

COLOR MONITOR SERVICE MANUAL

CHASSIS NO. : CA-119

FACTORY MODEL: CG773H

MODEL: EV730

CAUTION

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



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SPECIFICATIONS

1. PICTURE TUBE

Size	: 17 inch (Flat Square Tube)
Deflection Angle	: 90°
Neck Diameter	: 29.1 mm
Dot Pitch	: 0.27 mm
Diagonal Inch	: 16.06"
Face Treatment	: Non Glare
Viewer Size	: 326.7 x 245.5

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

15-pin D-Sub 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, 2.0A Max.

3-2. Power Consumption

MODE	POWER CONSUMPTION	LED COLOR
MAX	85W	GREEN
NORMAL (ON)	73 W	GREEN
STAND-BY	less than 15 W	AMBER
SUSPEND	less than 15 W	
OFF	less than 8W	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 - 315 x 230 mm (12.40" x 9.06")

4-2. Display Color : Full Colors

4-3. Display Resolution : 1280 x 1024 / 60Hz (Non-Interlace)

4-4. Video Bandwidth : 110 MHz

5. ENVIRONMENT

5-1. Operating Temperature: 0°C ~ 40°C (32°F ~ 104°F) (Ambient)

5-2. Relative Humidity : 8%~ 80% (Non-condensing)

5-3. Altitude : Non Operating - 35,000ft Operating - 10,000ft

6. DIMENSIONS

Width	: 404.0 mm (15.90 inch)
Depth	: 420.4 mm (16.55 inch)
Height	: 421.0 mm (16.57 inch)-with T/S

7. WEIGHT

Net Weight	: 15.0 kg (33.07 lbs.)
Gross Weight	: 17.8 kg (39.24 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's 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 25.5kV. The following steps describe how to measure the high voltage and how to prevent X-radiation.

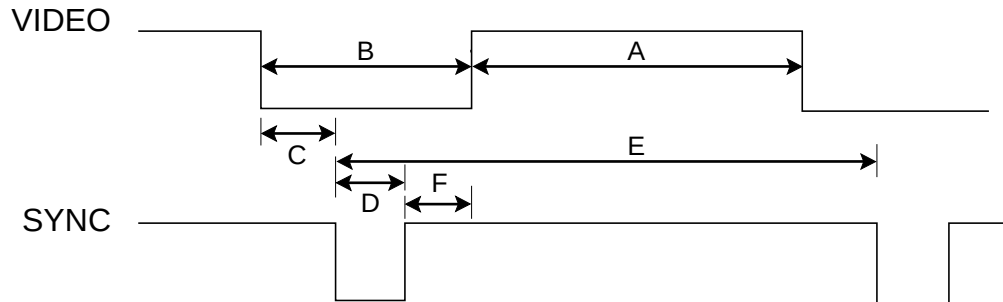
Note : It is important to use an accurate high voltage meter calibrated periodically.

- To measure the high voltage, use a high impedance high voltage meter, connect (–) to chassis and (+) to the CDT anode cap.
- Set the brightness control to maximum point at full white pattern.
- Measure the high voltage. The high voltage meter should be indicated at the factory recommended level.
- If the meter indication exceeds the maximum level, immediate service is required to prevent the possibility of premature component failure.
- To prevent X-radiation possibility, it is essential to use the specified picture tube.

CAUTION:

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

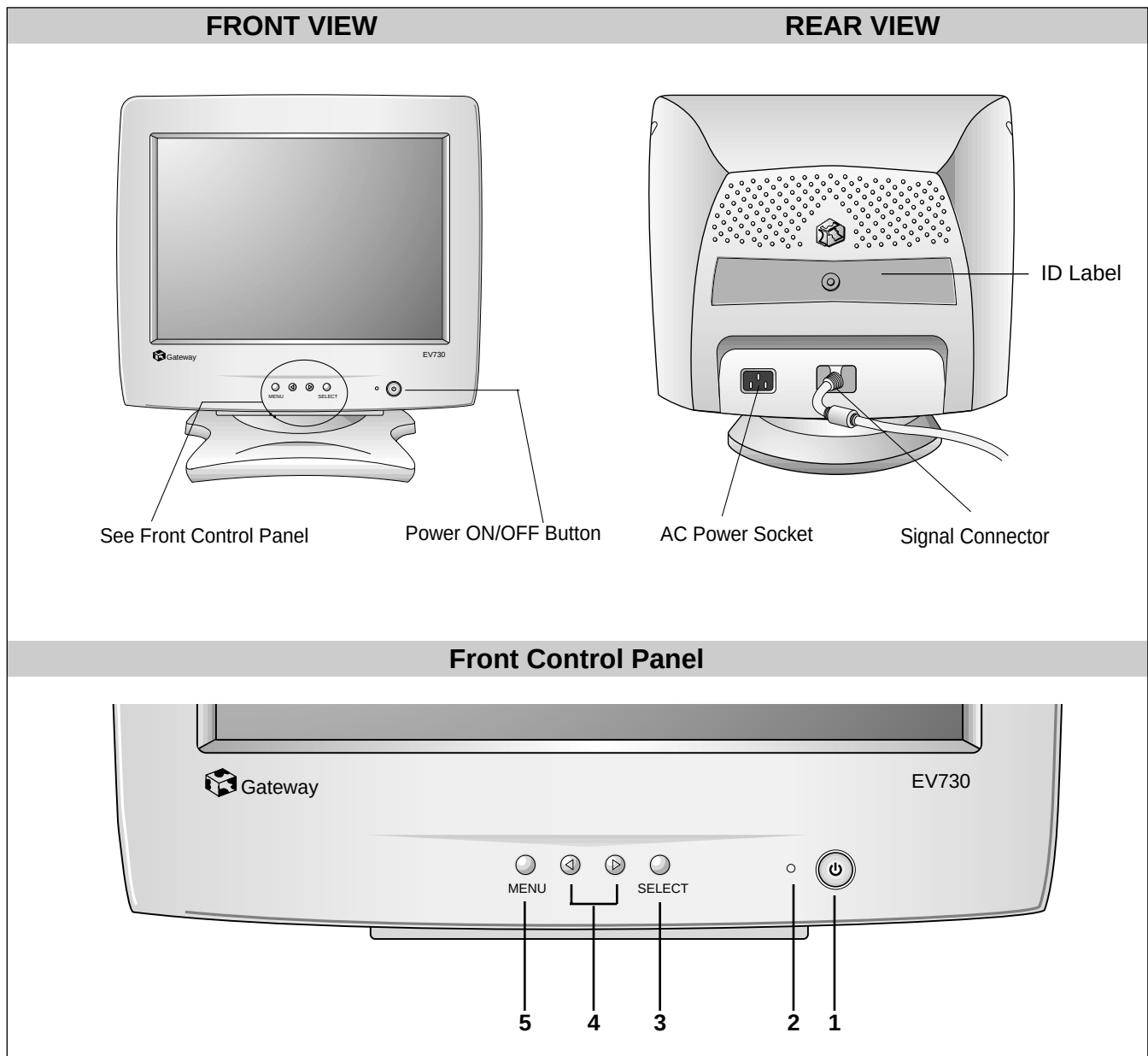
TIMING CHART



MODE			FACTORY PRESET MODE								
			MARK	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6	MODE 7	MODE 8
HORIZONTAL	Sync Polarity			—	—	—	+	+	—	+	+
	Frequency	kHz		31.469	37.500	31.470	37.879	46.875	48.363	60.023	63.981
	Total Period	μs	E	31.778	26.667	31.776	26.400	21.333	20.677	16.660	15.630
	Video Active Time	μs	A	25.422	20.317	25.421	20.000	16.162	15.754	13.003	11.852
	Blanking Time	μs	B	6.356	6.349	6.355	6.400	5.172	4.923	3.657	3.778
	Front Porch	μs	C	0.636	0.508	0.636	1.000	0.323	0.369	0.203	0.444
	Sync Duration	μs	D	3.813	2.032	3.813	3.200	1.616	2.092	1.219	1.037
	Back Porch	μs	F	1.907	3.810	1.907	2.200	3.232	2.462	2.235	2.296
VERTICAL	Sync Polarity			—	—	+	+	+	—	+	+
	Frequency	Hz		59.940	75.00	70.000	60.317	75.000	60.004	75.029	60.020
	Total Period	ms	E	16.683	13.333	14.269	16.579	13.333	16.666	13.328	16.661
	Video Active Time	ms	A	15.253	12.800	12.712	15.840	12.800	15.880	12.795	16.005
	Blanking Time	ms	B	1.430	0.533	1.557	0.739	0.533	0.786	0.533	0.656
	Front Porch	ms	C	0.318	0.027	0.382	0.026	0.021	0.062	0.017	0.016
	Sync Duration	ms	D	0.064	0.080	0.063	0.106	0.064	0.124	0.050	0.047
	Back Porch	ms	F	1.048	0.427	1.112	0.607	0.448	0.600	0.466	0.594
Resolution				640 x 480 60Hz	640 x 480 75Hz	720 x 400 70Hz	800 x 600 60Hz	800 x 600 75Hz	1024 x 768 60Hz	1024 x 768 60Hz	1280 x 1024 60Hz
Recall				Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

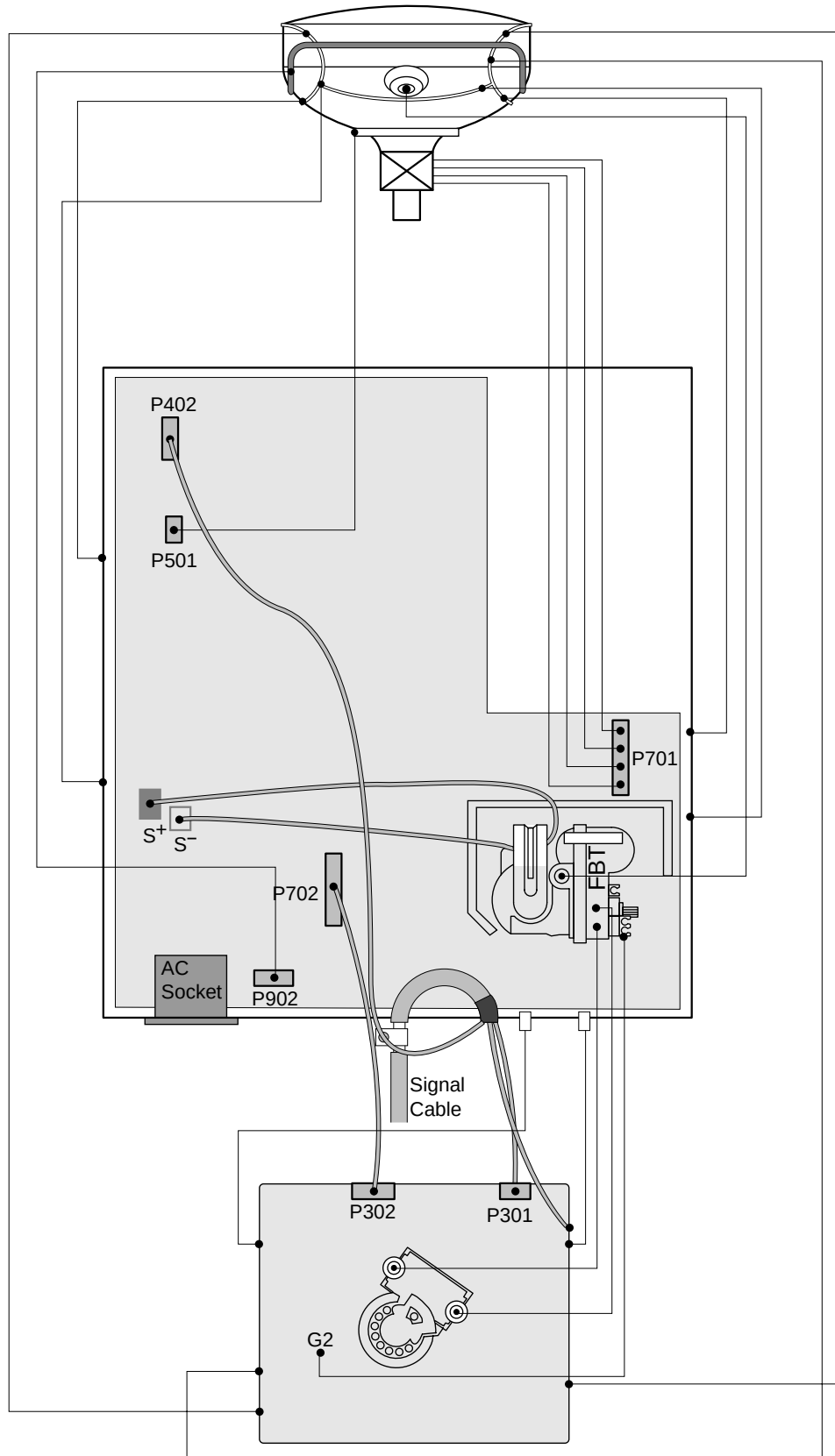
* 1~8 MODE : PRESET MODE

OPERATING INSTRUCTIONS

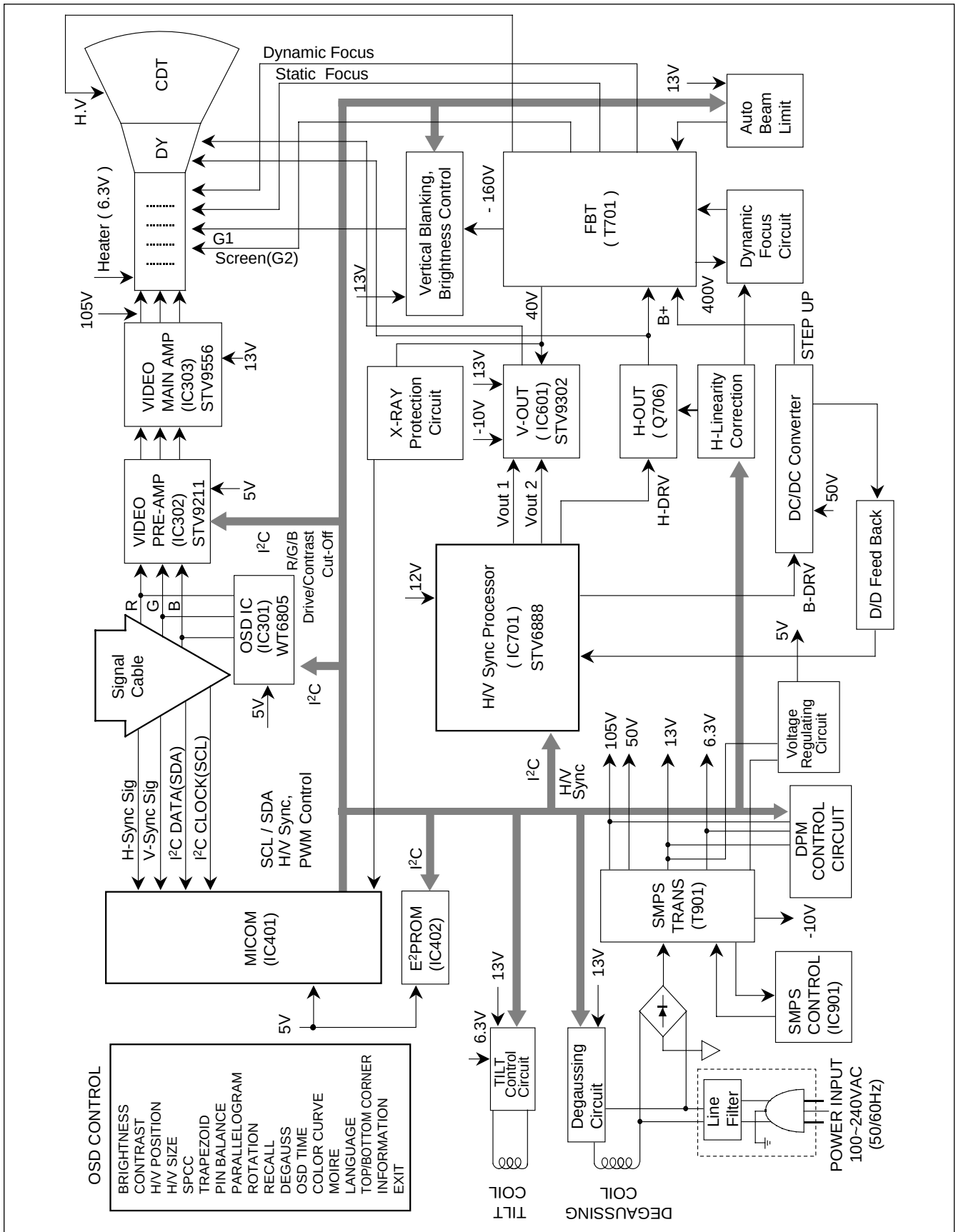


- 1. Power ON/OFF Button**
Use this button to turn the monitor ON or OFF.
- 2. Power Indicator**
This indicator lights up green when the monitor operates normally; in DPMS (Energy Saving) mode, - stand-by, suspend, or power off mode - its color changes to orange, and if abnormal or damaging circuit turns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



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 STV9302(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 STV6888(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 STV6888(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 $\mathcal{R}$ 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 B⁺ Voltage.

- 1) Display cross hatch pattern at Mode 7.
- 2) Adjust voltage to $51.5V \pm 0.5V_{dc}$ with **VR901**.

2. Adjustment for High-Voltage.

- 1) Display cross hatch pattern at Mode 7.
- 2) DIST.ADJ. → CTRL PWM → High Voltage Command.
- 3) Adjust High Voltage to $25.5kV \pm 0.1 kV_{dc}$.
- 4) Press Enter Key.

3. Adjustment for Factory Mode (Preset Mode).

- 1) Display cross hatch pattern at Mode 7.
- 2) Run alignment program for CG773H 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 → 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) DIST. ADJ. → BALANCE command.
- 11) Adjust balance of side-pincushion as arrow keys to be the best condition.
- 12) Display cross hatch pattern at Mode 1~8.
- 13) DIST. ADJ. → FOS. ADJ command.
- 14) Adjust V-SIZE as arrow keys to $230 \pm 2mm$.
- 15) Adjust V-POSITION as arrow keys to center of the screen.
- 16) Adjust H-SIZE as arrow keys to $315 \pm 2mm$.
- 17) Adjust H-POSITION as arrow keys to center of the screen.
- 18) Adjust S-PCC (Side-Pincushion) as arrow keys to be the best condition.
- 19) Adjust TRAPEZOID as arrow keys to be the best condition.
- 20) Save of the Mode.
- 21) Save of the System.
- 22) 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 7.
- 6) COLOR ADJ. → BIAS ADJ. 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) to position.
- 8) Set Brightness to Max and Sub-Brightness to 205(CD) position. Adjust G2(Screen) command to $0.7 \pm 0.05FL$ of the raster luminance. If it's not green color, the monitor must be repaired.
- 9) 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.
- 10) Adjust SUB-Brightness command to $0.7 \pm 0.1FL$ of the raster luminance.
- 11) Display color 15,0 Full white pattern at Mode 7.
- 12) DRIVE ADJ command.

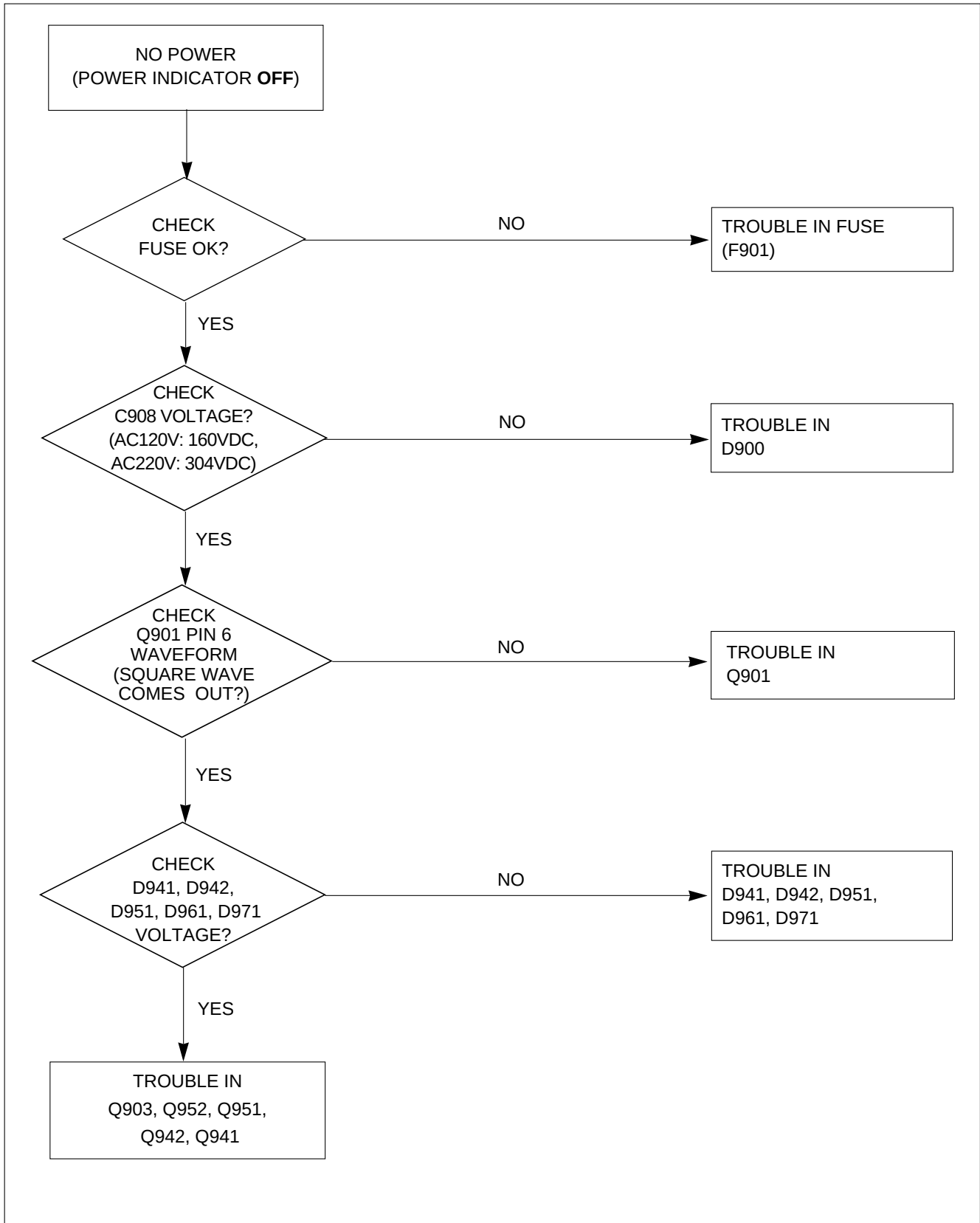
- 13) Set Contrast and SUB-Contrast to 200(C8) position.
- 14) Set B-DRIVE to 150(96) at DRIVE of the alignment program.
- 15) Adjust R-DRIVE and G-DRIVE command to white balance $x=0.283\pm0.003$ and $y=0.298\pm0.003$ on the White Balance Meter with PC arrow keys.
- 16) Adjust SUB-CONTRAST command to $50\pm2FL$ of the color 15,0 Window pattern (70x70mm) luminance at mode 7 and save in color 1.
- 17) Display color 15,0 full white pattern at Mode 7.
- 18) COLOR ADJ. → LUMINANCE → ABL command.
- 19) Adjust ABL to $35\pm1FL$ of the luminance.
- 20) Exit from the program.

5. Adjustment for Focus.

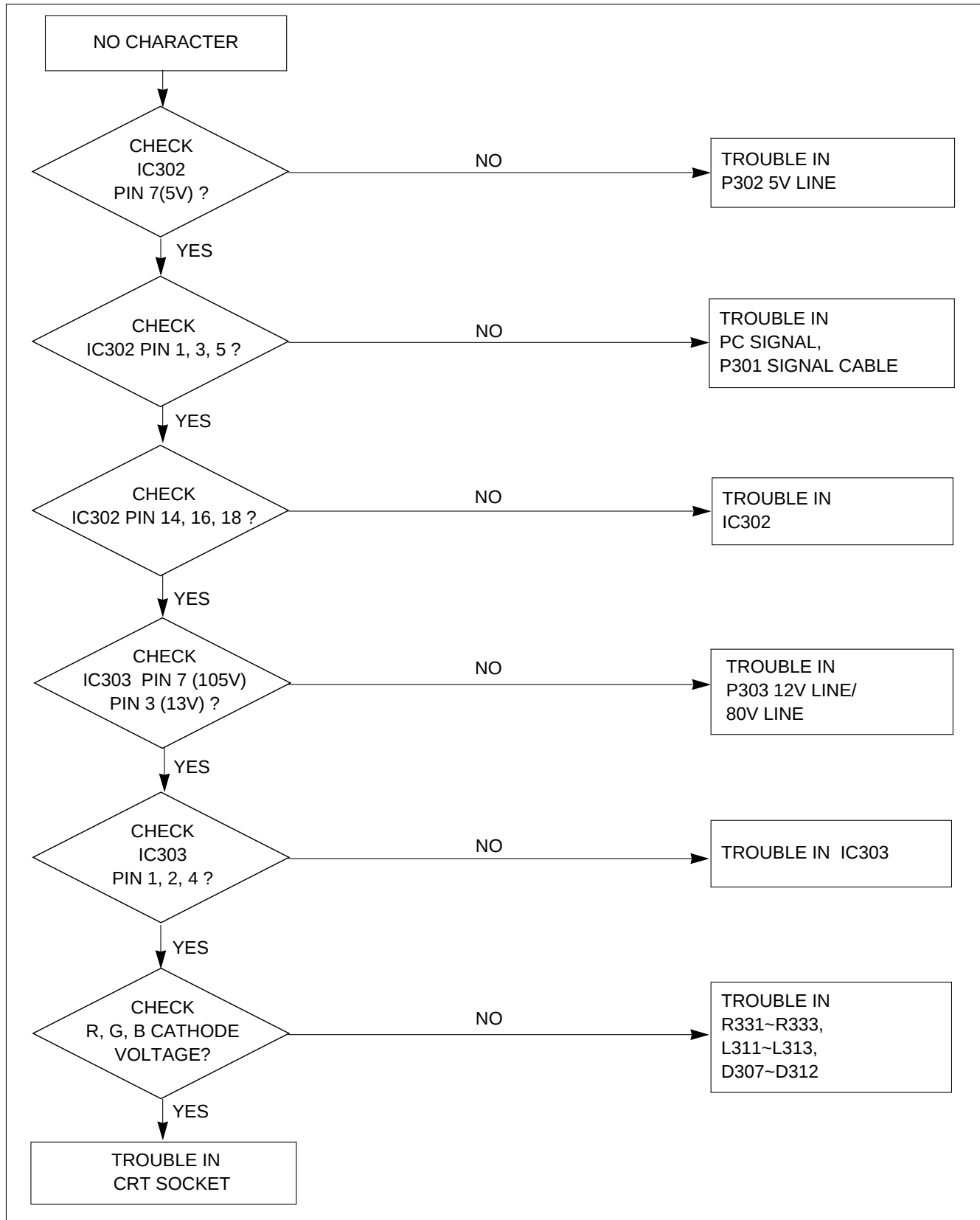
- 1) Display H character in full screen at Mode 7.
- 2) Adjust two Focus control on the FBT that focus should be the best condition.

TROUBLESHOOTING GUIDE

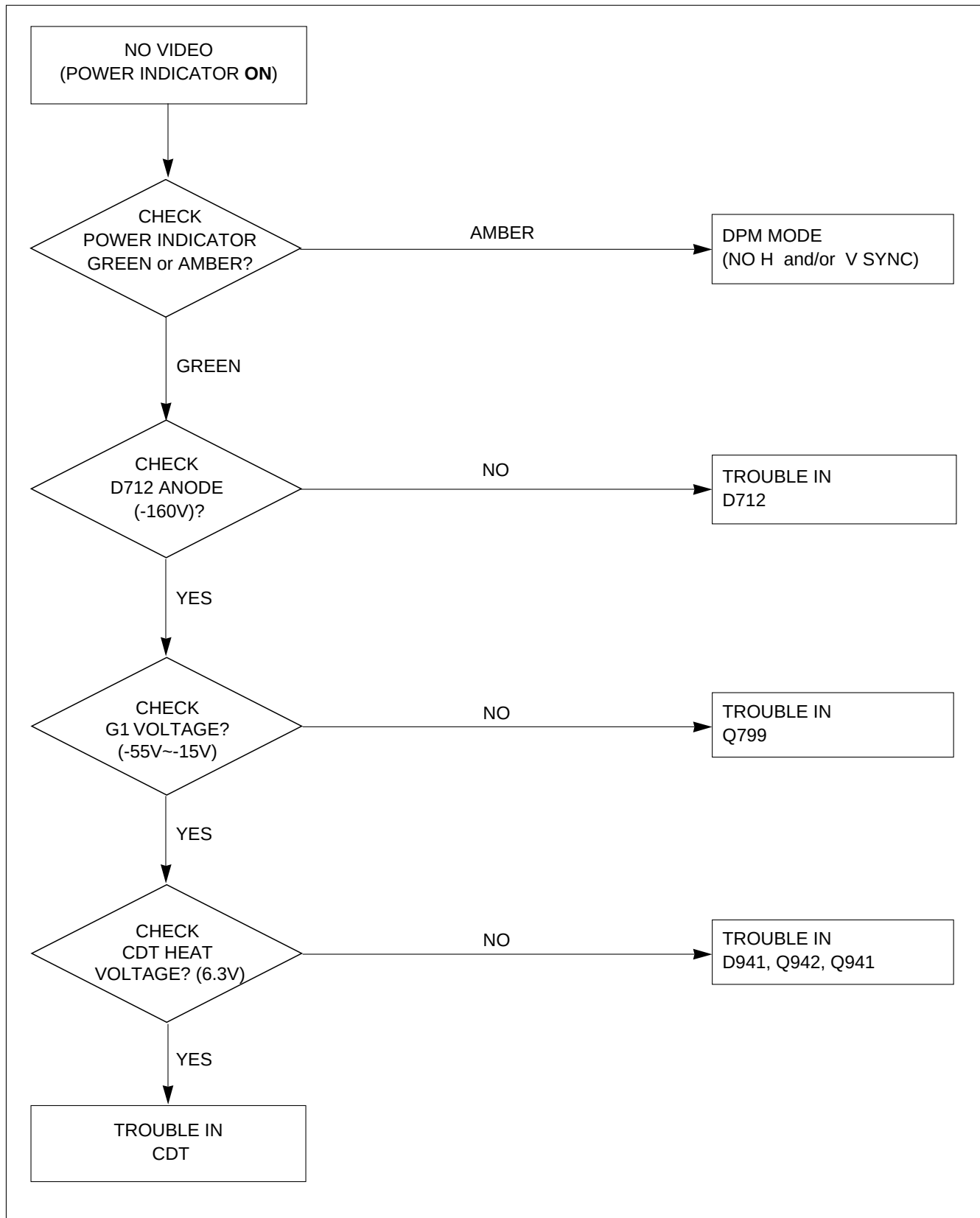
1. NO POWER



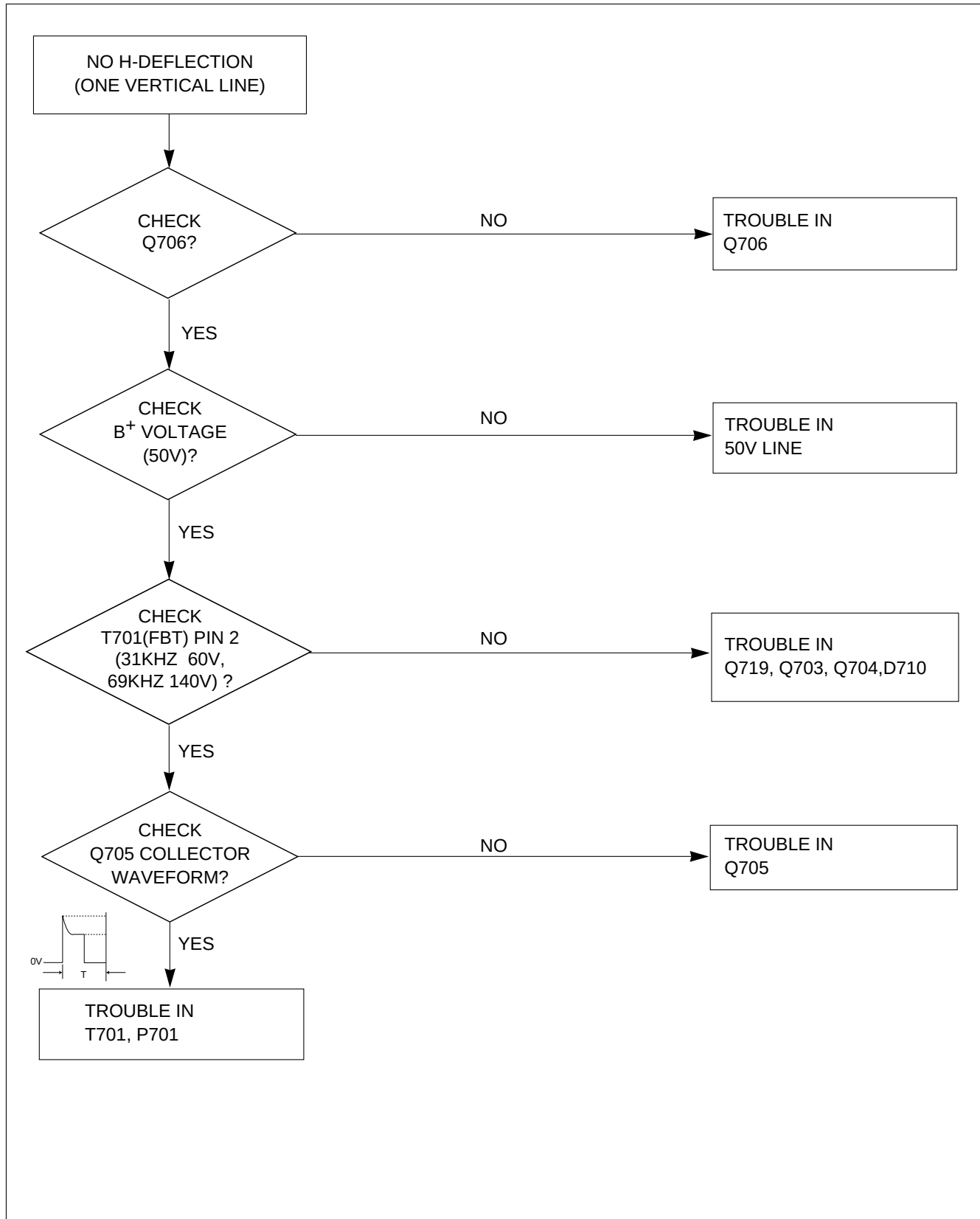
2. NO CHARACTER



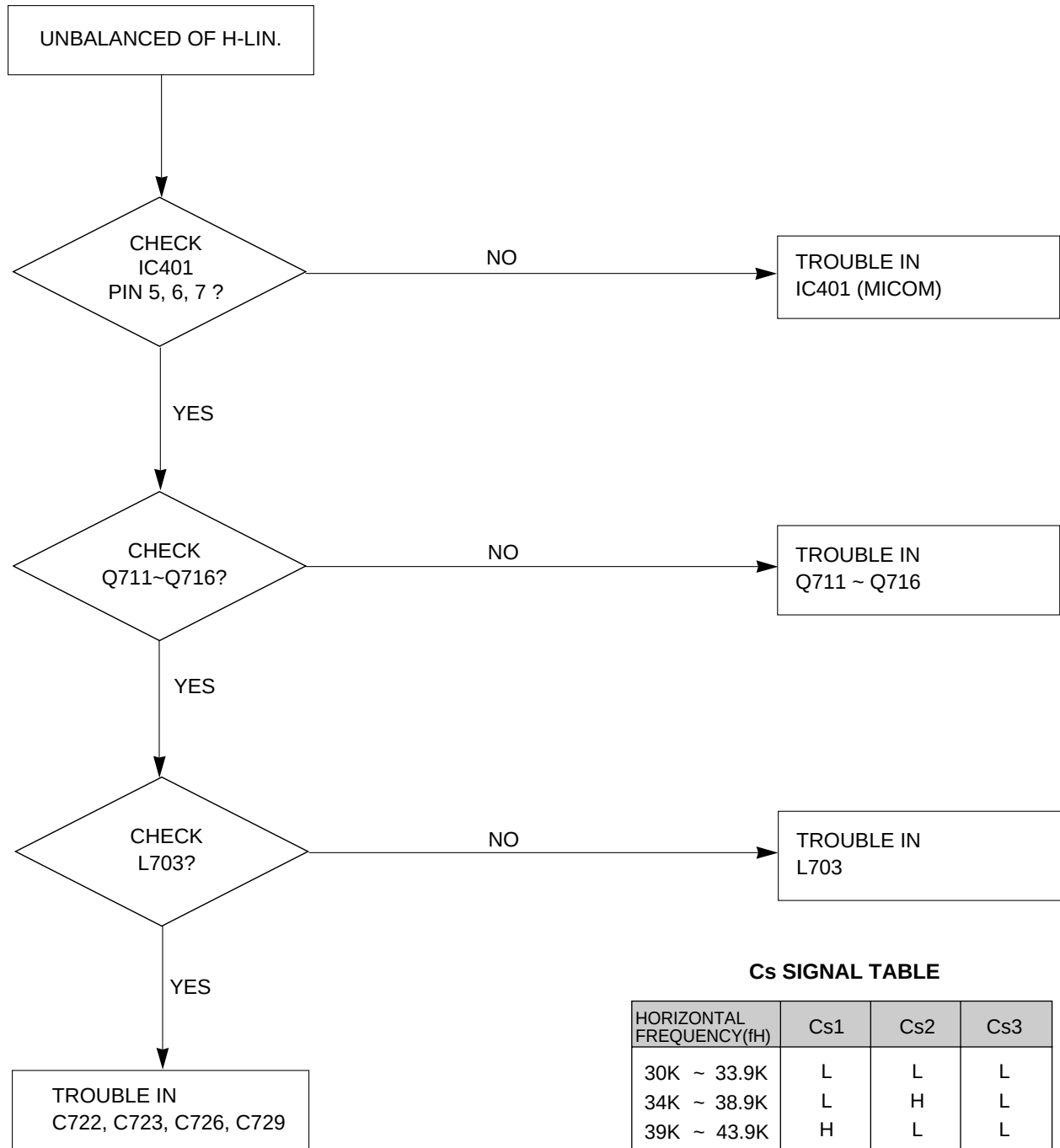
3. NO RASTER



4. NO HORIZONTAL DEFLECTION



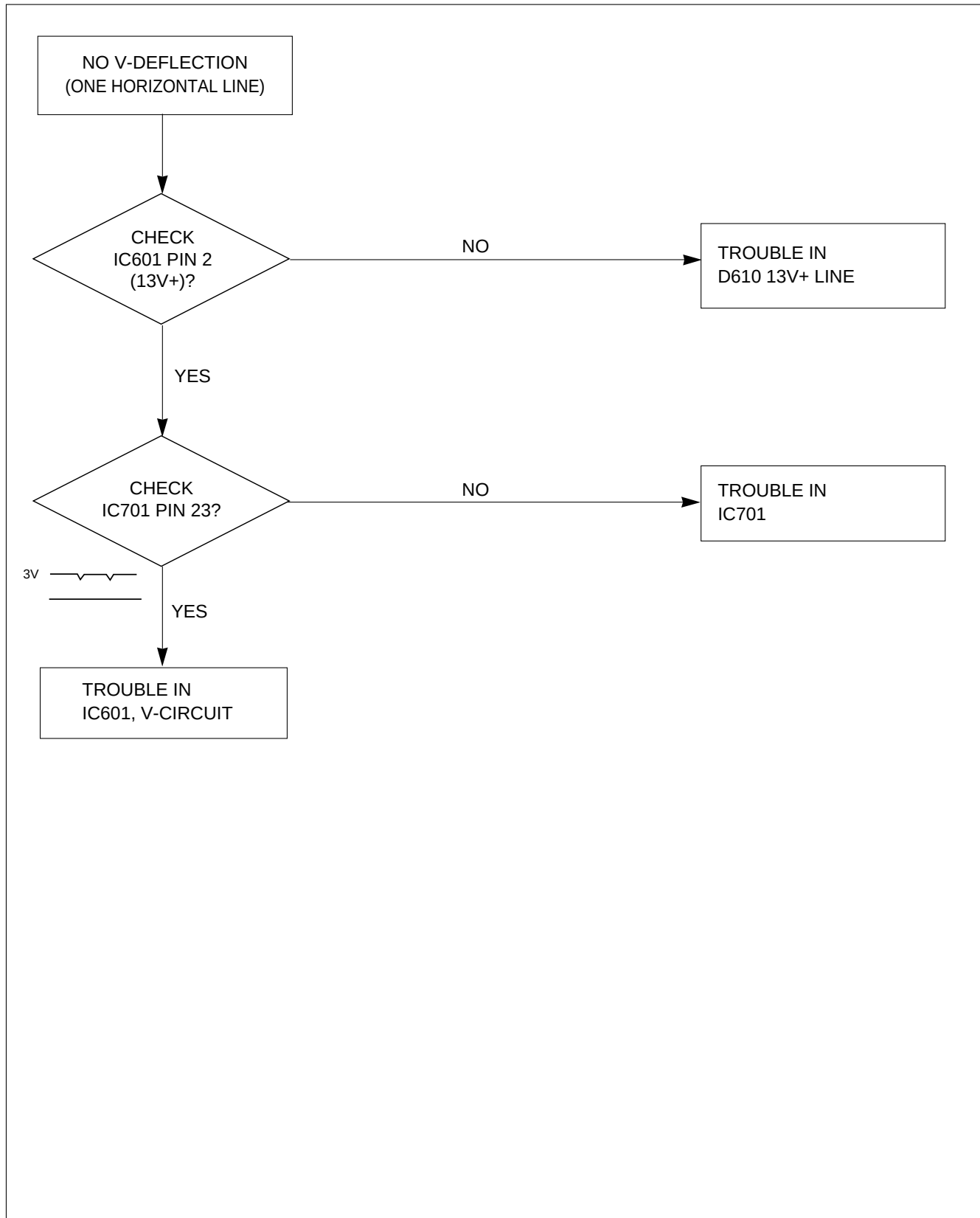
5. TROUBLE IN H-LINEARITY



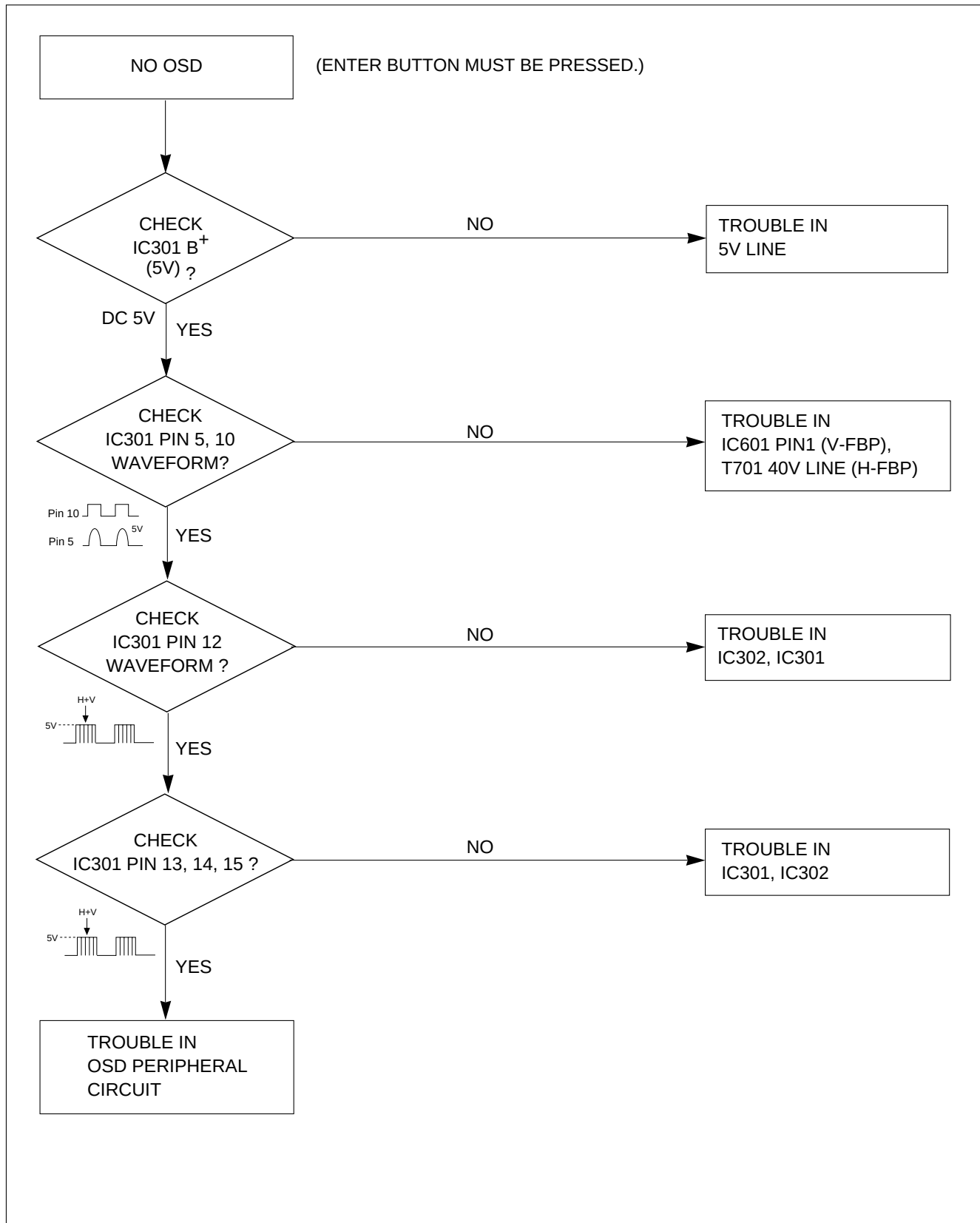
Cs SIGNAL TABLE

HORIZONTAL FREQUENCY(fH)	Cs1	Cs2	Cs3
30K ~ 33.9K	L	L	L
34K ~ 38.9K	L	H	L
39K ~ 43.9K	H	L	L
44K ~ 48.9K	H	L	H
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

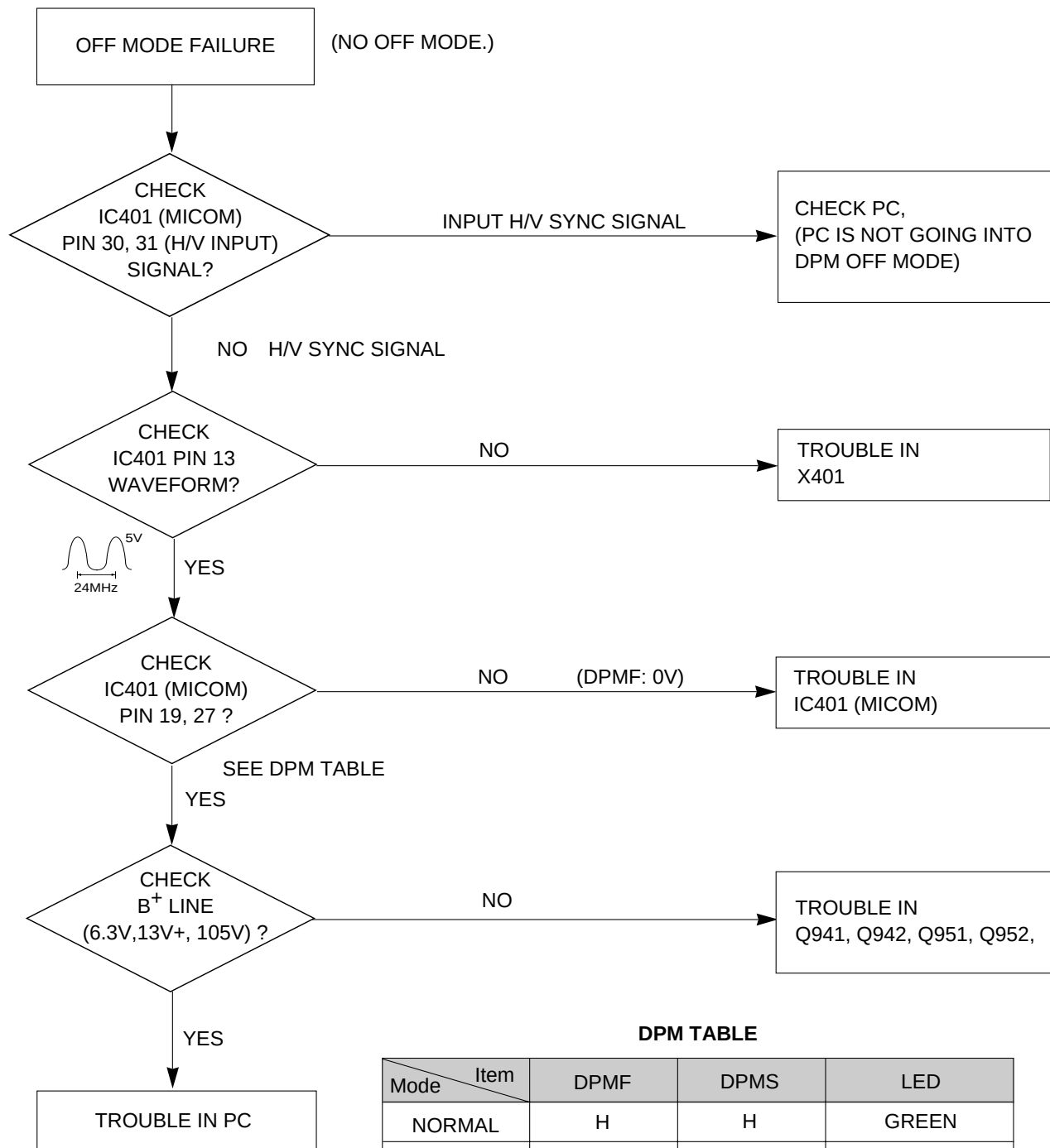
6. NO VERTICAL DEFLECTION



7. TROUBLE IN OSD



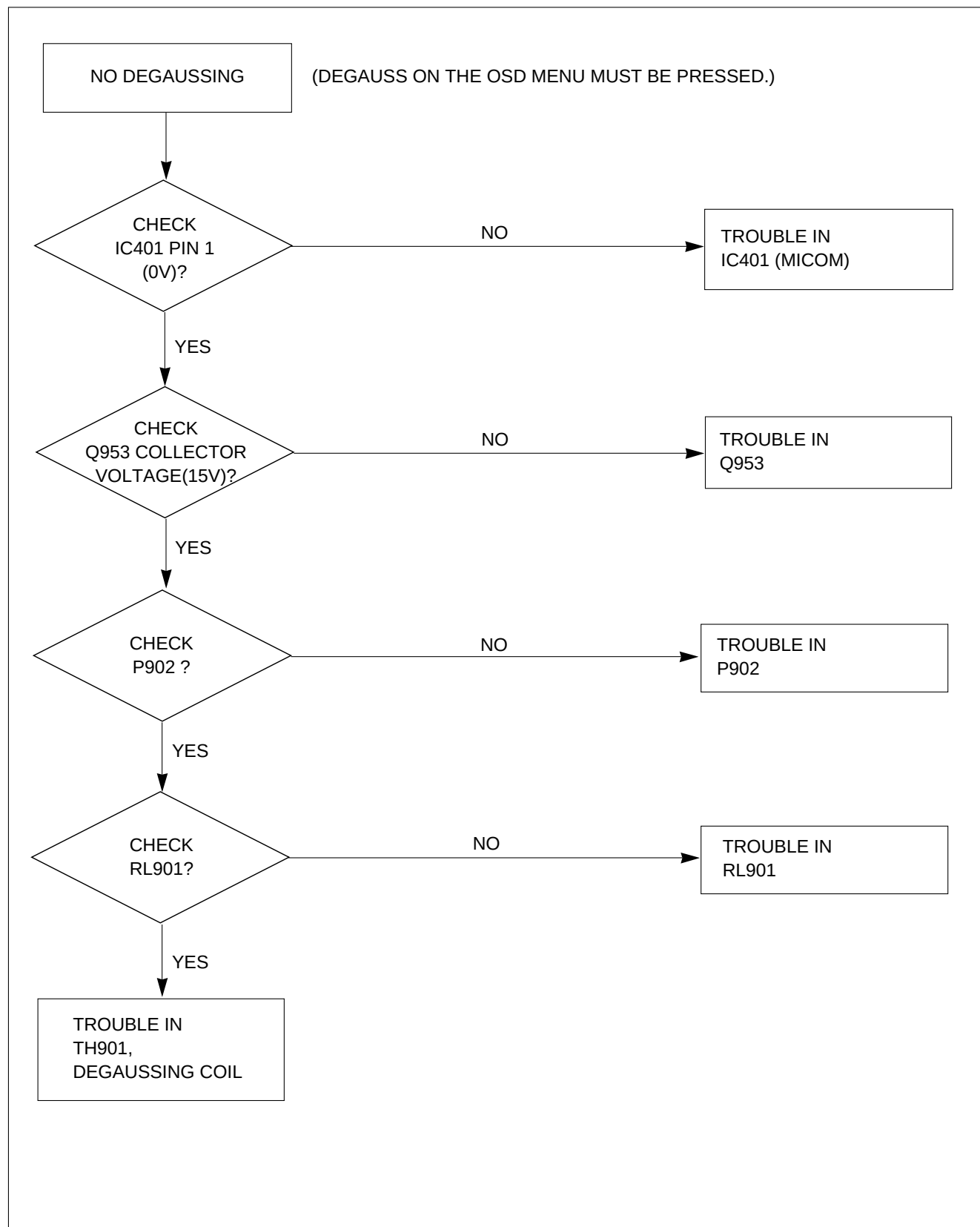
8. TROUBLE IN DPM



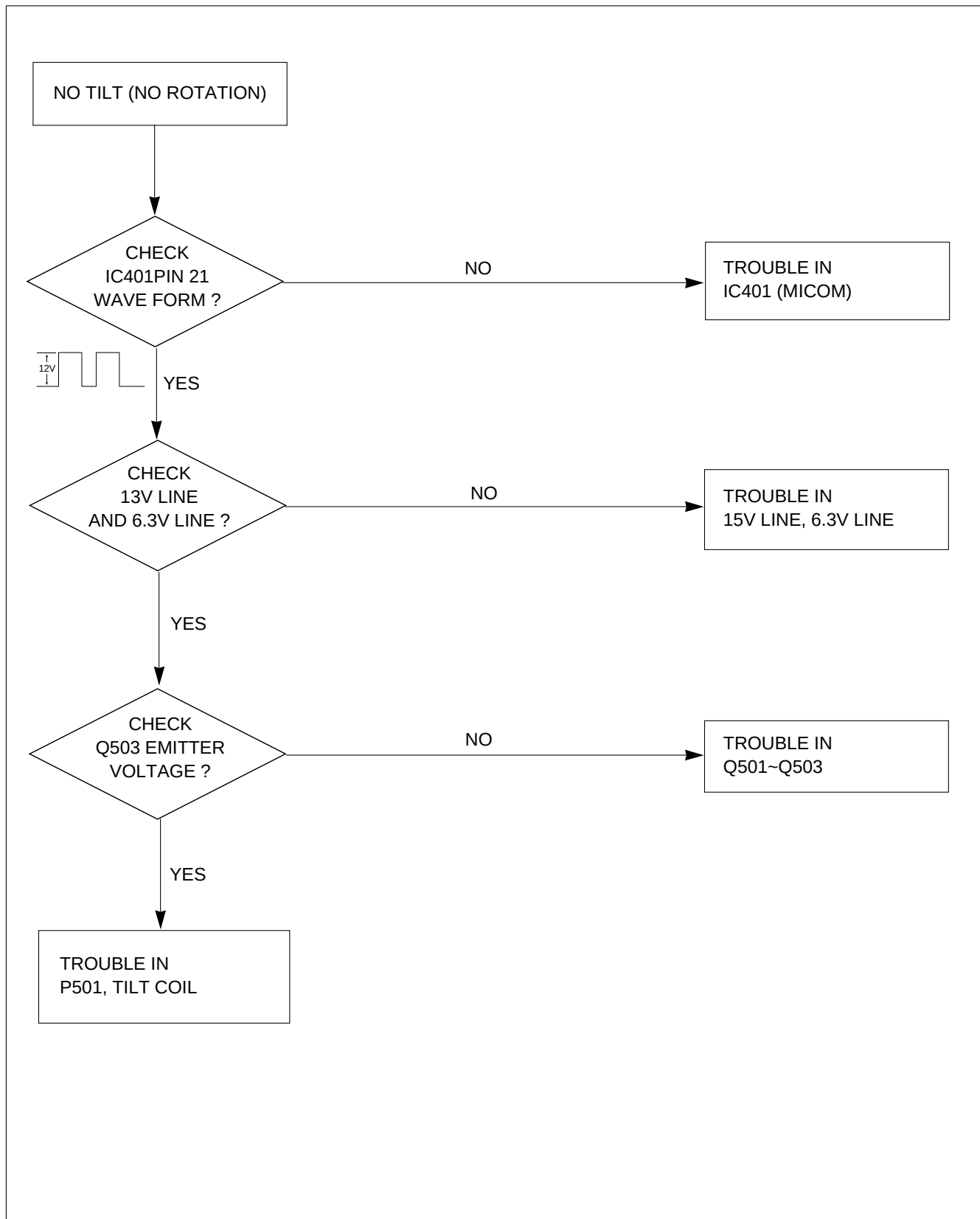
DPM TABLE

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

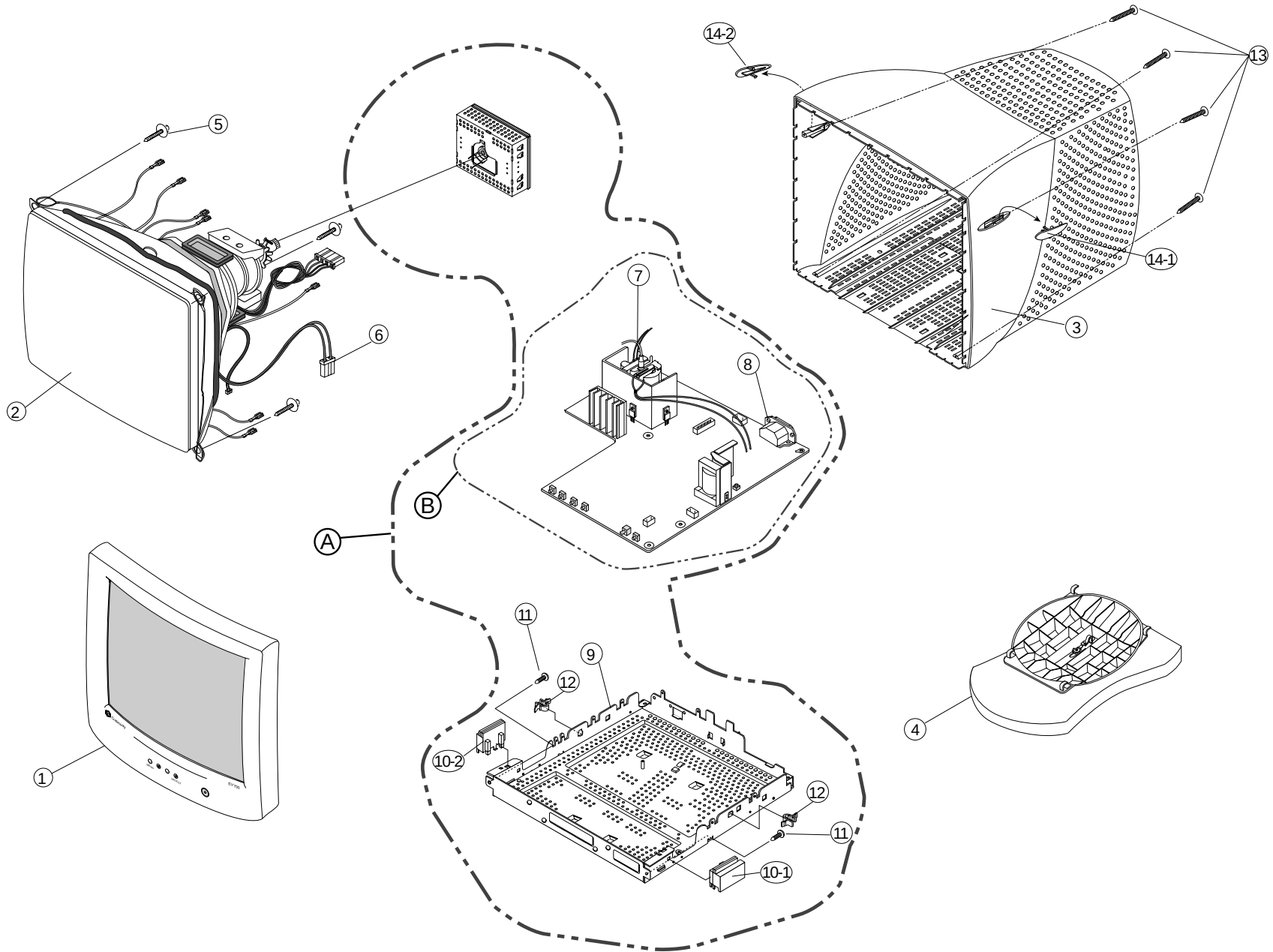
9. NO DEGAUSSING



10. NO TILT (NO ROTATION)



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Ref. No.	Part No.	Description
1	3091TKC064E	CABINET ASSEMBLY, CG773H G/WAY C58B 320T 8C794 SILVER SPRAY MX LOCAL
2	6318L17005A	CDT(CIRC), M41LFQ803X55NLAA LG-PHILIPS 70KHZ 29.1MM
3	3809TKC037D	BACK COVER ASSEMBLY, EG784 C037 8C793,320T
4	3043TKK077E	TILT SWIVEL ASSEMBLY, EG784G B050/T056 8C793,HF350U
5	339-002K	SCREW ASSEMBLY, TAPTITE P TYPE D5.0 L25.0 MSWR/FZMY .
6	6140TC3004A	COIL, DEGAUSSING, 1090MM 16.5OHM 0.4MM 110T 17" WITH EARTH
7	6174T11004A	FBT (FLY BACK TRANSFORMER), 1055A, CB777H LG-PHILIPS 17"/70KHZ FST
8	6620TKB002A	SOCKET(CIRC), POWER, BAE EUN AC UNIVERSAL 3PIN BLACK
9	4950TKS155Q	METAL, SHIELD BOTTOM "N"CKD CG773H
10-1	4810TKK150A	BRACKET, CN771C SUPPORTER BOT.(RIGHT)
10-2	4810TKK151A	BRACKET, CN771C SUPPORTER BOT.(LEFT)
11	332-102F	SCREW, PTP+4*20BP(MSWR/FZMY)
12	4930TKK031C	HOLDER, PCB FIX , PC+ABS
13	332-122F	SCREW, DRAWING, D4.0 L16.0 MSWR/BK .
14-1	3550TKK183B	COVER, EG784 SCREW 8C793,320T
14-2	3550TKK184B	COVER, EG784 SCREW 8C793,302T(L)
A	3313T17270B	MAIN TOTAL ASSEMBLY, CG773H G/WAY CA-119
B	6871TMT344B	PWB(PCB) ASSEMBLY, MAIN, CG773H KLUSMM G/WAY CA-119 TOTAL

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. 09. 13.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
CAPACITORS				
		C301	0CK1040K945	0.1UF 50V Z F TR
		C302	0CK1040K945	0.1UF 50V Z F TR
		C303	0CK1040K945	0.1UF 50V Z F TR
		C305	181-288C	MKT 100V 224JTR PHS 26224
		C306	0CE107CF638	100UF SHL,SD 16V M FM5 TP 5
		C307	0CK1040K945	0.1UF 50V Z F TR
		C308	0CK1040K945	0.1UF 50V Z F TR
		C309	0CK1040K945	0.1UF 50V Z F TR
		C310	0CE106CF638	10UF SHL,SD 16V M FM5 TP 5
		C311	0CK1040K945	0.1UF 50V Z F TR
		C312	0CK1040K945	0.1UF 50V Z F TR
		C314	0CK1010K515	100PF 50V K B TR
		C315	0CK10202515	1000PF D 2KV 10% TR B(Y5P)
		C325	0CK1040K945	0.1UF 50V Z F TR
		C326	0CK4710W515	470P 500V K B TS
		C327	0CK10302940	0.01M 2KV Z F S
		C328	0CK10302945	0.01UF 2KV Z F TR
		C330	181-288E	MKT 100V 474JTR PHS 26474
		C331	0CC2200W415	22PF 500V J NP0 TR
		C332	0CK10301945	10000PF D 1KV Z F(Y5V) TR
		C346	0CE475CP638	4.7UF SHL,SD 160V M FM5 TP 5
		C380	0CE107CF638	100UF SHL,SD 16V M FM5 TP 5
		C389	0CE475CP638	4.7UF SHL,SD 160V M FM5 TP 5
		C390	0CK10301945	10000PF D 1KV Z F(Y5V) TR
		C394	0CN1520F569	1500P 16V K X TA52
		C395	0CK1520K515	1500P 50V K B TS
		C396	0CK1520K515	1500P 50V K B TS
		C397	0CE107CF638	100UF SHL,SD 16V M FM5 TP 5
		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
		C409	0CK1010K515	100PF 50V K B TR
		C410	0CK1010K515	100PF 50V K B TR
		C416	0CE475CK638	4.7UF SHL,SD 50V M FM5 TP 5
		C501	0CE106CF638	10UF SHL,SD 16V M FM5 TP 5
		C599	0CE225CK638	2.2UF SHL,SD 50V M FM5 TP 5
		C601	0CE477CF618	470UF SHL 16V M FL TP5
		C603	0CE227CK618	220U SHL 50V M FL TP5
		C606	0CQ4721N419	0.0047U 100V J POLY NI TP5
		C611	0CE477CF618	470UF SHL 16V M FL TP5
		C613	181-288Q	MKT 100V 154JTR PHS26154
		C614	0CE475CK638	4.7UF SHL,SD 50V M FM5 TP 5
		C615	0CQ4721N419	0.0047U 100V J POLY NI TP5
		C618	0CK1040K945	0.1UF 50V Z F TR
		C701	181-288B	MKT 100V 104JTR PHS26104
		C702	0CE476CK638	47UF SHL,SD 50V M FM5 TP 5
		C703	0CK8210K515	820P 50V K B TS
		C704	0CQ1031N419	0.01U 100V J POLY NI TP
		C705	0CE475CK638	4.7UF SHL,SD 50V M FM5 TP 5
		C706	0CE105CK638	1UF SHL,SD 50V 20% FM5 TP 5

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		C708	0CE227CH638	220UF SHL,SD 25V M FM5 TP 5
		C709	0CE225CK638	2.2UF SHL,SD 50V M FM5 TP 5
		C710	181-288Q	MKT 100V 154JTR PHS26154
		C711	181-288E	MKT 100V 474JTR PHS 26474
		C712	181-288B	MKT 100V 104JTR PHS26104
		C713	0CK2210K515	220P 50V K B TS
		C714	0CE107CF638	100UF SHL,SD 16V M FM5 TP 5
		C715	181-288N	MKT 100V 103JTR PHS86103
		C717	0CE476CF638	47UF SHL,SD 16V M FM5 TP 5
		C719	0CZZTAB001F	SHL-BP SYE / SWE 50V 3.3UF 20
		C720	0CK27101515	270P 1KV K B TS
		C722	181-303R	304J 31.0*21.0*13.0*20.0 250V
		C723	181-305C	154J 19.0*14.0*8.0*10.0 250V
		C724	0CK1040K945	0.1UF 50V Z F TR
		C725	0CK1510W515	150PF 500V K B TR
		C726	181-305H	394J 19.0*19.0*12.0*10.0 250V
		C727	0CN1040K949	0.1M 50V Z F TA52
		C728	0CQ5621N419	5600P 100V J POLY NI TP
		C729	181-305L	684J 26.0*19.0*12.5*15.0 250V
		C730	0CN1040K949	0.1M 50V Z F TA52
		C731	0CBZTBU004H	5600PF D 2.5KV H M/PP NI FM20
		C732	181-288N	MKT 100V 103JTR PHS86103
		C733	0CBZTBU003H	362J 20.0*12.0*7.0*10.0 800V
		C734	0CE2266F618	22M SMS 16V M FM5 TP(5)
		C736	0CQ4721N419	0.0047U 100V J POLY NI TP5
		C737	0CK10102515	100PF D 2KV 10% B(Y5P) TR
		C738	181-302L	682J 19.5*12.0*7.0*10.0 250V
		C739	0CE106EK638	10UF KMG 50V M FM5 TP 5
		C740	0CE227CL618	220U SHL 63V M FL TP5
		C741	0CZZTFT002B	ECQV1H154JZ3 154J 50V TP5.0 M
		C742	181-288K	MKT 100V 683JTR PHS26683
		C743	0CE334CK638	0.33UF SHL,SD 50V 20% TP 5 FM
		C744	0CZZTAB005A	SMSHR SYE / SWE 160V 47UF 20%
		C745	0CK5610W515	560P 500V K B TS
		C746	0CK3310W515	330P 500V K B TS
		C748	0CK1510W515	150PF 500V K B TR
		C749	0CE2256R638	2.2000UF SMS 250V M FM5 TP5
		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	0CQ1021N419	1000P 100V J POLY NI TP
		C759	0CQ1821N419	1800P 100V J POLY NI TP
		C767	0CK10301945	10000PF D 1KV Z F(Y5V) TR
		C771	0CK10301945	10000PF D 1KV Z F(Y5V) TR
		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
		C901	0CBZTBU002A	BULK PCX2 335 224K
		C902	0CBZTBU002A	BULK PCX2 335 224K
		C903	0CKZTTA003D	SC SAMWHA 250V 1000F M TAPING
		C904	0CKZTTA003A	SC E 222M 10.0FF7 250V TP7.5
		C905	0CKZTTA003A	SC E 222M 10.0FF7 250V TP7.5
		C906	0CKZTTA003D	SC SAMWHA 250V 1000F M TAPING

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		C907	OCKZTTA003C	SC E 472M 14.0FF7 250V TP7.5
		C908	OCEZTBU002D	180UF 25.4*35 SMH/HC 400V M V
		C909	OCK10301510	0.01M 1KV K B S
		C910	OCK10101515	100PF 1KV K B TR
		C911	OCE475CK638	4.7UF SHL,SD 50V M FM5 TP 5
		C913	OCE476CK638	47UF SHL,SD 50V M FM5 TP 5
		C914	OCZZTFT001P	ECQB1H153JM3 153J 50V TP5.0 M
		C915	OCK6810K515	680P 50V K B TS
		C917	OCK1020K515	1000PF 50V K B TR
		C918	OCN1040K949	0.1M 50V Z F TA52
		C941	OCE108CD618	1000UF SHL 10V M FL TP5
		C942	OCE107CF638	100UF SHL,SD 16V M FM5 TP 5
		C943	OCK56101515	560P 1KV K B TS
		C944	OCKZTTA003C	SC E 472M 14.0FF7 250V TP7.5
		C946	OCK1010W515	100P 500V K B TS
		C951	OCE108CF630	1000UF SHL 16V M FM5 BULK
		C952	OCE227CF638	220UF SHL,SD 16V M FM5 TP 5
		C953	OCE107CF638	100UF SHL,SD 16V M FM5 TP 5
		C954	OCE108CF630	1000UF SHL 16V M FM5 BULK
		C971	OCE476CN618	47UF SHL 100V M FL TP5
		C999	OCE227CL618	220U SHL 63V M FL TP5
DIODEs				
		D201	ODL591000AB	KING BRIGHT L-59BL/1YGW BK YE
		D301	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D302	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D303	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D304	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D305	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D306	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D307	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D308	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D309	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D310	ODS124409AA	1SS244 TP ROHM KOREA
		D311	ODS124409AA	1SS244 TP ROHM KOREA
		D312	ODS124409AA	1SS244 TP ROHM KOREA
		D313	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D399	ODR140059DA	1N4005TB52 TP LITEON DO41 600
		D402	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D404	971-0054	TIN 50MM TAPING
		D512	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D602	ODRGF00069A	SB140 GULF TP DO41 40V 1A 40A
		D610	ODR100009CA	RGP10G TP GULF SEMICONDUCTOR
		D701	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D702	ODS124409AA	1SS244 TP ROHM KOREA
		D703	ODRTW00050A	MUR460L-1121 TIWAN SEMI BK DO
		D704	ODR150001AA	DTV1500MFP ST SGS-THOMSON TO2
		D705	ODRGF00069A	SB140 GULF TP DO41 40V 1A 40A
		D706	ODRGS00380A	GRD07-15L-5705 GENERAL SEMICO
		D709	971-0054	TIN 50MM TAPING
		D710	ODR400409AB	UF4004 TP G.I DO204AL 400V 1A
		D711	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D712	ODR100009CA	RGP10G TP GULF SEMICONDUCTOR
		D713	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D714	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D715	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D716	ODR140059DA	1N4005TB52 TP LITEON DO41 600
		D717	ODR140059DA	1N4005TB52 TP LITEON DO41 600
		D718	ODR140059DA	1N4005TB52 TP LITEON DO41 600
		D719	ODR100009DA	RGP10J TP GULF SEMICONDUCTOR
		D720	ODS141489AB	1N4148 TP GRANDE DO-34 500MW

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		D721	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D723	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D724	ODR140059DA	1N4005TB52 TP LITEON DO41 600
		D767	ODR100009DA	RGP10J TP GULF SEMICONDUCTOR
		D768	971-0054	TIN 50MM TAPING
		D801	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D802	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D803	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D900	ODRTW00071A	TS4B05G-1021 TIWAN SEMI ST NO
		D902	971-0054	TIN 50MM TAPING
		D904	ODR100009CA	RGP10G TP GULF SEMICONDUCTOR
		D905	ODD400709CB	UF4007 TP G.I DO204AL 1000V
		D906	ODR100009CA	RGP10G TP GULF SEMICONDUCTOR
		D908	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D910	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D911	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D941	ODR100009LA	UG1D TP G.I DO204AL 200V 1A 4
		D942	ODR400409AB	UF4004 TP G.I DO204AL 400V 1A
		D951	ODRTW00044B	UG2DL-1021 TIWAN SEMI BK DO15
		D952	ODS141489AB	1N4148 TP GRANDE DO-34 500MW
		D961	ODRTW00060A	SF38GL-1121 TIWAN SEMI BK DO2
		D971	ODR100009DA	RGP10J TP GULF SEMICONDUCTOR
		ZD402	ODZ560009AG	GDZJ5.6B TP GRANDE DO-34 500M
		ZD403	ODZ560009AG	GDZJ5.6B TP GRANDE DO-34 500M
		ZD404	ODZ560009AG	GDZJ5.6B TP GRANDE DO-34 500M
		ZD405	ODZ560009AG	GDZJ5.6B TP GRANDE DO-34 500M
		ZD407	ODZ560009AG	GDZJ5.6B TP GRANDE DO-34 500M
		ZD408	ODZ560009AG	GDZJ5.6B TP GRANDE DO-34 500M
		ZD409	ODZ560009AG	GDZJ5.6B TP GRANDE DO-34 500M
		ZD410	ODZ560009AG	GDZJ5.6B TP GRANDE DO-34 500M
		ZD701	ODZ120009BF	GDZJ12B TP GRANDE DO34 0.5W 1
		ZD702	971-0054	TIN 50MM TAPING
		ZD902	ODZ510009BE	GDZ5.1B TP GRANDE DO34 500MW
ICs				
		IC301	OIPRPWL001A	6805-N160WT-87A WELTREND 16,
		IC302	OIPRPSG014A	STV9211 SGS-THOMSON 20P,DIP S
		IC303	OIPRPSG004B	STV9556 SGS-THOMSON 11P,CLIPW
		IC401	OIZZTSZ220A	SS 42PIN ST H4 STM
		IC402	OISG240860A	M24C08-BN6 8DIP BK 8K SERIAL
		IC601	OIPRPSG016A	STV9302A SGS-THOMSON TO220,7P
		IC701	OIPRPSG017A	STV6888 SGS-THOMSON 32P,SDIP
		IC901	OISS384200A	KA3842B (PWM)
COILS & COREs				
		FB303	125-155A	BFD3510R2FG SAMWHA 3.5*10MM R
		FB304	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM
		FB305	125-155A	BFD3510R2FG SAMWHA 3.5*10MM R
		FB306	125-155A	BFD3510R2FG SAMWHA 3.5*10MM R
		FB314	125-022J	FERRITE KQ-1 JS 3.5*5.0MM AXI
		FB315	125-022J	FERRITE KQ-1 JS 3.5*5.0MM AXI
		FB316	125-022J	FERRITE KQ-1 JS 3.5*5.0MM AXI
		FB401	971-0054	TIN 50MM TAPING
		FB402	125-155L	BFS3580A0FG SAMWHA 3.5*8.0MM
		FB403	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM
		FB501	125-155P	BFS2550R2FG SAMWHA 2.5*5.0MM
		FB502	125-155J	BFS2550A0FG SAMWHA 2.5*5.0MM
		FB701	125-155L	BFS3580A0FG SAMWHA 3.5*8.0MM
		FB705	971-0054	TIN 50MM TAPING
		FB903	125-155P	BFS2550R2FG SAMWHA 2.5*5.0MM

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		FB904	125-155K	BFS3550A0FG SAMWHA 3.5*5.0MM
		FB905	125-155P	BFS2550R2FG SAMWHA 2.5*5.0MM
		FB921	125-155A	BFD3510R2FG SAMWHA 3.5*10MM R
		FB922	125-155L	BFS3580A0FG SAMWHA 3.5*8.0MM
		FB951	971-0054	TIN 50MM TAPPING
		FB952	125-155G	BFS3550R2FG SAMWHA 3.5*5MM RA
		L301	0LA0560K119	0.56UH K 2.3*3.4 TP
		L302	0LA0560K119	0.56UH K 2.3*3.4 TP
		L303	0LA0560K119	0.56UH K 2.3*3.4 TP
		L304	0LA1000K119	100UH K 2.3*3.4 TP
		L702	6140TBZ025C	DR14*20 150UH 0.12*25MM 51T H
		L703	6140TYZ010G	LX31 GET DR14*15-C5.2,16.5T,4
		L705	6140TBZ026C	DR15*18-C9.8 100UH 0.1*30MM 4
		L901	6200TZZ004A	SQE2626 NAMYANG BK L/FILTER 1
		L903	125-159A	FERRITE KQ-1 (RADIAL TAPPING)
TRANSISTOR				
		Q301	0TR100809AA	KSC1008C-Y TP SAMSUNG TO92 N
		Q501	0TR320209AA	KTC3202-Y(KTC1959) TP KEC TO9
		Q502	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO
		Q503	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO9
		Q701	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO9
		Q703	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO
		Q704	0TR320209AA	KTC3202-Y(KTC1959) TP KEC TO9
		Q705	0TR100809AA	KSC1008C-Y TP SAMSUNG TO92 N
		Q706	0TRTH10005B	2SC5855(LG1) TOSHIBA ST TO3P
		Q707	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO
		Q708	0TR127009AA	KTA1270-Y(KTA562TM) TP KEC TO
		Q709	0TR141300AB	KTD1413 BK KEC TO220I S NPN
		Q710	0TR440009CA	KSP44 TP SAMSUNG
		Q711	0TF630000DA	IRF630A BK SAMSUNG 200V 9A TO
		Q712	0TF630000DA	IRF630A BK SAMSUNG 200V 9A TO
		Q713	0TF630000DA	IRF630A BK SAMSUNG 200V 9A TO
		Q714	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO9
		Q715	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO9
		Q716	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO9
		Q717	0TR100809AA	KSC1008C-Y TP SAMSUNG TO92 N
		Q719	0TF630000DA	IRF630A BK SAMSUNG 200V 9A TO
		Q799	0TR920009AB	KSP92 TP SAMSUNG TO92 HIGH VO
		Q901	0TF760000AD	SSS7N60B FAIRCHILD ST TO220F
		Q903	0TR100809AA	KSC1008C-Y TP SAMSUNG TO92 N
		Q941	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO9
		Q942	0TR928009AB	KSA928A-Y TP SAMSUNG TO92L PN
		Q951	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO9
		Q952	0TR928009AB	KSA928A-Y TP SAMSUNG TO92L PN
		Q953	0TR319809AA	KTC3198-Y(KTC1815) TP KEC TO9
RESISTORS				
		R301	0RD0752Q609	75 1/4W(3 5% TA52
		R302	0RD0752Q609	75 1/4W(3 5% TA52
		R303	0RD0752Q609	75 1/4W(3 5% TA52
		R304	0RD3001Q609	3K 1/4W(3 5% TA52
		R305	0RD1001Q609	1K 1/4W(3 5% TA52
		R307	0RD1001Q609	1K 1/4W(3 5% TA52
		R309	0RN6201F409	6.20K 1/6W 1% TA52
		R311	0RD0271Q609	2.70 1/4W(3 5% TA52
		R312	0RD2001Q609	2K 1/4W(3 5% TA52
		R313	0RD1000Q609	100 1/4W(3 5% TA52
		R314	0RD6800Q609	680 1/4W(3 5% TA52
		R317	0RD2001Q609	2K 1/4W(3 5% TA52

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R319	0RD1000Q609	100 1/4W(3 5% TA52
		R320	0RD1000Q609	100 1/4W(3 5% TA52
		R321	0RD0152Q609	15 1/4W(3 5% TA52
		R322	0RD0152Q609	15 1/4W(3 5% TA52
		R323	0RD0152Q609	15 1/4W(3 5% TA52
		R324	0RD3300Q609	330 1/4W(3 5% TA52
		R325	0RD3300Q609	330 1/4W(3 5% TA52
		R326	0RD3300Q609	330 1/4W(3 5% TA52
		R327	0RD3300Q609	330 1/4W(3 5% TA52
		R331	0RD0512Q609	51 1/4W(3 5% TA52
		R332	0RD0512Q609	51 1/4W(3 5% TA52
		R333	0RD0512Q609	51 1/4W(3 5% TA52
		R335	0RD0271Q609	2.70 1/4W(3 5% TA52
		R336	0RD1000Q609	100 1/4W(3 5% TA52
		R337	0RD1000Q609	100 1/4W(3 5% TA52
		R341	0RD2000Q609	200 1/4W(3 5% TA52
		R342	0RD2000Q609	200 1/4W(3 5% TA52
		R343	0RD2000Q609	200 1/4W(3 5% TA52
		R344	0RD1000Q609	100 1/4W(3 5% TA52
		R351	0RD2200A609	220 OHM 1/2 W (7.0) 5% TA52
		R352	0RD2200A609	220 OHM 1/2 W (7.0) 5% TA52
		R353	0RD2200A609	220 OHM 1/2 W (7.0) 5% TA52
		R354	0RD0392A609	39 OHM 1/2 W (7.0) 5% TA52
		R382	0RD1000Q609	100 1/4W(3 5% TA52
		R383	0RD1000Q609	100 1/4W(3 5% TA52
		R401	0RD1000Q609	100 1/4W(3 5% TA52
		R402	0RD5600Q609	560 1/4W(3 5% TA52
		R404	0RD3002Q609	30K 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
		R410	0RD1000Q609	100 1/4W(3 5% TA52
		R412	0RD1004Q609	1M OHM 1/4 W (3.4) 5% TA52
		R414	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
		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	0RD4701Q609	4.70K 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	0RD1001Q609	1K 1/4W(3 5% TA52
		R441	0RD2200Q609	220 1/4W(3 5% TA52
		R442	0RD2200Q609	220 1/4W(3 5% TA52
		R443	0RD0912Q609	91 OHM 1/4 W (3.4) 5% TA52
		R444	0RD1002Q609	10K 1/4W(3 5% TA52
		R445	0RD1002Q609	10K 1/4W(3 5% TA52
		R446	0RD1002Q609	10K 1/4W(3 5% TA52
		R447	0RD1001Q609	1K 1/4W(3 5% TA52
		R448	0RD1801Q609	1.80K 1/4W(3 5% TA52
		R490	0RD9100Q609	910 1/4W(3 5% TA52
		R491	0RD2200Q609	220 1/4W(3 5% TA52
		R492	0RD4300Q609	430 OHM 1/4 W(3.4) 5.00% TA52
		R493	0RD7500Q609	750 OHM 1/4 W (3.4) 5% TA52

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R494	ORD1001Q609	1K 1/4W(3 5% TA52
		R495	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
		R602	ORN3300F409	330 1/6W 1% TA52
		R604	ORN1801F409	1.80K 1/6W 1% TA52
		R607	ORN5101F409	5.10K 1/6W 1% TA52
		R608	ORN2002F409	20K 1/6W 1% TA52
		R609	ORN1102F409	11K 1/6W 1% TA52
		R611	ORD0151A609	1.5 OHM 1/2 W (7.0) 5% TA52
		R612	ORD2700A609	270 OHM 1/2 W (7.0) 5% TA52
		R614	ORD0111A609	1.1 OHM 1/2 W (7.0) 5% TA52
		R615	ORN1202F409	12K 1/6W 1% TA52
		R619	ORN2001F409	2K 1/6W 1% TA52
		R700	971-0054	TIN 50MM TAPING
		R701	ORN6201F409	6.20K 1/6W 1% TA52
		R702	ORD2001Q609	2K 1/4W(3 5% TA52
		R703	ORD1001Q609	1K 1/4W(3 5% TA52
		R704	ORD6202Q609	62K OHM 1/4 W (3.4) 5% TA52
		R706	ORD1002Q609	10K 1/4W(3 5% TA52
		R707	ORD1001Q609	1K 1/4W(3 5% TA52
		R708	ORD1102Q609	11K 1/4W(3 5% TA52
⚠		R709	ORN1002F409	10K 1/6W 1 TA52
		R710	ORD1000Q609	100 1/4W(3 5% TA52
		R711	ORD1000Q609	100 1/4W(3 5% TA52
		R712	ORD1501Q609	1.50K 1/4W(3 5% TA52
⚠		R713	ORN8202F409	82K 1/6W 1% TA52
⚠		R714	ORN1102F409	11K 1/6W 1% TA52
		R716	ORD1002Q609	10K 1/4W(3 5% TA52
		R717	ORD2701Q609	2.70K 1/4W(3 5% TA52
		R718	ORD0242Q609	24 1/4W(3 5% TA52
⚠		R719	ORD1001Q609	1K 1/4W(3 5% TA52
		R720	ORD1803Q609	180K 1/4W(3 5% TA52
		R721	971-0054	TIN 50MM TAPING
		R722	ORD1001Q609	1K 1/4W(3 5% TA52
		R723	ORD1001Q609	1K 1/4W(3 5% TA52
		R724	ORD1001Q609	1K 1/4W(3 5% TA52
		R726	ORD7502A609	75K OHM 1/2 W (7.0) 5% TA52
		R727-1	ORX0911K665	9.1 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	ORD6802Q509	68K OHM 1/4 W (3.4) 2% TA52
		R733	971-0054	TIN 50MM TAPING
		R735	ORD1002Q609	10K 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	ORD1503Q609	150K 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	ORD3601Q609	3.60K 1/4W(3 5% TA52
		R743	ORD4701Q609	4.70K 1/4W(3 5% 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

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R749	ORD2201Q609	2.20K 1/4W(3 5% TA52
		R750	ORD3001Q609	3K 1/4W(3 5% TA52
		R751	ORD2001Q609	2K 1/4W(3 5% TA52
		R752	ORD2201Q609	2.20K 1/4W(3 5% TA52
		R753	ORD3001Q609	3K 1/4W(3 5% TA52
		R754	ORD1002Q609	10K 1/4W(3 5% TA52
		R755	ORD3301Q609	3.30K 1/4W(3 5% TA52
		R756	ORD2202A609	22K OHM 1/2 W (7.0) 5% TA52
		R757	ORD2402Q609	24K 1/4W(3 5% TA52
		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	ORD6200A609	620 OHM 1/2 W(7.0) 5.00% TA52
		R767	971-0054	TIN 50MM TAPING
		R768	ORD5103A609	510K OHM 1/2 W (7.0) 5% TA52
		R769	971-0054	TIN 50MM TAPING
		R771	ORN2001F409	2K 1/6W 1% TA52
		R772	ORN2401F409	2.40K 1/6W 1% TA52
		R773	ORD6202A609	62K OHM 1/2 W (7.0) 5% TA52
		R779	ORD3601Q509	3.6K OHM 1/4 W(3.4) 2% TA52
		R782	ORD3301A609	3.3K OHM 1/2 W(7.0) 5.00% TA5
		R783	971-0054	TIN 50MM TAPING
		R784	971-0054	TIN 50MM TAPING
		R786	ORD4302Q609	43K 1/4W(3 5% TA52
		R790	ORD1002Q609	10K 1/4W(3 5% TA52
		R793	ORD4702Q609	47K 1/4W(3 5% TA52
		R798	ORD2001Q609	2K 1/4W(3 5% TA52
		R799	ORD1502Q609	15K 1/4W(3 5% TA52
		R801	ORD4702Q609	47K 1/4W(3 5% TA52
		R802	ORD1502Q609	15K 1/4W(3 5% TA52
		R803	ORD2001Q609	2K 1/4W(3 5% TA52
		R808	971-0054	TIN 50MM TAPING
		R809	ORX0101K665	1 OHM 2 W 5% SF
		R813	ORD6802Q609	68K 1/4W(3 5% TA52
		R814	ORD1202Q609	12K 1/4W(3 5% TA52
⚠		R816	ORN1801F409	1.80K 1/6W 1% TA52
⚠		R818	ORN3602F409	36K 1/6W 1 TA52
		R824	ORD2400A609	240 OHM 1/2 W (7.0) 5% TA52
		R901	ORD4703A609	470K OHM 1/2 W (7.0) 5% TA52
		R902	ORD0511Q609	5.1 OHM 1/4 W (3.4) 5% TA52
		R904	ORX3902K665	39K OHM 2 W 5% SF
		R906	ORD6200Q609	620 1/4W(3 5% TA52
		R908	ORN0220H609	0.22 1/2W 5% TA52
		R910	ORX4702J609	47K OHM 1 W 5% TA52
		R911	ORD0202Q609	20 1/4W(3 5% TA52
⚠		R912	ORD1802Q609	18K 1/4W(3 5% TA52
⚠		R913	ORD2201Q609	2.20K 1/4W(3 5% TA52
		R915	ORD0102Q609	10 1/4W(3 5% 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

DATE: 2002. 09. 13.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R944	ORD4700A609	470 OHM 1/2 W (7.0) 5% TA52
		R945	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R951	ORN0221H609	2.2 1/2W 5 TA52
		R952	ORD1202A609	12K OHM 1/2 W(7.0) 5.00% TA52
		R953	ORD1001A609	1K OHM 1/2 W (7.0) 5% TA52
		R954	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R955	ORD4701Q609	4.70K 1/4W(3 5% TA52
		R956	ORD6802A609	68K OHM 1/2 W (7.0) 5% TA52
		R957	ORD0472Q609	47 1/4W(3 5% TA52
		R960	ORD6200A609	620 OHM 1/2 W(7.0) 5.00% TA52
OTHERs				
		F1	430-858C	AFC-520 BAE EUN TA
		F2	430-858C	AFC-520 BAE EUN TA
		F901	0FZZTTH001B	TIME LAG HBC 5A/250V,215 005,
		J302	ORD0471Q609	4.70 1/4W(3 5% TA52
		J47	ORD1001Q609	1K 1/4W(3 5% TA52
		RL901	6920TBA001A	DY3MA-DC12 DONGYANG 250VAC 10
		SC301	6620TBD003A	PCS701E PARK ELEC. 10PIN 14/3
		SC901	6620TKB002A	BAE EUN AC UNIVERSAL 3PIN BLA
		SG301	6918TAT005E	MTAS-201M GIGA AXIAL TAPING
		SG302	6918TAT005E	MTAS-201M GIGA AXIAL TAPING
		SG303	6918TAT005E	MTAS-201M GIGA AXIAL TAPING
		SG305	6918TRT005A	SSG-102-A0,1KV SMART RADIAL T
		SG701	6918TRT005A	SSG-102-A0,1KV SMART RADIAL T
		SW1	140-058B	EVQ PB2 05K MATUSHITA NON 12
		SW2	140-058B	EVQ PB2 05K MATUSHITA NON 12
		SW3	140-058B	EVQ PB2 05K MATUSHITA NON 12
		SW4	140-058B	EVQ PB2 05K MATUSHITA NON 12
		SW5	140-058B	EVQ PB2 05K MATUSHITA NON 12
⚠		T701	6174T11004A	"1055A, CB777H LG-PHILIPS 17""f"
		T702	6170TCZ006A	EE2218 2.3 MH D/FOCUS(CB775C)
		T703	6170TCZ001D	EI2218 4.0MH H-DRIVE,EB770G
		T901	6170TMZ138A	EER3940 230UH V-16PIN FB770H
		TH901	163-053D	J502P62C090Q290 JAHWA +/-20
		TH902	6322TA080BA	SCK-084 THINKING 8 ohm 15% 26
		VR901	180-035G	EVN-DJAA03B13 (MEC),1KB
		X401	6202TTB003B	HC-49/U HARMONY RADIAL 12MHZ

PIN CONFIGURATION

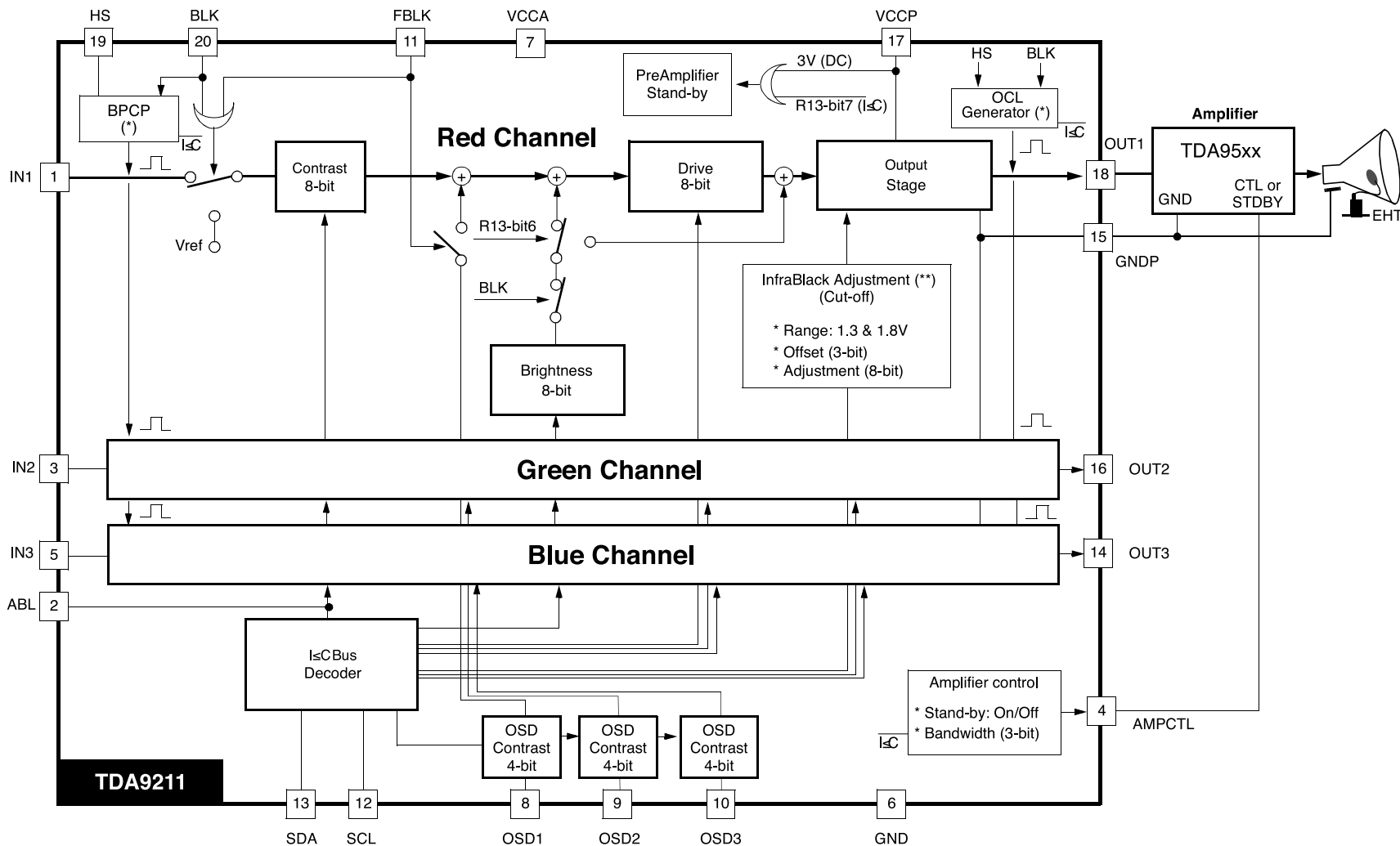
STV9211

Pin Configuration

IN1	☐	1	☐	20	☐	BLK
ABL	☐	2	☐	19	☐	HS
IN2	☐	3	☐	18	☐	OUT1
AMPCTL	☐	4	☐	17	☐	V _{CCP}
IN3	☐	5	☐	16	☐	OUT2
GNDA	☐	6	☐	15	☐	GNDP
V _{CCA}	☐	7	☐	14	☐	OUT3
OSD1	☐	8	☐	13	☐	SDA
OSD2	☐	9	☐	12	☐	SCL
OSD3	☐	10	☐	11	☐	FBLK

Pin Description

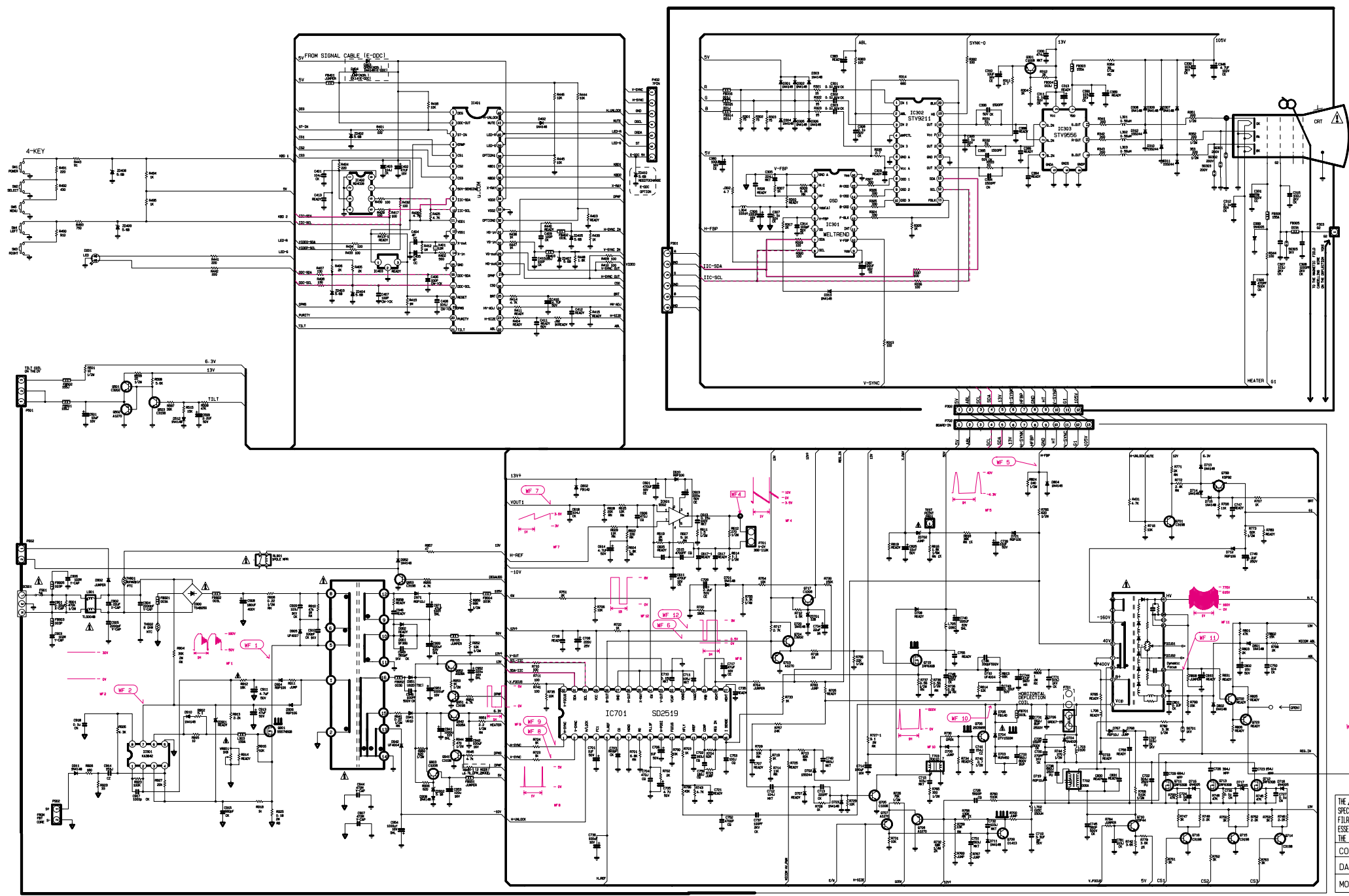
Pin number	symbol	description
1	IN1	Video input (channel 1, red)
2	ABL	ABL input
3	IN2	Video input (channel 2, green)
4	AMPCTL	Amplifier control (bandwidth and stand-by). Only applicable with amplifiers with the CTL or STDBY pins. To be connected to ground if not used.
5	IN3	Video input (channel 3, blue)
6	GNDA	Analog ground
7	V _{CCA}	Analog supply (5V)
8	OSD1	OSD input (channel 1, red)
9	OSD2	OSD input (channel 2, green)
10	OSD3	OSD input (channel 3, blue)
11	FBLK	Fast blanking
12	SCL	SCL
13	SDA	SDA
14	OUT3	Video output (channel 3, blue)
15	GNDP	Power ground
16	OUT2	Video output (channel 2, green)
17	V _{CCP}	Output stage supply (5 V to 8 V)
18	OUT1	Video output (channel 1, red)
19	HS	Horizontal synchro or BPCP pulse
20	BLK	Blanking input



(*) See RGB input section for complete BPCP and OCL description

(**) See Cut-off adjustment section for complete Cut-off register description

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

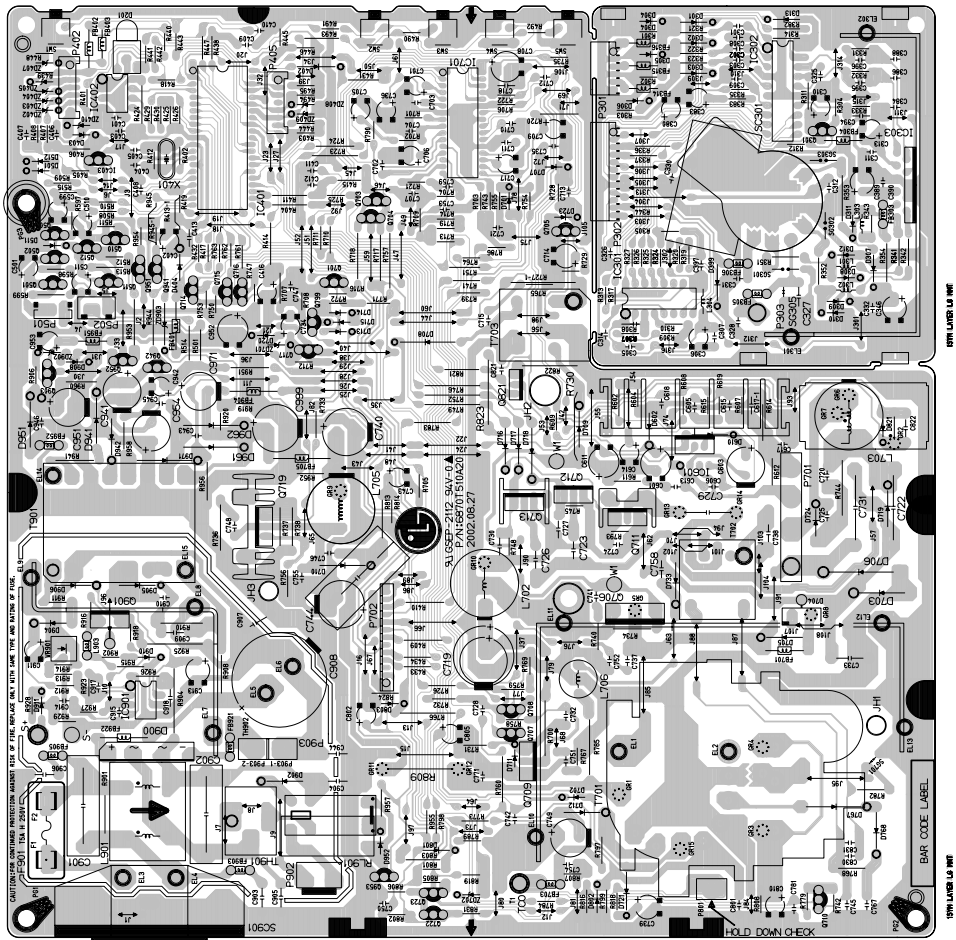


WAVE FORM CONDITION 1: 110V
2: 60kHz / 75Hz

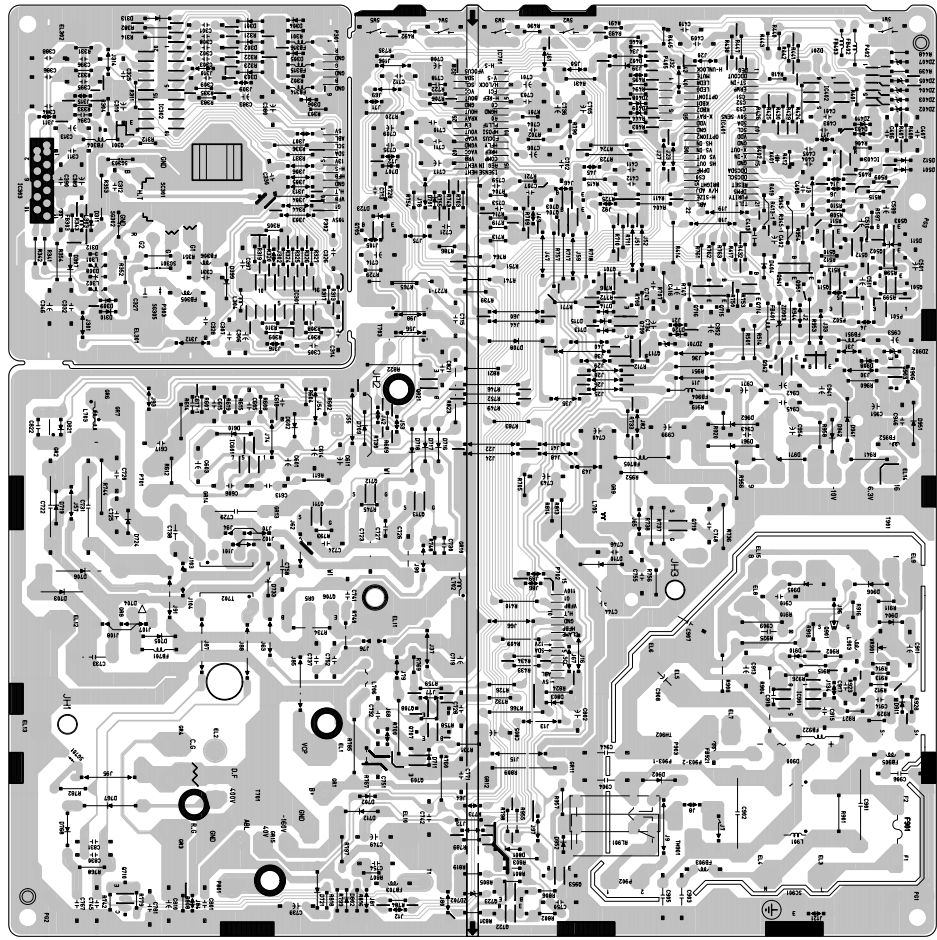
THE  SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION, FILURE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFACTURERS SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE  SYMBOL MARK OF THE SCHEMATIC.			
DATE	2002.09.11	REV	01
MODEL	CG773H	Sheet	1 / 1 Page

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

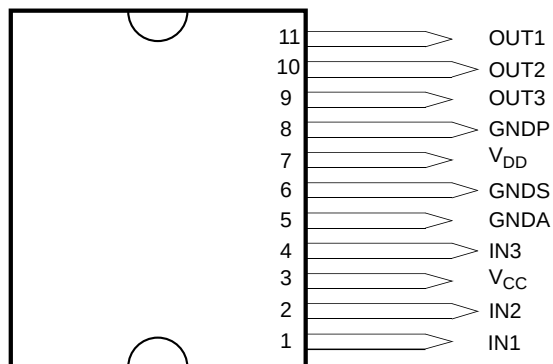
1. MAIN BOARD (Component Side)



2. MAIN BOARD (Solder Side)



Pin Configuration



BLOCK DIAGRAM

