SAMSUNG 200V 6.5 KTC3198-Y(KTC1815) TP KEC TO KTC3198-Y(KTC1815) TP KEC TO KTC3198-Y(KTC1815) TP KEC TO IRFS630A BK SAMSUNG 200V 6.5 2N3904 TP SAMSUNG TO92 NPN KTC3198-Y(KTC1815) TP KEC TO KTA1270-Y(KTA562TM) TP KEC T KSP92 TP SAMSUNG TO92 HIGH V FAIRCHILD KSD882Y-S ST TO126 FAIRCHILD KSD882Y-S ST TO126 KTC3198-Y(KTC1815) TP KEC TO KSA928A-Y TP SAMSUNG TO92L P KTC3198-Y(KTC1815) TP KEC TO KSA928A-Y TP SAMSUNG TO92L P KTC3198-Y(KTC1815) TP KEC TO
RESISTORS				
		R201 R202 R203 R204 R205 R206 R207 R208 R209 R210 R211 R301 R302 R303 R304 R305 R306 R307 R310 R312 R314 R315 R316 R317 R318 R319 R320 R321	0RD1001Q609 0RD0912Q609 0RD2200Q609 0RD4300Q609 0RD1001Q609 0RD0912Q609 0RD4300Q609 0RD2200Q609 0RD9100Q609 0RD3600Q609 0RD5100Q609 0RD0752Q609 0RD0752Q609 0RD0752Q609 0RD3301Q609 0RD5601Q609 0RD5601Q609 0RD1004Q609 0RD1001Q609 0RD1001Q609 0RD1000Q609 0RD1000Q609 0RD1000Q609 0RD1000Q609 0RD1000Q609 0RD4701Q609 0RD2001Q609 0RD2200Q609	1K 1/4W(3 5% TA52 91 OHM 1/4 W (3.4) 5% TA52 220 1/4W(3 5% TA52 430 OHM 1/4 W(3.4) 5.00% TA5 1K 1/4W(3 5% TA52 91 OHM 1/4 W (3.4) 5% TA52 430 OHM 1/4 W(3.4) 5.00% TA5 220 1/4W(3 5% TA52 910 1/4W(3 5% TA52 360 1/4W(3 5% TA52 510 1/4W(3 5% TA52 75 1/4W(3 5% TA52 75 1/4W(3 5% TA52 75 1/4W(3 5% TA52 3.30K 1/4W(3 5% TA52 5.60K 1/4W(3 5% TA52 5.60K 1/4W(3 5% TA52 1M OHM 1/4 W (3.4) 5% TA52 1K 1/4W(3 5% TA52 1K 1/4W(3 5% TA52 100 1/4W(3 5% TA52 100 1/4W(3 5% TA52 100 1/4W(3 5% TA52 100 1/4W(3 5% TA52 100 1/4W(3 5% TA52 4.70K 1/4W(3 5% TA52 2K 1/4W(3 5% TA52 220 1/4W(3 5% TA52

DATE: 2002. 05. 22.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R322	ORD2200Q609	220 1/4W(3 5% TA52
		R323	ORD2200Q609	220 1/4W(3 5% TA52
		R324	ORD2200Q609	220 1/4W(3 5% TA52
		R327	ORD1001Q609	1K 1/4W(3 5% TA52
		R328	ORD1001Q609	1K 1/4W(3 5% TA52
		R329	ORD1001Q609	1K 1/4W(3 5% TA52
		R330	ORD1000Q609	100 1/4W(3 5% TA52
		R331	ORD1000Q609	100 1/4W(3 5% TA52
		R332	ORD1000Q609	100 1/4W(3 5% TA52
		R333	ORD1000Q609	100 1/4W(3 5% TA52
		R334	ORD3303Q609	330K 1/4W(3 5% TA52
		R335	ORD3303Q609	330K 1/4W(3 5% TA52
		R336	ORD3303Q609	330K 1/4W(3 5% TA52
		R337	ORD1000Q609	100 1/4W(3 5% TA52
		R340	ORN1002F409	10K 1/6W 1 TA52
		R341	ORD0332A609	33 OHM 1/2 W (7.0) 5% TA52
		R342	ORD0332A609	33 OHM 1/2 W (7.0) 5% TA52
		R343	ORD0332A609	33 OHM 1/2 W (7.0) 5% TA52
		R344	ORD0332Q609	33 1/4W(3 5% TA52
		R345	ORD0332Q609	33 1/4W(3 5% TA52
		R346	ORD0332Q609	33 1/4W(3 5% TA52
		R347	ORD1200Q609	120 1/4W(3 5% TA52
		R388	ORD1000Q609	100 1/4W(3 5% TA52
		R389	ORD1000Q609	100 1/4W(3 5% TA52
		R390	ORD1000Q609	100 1/4W(3 5% TA52
		R401	ORD1000Q609	100 1/4W(3 5% TA52
		R402	ORD1002Q609	10K 1/4W(3 5% TA52
		R403	ORD2200Q609	220 1/4W(3 5% TA52
		R404	ORD1000Q609	100 1/4W(3 5% TA52
		R405	ORD1000Q609	100 1/4W(3 5% TA52
		R406	ORD2001Q609	2K 1/4W(3 5% TA52
		R407	ORD2001Q609	2K 1/4W(3 5% TA52
		R408	ORD3302Q609	33K 1/4W(3 5% TA52
		R409	ORD1300Q609	130 1/4W(3 5% TA52
		R410	ORD1300Q609	130 1/4W(3 5% TA52
		R412	ORD2001Q609	2K 1/4W(3 5% TA52
		R413	ORD1001Q609	1K 1/4W(3 5% TA52
		R414	ORD1001Q609	1K 1/4W(3 5% TA52
		R415	ORD1001Q609	1K 1/4W(3 5% TA52
		R416	ORD1801Q609	1.80K 1/4W(3 5% TA52
		R417	ORD1001Q609	1K 1/4W(3 5% TA52
△		R418	ORD3901Q609	3.90K 1/4W(3 5% TA52
		R419	ORD1002Q609	10K 1/4W(3 5% TA52
		R420	ORD5101Q609	5.10K 1/4W(3 5% TA52
		R421	ORD1002Q609	10K 1/4W(3 5% TA52
△		R422	ORD1001Q609	1K 1/4W(3 5% TA52
		R423	ORD5600Q609	560 1/4W(3 5% TA52
		R430	ORD1000Q609	100 1/4W(3 5% TA52
		R431	ORD1000Q609	100 1/4W(3 5% TA52
		R432	ORD1000Q609	100 1/4W(3 5% TA52
		R433	ORD2001Q609	2K 1/4W(3 5% TA52
		R434	ORD2001Q609	2K 1/4W(3 5% TA52
		R446	ORD1002Q609	10K 1/4W(3 5% TA52
		R501	ORD0102A609	10 OHM 1/2 W (7.0) 5% TA52
		R508	ORD4702Q609	47K 1/4W(3 5% TA52
		R509	ORD1502Q609	15K 1/4W(3 5% TA52
		R510	ORD4702Q609	47K 1/4W(3 5% TA52
		R511	ORD3902Q609	39K 1/4W(3 5% TA52
		R512	ORD5601Q609	5.60K 1/4W(3 5% TA52
		R513	ORD0242Q609	24 1/4W(3 5% TA52
		R514	ORD0101A609	1 OHM 1/2 W (7.0) 5% TA52
		R515	ORD1502Q609	15K 1/4W(3 5% TA52

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R597	ORD3902Q609	39K 1/4W(3 5% TA52
		R598	ORD5601Q609	5.60K 1/4W(3 5% TA52
		R599	ORD0202Q609	20 1/4W(3 5% TA52
		R601	ORD1001Q609	1K 1/4W(3 5% TA52
		R602	ORD1001Q609	1K 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	ORD0102A609	10 OHM 1/2 W (7.0) 5% TA52
		R606	ORD1000A609	100 OHM 1/2 W (7.0) 5% TA52
		R607	ORN6201F409	6.20K 1/6W 1% TA52
		R608	ORD5100A609	510 OHM 1/2 W(7.0) 5.00% TA5
		R610	ORD1101Q609	1.1K OHM 1/4 W (3.4) 5% TA52
		R612	ORN5601F409	5.60K 1/6W 1% TA52
		R613	ORD1801Q609	1.80K 1/4W(3 5% TA52
		R700	ORX0221K607	2.2 OHM 2 W 5% TA62
		R701	ORD1500A609	150 OHM 1/2 W (7.0) 5% TA52
		R702	ORD5601Q609	5.60K 1/4W(3 5% TA52
△		R704	ORD3601Q609	3.60K 1/4W(3 5% TA52
		R705	ORD1602Q609	16K 1/4W(3 5% TA52
		R706	ORN2701F409	2.70K 1/6W 1% TA52
		R707	ORN3301F409	3.30K 1/6W 1% TA52
		R708	ORN1001F409	1K 1/6W 1% 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	ORD1001Q609	1K 1/4W(3 5% TA52
		R713	ORD3300Q609	330 1/4W(3 5% TA52
△		R714	ORN1501F409	1.5K 1/6W 1 TA52
△		R714-1	ORN3001F409	3K 1/6W 1% TA52
△		R714-2	ORN6200F409	620 1/6W 1% TA52
△		R715	ORD2702Q509	27K OHM 1/4 W(3.4) 2% TA52
		R716	ORD7502Q609	75K 1/4W(3 5% TA52
		R717	ORD7501Q609	7.50K 1/4W(3 5% TA52
		R718	971-0016	TIN HDC 0.60H
		R719	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R720	ORC1205Q609	12M OHM 1/4 W(3.4) 5% TA52
		R721	ORD1001Q609	1K 1/4W(3 5% TA52
		R723	ORD1001Q609	1K 1/4W(3 5% TA52
		R724	ORD1001Q609	1K 1/4W(3 5% TA52
		R725	ORD1001Q609	1K 1/4W(3 5% TA52
		R726	ORD5102A609	51K OHM 1/2 W (7.0) 5% TA52
		R727	ORD1001Q609	1K 1/4W(3 5% TA52
		R728	ORX0562K665	56 OHM 2 W 5.00% SF
		R729	ORD3000A609	300 OHM 1/2 W (7.0) 5% TA52
		R731	ORD1002Q609	10K 1/4W(3 5% TA52
		R732	ORD6802Q509	68K OHM 1/4 W (3.4) 2% TA52
		R733	ORD1002Q609	10K 1/4W(3 5% TA52
		R735	ORD1001Q609	1K 1/4W(3 5% TA52
		R736	ORX1501J609	1.5KOHM 1 W 5% TA52
		R737	ORN0560H609	0.56 1/2W 5 TA52
		R738	ORN0560H609	0.56 1/2W 5 TA52
		R740	ORD0271A609	2.7 OHM 1/2 W (7.0) 5% TA52
		R741	ORD1000Q609	100 1/4W(3 5% TA52
		R742	ORD4702Q609	47K 1/4W(3 5% TA52
		R743	ORD2201Q509	2.2K OHM 1/4 W (3.4) 2% TA52
		R744	ORD2200A609	220 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

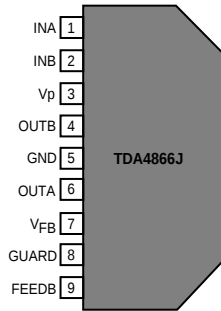
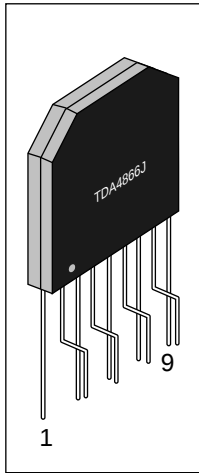
DATE: 2002. 05. 22.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R752	ORD2201Q609	2.20K 1/4W(3 5% TA52
		R753	ORD3001Q609	3K 1/4W(3 5% TA52
		R754	ORX4300K607	430 OHM 2 W 5% TA62
		R755	ORD0471Q609	4.70 1/4W(3 5% TA52
		R756	ORD2202A609	22K OHM 1/2 W (7.0) 5% TA52
		R757	ORD0222A609	22 OHM 1/2 W (7.0) 5% TA52
		R758	ORN1303F409	130K 1/6W 1% TA52
		R759	ORN1302F409	13K 1/6W 1% 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	ORD7501Q609	7.50K 1/4W(3 5% TA52
		R766	ORD6200Q609	620 1/4W(3 5% TA52
		R768	ORD1004A609	1.0M OHM 1/2 W (7.0) 5% 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
		R775	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R779	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R782	ORD3301A609	3.3K OHM 1/2 W(7.0) 5.00% TA
		R784	ORD1000Q609	100 1/4W(3 5% TA52
		R789	ORD6800Q609	680 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	ORD1602Q609	16K 1/4W(3 5% TA52
		R802	ORD3302Q609	33K 1/4W(3 5% TA52
		R803	ORD2001Q609	2K 1/4W(3 5% TA52
		R805	ORD2001Q609	2K 1/4W(3 5% TA52
		R806	ORD4702Q609	47K 1/4W(3 5% TA52
		R808	ORD6802Q609	68K 1/4W(3 5% TA52
		R809	ORMZTWD001G	RWR SMART 1OHM 5 W 5% PD TYP
		R813	ORD4302A609	43K OHM 1/2 W(7.0) 5.00% TA5
		R814	ORD1002Q609	10K 1/4W(3 5% TA52
⚠		R816	ORN3601F409	3.6K 1/6W 1 TA52
⚠		R818	ORN2202F409	22K 1/6W 1% TA52
		R819	ORD4702Q609	47K 1/4W(3 5% TA52
		R821	ORD3001Q609	3K 1/4W(3 5% TA52
		R822	ORX0122K665	12 OHM 2 W 5% SF
		R823	ORX0242K665	24 OHM 2 W 5% SF
		R824	ORX0332K665	33 OHM 2 W 5% SF
		R831	ORD1002Q609	10K 1/4W(3 5% TA52
		R901	ORD4703A609	470K OHM 1/2 W (7.0) 5% TA52
		R903	ORD5600A609	560 OHM 1/2 W (7.0) 5% TA52
		R904	ORX1503K607	150K OHM 2 W 5% TA62
		R905	ORD2201Q609	2.20K 1/4W(3 5% TA52
		R906	ORD6200Q609	620 1/4W(3 5% TA52
		R908	ORN0220H609	0.22 1/2W 5% TA52
		R910	ORX4702J609	47K OHM 1 W 5% TA52
		R925	ORB0120K607	0.12 OHM 2 W 5% TA62
		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
		R951	ORN0910H609	0.91 1/2W 5 TA52
		R952	ORD4702A609	47K OHM 1/2 W (7.0) 5% TA52
		R953	ORX4700J609	470 OHM 1 W 5% TA52
		R954	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R955	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R956	ORD4702Q609	47K 1/4W(3 5% TA52
		R957	ORD0472A609	47 OHM 1/2 W (7.0) 5% TA52

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R960	ORD2200A609	220 OHM 1/2 W (7.0) 5% TA52
		R967	971-0016	TIN HDC 0.60H
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
		J5	ORD0242Q609	24 1/4W(3 5% TA52
		J19	ORD1000Q609	100 1/4W(3 5% TA52
		J20	ORD1000Q609	100 1/4W(3 5% TA52
		J27	ORD0471Q609	4.70 1/4W(3 5% TA52
		J59	ORD1000Q609	100 1/4W(3 5% TA52
		J99	ORD8202Q609	82K 1/4W(3 5% TA52
		RL901	6920TBB005A	ALA2PF12 MATSUSHITA 250V 5A
		SC301	6620TBD003A	PCS701E PARK ELEC. 10PIN 14/
		SC901	6620TKB002A	BAE EUN AC UNIVERSAL 3PIN BL
		SG301	6918TRT005A	SSG-102-A0,1KV SMART RADIAL
		SG302	6918TRT005A	SSG-102-A0,1KV SMART RADIAL
		SG303	6918TRT005A	SSG-102-A0,1KV SMART RADIAL
		SG304	6918TRT005A	SSG-102-A0,1KV SMART RADIAL
		SG305	6918TRT005A	SSG-102-A0,1KV SMART RADIAL
		SG701	6918TRT005A	SSG-102-A0,1KV SMART RADIAL
		SW201	140-058D	SKHV10911A LGEC NON 12 20 HO
		SW202	140-058D	SKHV10911A LGEC NON 12 20 HO
		SW203	140-058D	SKHV10911A LGEC NON 12 20 HO
		SW204	140-058D	SKHV10911A LGEC NON 12 20 HO
		SW205	140-058D	SKHV10911A LGEC NON 12 20 HO
		SW206	140-058D	SKHV10911A LGEC NON 12 20 HO
		SW207	140-058D	SKHV10911A LGEC NON 12 20 HO
⚠		T701	6174T11003E	"1054A,CB777G LG-PHILIPS 17""
		T702	6170TCZ013A	EI2218 26UH D/FOCUS,FB775G
		T703	6170TCZ001D	EI2218 4.0MH H-DRIVE,EB770G
		T901	6170TMZ132A	EER3541 150UH V-16PIN EB770G
		TH901	6322TB4R51A	J503P61D4R5Q270S JAHWA 4.5
		TH902	6322TA080BA	SCK-084 THINKING 8 ohm 15% 2
		X401	6202TTB003B	HC-49/U HARMONY RADIAL 12MHZ

PIN CONFIGURATION

TDA4866J

Current Driven Vertical Deflection Booster



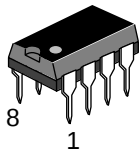
Pin Configuration

PIN	SYMBOL
1	INA
2	INB
3	V _P
4	OUTB
5	GND
6	OUTA
7	V _{FB}
8	GUARD
9	FEEDB

M24C08

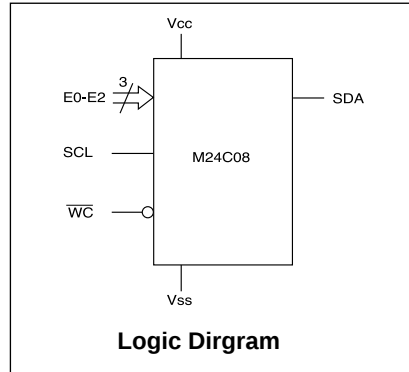
Serial I²C BUS EEPROM

PSDIP8 (BN)
0.25mm Frame



SO8 (MN)
150mil Width

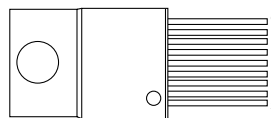
TSSOP8 (DW)
169mil Width



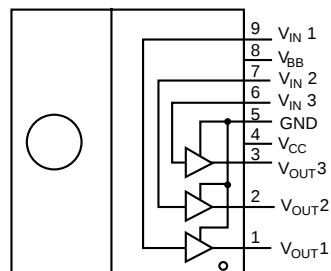
Logic Diagram

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

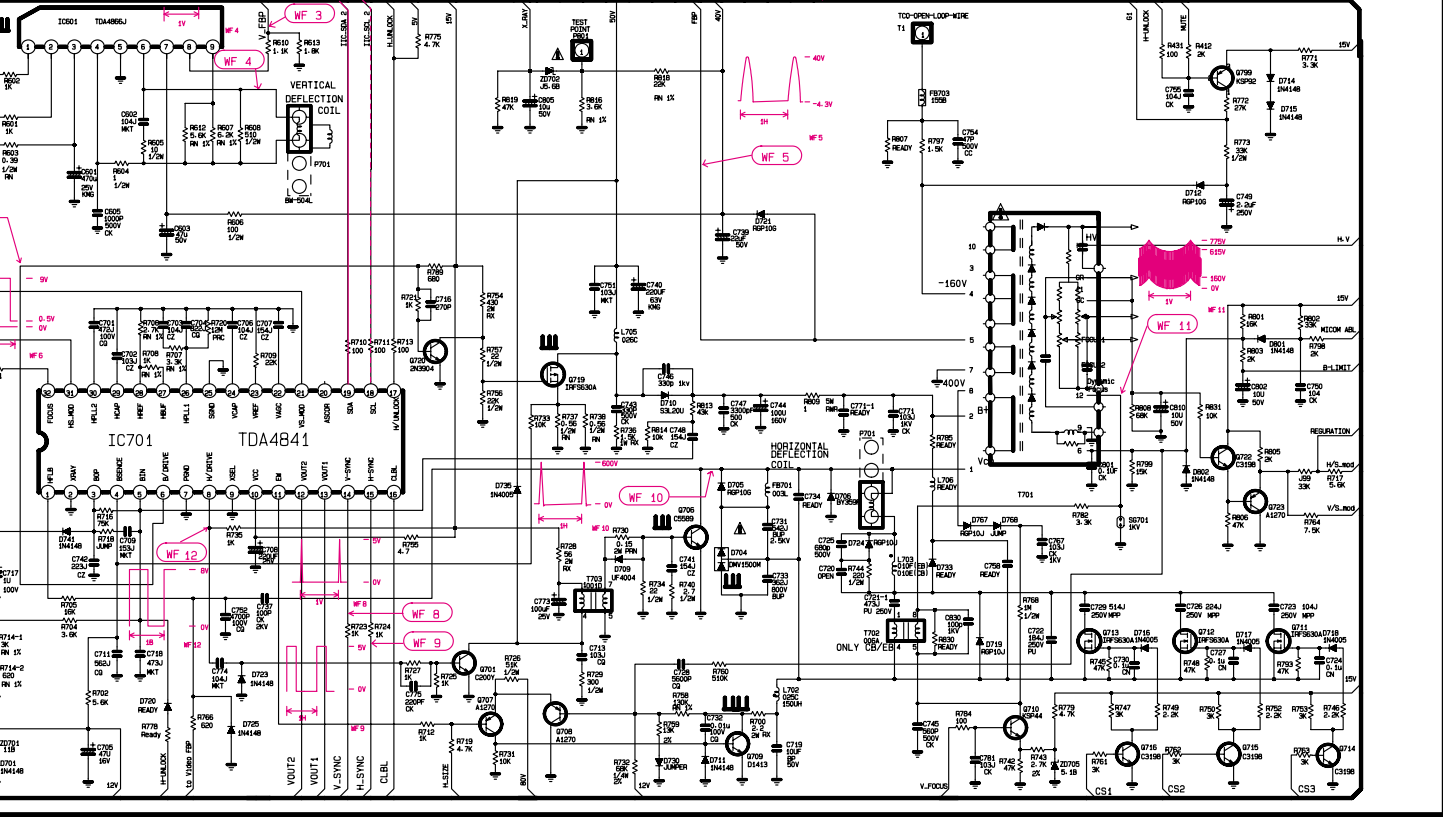
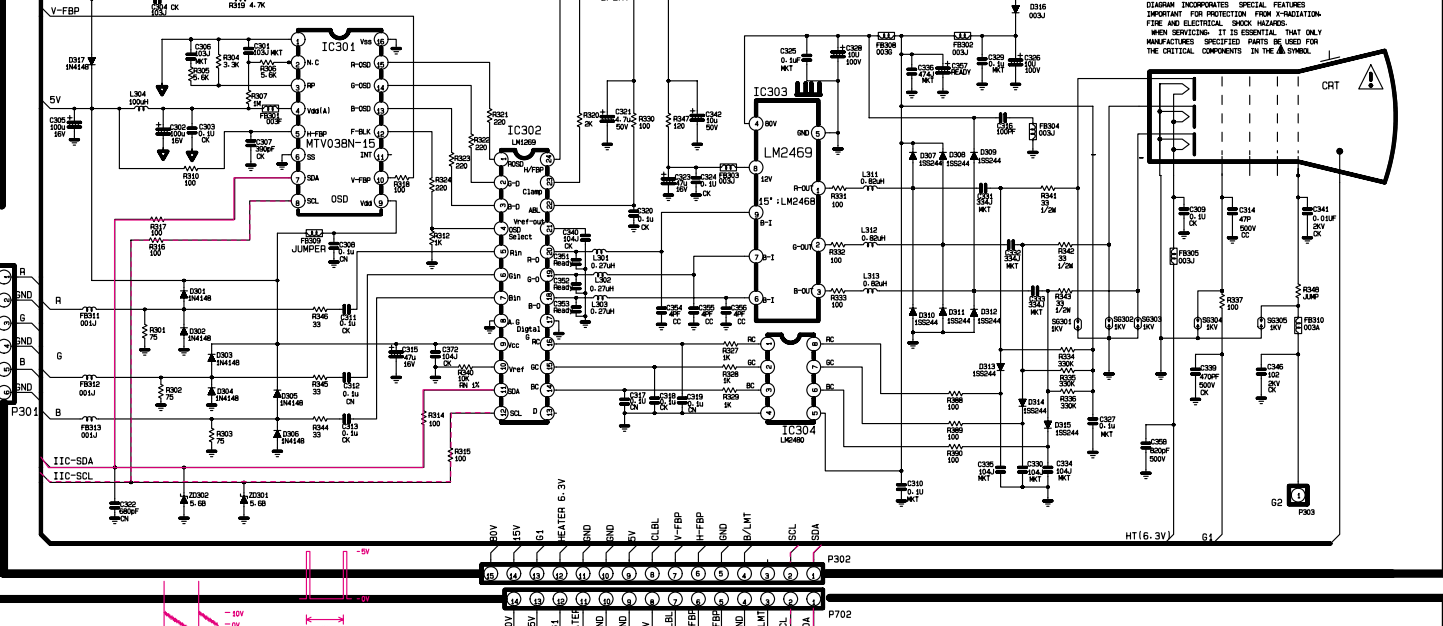
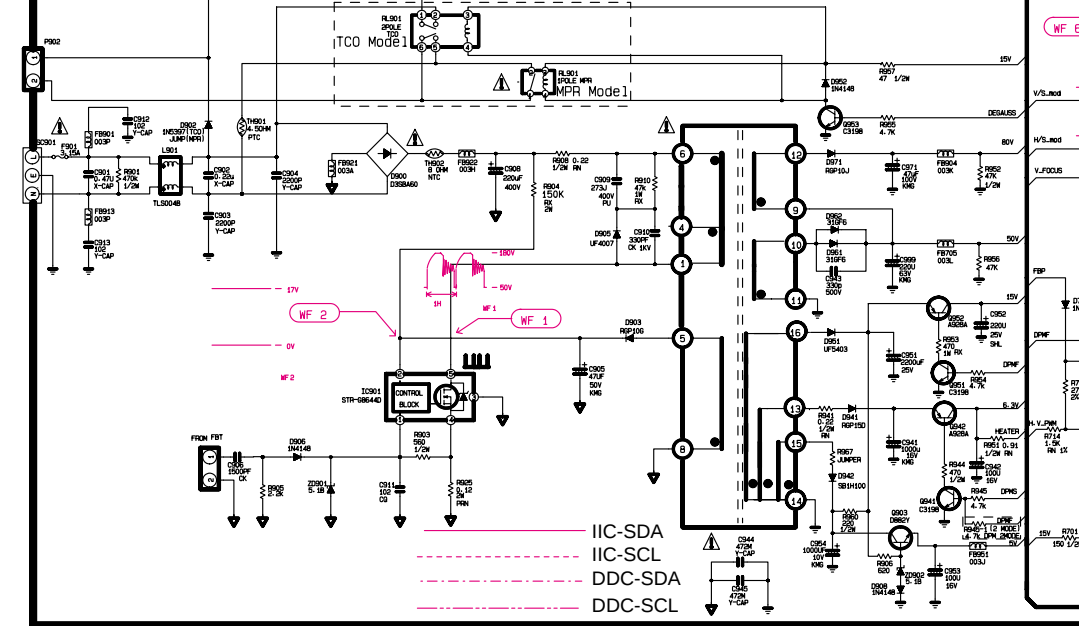
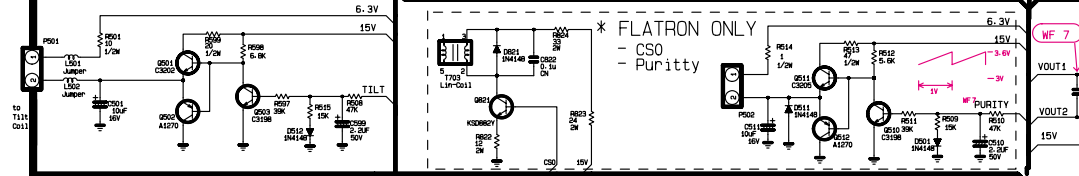
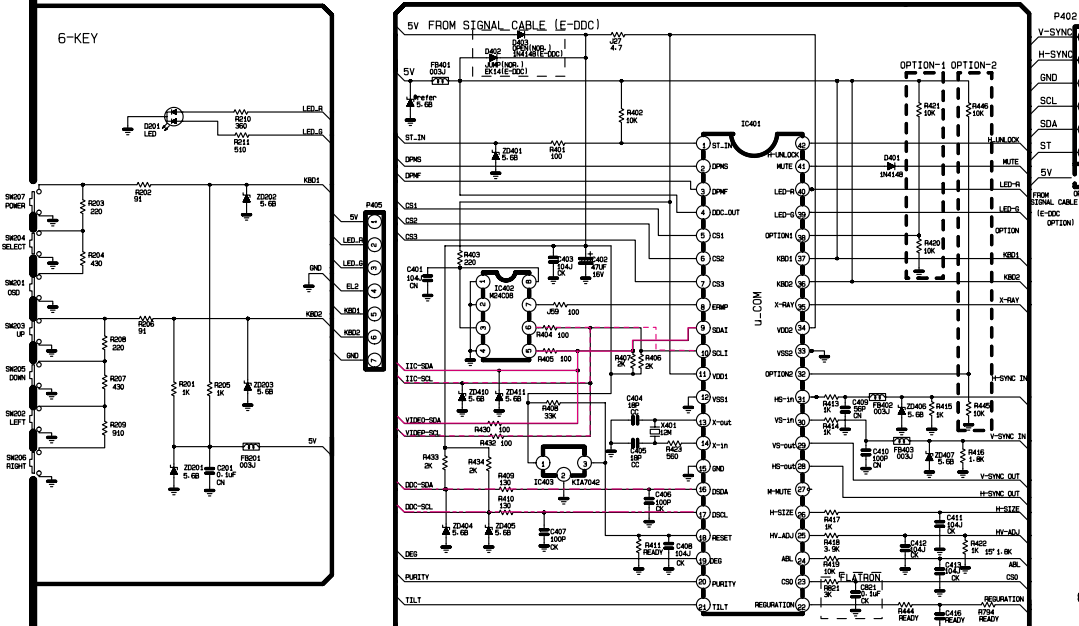
LM2469 Monolithic Triple 9nS high Gain CRT Driver



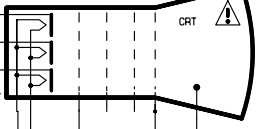
Connection Diagram



FB775G SCHEMATIC DIAGRAM 2002.01.18

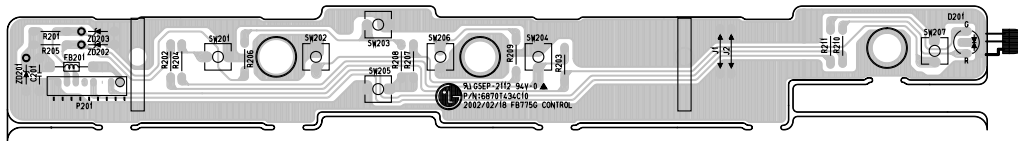


IMPORTANT SAFETY NOTICE
THE SYMBOL MARK OF THIS SCHEMATIC
DIAGRAM INCORPORATES SPECIAL FEATURES
IMPORTANT FOR PROTECTION FROM X-RADIATION
EMISSION AND ELECTRICAL SHOCK HAZARDS.
WHEN SERVICING IT IS ESSENTIAL THAT ONLY
MANUFACTURER'S SPECIFIED PARTS BE USED FOR
THE CRITICAL COMPONENTS IN THE SYMBOL.

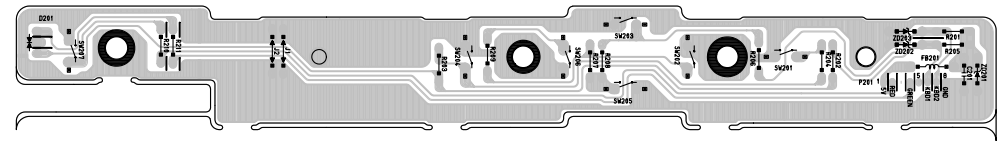


HT(6.3V) 64

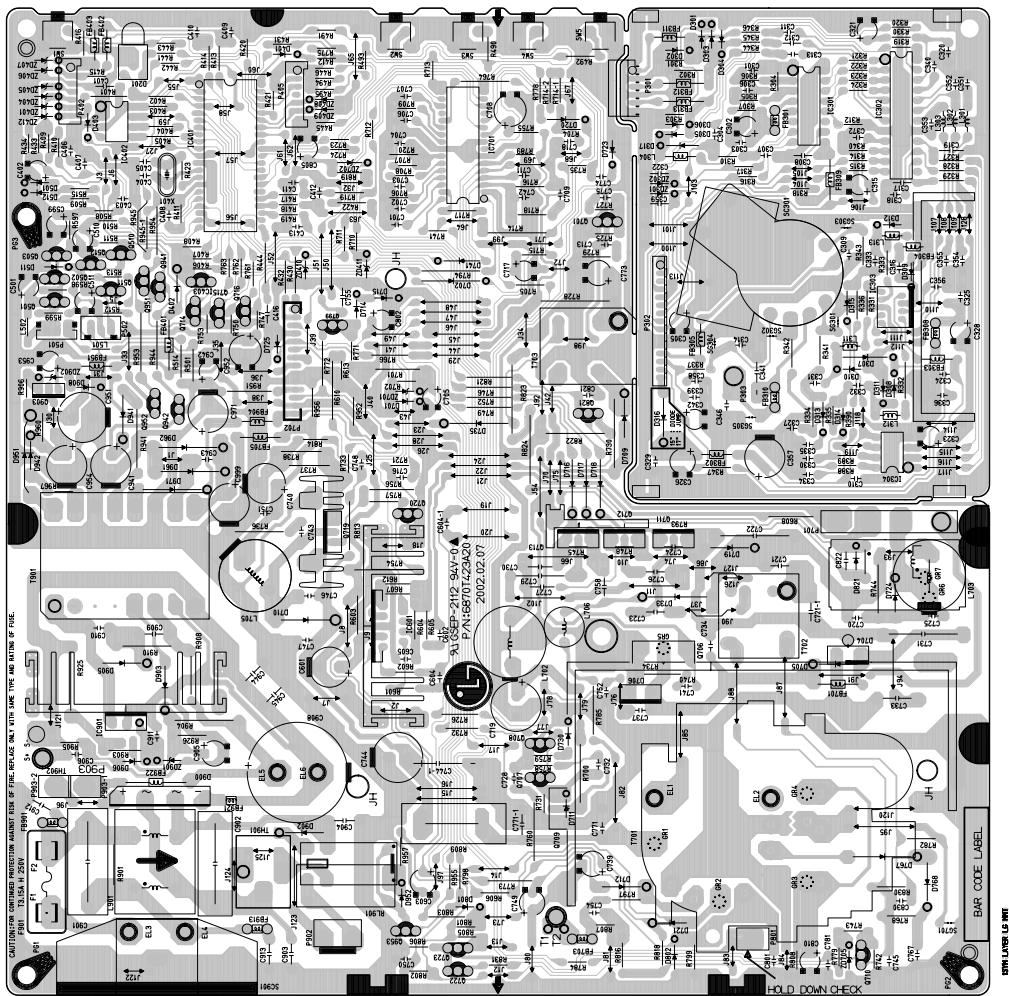
1. CONTROL BOARD (Component Side)



2. CONTROL BOARD (Solder Side)



3. MAIN BOARD (Component Side)



4. MAIN BOARD (Solder Side)

