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COLOR MONITOR SERVICE MANUAL

CHASSIS NO. : CA-138

MODEL: **FLATRON^{ez}** T530B (T530BL-AL****)

FLATRON^{ez} T530S (T530SL-AL****)

() **Same model for Service

CAUTION

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



*Same looking with new chassis.

CONTENTS

SPECIFICATIONS	2	DESCRIPTION OF BLOCK DIAGRAM.....	11
SAFETY PRECAUTIONS	3	ADJUSTMENT	13
SERVICE PRECAUTION.....	4	TROUBLESHOOTING GUIDE	19
TIMING CHART	7	EXPLODED VIEW.....	34
DISASSEMBLY	8	REPLACEMENT PARTS LIST	36
WIRING DIAGRAM	9	SCHEMATIC DIAGRAM.....	40
BLOCK DIAGRAM	10	PRINTED CIRCUIT BOARD.....	42

SPECIFICATIONS

1. PICTURE TUBE

Size	: 15 inch
Deflection Angle	: 90°
Neck Diameter	: 29.4 mm
Stripe Pitch	: 0.28 mm
Face Treatment	: W-ARASC (Anti-Reflection and Anti-Static Coating)
Internal	: Anti-Glare
Low Radiation	: MPR-II, NOM MPRII

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 ~ 56 kHz
Vertical	: 50 ~ 120 Hz

3. POWER SUPPLY

3-1. Power Range

AC 100-240V~ 50/60Hz, 1.0A

3-2. Power Consumption

MODE	POWER CONSUMPTION	LED COLOR
MAX	75 W	GREEN
NORMAL (ON)	63 W	GREEN
STAND-BY	less than 4 W	FLASH
SUSPEND	less than 4 W	FLASH
DPMS OFF	less than 4 W	FLASH

4. DISPLAY AREA

4-1. Active Video Area :

- Max Image Size : 284.5 x 213.4 mm (11.20" x 8.46")
- Preset Image Size : 270 x 200 mm (10.63" x 7.87")

4-2. Display Color : Full Colors

4-3. Display Resolution : 1024 x 768 / 70Hz(Max) (Non-Interlace)

4-4. Video Bandwidth : 75 MHz

5. ENVIRONMENT

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

5-2. Relative Humidity : 10%~ 80% (Non-condensing)

5-3. Altitude : 5,000 m

6. DIMENSIONS (with TILT/SWIVEL)

Width	: 356.0 mm (14.02 inch)
Depth	: 388.5 mm (15.30 inch)
Height	: 347.0 mm (13.66 inch)

7. WEIGHT (with TILT/SWIVEL)

Net Weight	: 11.5 kg (25.35 lbs.)
Gross Weight	: 13.7 kg (30.20 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.

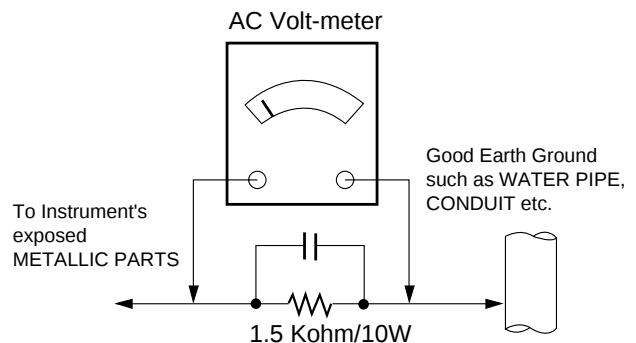
Note : It is important to use an accurate high voltage meter calibrated periodically.

- 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.

Leakage Current Hot Check Circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the **SAFETY PRECAUTIONS** on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
 - a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
 - b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.

CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

- d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe.
Do not test high voltage by "drawing an arc".
 3. Discharge the picture tube anode only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.
 4. Do not spray chemicals on or near this receiver or any of its assemblies.
 5. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)
CAUTION: This is a flammable mixture.
Unless specified otherwise in this service manual, lubrication of contacts is not required.
 6. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
 7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
 8. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
Always remove the test receiver ground lead last.

9. Use with this receiver only the test fixtures specified in this service manual.

CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices*. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range of 500°F to 600°F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a small wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle.
Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
 - a. Allow the soldering iron tip to reach normal temperature.
(500°F to 600°F)
 - b. Heat the component lead until the solder melts.
 - c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
 - a. Allow the soldering iron tip to reach a normal temperature (500°F to 600°F)
 - b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
 - c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
CAUTION: Work quickly to avoid overheating the circuit board printed foil.
 - d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor

Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device

Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor

Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.
CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. Carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife.

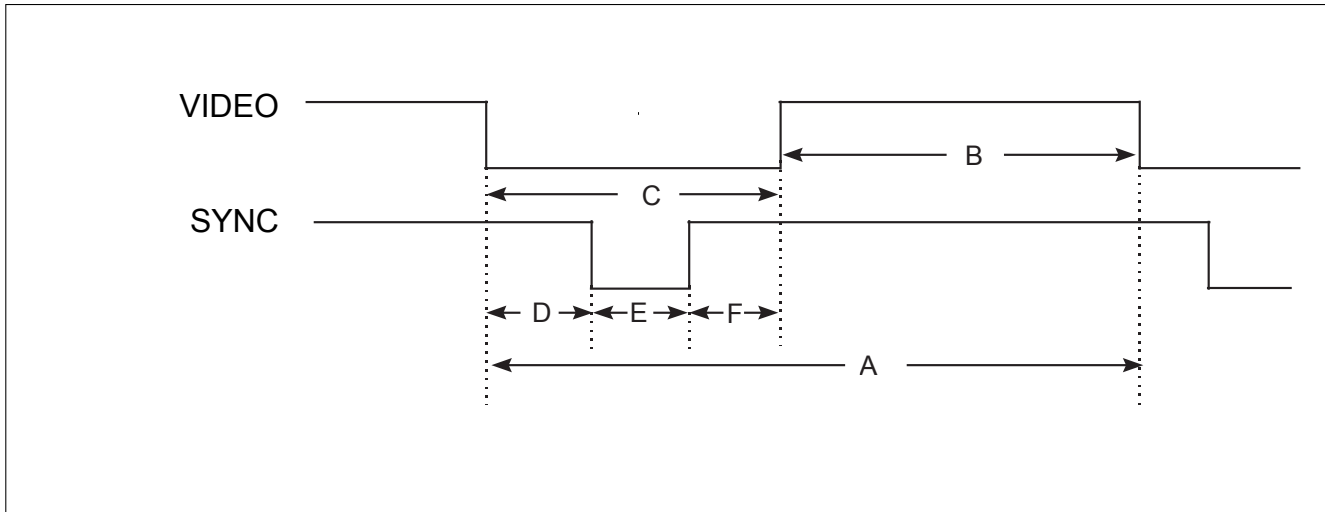
Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.

2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.

Carefully crimp and solder the connections.

CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

TIMING CHART



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

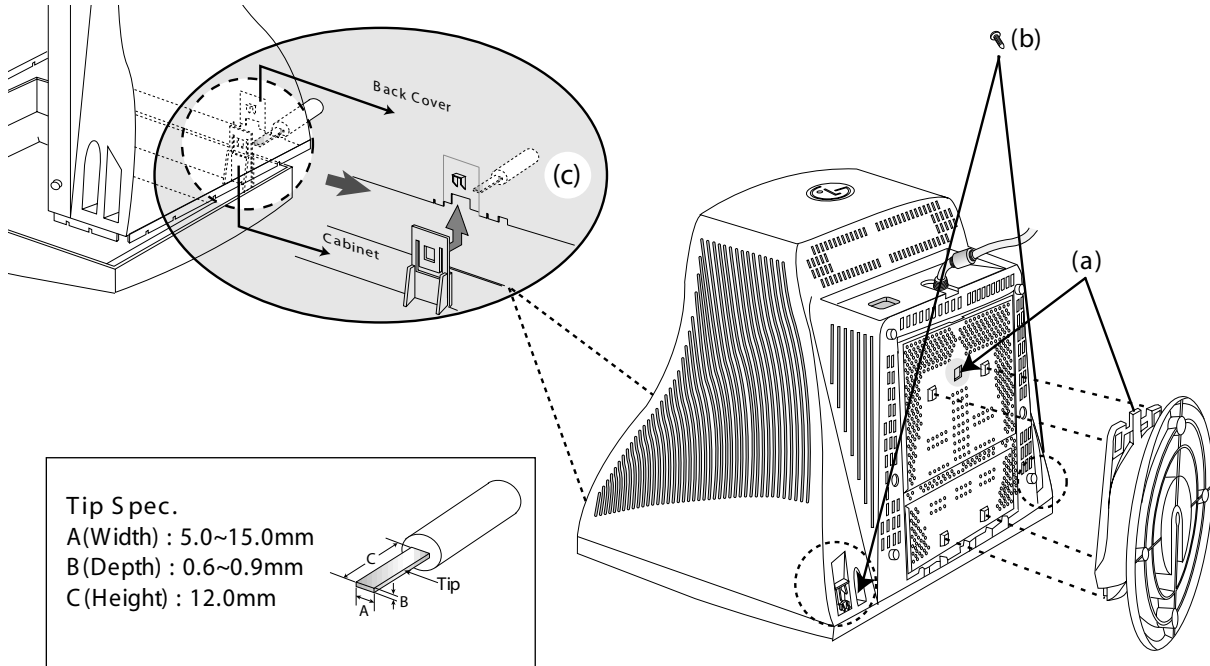
MODE			1	2	3	4
			VESA			
H O R I Z	Polarity		-	-	-	+
	H-Frequency	KHz	31.470	37.500	48.363	53.680
	H-Active (A)	μS	31.780	26.670	20.677	18.630
	H-Video(B)	μS	25.420	20.320	15.754	14.220
	H-blanking(C)	μS	6.360	6.350	4.923	4.410
	H-front porch(D)	μS	0.640	0.510	0.369	0.570
	H-sync time(E)	μS	3.810	2.030	2.092	1.140
	H-back porch(F)	us	1.910	3.810	2.462	2.700
V E R T	Polarity		-	-	-	+
	V-Frequency	Hz	59.940	74.990	60.004	85.070
	V-Active (A)	mS	16.684	13.335	16.666	11.755
	V-Video(B)	mS	15.254	12.802	15.880	11.178
	V-blanking(C)	mS	1.430	0.533	0.786	0.577
	V-front porch(D)	mS	0.318	0.026	0.062	0.018
	V-sync time(E)	mS	0.063	0.080	0.124	0.056
	V-back porch(F)	mS	1.049	0.427	0.600	0.503
Resolution			640*	640*	1024*	800*
			480	480	768	600
RECALL			YES	YES	YES	YES

* No Composite Mode.

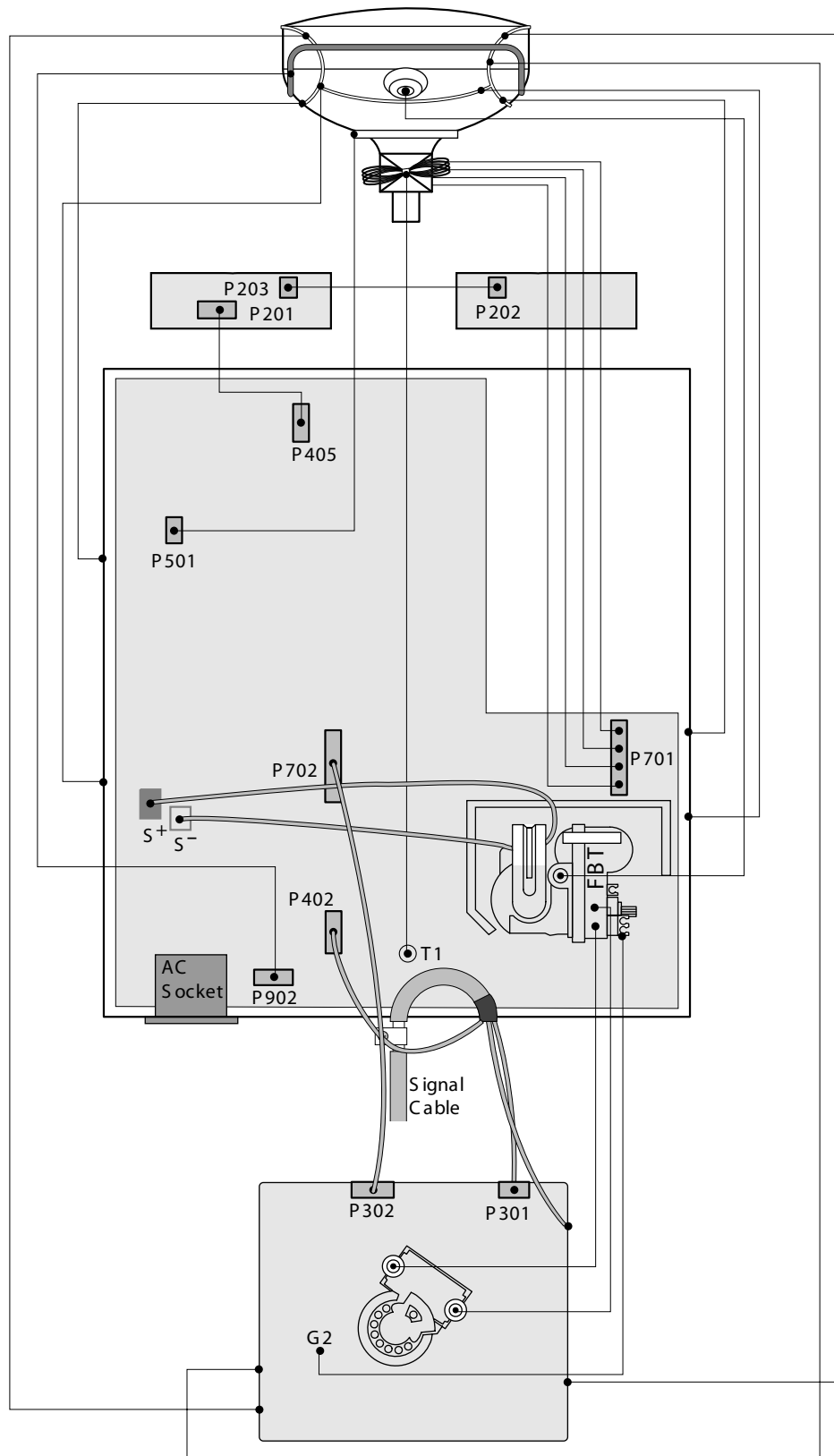
DISASSEMBLY

1. TILT/SWIVEL & BACK COVER REMOVAL

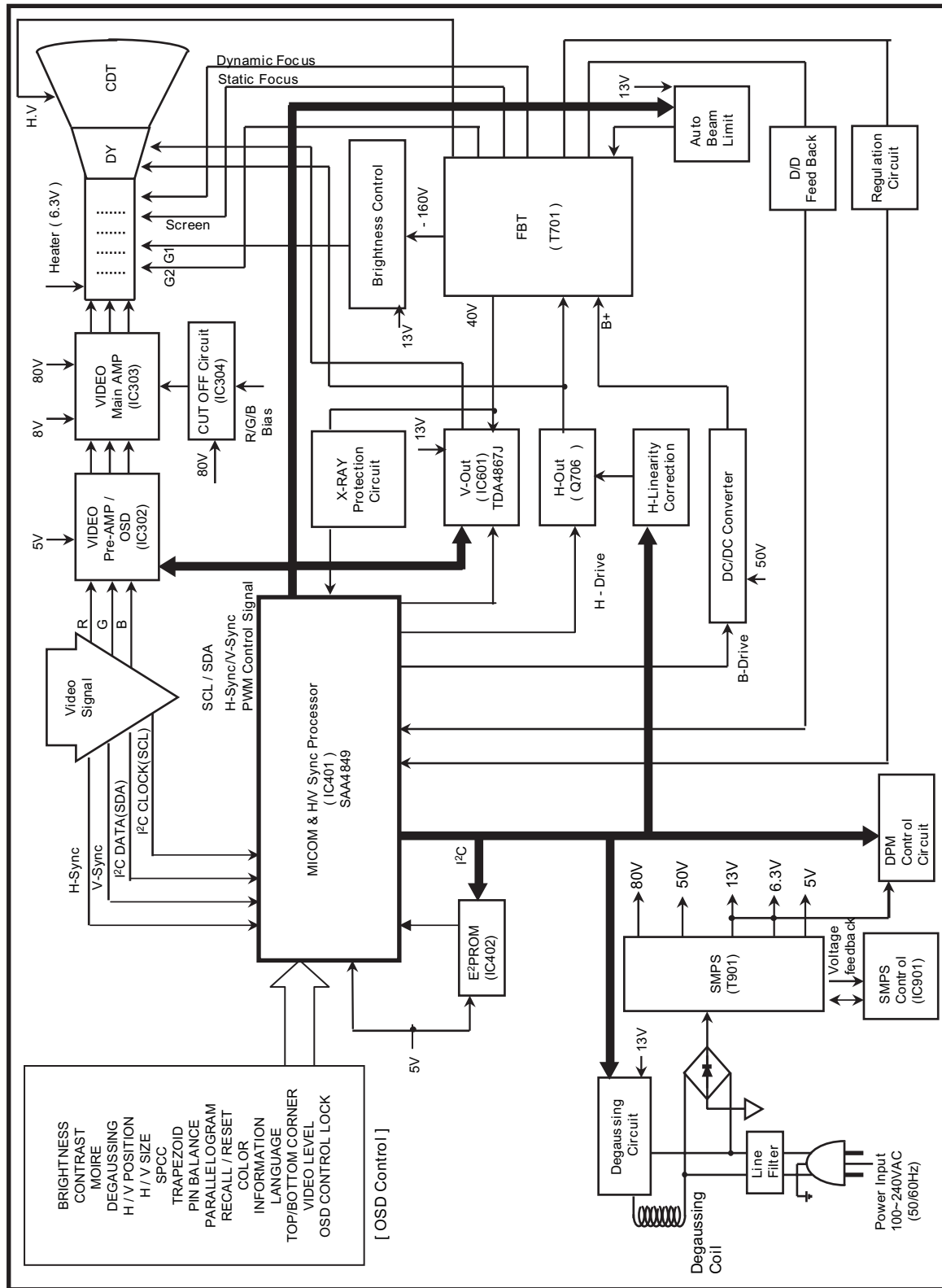
- 1) Set the monitor face downward.
- 2) Carefully remove the Tilt/Swivel by pulling it upward.
- 3) Remove the screw (b), Back cover by pushing it upward.
- 4) Release the latch (c). (See Tip Spec.)
- 5) Slide the Back Cover away from the Front Cabinet of the monitor.



WIRING DIAGRAM



BLOCK DIAGRAM



DESCRIPTION OF BLOCK DIAGRAM

1. SMPS(Switching Mode Power Supply)

When you turn on the power switch, the operating procedure is as follows:

- 1) The AC line voltage is rectified by the bridge diode D900.
- 2) The control IC(IC901) starts switching and generates switch pulse in the primary turn of the SMPS transformer(T901)
- 3) The switching pulses of the primary turns are induced to the secondary turns of the transformer by the turn ratio. This pulses are rectified by each diode(D971, D961(D962),D951,D942,D941)
- 4) Each rectified DC voltage(80V, 50V, 15V, 13V,6.3Vand 5V)

2. Over Voltage Protection Circuit

When the input of IC901 Vin (pin 4) is more than 22V, all the secondary voltages of the SMPS transformer (T901) down to low value

3. Display Power Management Circuit(DPM)

- 1) STAND-BY & SUSPEND Mode
When no input of horizontal or vertical sync Q951, Q941 are turned off and Q952,Q942 are turned off. Then input power consumption is below 5 watts.
- 2) OFF Mode
When no input of horizontal and vertical sync Q951, Q941 are turned off and Q952, Q942 are turned off. Then input power consumption is below 5 watts.

4. Microprocessor Control & Horizontal and Vertical Sync Processor Circuit

The operating procedure is as follows ;

- 1) There is Horizontal & Vertical process function in Microprocessor.(IC401)
- 2) Microprocessor (IC401) discriminates the operating mode from the sync polarity and resolution.
- 3) After microprocessor reads these adjusted mode data stored at EEPROM, it controls operating mode data through IIC
- 4) Users can control screen condition by the OSD Select,Up, Down, Left, Right, Exit.

5. D/D Converter Circuit.

To obtain constant high voltage, this circuit supplies controlled DC voltage for FBT and horizontal deflection circuit according to the horizontal sync frequency.

6. X-RAY Protection Circuit

When the high Voltage reaches to 29kV in an abnormal case, the high voltage detector circuit, R818,D721,C739-1 R416, C409 start operation to shut down high voltage circuit.

7. Horizontal S-correction Circuit.

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

8. Horizontal drive and Output Circuit.

This circuit is a horizontal deflection amplifier for raster scan.

9. ABL Circuit

This circuit limits the beam-current for the reliability of CDT

10. Vertical Output Circuit

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

11. Blanking and Brightness Control Circuit.

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

12. 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 CDT.

13. OSD (On Screen Display) Circuit.

This circuit displays information of the monitor's status on the screen.

14. Video Processor Circuit.

Video processor circuit consists of the video drive output block. The video drive IC(IC302) receives the video signal from PC. The gain of each channel is controlled by MICOM through IIC.

The cut-off circuit compensate different voltage of each channel between the cathode and the G1 of the CDT.

15. Video Pre-Amp Circuit.

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

16. Video Output Amp Circuit.

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

ADJUSTMENT

1. Preparation for Service Adjustment

GENERAL INFORMATION

All adjustment are thoroughly checked and corrected when the monitor leaves the factory, but sometimes several adjustments may be required. Adjustment should be following procedure and after warming up for a minimum of 30 minutes.

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

AUTOMATIC AND MANUAL DEGAUSSING

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

ADJUSTMENT PROCEDURE & METHOD

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

1. Adjustment for B⁺ Voltage.

- 1) Display cross hatch pattern at Mode 4.
- 2) Check D961 cathode voltage within $50V \pm 1V$.

2. Adjustment for High-Voltage.

- 1) Display cross hatch pattern at Mode 4.
- 2) Enter the SVC SUB menu as the following instruction.
- 3) Adjust H/Voltage to $24.5kV \pm 0.1 kV$ by adjust 1-P value.

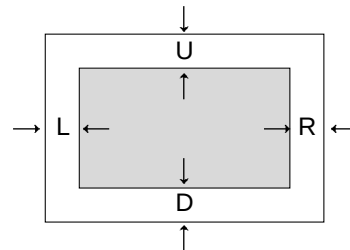
2. Adjustment by Service Hot key

How to enter SVC HOT KEY

1. Press Menu and OSD window will appear.
2. While OSD window is displayed, ★★ is seen on the left bottom of OSD window.
3. Press $\triangleleft$ + power switch simultaneously and the screen will immediately refresh.
4. Press Menu and make sure that ★★ is changed to 1 2.
5. Follow the menu on the left of OSD window to find 12 and OSD will change as shown in the figure.
6. Select Degauss in the above figure and then press Select and $\triangleright$ to enter the screen of the SUB menu. (Back Raster for Pattern)

FOS SPEC

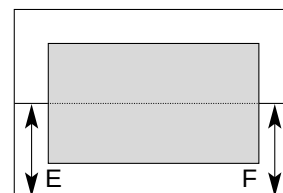
1. Size
H : $270 \pm 4mm$
V : $200 \pm 4mm$
Scanning frequency : All Mode (Mode 1~4)
Display image : Cross hatch pattern
2. Centering
Scanning frequency : All Mode (Mode 1~4)
Display image : Crosshatch pattern
Horizontal : 10 Row
Vertical : 8 Row



$$H : |L-R| \leq 4mm, V : |U-D| \leq 4mm$$

3. Tilt

Scanning frequency : All Mode (Mode 1~4)
Display image : Crosshatch pattern
Horizontal : 10 Row
Vertical : 8 Row



$$\text{Tilt} : |E-F| \leq 2.0mm$$

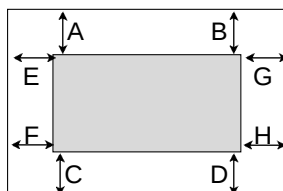
4. Distortion

Scanning frequency : All Mode (Mode 1~4)

Display image : Crosshatch pattern

Horizontal : 10 Row

Vertical : 8 Row



$$\begin{array}{|l|l|} \hline |A-B| & \leq 2.0\text{mm}, \\ \hline |E-F| & \leq 2.0\text{mm}, \\ \hline |C-D| & \leq 2.0\text{mm}, \\ \hline |G-H| & \leq 2.0\text{mm} \\ \hline \end{array}$$

5. Displa Size drift

- $\pm 4\text{mm}$: 25°C Standard, 10°C , 35°C
- $\pm 0.5\text{mm}$: $180\text{V} \sim 264\text{V}$

6. Linearity

				Y1
				Y2
				Y3
				Y4
X1	X2	X3	X4	

Formula : $\{(Max - Min) / Max\} \times 100(\%)$

Criteria : H - 10% Max. (Upper 40kHz)

14% Max. (Less 40kHz)

V - 8% Max.

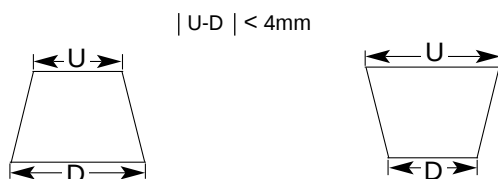
7. Regulation

Luminance $\leq 2\text{mm}$

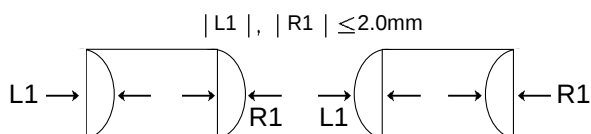
Dynamic(lode) $\leq 2\text{mm}$

Scanning frequency : All Mode (Mode 1~4)

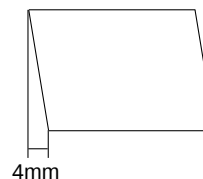
8. Trapezoid



9. Pin Balance



10. Parallelogram



11. Adjustment of white balance (Adjustment of chromaticity diagram)

*(Adjustment of white balance must be made after entering Hot Key Mode and DEGAUSS.)

CONDITIONS

Signal: 54 kHz / 85 Hz
 Display image: Back raster (Color 0,0)
 Contrast: Maximum
 Brightness: Maximum
 Color temperature: 9300K

11-1. Adjustment of cut off (Adjustment of back raster)

11-1(a). Before adjustment, press Menu and Degauss to remove.

=> Enter hot key mode.

Adjust Brightness and Contrast to Max in OSD window.

(1) Adjust cut off (back raster) first. Enter DEGAUSS in the Menu and modify the following data.

Modify RCUT to Min ,

Modify GCUT To Min ,

Adjust to BCUT Data = 127 (7F (h)) ,

Adjust to SBRT Data = 205 (CD (h)).

(2) Turn FBT screen volume on "CRT COLOR ANALYZER CA-100" equipment to adjust Brightness to $0.4 \pm 0.05\text{FL}$.

(3) Adjust RCUT, GCUT, and SBRT to set chromaticity diagram at :

x: 0.283 ± 0.005

y: 0.298 ± 0.005

Y: $0.40 \pm 0.05\text{FL}$

* If color values would not be matched desirable values, repeat sequence 1 and 2 after readjusting "GREEN CUTOFF" control a little different.

11-2. Adjustment of White Balance

After finishing adjustment of cut off (back raster), approve "Color(15.0) Full white pattern".

Adjust BDRV Data = 85(55)

SCON=127.

Adjust RDRV and GDRV to set chromaticity diagram at :

x: 0.283 ± 0.005

y: 0.298 ± 0.005

Approve "Window pattern (70x70mm)" to adjust

S-CON to Y : $50 \pm 1\text{FL}$.

Approve "Color (15.0) Full white pattern" again and adjust ABL Data to Y : $32 \pm 1\text{FL}$

12. Focus Adjustment

CONDITIONS

Scanning frequency : All Mode (Mode 1~4)

Display image: "H" character pattern

Brightness: Cut off point

Contrast: Maximum

PROCEDURE

1. Adjust the Focus VR on the FBT to display the sharpest image possible.

2. Use Locktite to seal the Focus VR in position.

13. Color Purity Adjustment

Color purity is the absence of undesired color.

Conspicuous mislanding (unexpected color in a uniform field) within the display area shall not be visible at a distance of 50 cm from the CRT surface.

CONDITIONS

Orientation: Monitor facing east

Scanning Frequency: 800 x 600(54kHz/85Hz)

Display image: White flat field

Luminance: Cut off point at the center of the display area

Note: Color purity adjustments should only be attempted by qualified personnel.

PROCEDURE

For trained and experienced service technicians only.

Use the following procedure to correct minor color purity problems:

1. Make sure the display is not affected by external magnetic fields.

2. Very carefully break the glue seal between the 2-pole purity convergence magnets (PCM), the band and the spacer.

3. Make sure the spacing between the PCM assembly and the CRT stem is $29 \text{ mm} \pm 1 \text{ mm}$.

4. Display a green pattern over the entire display area.

5. Adjust the purity magnet rings on the PCM assembly to display a pure green pattern.
(Optimum setting: $x = 0.295 \pm 0.015$,
 $y = 0.594 \pm 0.015$)

6. Repeat steps 4 and 5 using a red pattern and then again, using a blue pattern.

Table 4-6. Color Purity Tolerances

Red:	$x=0.620 \pm 0.015$	$y=0.334 \pm 0.015$
Green:	$x=0.620 \pm 0.015$	$y=0.334 \pm 0.015$
Blue:	$x=0.620 \pm 0.015$	$y=0.334 \pm 0.015$

(For 9300K color adjustment: $x = 0.283 \pm 0.02$,
 $y = 0.298 \pm 0.02$)

7. When you have the PCMs properly adjusted, carefully glue them together to prevent their movement during shipping.

3. Adjustment Using Service software Program (Adjustment Program)

1. Adjustment for Factory Mode (Preset Mode).

- 1) Display cross hatch pattern at Mode All.
- 2) Run alignment program for T530BL/T530SL 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) COMMAND → PRESET START → Y(Yes) command.
- 5) DIST. ADJ. → FOS. ADJ command.
- 6) Adjust H-POSITION as arrow keys to center of the screen.
- 7) Adjust H-SIZE as arrow keys to $270 \pm 2\text{mm}$.
- 8) Adjust V-POSITION as arrow keys to center of the screen.
- 9) Adjust V-SIZE as arrow keys to $200 \pm 2\text{mm}$.
- 10) Adjust TRAPEZOID as arrow keys to be the best condition.
- 11) Adjust SIDE PINCUSHON as arrow keys to be the best condition.
- 12) Adjust TILT as arrow keys to be the best condition.
- 13) Display cross hatch pattern at Mode 4.
- 14) DIST. ADJ. → BALANCE DATA command.
- 15) Adjust balance of Pin-Balance as arrow keys to be the best condition.
- 16) Adjust parallelogram as arrow keys to be the best condition.
- 17) Save of the Mode.
- 18) Save of the System.
- 19) Display from Mode 4 and repeat above from number 6) to 16).
- 20) COMMAND → PRESET EXIT → Y (Yes) command.

2. Adjustment for White Balance and Luminance.

- 1) Set the White Balance Meter.
- 2) Press the DEGAUSSING on the OSD menu for demagnetization of the CDT.
- 3) Display color 0,0 pattern at Mode 4.
- 4) COMMAND → PRESET START → Y(Yes) command.
- 5) Set Bightness and Contrast to max position.
- 6) COLOR ADJ. → LUMINANCE command of the alignment program.
- 7) COLOR ADJ. → BIAS ADJ. command of the alignment program.
- 8) Check whether blue color or not at R-BIAS and G-BIAS to min position, Sub-Brightness to 205 (CD(h))position, B-Bias to 127(7F(h))position. If it's not blue color, the monitor must repair.
- 9) Adjust Screen control on the FBT to $0.4 \pm 0.05\text{FL}$ of the raster luminance.
- 10) Adjust R-BIAS and G-BIAS command to $x=0.283 \pm 0.006$ and $y=0.298 \pm 0.006$ on the White Balance Meter with PC arrow keys.
- 11) Display color 15,0 Full White(70x70mm) at mode 4.
- 12) DRIVE ADJ command.
- 13) Set B-DRIVE to 85(55(h)) at DRIVE of the alignment program.
- 14) Adjust R-DRIVE and G-DRIVE command to white balance $x=0.283 \pm 0.003$ and $y=0.298 \pm 0.003$ on the White Balance Meter with PC arrow keys.
- 15) Adjust SUB-CONTRAST command to $50 \pm 1\text{FL}$ of the raster luminance.
- 16) Display color 15,0 full white patten at Mode 4.
- 17) COLOR ADJ. → LUMINANCE → ABL command.
- 18) Adjust ABL to $32 \pm 1\text{FL}$ of the luminance.
- 19) Exit from the program.

4. EDID Data Edit Using Service software Program

4.1 Read and Modify EDID Data

- 1) Connector the monitor and adjust device as Figure1
- 2) Display color 15,0 cross hatch pattern at Mode 4.
- 3) Use EDIT – MODEL SEL. command to select the right model info file.
- 4) Use EDIT – EDID INFO command and return to read the EDID Data.
- 5) Modify the EDID Data if needed and using F10 to save the change and exit.

4.2 Write EDID Data.

- 1) Display color 15,0 cross hatch pattern at Mode 4.
- 2) Use 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.

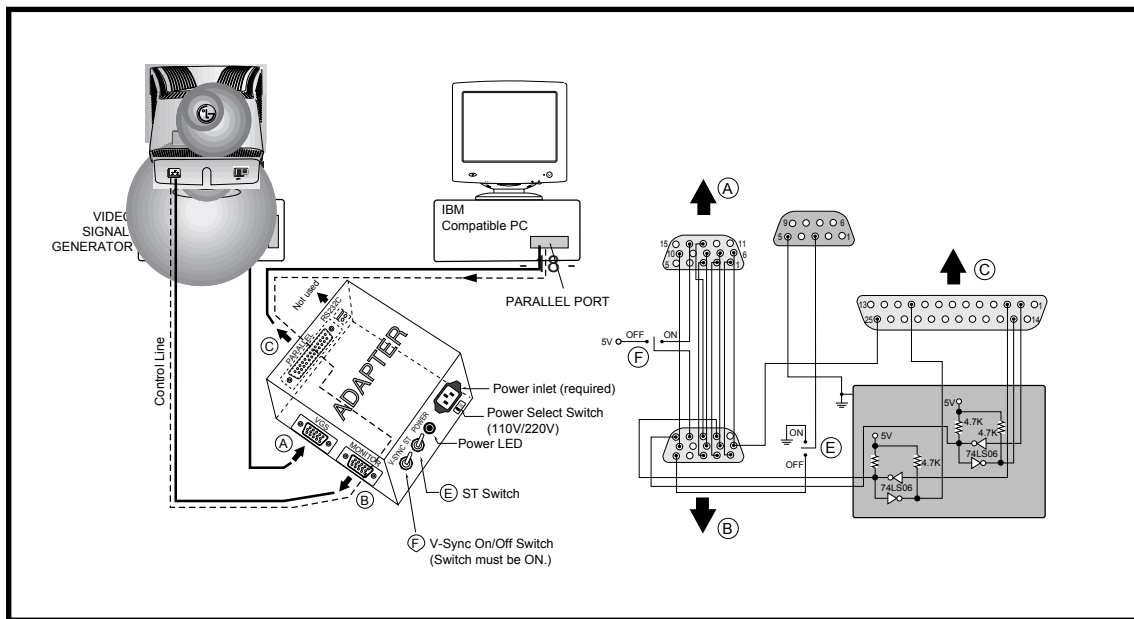
T530BL

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	#A8	#3B	*01	*01	*01	*01
10	**01	**0F	01	03	78	1C	15	B0	EA	60	59	A4	54	46	9B	24
20	10	48	4C	BF	E8	00	31	59	45	59	61	4A	01	01	01	01
30	01	01	01	01	01	01	64	19	00	40	41	00	26	30	18	88
40	36	00	0E	C8	10	00	00	18	F9	15	20	F8	30	58	1F	20
50	20	40	13	00	0E	C8	10	00	00	1E	00	00	00	FD	00	32
60	78	1E	38	08	00	0A	20	20	20	20	20	20	00	00	00	FC
70	00	54	35	33	30	42	0A	20	20	20	20	20	20	20	00	****

T530SL

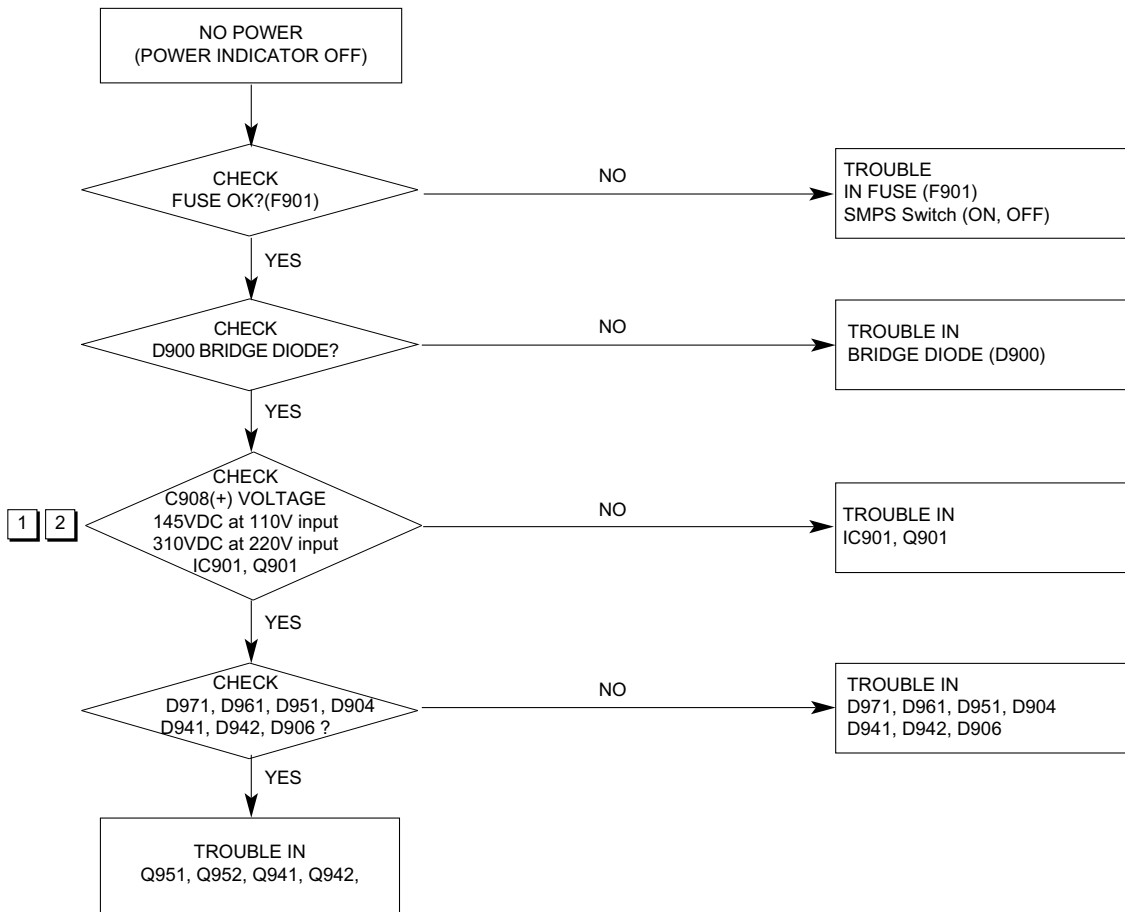
	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	#A9	#3B	*01	*00	*00	*00
10	**01	**0F	01	03	78	1C	15	B0	EA	60	59	A4	54	46	9B	24
20	10	48	4C	BF	E8	00	31	59	45	59	61	4A	01	01	01	01
30	01	01	01	01	01	01	64	19	00	40	41	00	26	30	18	88
40	36	00	0E	C8	10	00	00	18	F9	15	20	F8	30	58	1F	20
50	20	40	13	00	0E	C8	10	00	00	1E	00	00	00	FD	00	32
60	78	1E	38	08	00	0A	20	20	20	20	20	20	00	00	00	FC
70	00	54	35	33	30	53	0A	20	20	20	20	20	20	20	00	***

Figure 1. Cable Connection

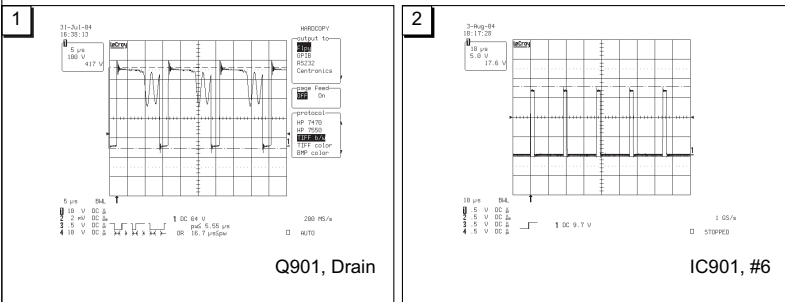


TROUBLESHOOTING GUIDE

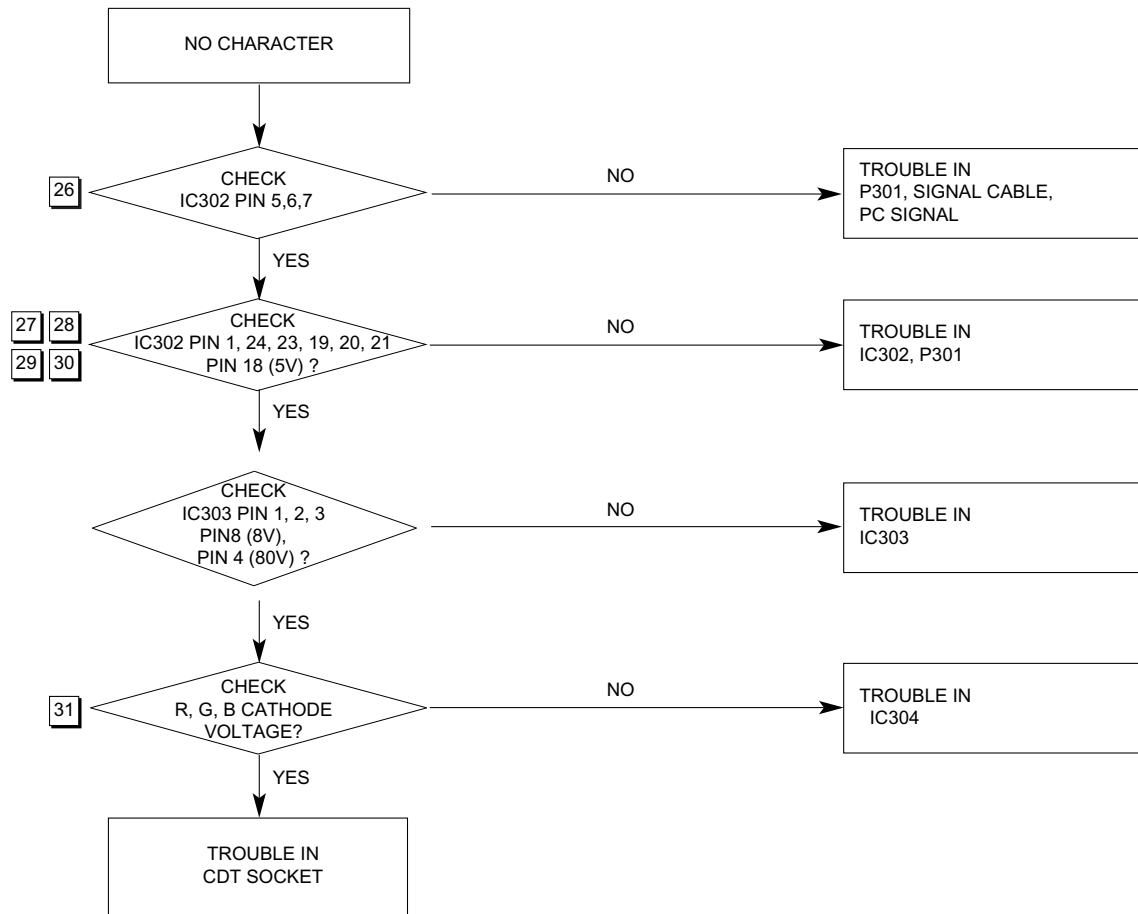
1. NO POWER



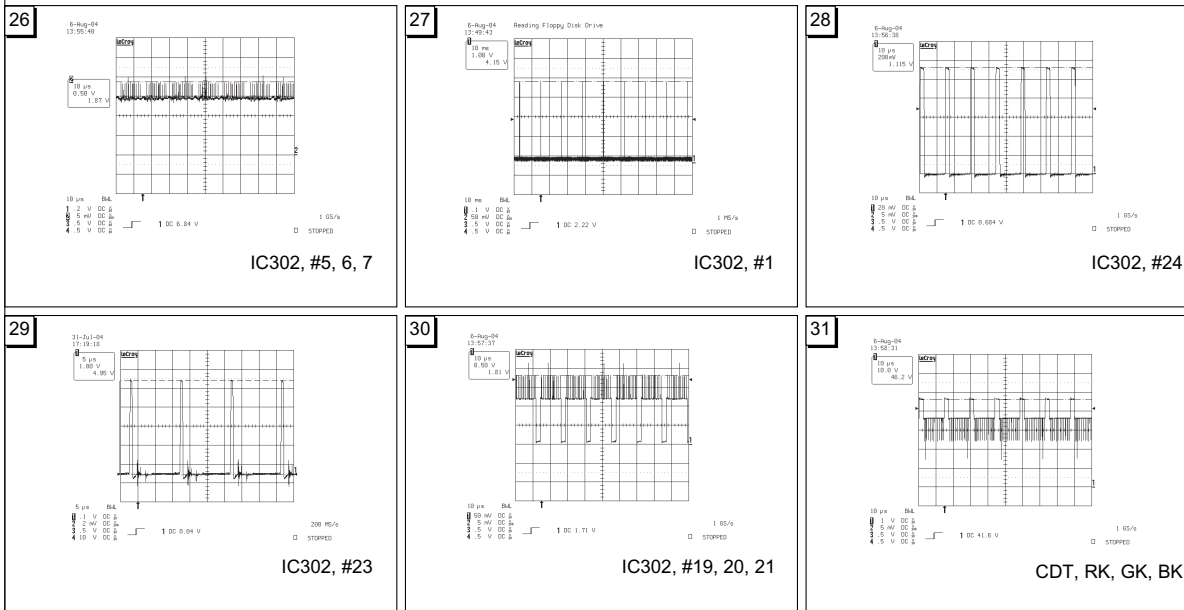
Waveforms



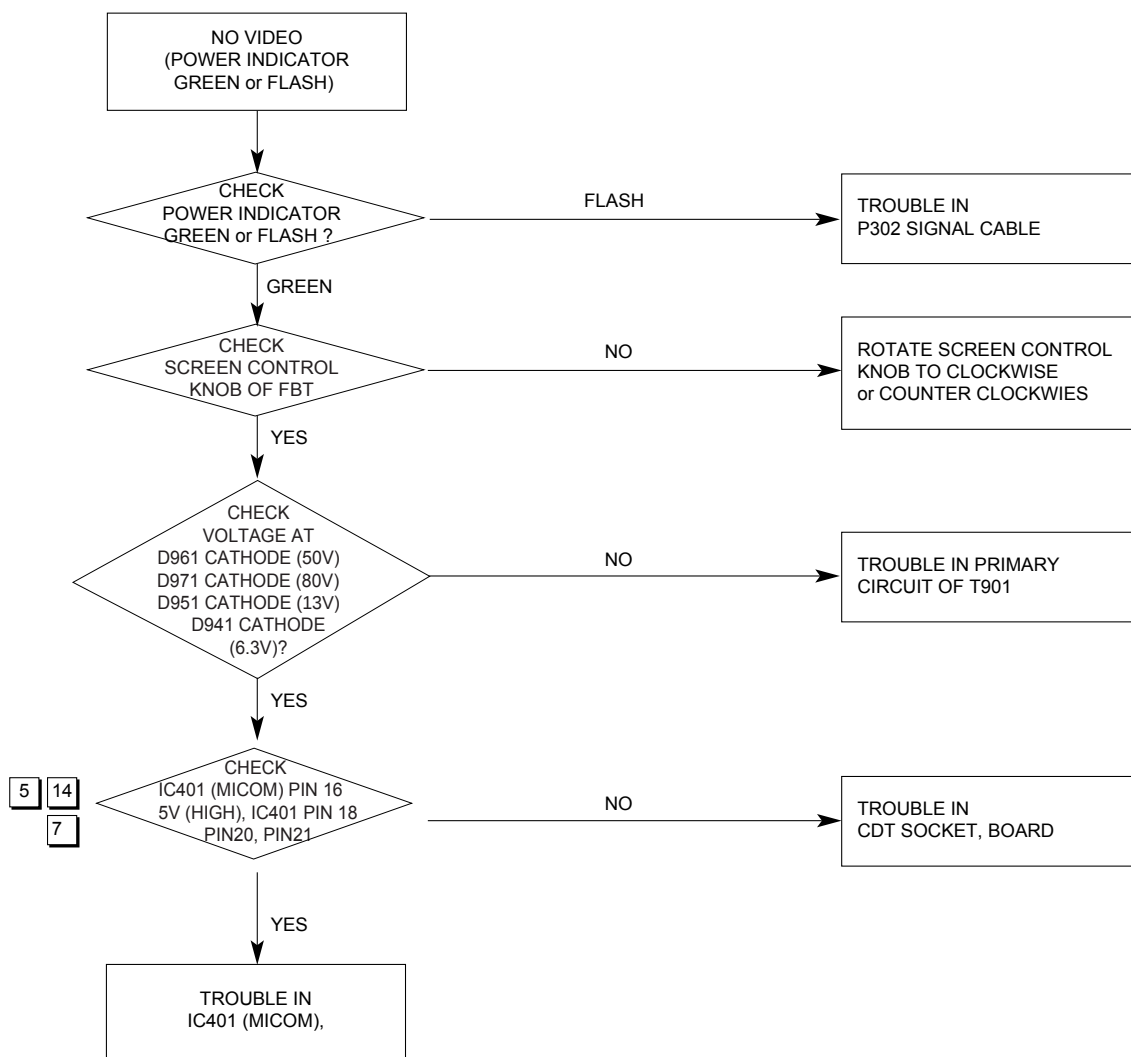
2. NO CHARACTER



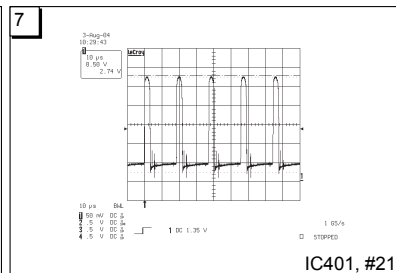
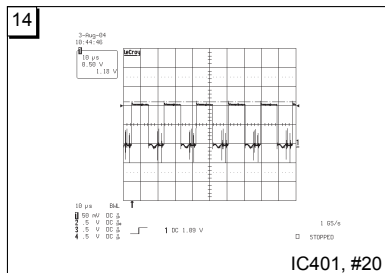
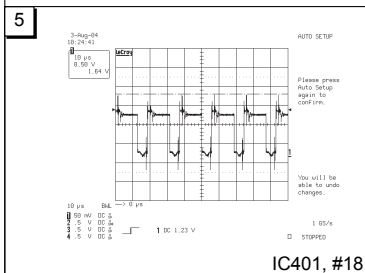
Waveforms



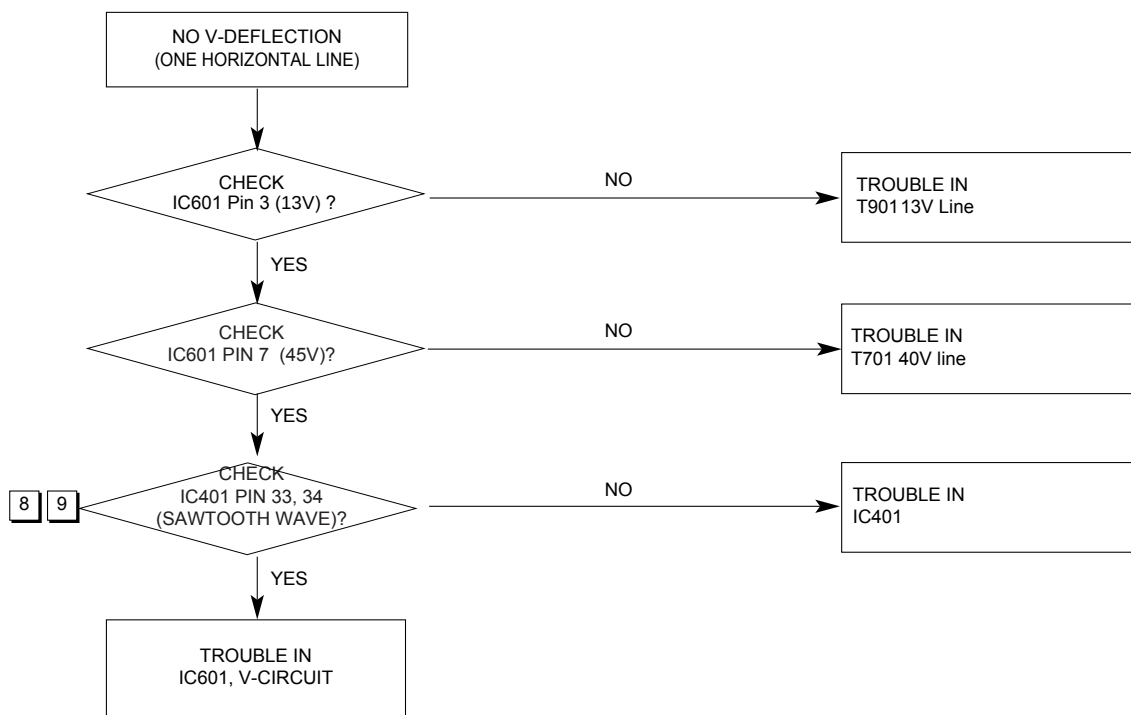
3. NO RASTER



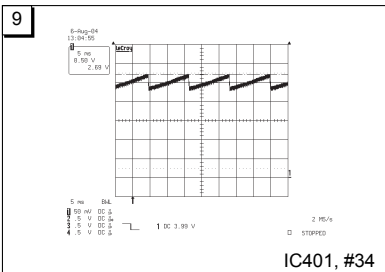
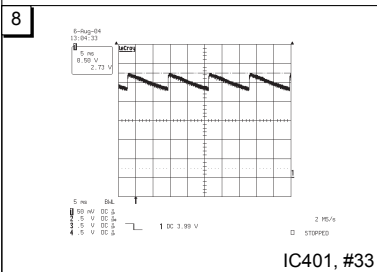
Waveforms



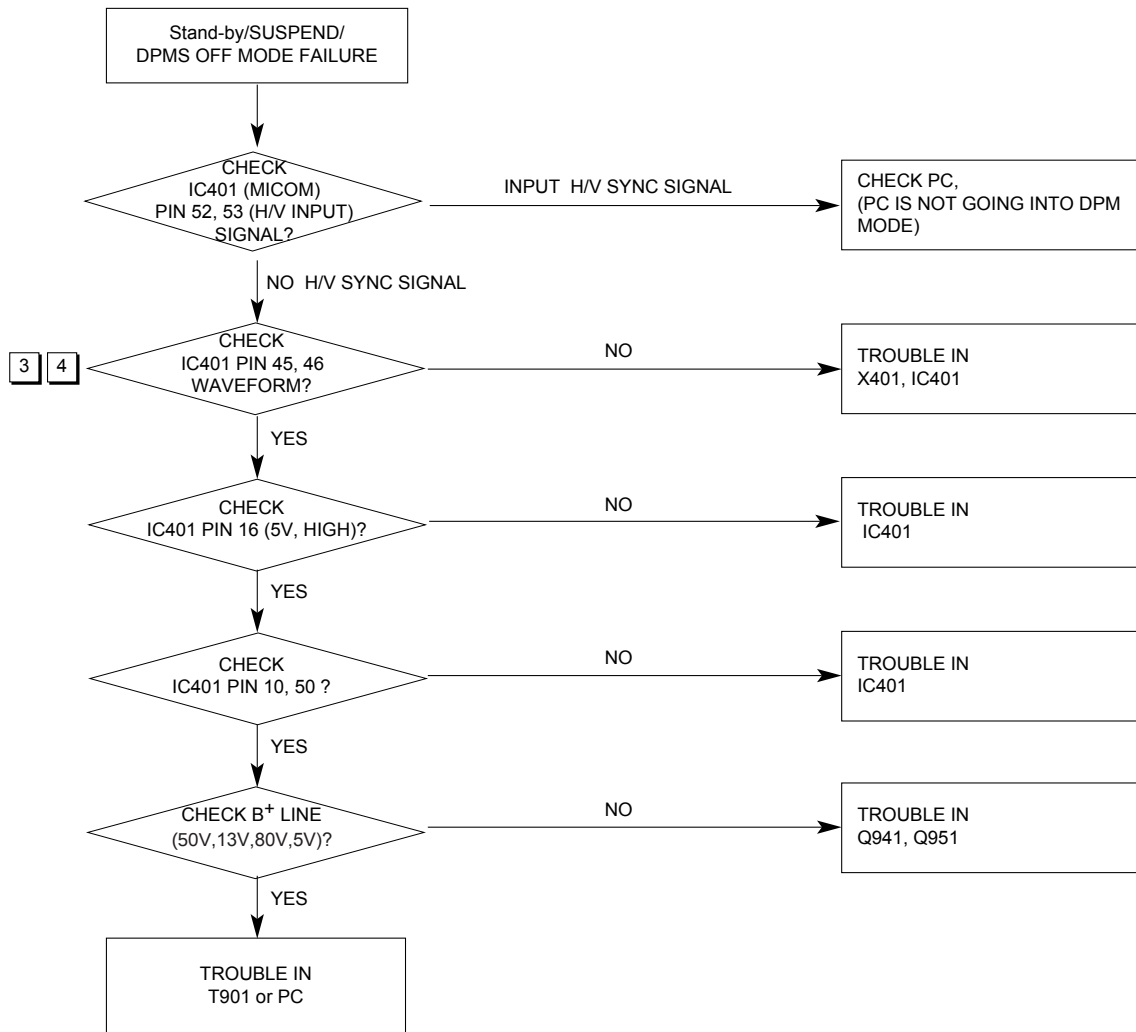
4. NO V-DEFLECTION (ONE HORIZONTAL LINE)



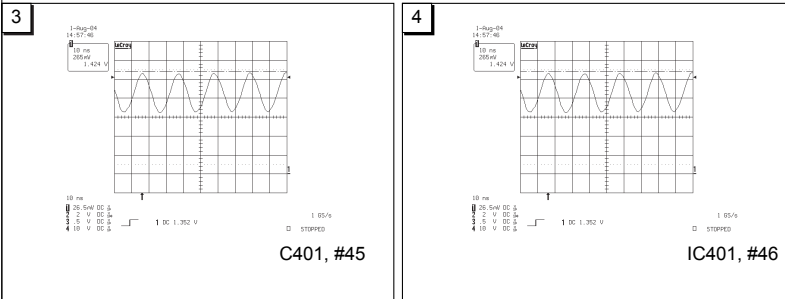
Waveforms



5. TROUBLE IN DPM



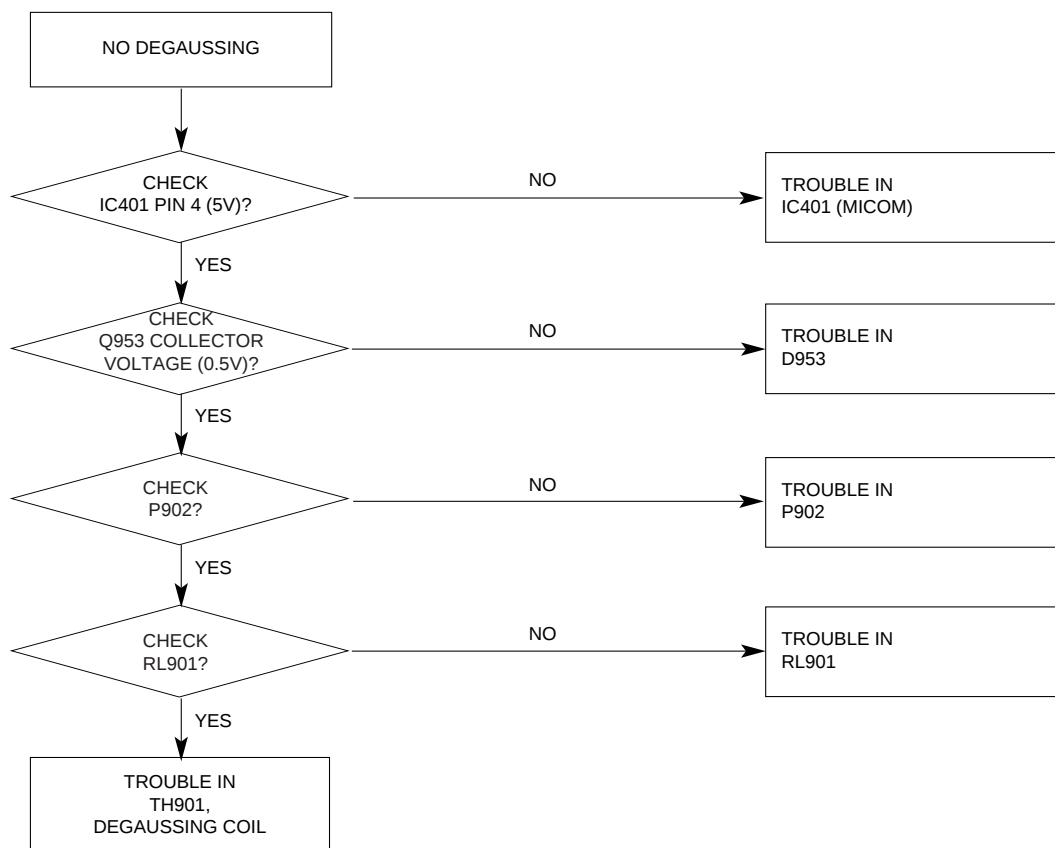
Waveforms



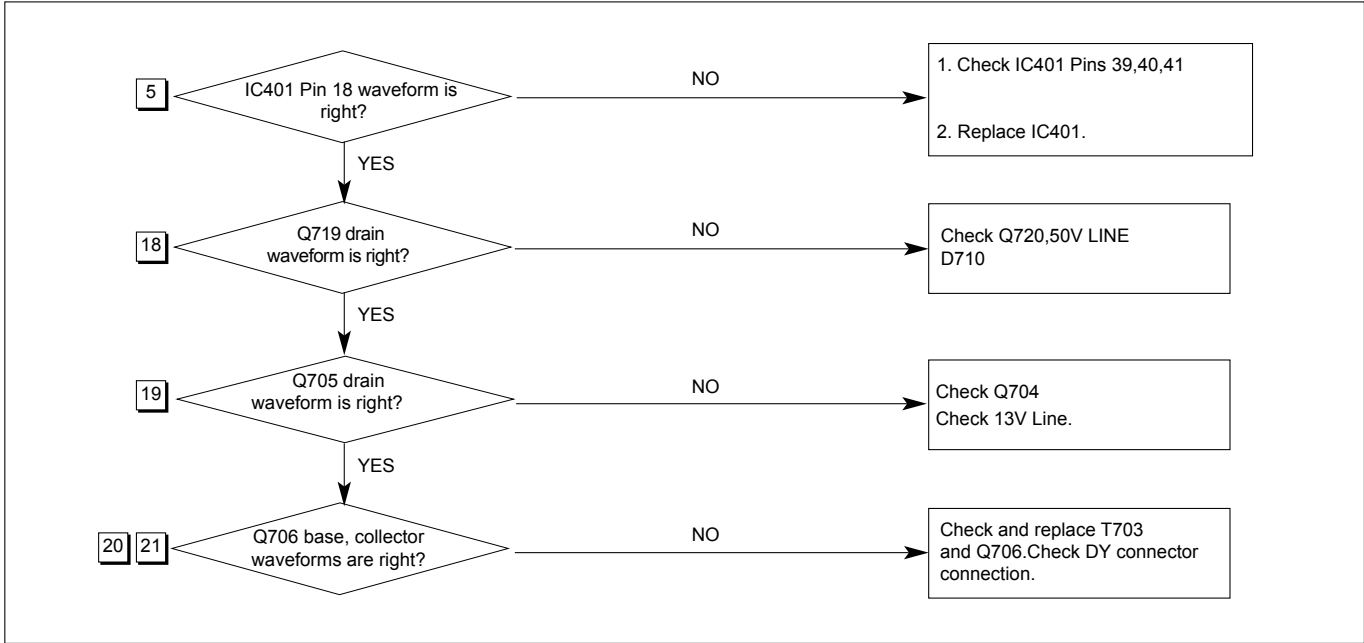
DPMS TABLE

ITEM MODE	H/V SYNC	VIDEO	LED
NORMAL	ON/ON	NORMAL	GREEN
STAND-BY	OFF/ON	OFF(0V)	FLASH
SUSPEND	ON/OFF	OFF(0V)	FLASH
OFF	OFF/OFF	OFF(0V)	FLASH

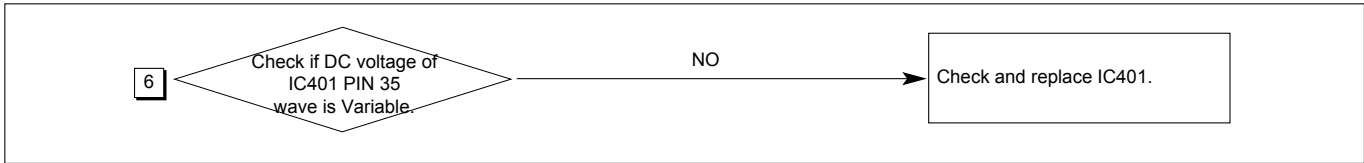
6. NO DEGAUSSING



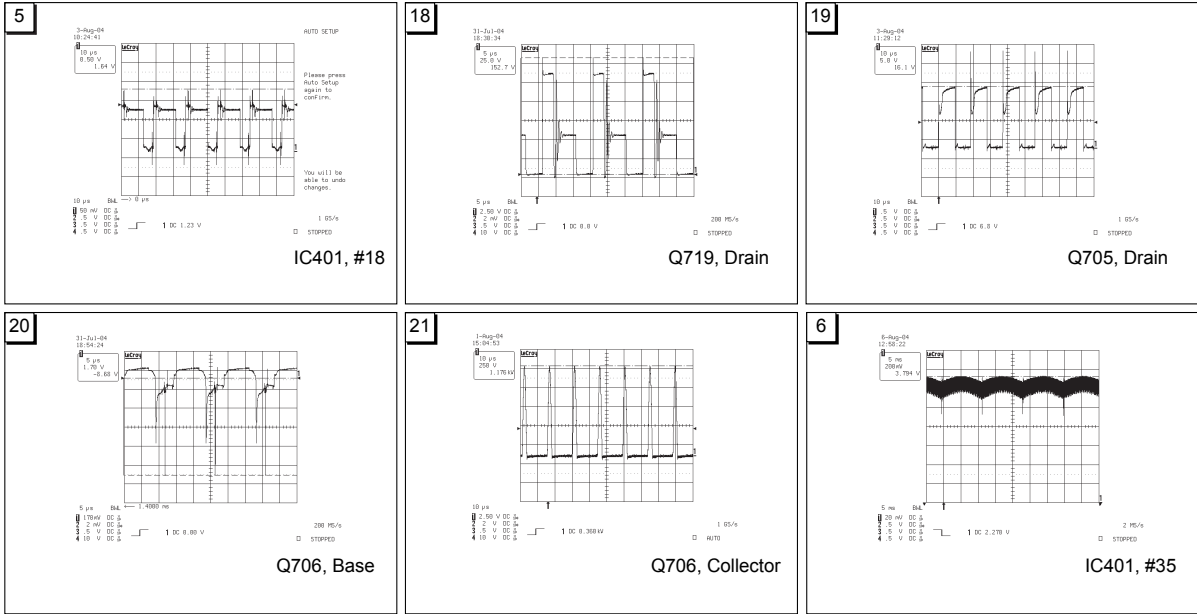
7. H_Deflection Failure



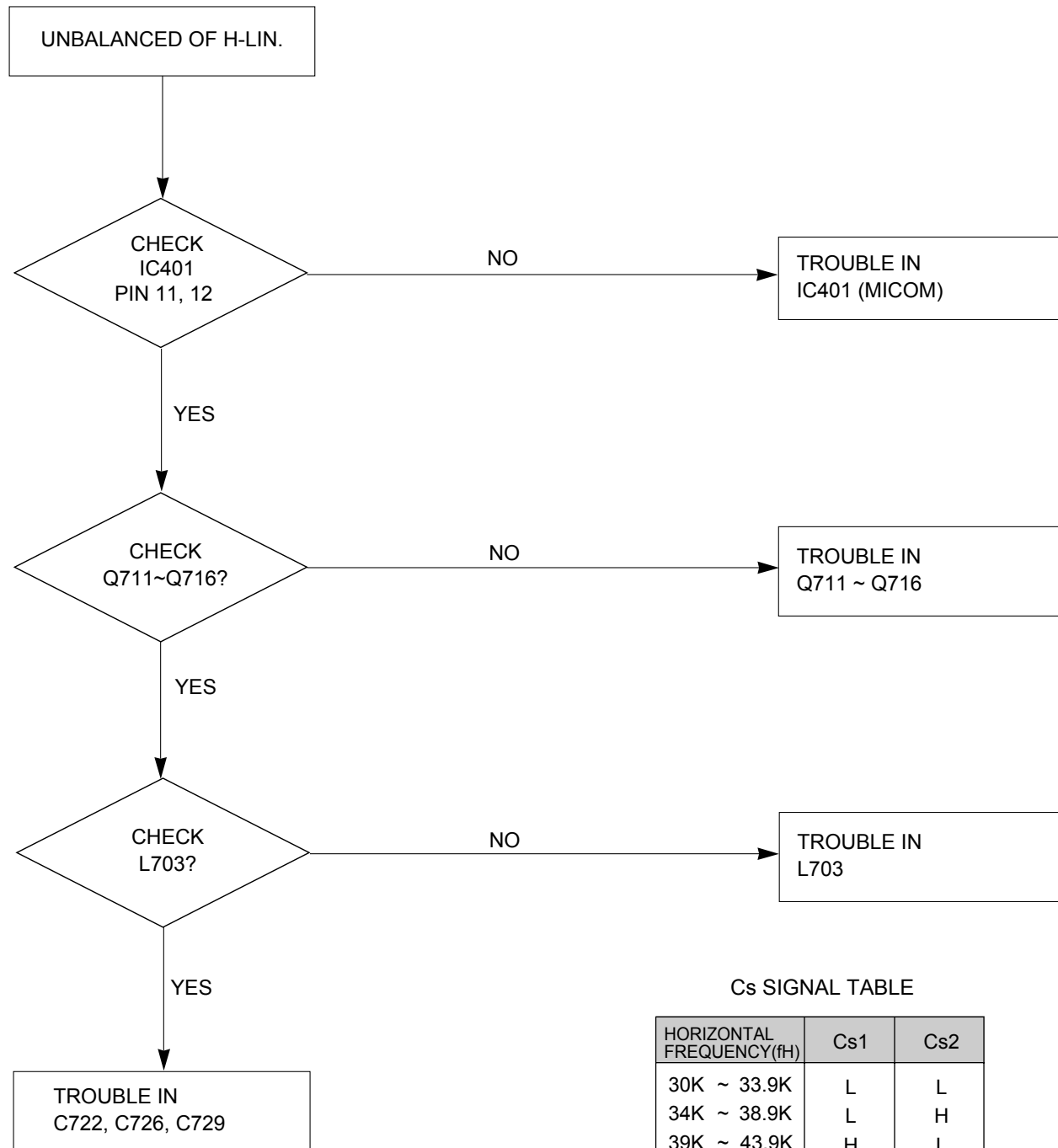
8. Invariable H_Size



Waveforms



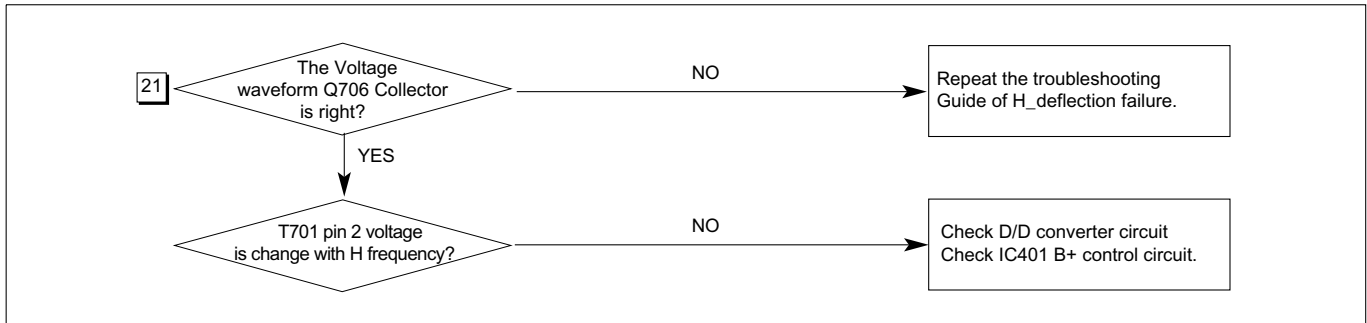
9. TROUBLE IN H-LINEARITY



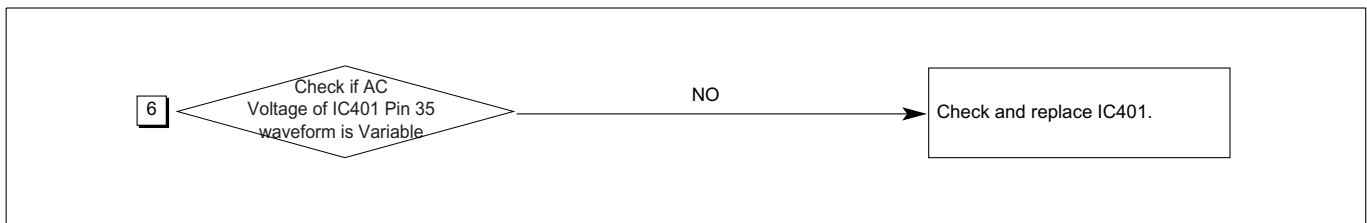
Cs SIGNAL TABLE

HORIZONTAL FREQUENCY(fH)	Cs1	Cs2
30K ~ 33.9K	L	L
34K ~ 38.9K	L	H
39K ~ 43.9K	H	L
44K ~ 48.9K	H	H
49K ~ 51.9K	H	H
52K ~ 57.9K	H	H

10. Abnormal H_Size



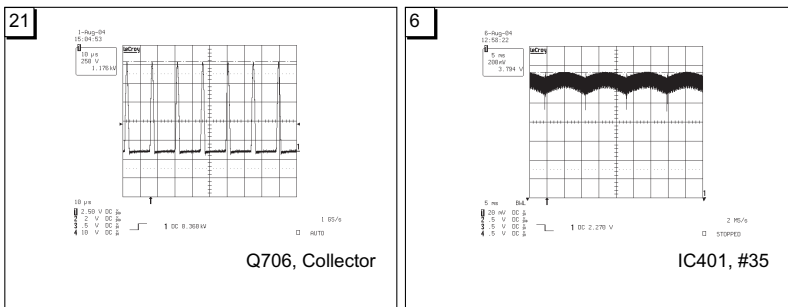
11. Side Pin or Trap Failure



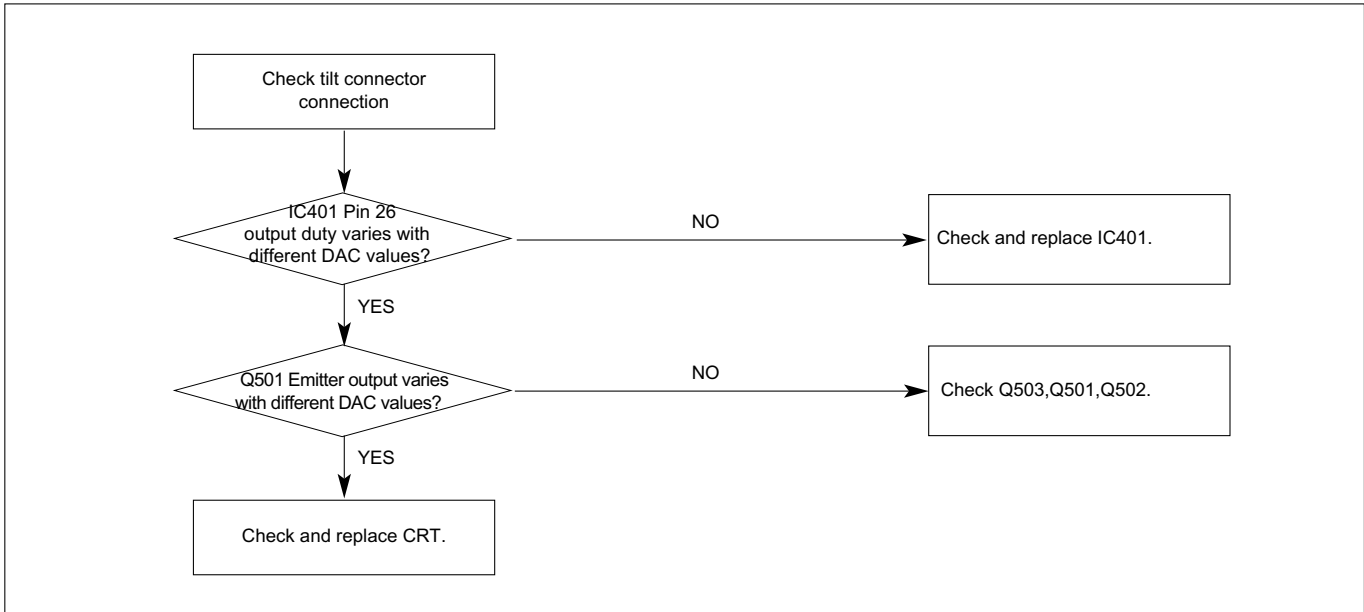
12. Para. or Pin Balance Failure



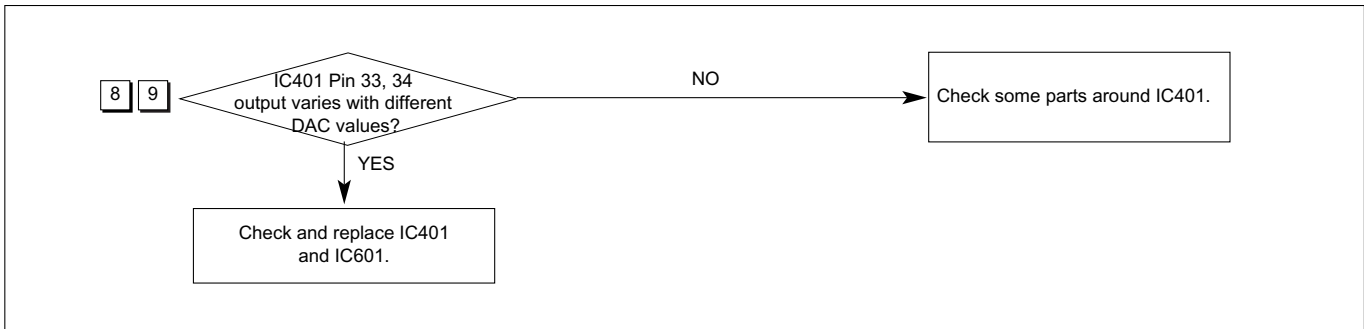
Waveforms



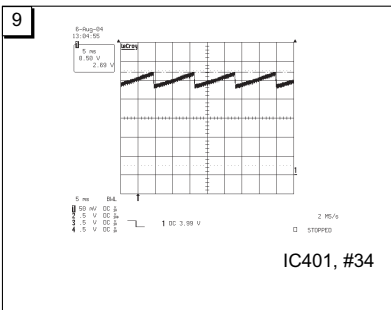
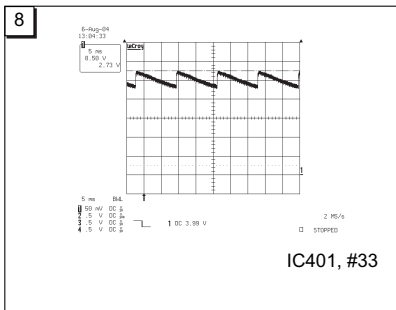
13. Tilt Failure(optional)



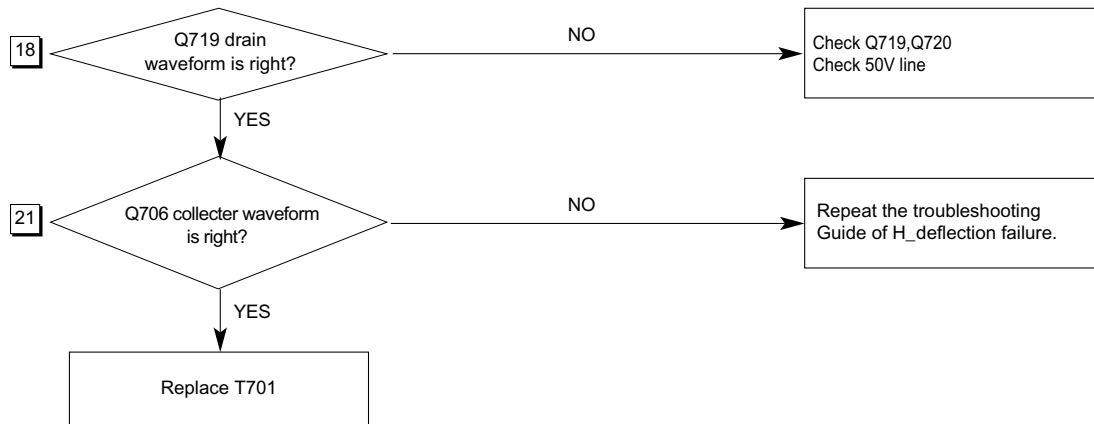
14. V Size or Pos. Variation Failure



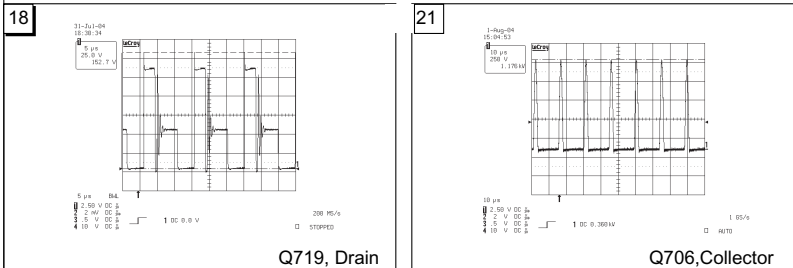
Waveforms



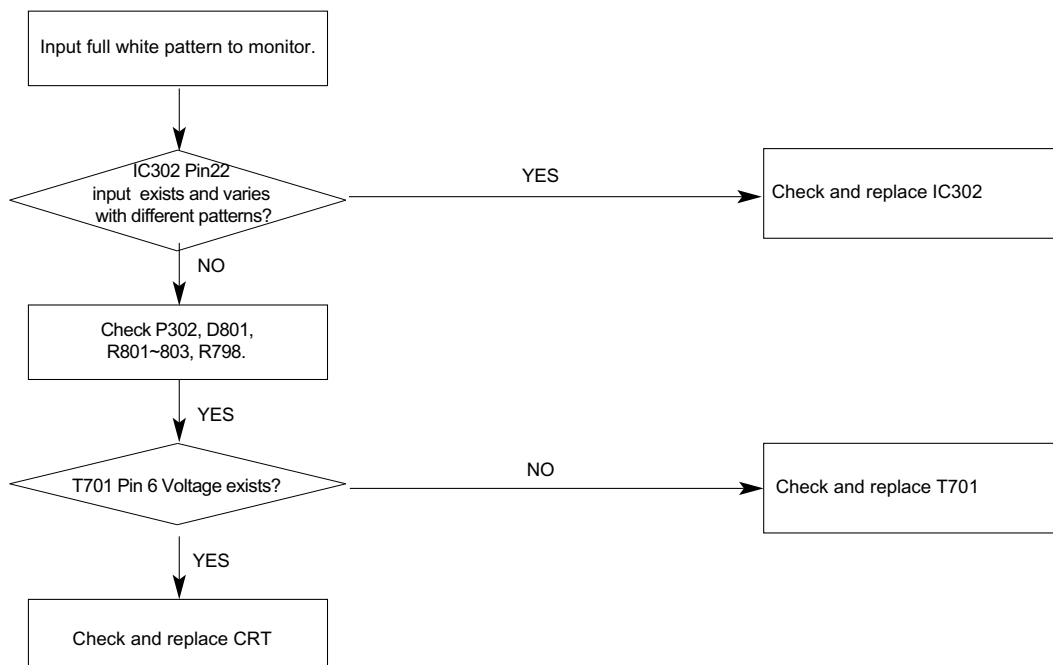
15. High Voltage Failure



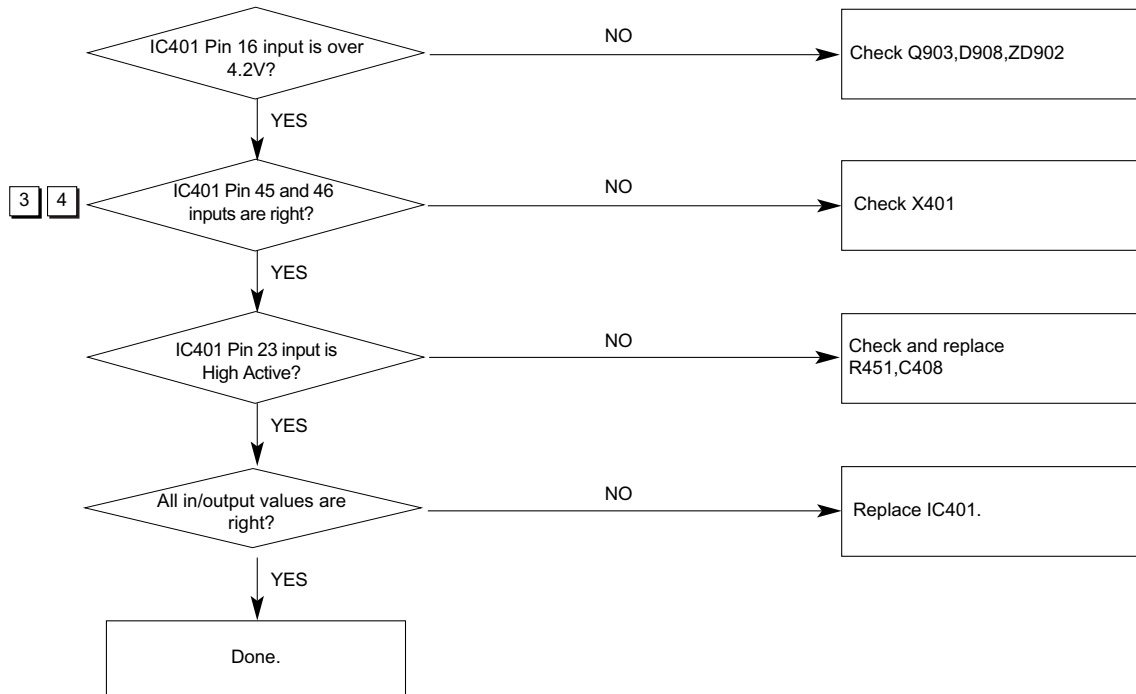
Waveforms



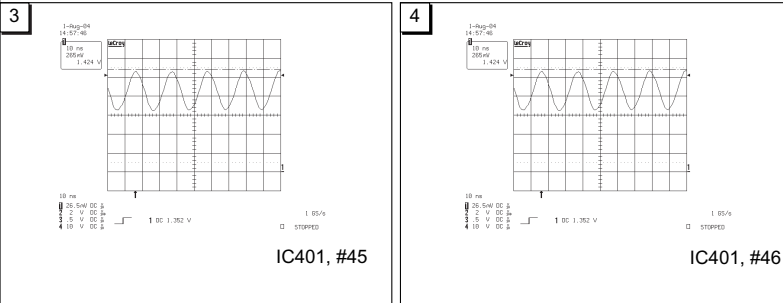
16. ABL Failure



17. Micom Failure



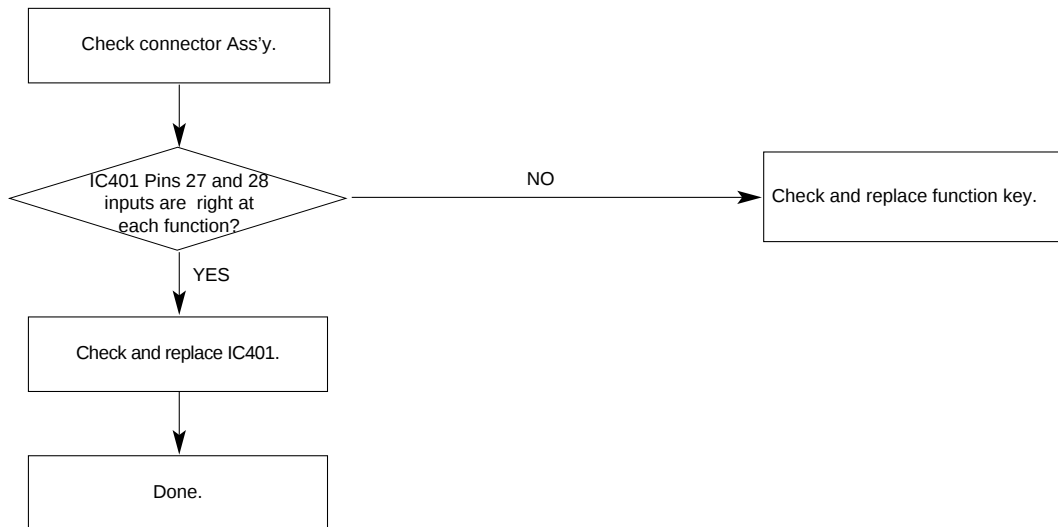
Waveforms



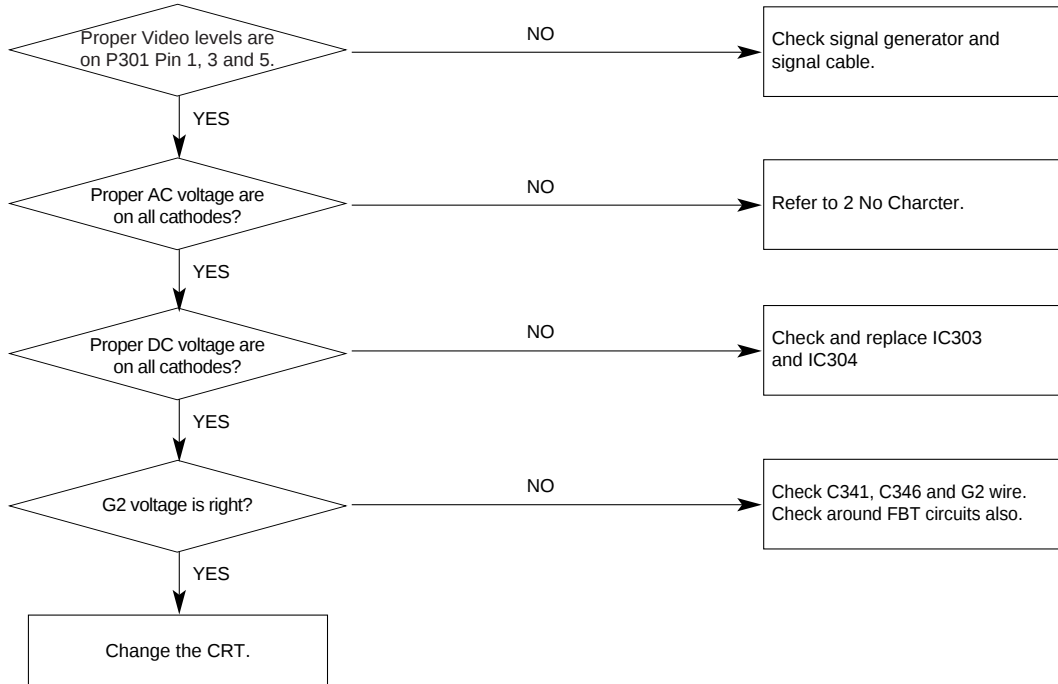
18. OSD Failure

Change IC302

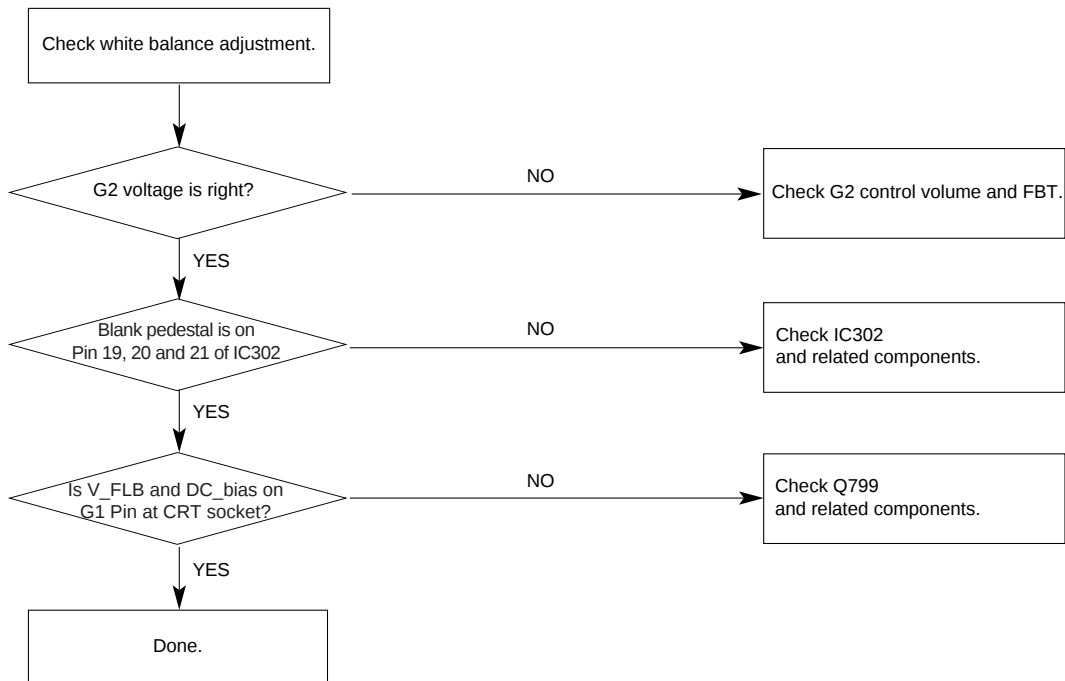
19. User Control Failure



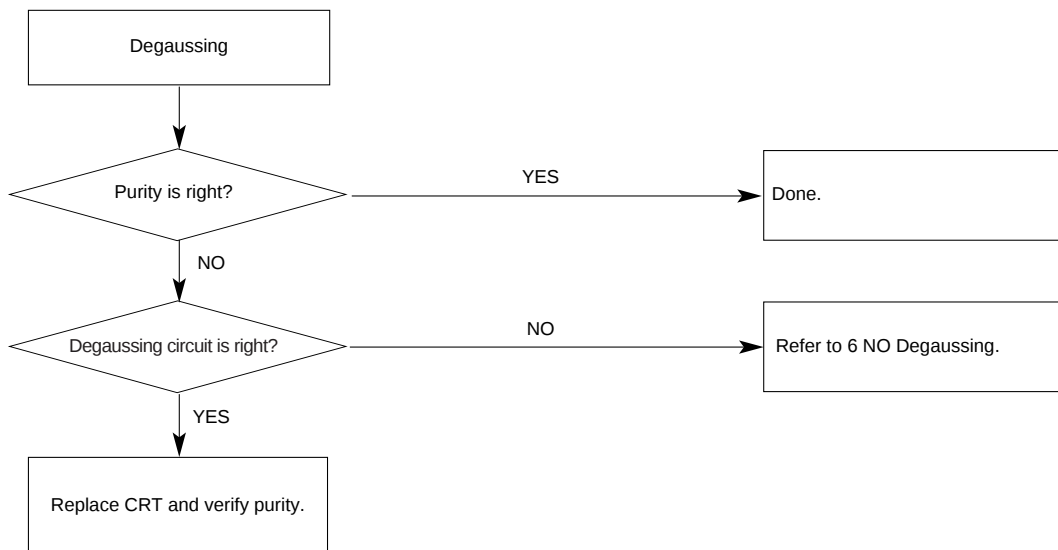
20. Missing Color



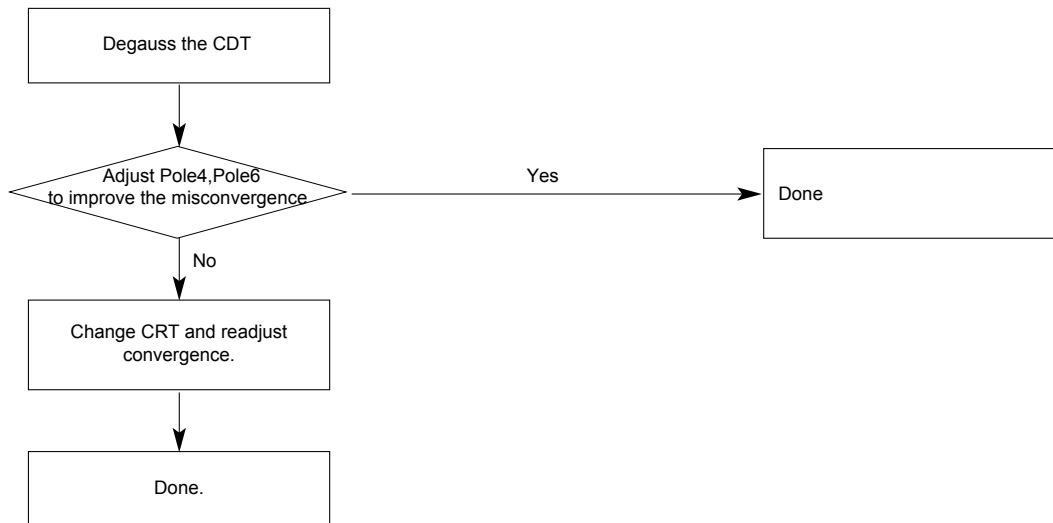
21. Visible Retrace



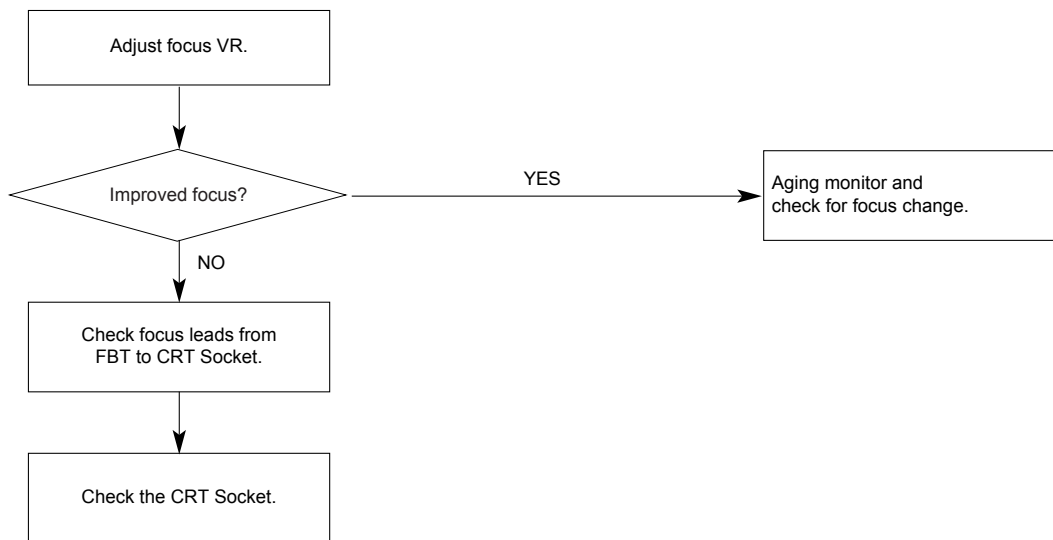
22. Purity Failure



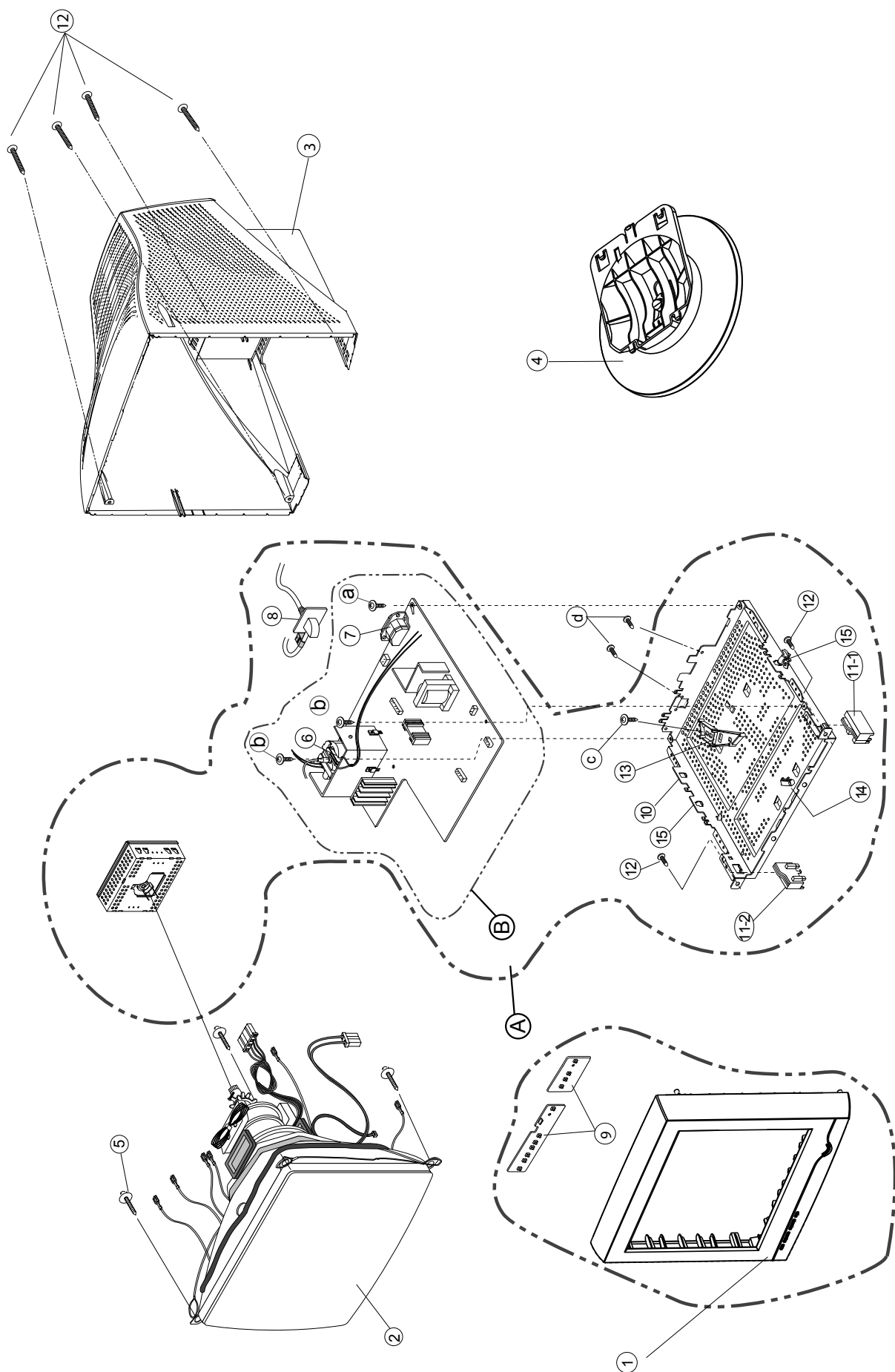
23. Misconvergence



24. Poor Focus



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Ref. No.	Part No.	Description
1	3091TKB055D	CABINET ASSEMBLY, T530 BRAND 043A(SILVER APRAY FOR DI)
	3091TKB055C	CABINET ASSEMBLY, T530 BRAND 043A(FOR LGEDI BLACK)
	3091TKB055A	CABINET ASSEMBLY, T530 BRAND TKB043A(FOR NT)
	3091TKB055E	CABINET ASSEMBLY, T530 BRAND 043A(FOR SP)
2	6318L15022C	CDT(CIRC), M36QFP503X01 QDDD LG-PHILIPS DISPLAY 54KHZ 29.1MM FCDT EQUATOR NON-MPR WITHOUT TILT
	6318L15022A	CDT(CIRC), M36QFP803X01 NDDD LG-PHILIPS DISPLAY 54KHZ 29.1MM FCDT MPR WITHOUT TILT
3	3809TKB028F	BACK COVER ASSEMBLY, T530 B032 320T 8C358
	3809TKB028B	BACK COVER ASSEMBLY, 505EL B032 320T 92166 BK
4	3043TKK071S	TILT SWIVEL ASSEMBLY, T530 B046 T051 320T-8C358A
	3043TKK071P	TILT SWIVEL ASSEMBLY, CB553H B046/T051 60HR 92166BK
	3043TKK071T	TILT SWIVEL ASSEMBLY, T530 B046 T051 320T(RUBBER PUSH)
5	339-002D	SCREW ASSEMBLY, PHP+5*30BP(FZMY)+GW18
6	6174T11006D	FBT (FLY BACK TRANSFORMER), C93 BSC24-1445 FUJIAN FURI(HIACHI) 15"
7	6620TKB003B	SOCKET(CIRC),POWER, SA-4S-061P-LF HUA JIE AC UNIVERSAL 3PIN BLACK
8	6850TA9012A	CABLE,D-SUB, UL20276-9C(5.8MM) AT 1560MM GRAY(85964) T710BJ DM
	6850TA9012C	CABLE,D-SUB, UL20276-9C(5.8MM) AT 1500MM BLACK 9930 700BJ DM
9	6871TST985C	PWB(PCB) ASSEMBLY,SUB, T530SL CONTROL TOTAL BRAND CA-138
	6871TST985A	PWB(PCB) ASSEMBLY,SUB, T530EL CONTROL TOTAL BRAND CA-138
	6871TST985E	PWB(PCB) ASSEMBLY,SUB, T530SSL KLPAALM CONTROL TOTAL BRAND CA-138
10	4950TKS331C	METAL, SHIELD T530
11-1	4810TKK153A	BRACKET, CB773D SUPPORTER CDT
11-2	4810TKK154A	BRACKET, CB773D SUPPORTER CDT
12	332-102F	SCREW, PTP+4*20BP(MSWR/FZMY)
13	4810TKK204K	BRACKET, T530 HOLDER FBT
14	4930TKK036A	HOLDER,PCB FIX FB770G
15	4930TKK031C	HOLDER,PCB FIX,PC+ABS
A	3313T15104D	MAIN TOTAL ASSEMBLY, T530BL KLANML BRAND CA-138
	3313T15104C	MAIN TOTAL ASSEMBLY, T530SL BRAND CA-138
	3313T15104A	MAIN TOTAL ASSEMBLY, T530EL BRAND CA-138
	3313T15104L	MAIN TOTAL ASSEMBLY, T530SL.BR BRAND CA-138
B	6871TMTA38A	PWB(PCB) ASSEMBLY,MAIN, T530EL KLRDMT BRAND CA-138 TOTAL
	6871TMTA38C	PWB(PCB) ASSEMBLY,MAIN, T530SL KLEUALD BRAND CA-138 TOTAL
	6871TMTA38G	PWB(PCB) ASSEMBLY,MAIN, T530SL BRAZIL BRAND CA-138 TOTAL
a	332-112F	SCREW,DRAWING, D3.5 L10.0 MSWR/FZMY +SW3.5+RW3.5
b	4001TKK004E	SCREW ASSEMBLY, TAPTITE P TYPE D3.0 L10.0 MSWR/FZMY SW3+RW10
c	332-095B	SCREW,DRAWING, PZP+3*10(MSWR/FZMY)
d	332-110A	SCREW, PZS+3*6(MSWR/FZMY)

REPLACEMENT PARTS LIST

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

* NOTE : S SAFETY Mark
AL ALTERNATIVE PARTS

MODEL :T530BL/T530SL				DATE:2005.03.11
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
CAPACITORS				
		C301	6871TMAA04C	0.001UF D 100V 5% PE TP5
		C302	6871TMAA04C	"10UF SHL,SD 16V M FM5 TP 5"
		C303	6871TMAA04C	56P 50V J NP0 TP
		C304	6871TMAA04C	56P 50V J NP0 TP
		C305	6871TMAA04C	"47UF SHL,SD 16V M FM5 TP 5"
		C306	6871TMAA04C	ECQB1H103JF3 MATSUSHITA 50V 10000PF 5% TAPING 103J
		C307	6871TMAA04C	56P 50V J NP0 TP
		C308	6871TMAA04C	1000PF 50V K B TR
		C309	6871TMAA04C	0.1UF 50V Z F TR
		C311	6871TMAA04C	0.1UF 50V Z F TR
		C312	6871TMAA04C	0.1UF 50V Z F TR
		C313	6871TMAA04C	0.1UF 50V Z F TR
		C314	6871TMAA04C	47PF 500V J SL TP
		C315	6871TMAA04C	47UF KMG 16V M FM5 TP 5
		C317	6871TMAA04C	0.1UF 50V Z F TR
		C318	6871TMAA04C	0.1UF 50V Z F TR
		C319	6871TMAA04C	0.1UF 50V Z F TR
		C320	6871TMAA04C	1000PF D 2KV 10% TR B(Y5P)
		C321	6871TMAA04C	"2.2UF SHL,SD 50V M FM5 TP 5"
		C323	6871TMAA04C	"47UF SHL,SD 16V M FM5 TP 5"
		C324	6871TMAA04C	0.1UF 50V Z F TR
		C325	6871TMAA04C	MKT 100V 104JTR PHS26104
		C326	6871TMAA04C	22PF 500V J NP0 TR
		C327	6871TMAA04C	MKT 100V 104JTR PHS26104
		C328	6871TMAA04C	22UF KMG 100V M FM5 TP 5
		C329	6871TMAA04C	MKT 100V 104JTR PHS26104
		C330	6871TMAA04C	MKT 100V 104JTR PHS26104
		C331	6871TMAA04C	MKT 100V 334JTR PHS26334
		C332	6871TMAA04C	MKT 100V 334JTR PHS26334
		C333	6871TMAA04C	MKT 100V 334JTR PHS26334
		C334	6871TMAA04C	MKT 100V 104JTR PHS26104
		C335	6871TMAA04C	MKT 100V 104JTR PHS26104
		C339	6871TMAA04C	1500P 500V K B TS
		C340	6871TMAA04C	MKT 100V 104JTR PHS26104
		C341	6871TMAA04C	1000PF D 2KV 10% TR B(Y5P)
		C344	6871TMAA04C	MKT 100V 104JTR PHS26104
		C346	6871TMHA72C	0.01M 2KV Z F S
		C372	6871TMAA04C	0.1UF 50V Z F TR
		C401	6871TMAA04C	0.1UF 50V Z F TR
		C404	6871TMAA04C	0.1UF 50V Z F TR
		C405	6871TMAA04C	470UF SHL TYPE 16V M FM5 TP 5
		C406	6871TMAA04C	100PF D 2KV 10% B(Y5P) TR
		C407	6871TMAA04C	0.0047UF D 100V 5% PE TP5
		C408	6871TMAA04C	0.1UF 50V Z F TR
		C409	6871TMAA04C	"10UF SHL,SD 16V M FM5 TP 5"
		C410	6871TMAA04C	100PF 50V K B TR
		C411	6871TMAA04C	100PF 50V K B TR
		C412	6871TMAA04C	1000PF 50V K B TR
		C413	6871TMAA04C	100PF 50V K B TR
		C414	6871TMAA04C	"10UF SHL,SD 16V M FM5 TP 5"
		C415	6871TMAA04C	2200P 50V K B TS
		C416	6871TMAA04C	0.01U 100V J POLY TP
		C417	6871TMAA04C	MKT 100V 104JTR PHS26104
		C419	6871TMAA04C	2200PF 100V J PE TP
		C420	6871TMAA04C	0.068U 100V K POLY TP
		C421	6871TMAA04C	1000PF 50V K B TR

MODEL :T530BL/T530SL					DATE:2005.03.11				
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON					
		C422	6871TMAA04C	2200P 50V K B TS					
		C423	6871TMAA04C	2200P 50V K B TS					
		C424	6871TMAA04C	"4.7UF SHL,SD 50V M FM5 TP 5"					
		C426	6871TMAA04C	470PF 50V K B TR					
		C427	6871TMAA04C	470PF 50V K B TR					
		C430	6871TMAA04C	0.1UF 50V Z F TR					
		C601	6871TMAA04C	"220UF KMG,RD 16V 20% TP 5 FM5"					
		C602	6871TMAA04C	MKT 100V 104JTR PHS26104					
		C603	6871TMAA04C	100UF KMG 50V M FM5 TP 5					
		C604	6871TMAA04C	MKT 100V 333JTR PHS 86333					
		C605	6871TMAA04C	1000PF D 500V 10% B(Y5P) TR					
		C701	6871TMAA04C	0.1UF 50V Z F TR					
		C712	6871TMAA04C	0.1UF 50V Z F TR					
		C713	6871TMAA04C	220P 50V K B TS					
		C714	6871TMAA04C	"100UF SHL,SD 25V M FM5 TP 5"					
		C715	6871TMAA04C	MKT 100V 103JTR PHS86103					
		C719	6871TMHA72C	SHL-BP SYE / SWE 50V 3.3UF 20% BULK EB770H					
		C722	6871TMHA72C	224J 30.0*19.5*12.0*20.0 250V J PU FM20					
		C724	6871TMAA04C	0.1UF 50V Z F TR					
		C725	6871TMAA04C	680P 500V K B TS					
		C726	6871TMHA72C	823J 20.0*17.5*10.0*10.0 250V J PU FM10					
		C729	6871TMHA72C	304J 19.0*18.5*10.5*10.0 250V J MPP FM10					
		C730	6871TMAA04C	0.1UF 50V Z F TR					
		C731	6871TMHA72C	472J 29.0*20.0*9.0*20.0 2.5KV J BUP FM20					
		C733	6871TMHA72C	682J 20.0*17.5*10.0*10.0 800V J PU FM10					
		C739-1	6871TMAA04C	"10UF SHL,SD 100V M FM5 TP 5"					
		C740	6871TMHA72C	220UF KMG 63V 20% FM5 BULK					
		C741	6871TMAA04C	ECQV1H154JZ3 154J 50V TP5.0 MATSUSHITA					
		C744	6871TMHA72C	684J 26.0*19.0*12.5*15.0 250V J MPP FM15					
		C748	6871TMAA04C	150PF 500V K B TR					
		C749	6871TMAA04C	4.7000UF SMS 200V M FM5 TP5					
		C750	6871TMAA04C	0.1UF 50V Z F TR					
		C756	6871TMAA04C	47PF D 50V 10% B(Y5P) TR					
		C801	6871TMAA04C	MKT 100V 104JTR PHS26104					
△		C901	6871TMHA72C	BULK PCX2 335 474K					
△		C902	6871TMHA72C	BULK PCX2 335 104M					
△		C903	6871TMHA72C	BULK 7.5 CS E 102M 8.0 250V TDK					
△		C904	6871TMHA72C	BULK 7.5 CS E 222M 10.5 250V TDK					
△		C905	6871TMHA72C	BULK 7.5 CS E 222M 10.5 250V TDK					
△		C906	6871TMHA72C	BULK 7.5 CS E 102M 8.0 250V TDK					
△		C907	6871TMHA72C	BULK 7.5 CS E 472M 14.5 250V TDK					
		C908	6871TMHA72C	"150UF SMH,HC(25.4*30) 400V M VNSN BULK"					
		C909	6871TMAA04C	"10000PF D 1KV 80%,-20% F(Y5V) TR"					
		C910	6871TMAA04C	100PF 1KV K B TR					
		C911	6871TMAA04C	"4.7UF SHL,SD 50V M FM5 TP 5"					
		C912	6871TMAA04C	330P 50V K B TS					
		C913	6871TMAA04C	"47UF SHL,SD 50V M FM5 TP 5"					
		C914	6871TMAA04C	ECQB1H153JM3 153J 50V TP5.0 MATSUSHITA					
		C915	6871TMAA04C	680P 50V K B TS					
		C917	6871TMAA04C	1000PF 50V K B TR					
		C918	6871TMAA04C	0.1UF 50V Z F TR					
		C941	6871TMAA04C	1000UF SHL 10V M FL TP5					
		C942	6871TMAA04C	"100UF SHL,SD 16V M FM5 TP 5"					

MODEL :T530BL/T530SL				DATE:2005.03.11	
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON	
		C943	6871TMAA04C	560P 1KV K B TS	
		C951	6871TMHA72C	1000UF SHL 16V M FM5 BULK	
		C952	6871TMAA04C	"100UF SHL,SD 16V M FM5 TP 5"	
		C953	6871TMAA04C	470UF SHL TYPE 16V M FM5 TP 5	
		C954	6871TMAA04C	1000UF KMG 10V M FL TP 5	
		C971	6871TMAA04C	47UF KMG 50V M FM5 TP 5	
		C998	6871TMHA72C	220UF KMG 63V 20% FM5 BULK	
DIODEs					
		D301	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA	
		D302	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA	
		D303	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA	
		D304	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA	
		D305	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA	
		D306	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA	
		D307	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA	
		D308	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA	
		D309	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA	
		D310	6871TMAA04C	PSS244 PCTRONIX TP DO34 280V 625MA 1000MA 50NSSEC 10UA	
		D311	6871TMAA04C	PSS244 PCTRONIX TP DO34 280V 625MA 1000MA 50NSSEC 10UA	
		D312	6871TMAA04C	PSS244 PCTRONIX TP DO34 280V 625MA 1000MA 50NSSEC 10UA	
		D313	6871TMAA04C	PSS244 PCTRONIX TP DO34 280V 625MA 1000MA 50NSSEC 10UA	
		D314	6871TMAA04C	PSS244 PCTRONIX TP DO34 280V 625MA 1000MA 50NSSEC 10UA	
		D315	6871TMAA04C	PSS244 PCTRONIX TP DO34 280V 625MA 1000MA 50NSSEC 10UA	
		D316	6871TMAA04C	1N4005-1021 TIWAN SEMI TP DO41 600V 1A 30A 2USSEC 5.0UA	
		D401	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA	
		D402	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA	
		D403	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA	
		D406	6871TMAA04C	PSS244 PCTRONIX TP DO34 280V 625MA 1000MA 50NSSEC 10UA	
		D703	6871TMHA72C	MUR460(15MM) GULF BK DO201AD 600V 4A 150A 45NSSEC 10UA	
		D704	4921TKK457C	"FFPF04F150STU,LF FAIR CHILD ST TO220F 1500V 4A 40A 170NSEC 5UA"	
		D705	6871TMAA04C	SRT14(1021) TIWAN SEMI TP NON 40V 1A 25A .SEC 0.5MA	
		D706	6871TMHA72C	"FFPF04F150STU,LF FAIR CHILD ST TO220F 1500V 4A 40A 170NSEC 5UA"	
		D710	6871TMAA04C	UF4004 GULF TP DO41 400V 1A 30A 50NSEC 10UA	
		D712	6871TMAA04C	RGP10G-1021 TIWAN SEMI TP DO41 400V 1A 30A 150NSEC 5UA	
		D714	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA	
		D715	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA	
		D716	6871TMAA04C	1N4005-1021 TIWAN SEMI TP DO41 600V	

MODEL :T530BL/T530SL				DATE:2005.03.11
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		D717	6871TMAA04C	1A 30A 2USSEC 5.0UA 1N4005-1021 TIWAN SEMI TP DO41 600V 1A 30A 2USSEC 5.0UA
		D719	6871TMAA04C	RGF10J-1021 TIWAN SEMI TP DO41 600V 1A 30A 250NSEC 5UA
⚠		D721	6871TMAA04C	RGF10G-1021 TIWAN SEMI TP DO41 400V 1A 30A 150NSEC 5UA
		D723	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA
		D724	6871TMAA04C	1N4005-1021 TIWAN SEMI TP DO41 600V 1A 30A 2USSEC 5.0UA
		D801	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA
		D900	6871TMHA72C	D2SB60-1121 TIWAN SEMI ST GBL 600V 2A 80A _SEC 10UA
		D904	6871TMAA04C	RGF10G-1021 TIWAN SEMI TP DO41 400V 1A 30A 150NSEC 5UA
		D905	6871TMAA04C	UF4007-1021 TIWAN SEMI TP DO204AL 1000V 1A 30A 75NSEC 10UA
		D906	6871TMAA04C	RGF10G-1021 TIWAN SEMI TP DO41 400V 1A 30A 150NSEC 5UA
		D908	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA
		D910	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA
		D911	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA
		D941	6871TMAA04C	UF4004 GULF TP DO41 400V 1A 30A 50NSEC 10UA
		D942	6871TMAA04C	UF4004 GULF TP DO41 400V 1A 30A 50NSEC 10UA
		D951	6871TMHA72C	UF5404 GULF BK DO201AD 400V 3.0A 150A 50NSSEC 10.0UA
		D952	6871TMAA04C	1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA
		D961	6871TMHA72C	31GF6 GULF BK DO201AD 600V 3A 90A 30NSEC 10UA
		D971	6871TMAA04C	UF4007-1021 TIWAN SEMI TP DO204AL 1000V 1A 30A 75NSEC 10UA
		ZD301	6871TMAA04C	UZ-4.3BSB PCTRONIX TP52 DO34 500MW 4.3BV 5MA PF
		ZD402	6871TMAA04C	UZ-5.6BSB PCTRONIX TP52 DO34 500MW 5.6BV 5MA PF
		ZD403	6871TMAA04C	UZ-5.6BSB PCTRONIX TP52 DO34 500MW 5.6BV 5MA PF
		ZD404	6871TMAA04C	UZ-5.6BSB PCTRONIX TP52 DO34 500MW 5.6BV 5MA PF
	ZD405	6871TMAA04C	UZ-5.6BSB PCTRONIX TP52 DO34 500MW 5.6BV 5MA PF	
	ZD406	6871TMAA04C	UZ-5.6BSB PCTRONIX TP52 DO34 500MW 5.6BV 5MA PF	
	ZD902	6871TMAA04C	UZ-5.1BSB PCTRONIX TP52 DO34 500MW 5.1BV 5MA PF	
COILs&COREs				
		L702	6871TMHA72C	"- H-SIZE,DR12*20-C6.0,150UH 700BJ"
		L703	6871TMHA72C	14*5T 12UH 0.12*30MM 23.5T
		L705	6871TMHA72C	DR15*18-C9.8 100UH 0.1*30MM 40.5T D/D CHOKE
		FB302	6871TMAA04C	BAS3580T BO SUNG 3580MM AXIAL52MM
		FB305	6871TMAA04C	BRS2550B BO SUNG 2550MM RADIAL
		FB306	6871TMAA04C	BAS3580T BO SUNG 3580MM AXIAL52MM
		FB307	6871TMAA04C	BRS3580B BO SUNG 3580MM RADIAL
		FB308	6871TMAA04C	BAS2550T BO SUNG 2550MM AXIAL52MM
		FB309	6871TMAA04C	BAS2550T BO SUNG 2550MM AXIAL52MM
		FB310	6871TMAA04C	BRD3510B BO SUNG 3510MM RADIAL

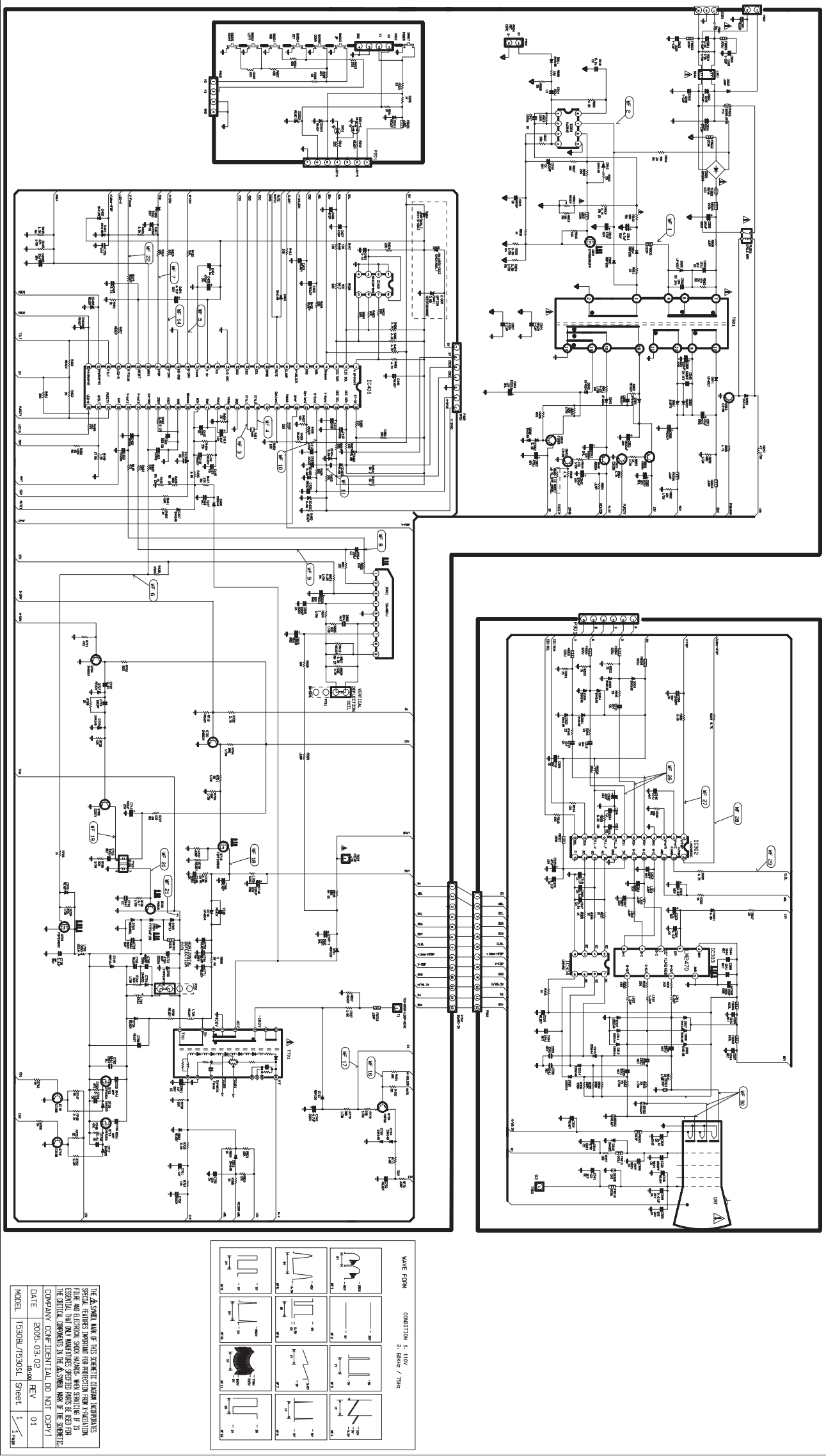
MODEL :T530BL/T530SL				DATE:2005.03.11
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		FB313	6871TMAA04C	BAS2550T BO SUNG 2550MM AXIAL52MM
		FB701	6871TMAA04C	BAS3580T BO SUNG 3580MM AXIAL52MM
		FB903	6871TMAA04C	BRS2550B BO SUNG 2550MM RADIAL
		FB905	6871TMAA04C	BAS2550T BO SUNG 2550MM AXIAL52MM
		FB906	6871TMAA04C	BRS2550B BO SUNG 2550MM RADIAL
		FB921	6871TMAA04C	BRD3510B BO SUNG 3510MM RADIAL
		FB922	6871TMAA04C	BRD3510B BO SUNG 3510MM RADIAL
		L903	6871TMAA04C	BAS3550T BO SUNG 3550MM AXIAL52MM
Ics				
		IC302	6871TMHA72C	"LM1246DDC/NA,NOPB NATIONAL SEMICONDUCTOR 24,DIP ST LF,ONE CHIP (VIDEO+OSD)"
		IC303	4921TKK467C	"LM2470TA,NOPB NATIONAL SEMICONDUCTOR 9PIN TA09A ST LF,MONOLITHIC TRIPLE 7.0NS CRT DRIVER"
		IC304	6871TMHA72C	"LM2480NA,NOPB NATIONAL SEMICONDUCTOR 8P,DIP ST LF,80V TRIPLE BIAS CLAMP"
		IC401	0IZZTSZ689A	SAA4849(OTP) PHILIPS 56PIN SDIP - DEFLECTION AND MICOM
		IC402	6871TMHA72C	"M24C08-WBN6(P),LF STM 8PIN PDIP ST SERIAL IIC EEPROM"
		IC601	4921TKK449C	"TDA4867J PHILIPS 9PIN,ST DIP VERTICAL OUTPUT IC"
		IC901	6871TMHA72C	KA3842B (PWM)
TRANSISTORS				
		Q703	4921TKK457C	FQPF10N20C FAIRCHILD ST TO220F 200V 9.5A
		Q704	6871TMAA04C	FAIRCHILD 2N3904(TA) TP TO-92 60V 0.2A
		Q705	6871TMAA04C	KTC200-Y TP KEC TO92 NPN
		Q706	4921TKK457C	FJAF6810A FAIRCHILD ST TO3PF 1550V 10A/20A
		Q711	4921TKK451C	"IRF630MFP,LF SGS-T(STM) ST TO220F 200V 5A"
		Q713	4921TKK451C	"IRF630MFP,LF SGS-T(STM) ST TO220F 200V 5A"
		Q715	6871TMAA04C	KTC3198-Y(KTC1815) TP KEC TO92 NPN
		Q716	6871TMAA04C	KTC3198-Y(KTC1815) TP KEC TO92 NPN
		Q719	4921TKK455C	FQPF10N20C FAIRCHILD ST TO220F 200V 9.5A
		Q720	6871TMAA04C	FAIRCHILD 2N3904(TA) TP TO-92 60V 0.2A
		Q799	6871TMAA04C	MPSA92 KEC TP TO92 -300V -500MA
⚠		Q901	4921TKK468C	"STP9NK65ZFP,LF SGS-T(STM) ST TO220F 650V 6.4A"
		Q903	6871TMAA04C	KSC1008C-Y TP SAMSUNG TO92 NPN
		Q941	6871TMAA04C	KTC3198-Y(KTC1815) TP KEC TO92 NPN
		Q942	6871TMAA04C	KTA1273-Y(KTA966A) TP KEC TO92L PNP
		Q951	6871TMAA04C	KTC3198-Y(KTC1815) TP KEC TO92 NPN
		Q952	6871TMAA04C	KTA1273-Y(KTA966A) TP KEC TO92L PNP
		Q953	6871TMAA04C	KTC3198-Y(KTC1815) TP KEC TO92 NPN
RESISTORS				
		L301	6871TMAA04C	47 1/4W(3 5% TA52
		L302	6871TMAA04C	47 1/4W(3 5% TA52
		L303	6871TMAA04C	47 1/4W(3 5% TA52
		R201	6871TSA724C	1K 1/4W(3 5% TA52
		R202	6871TSA724C	91 OHM 1/4 W (3.4) 5% TA52
		R203	6871TSA724C	220 1/4W(3 5% TA52
		R204	6871TSA724C	430 OHM 1/4 W(3.4) 5.00% TA52
		R205	6871TSA724C	1K 1/4W(3 5% TA52
		R206	6871TSA724C	91 OHM 1/4 W (3.4) 5% TA52
		R207	6871TSA724C	430 OHM 1/4 W(3.4) 5.00% TA52
		R208	6871TSA724C	220 1/4W(3 5% TA52
		R209	6871TSA724C	910 1/4W(3 5% TA52
		R211	6871TSA724C	220 1/4W(3 5% TA52

MODEL :T530BL/T530SL				DATE:2005.03.11	
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON	
		R301	6871TMAA04C	75 1/4W(3 5% TA52	
		R302	6871TMAA04C	75 1/4W(3 5% TA52	
		R303	6871TMAA04C	75 1/4W(3 5% TA52	
		R305	6871TMAA04C	6.20K 1/6W 1% TA52	
		R314	6871TMAA04C	100 1/4W(3 5% TA52	
		R315	6871TMAA04C	100 1/4W(3 5% TA52	
		R319	6871TMAA04C	4.70K 1/4W(3 5% TA52	
		R320	6871TMAA04C	4.70K 1/4W(3 5% TA52	
		R326	6871TMAA04C	2.20K 1/4W(3 5% TA52	
		R327	6871TMAA04C	1K 1/4W(3 5% TA52	
		R328	6871TMAA04C	1K 1/4W(3 5% TA52	
		R329	6871TMAA04C	1K 1/4W(3 5% TA52	
		R330	6871TMAA04C	1K 1/4W(3 5% TA52	
		R331	6871TMAA04C	200 1/4W(3 5% TA52	
		R332	6871TMAA04C	200 1/4W(3 5% TA52	
		R333	6871TMAA04C	150 1/4W(3 5% TA52	
		R334	6871TMAA04C	330K 1/4W(3 5% TA52	
		R335	6871TMAA04C	330K 1/4W(3 5% TA52	
		R336	6871TMAA04C	330K 1/4W(3 5% TA52	
		R337	6871TMAA04C	100 1/4W(3 5% TA52	
		R338	6871TMAA04C	10 1/4W(3 5% TA52	
		R340	6871TMAA04C	10K 1/6W 1 TA52	
		R341	6871TMAA04C	33 OHM 1/2 W (7.0) 5% TA52	
		R342	6871TMAA04C	33 OHM 1/2 W (7.0) 5% TA52	
		R343	6871TMAA04C	33 OHM 1/2 W (7.0) 5% TA52	
		R344	6871TMAA04C	33 1/4W(3 5% TA52	
		R345	6871TMAA04C	33 1/4W(3 5% TA52	
		R346	6871TMAA04C	33 1/4W(3 5% TA52	
		R347	6871TMAA04C	20 1/4W(3 5% TA52	
		R401	6871TMAA04C	220 1/4W(3 5% TA52	
		R402	6871TMAA04C	100 1/4W(3 5% TA52	
		R403	6871TMAA04C	100 1/4W(3 5% TA52	
		R404	6871TMAA04C	100 1/4W(3 5% TA52	
		R405	6871TMAA04C	2.20K 1/4W(3 5% TA52	
		R406	6871TMAA04C	2.20K 1/4W(3 5% TA52	
		R407	6871TMAA04C	4.70K 1/4W(3 5% TA52	
		R408	6871TMAA04C	100 1/4W(3 5% TA52	
		R409	6871TMAA04C	100 1/4W(3 5% TA52	
		R411	6871TMAA04C	100 1/4W(3 5% TA52	
		R412	6871TMAA04C	100 1/4W(3 5% TA52	
		R413	6871TMAA04C	100 1/4W(3 5% TA52	
		R414	6871TMAA04C	16K 1/4W(3 5% TA52	
	⚠		R416	6871TMAA04C	1.5K 1/6W 1 TA52
			R417	6871TMAA04C	100 1/4W(3 5% TA52
⚠		R419	6871TMAA04C	47K 1/6W 1% TA52	
		R420	6871TMAA04C	2K 1/4W(3 5% TA52	
		R421	6871TMAA04C	1.50K 1/4W(3 5% TA52	
		R422	6871TMAA04C	2K 1/4W(3 5% TA52	
		R423	6871TMAA04C	100 1/4W(3 5% TA52	
		R424	6871TMAA04C	100 1/4W(3 5% TA52	
		R425	6871TMAA04C	100 1/4W(3 5% TA52	
		R426	6871TMAA04C	100 1/4W(3 5% TA52	
		R427	6871TMAA04C	10K 1/4W(3 5% TA52	
		R430	6871TMAA04C	100 1/4W(3 5% TA52	
		R431	6871TMAA04C	18K 1/4W(3 5% TA52	
		R433	6871TMAA04C	2K 1/4W(3 5% TA52	
		R434	6871TMAA04C	33K 1/4W(3 5% TA52	
		R436	6871TMAA04C	3.60K 1/4W(3 5% TA52	
		R437	6871TMAA04C	27K OHM 1/2 W (7.0) 5% TA52	
		R438	6871TMAA04C	130K 1/4W(3 5% TA52	
		R439	6871TMAA04C	560 1/6W 1% TA52	
		R440	6871TMAA04C	1K 1/6W 1% TA52	
		R441	6871TMAA04C	33K 1/4W(3 5% TA52	
		R442	6871TMAA04C	3.90K 1/6W 1% TA52	
		R443	6871TMAA04C	220 1/4W(3 5% TA52	

MODEL :T530BL/T530SL					DATE:2005.03.11				
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON					
		R444	6871TMAA04C	470 OHM 1/4 W (3.4) 5% TA52					
		R445	6871TMAA04C	470 OHM 1/4 W (3.4) 5% TA52					
		R446	6871TMAA04C	100 1/4W(3 5% TA52					
		R447	6871TMAA04C	200 1/4W(3 5% TA52					
		R449	6871TMAA04C	7.50K 1/6W 1% TA52					
		R450	6871TMAA04C	120K OHM 1/4 W (3.4) 2% TA52					
		R451	6871TMAA04C	1K 1/4W(3 5% TA52					
		R452	6871TMAA04C	10K 1/4W(3 5% TA52					
		R453	6871TMAA04C	2K 1/4W(3 5% TA52					
		R454	6871TMAA04C	2K 1/4W(3 5% TA52					
		R455	6871TMAA04C	10K 1/4W(3 5% TA52					
		R456	6871TMAA04C	100 1/4W(3 5% TA52					
		R461	6871TMAA04C	390 1/4W(3 5% TA52					
		R462	6871TMAA04C	2K 1/4W(3 5% TA52					
		R463	6871TMAA04C	4.70K 1/4W(3 5% TA52					
		R601	6871TMAA04C	100 1/4W(3 5% TA52					
		R602	6871TMAA04C	100 1/4W(3 5% TA52					
		R603	6871TMAA04C	0.22 1/2W 5% TA52					
		R604	6871TMAA04C	1 OHM 1/2 W (7.0) 5% TA52					
		R605	6871TMAA04C	150 OHM 1/2 W (7.0) 5% TA52					
		R606	6871TMAA04C	100 1/4W(3 5% TA52					
		R607	6871TMAA04C	3.90K 1/6W 1% TA52					
		R608	6871TMAA04C	220 OHM 1/2 W (7.0) 5% TA52					
		R701	6871TMAA04C	470 OHM 1/4 W (3.4) 5% TA52					
		R702	6871TMAA04C	620 1/4W(3 5% TA52					
		R703	6871TMAA04C	5.60K 1/4W(3 5% TA52					
		R704	6871TMAA04C	10K 1/4W(3 5% TA52					
		R705	6871TMAA04C	10 1/4W(3 5% TA52					
		R706	6871TMAA04C	62K OHM 1/2 W (7.0) 5% TA52					
		R727	6871TMHA72C	100 OHM 2 W 5% SF					
		R728	6871TMAA04C	1K 1/4W(3 5% TA52					
		R729	6871TMAA04C	10K 1/4W(3 5% TA52					
		R736	6871TMAA04C	2.2KOHM 1 W 5% TA52					
		R737	6871TMAA04C	0.56 1/2W 5 TA52					
		R738	6871TMAA04C	0.56 1/2W 5 TA52					
		R739	6871TMAA04C	2.70K 1/4W(3 5% TA52					
		R740	6871TMAA04C	2.7 OHM 1/2 W (7.0) 5% TA52					
		R744	6871TMAA04C	220 OHM 1/2 W (7.0) 5% TA52					
		R747	6871TMAA04C	3K 1/4W(3 5% TA52					
		R748	6871TMAA04C	47K 1/4W(3 5% TA52					
		R749	6871TMAA04C	2.20K 1/4W(3 5% TA52					
		R750	6871TMAA04C	3K 1/4W(3 5% TA52					
		R751	6871TMAA04C	22 OHM 1/2 W (7.0) 5% TA52					
		R752	6871TMAA04C	2.20K 1/4W(3 5% TA52					
		R754	6871TMAA04C	680 OHM 1/2 W (7.0) 5% TA52					
		R756	6871TMAA04C	22K OHM 1/2 W (7.0) 5% TA52					
		R761	6871TMAA04C	3K 1/4W(3 5% TA52					
		R762	6871TMAA04C	3K 1/4W(3 5% TA52					
		R765	6871TMAA04C	300 OHM 1/2 W (7.0) 5% TA52					
		R771	6871TMAA04C	1.80K 1/4W(3 5% TA52					
		R772	6871TMAA04C	22K OHM 1/2 W (7.0) 5% TA52					
		R773	6871TMAA04C	36K OHM 1/2 W(7.0) 5.00% TA52					
		R793	6871TMAA04C	47K 1/4W(3 5% TA52					
		R798	6871TMAA04C	2K 1/4W(3 5% TA52					
		R799	6871TMAA04C	15K 1/4W(3 5% TA52					
		R801	6871TMAA04C	15K 1/4W(3 5% TA52					
		R802	6871TMAA04C	15K 1/4W(3 5% TA52					
		R803	6871TMAA04C	1K 1/4W(3 5% TA52					
		R809	6871TMHA72C	1 OHM 2 W 5% SF					
		R818	6871TMAA04C	56K 1/6W 1% TA52					
		R901	6871TMAA04C	470K OHM 1/2 W (7.0) 5% TA52					
		R902	6871TMAA04C	33 1/4W(3 5% TA52					
		R903	6871TMAA04C	56 OHM 1/6 W 1% TA52					
		R904	6871TMHA72C	39K OHM 2 W 5% SF					
		R906	6871TMAA04C	620 1/4W(3 5% TA52					

MODEL :T530BL/T530SL				DATE:2005.03.11	
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON	
		R907	6871TMAA04C	39K 1/4W(3 5% TA52	
		R910	6871TMAA04C	47K OHM 1 W 5% TA52	
		R911	6871TMAA04C	20 1/4W(3 5% TA52	
		R912	6871TMAA04C	18K 1/6W 1% TA52	
		R913	6871TMAA04C	2.7K OHM 1/6 W 1.00% TA52	
		R915	6871TMAA04C	200 1/4W(3 5% TA52	
		R916	6871TMAA04C	10K 1/4W(3 5% TA52	
		R918	6871TMAA04C	1K 1/4W(3 5% TA52	
		R923	6871TMAA04C	100K 1/4W(3 5% TA52	
		R924	6871TMAA04C	0.39 1/2W 5 TA52	
		R925	6871TMAA04C	0.39 1/2W 5 TA52	
		R926	6871TMAA04C	4.30K 1/4W(3 5% TA52	
		R927	6871TMAA04C	20K 1/4W(3 5% TA52	
		R928	6871TMAA04C	180 1/4W(3 5% TA52	
		R929	6871TMAA04C	33 1/4W(3 5% TA52	
		R941	6871TMAA04C	0.22 1/2W 5% TA52	
		R944	6871TMAA04C	470 OHM 1/2 W (7.0) 5% TA52	
		R945	6871TMAA04C	4.70K 1/4W(3 5% TA52	
		R952	6871TMAA04C	12K OHM 1/2 W(7.0) 5.00% TA52	
		R953	6871TMAA04C	1K OHM 1/2 W (7.0) 5% TA52	
		R954	6871TMAA04C	4.70K 1/4W(3 5% TA52	
		R955	6871TMAA04C	4.70K 1/4W(3 5% TA52	
		R956	6871TMAA04C	68K OHM 1/2 W (7.0) 5% TA52	
		R957	6871TMAA04C	47 OHM 1/2 W (7.0) 5% TA52	
		R960	6871TMAA04C	620 OHM 1/2 W(7.0) 5.00% TA52	
OTHERs					
		F1	6871TMAA04C	AFC-520 BAE EUN TA	
		F2	6871TMAA04C	AFC-520 BAE EUN TA	
		F901	6871TMHA72C	"TIME LAG HBC 5A/250V,215 005,LITTELFUSE"	
		FB301	6871TMAA04C	BAS3550T0(125-022J) BO SUNG RH3.5*5.0*0.8TMM AXIAL52MM	
		P701	6871TMHA72C	SA-0002K/YFW800-04L SE-A/YEONHO 4P 10.0MM NI PLATED	
		P902	6871TMHA72C	YW396-03AV YEONHO 3P 3.96MM S/T	
			RL901	6871TMHA72C	36F-012-HST HONGMEI 250VAC 10A 12VDC 1A NO VENTING
		SC301	6871TMHA72C	GZS10-2-103 DUOLING(SANLING) 8PIN 14/360 STRAIGHT	
		SC901	6871TMHA72C	SA-4S-061P-LF HUA JIE AC UNIVERSAL 3PIN BLACK	
		SG305	6871TMHA72C	"SSG-102-A0,1KV SMART RADIAL TAPING"	
		SW201	6871TSA724C	"JTP1280F6 JEIL 12V DC 1MA VERTICAL,7MM"	
		SW202	6871TSA724C	"JTP1280F6 JEIL 12V DC 1MA VERTICAL,7MM"	
		SW203	6871TSA724C	"JTP1280F6 JEIL 12V DC 1MA VERTICAL,7MM"	
		SW204	6871TSA724C	"JTP1280F6 JEIL 12V DC 1MA VERTICAL,7MM"	
		SW205	6871TSA724C	"JTP1280F6 JEIL 12V DC 1MA VERTICAL,7MM"	
		SW206	6871TSA724C	"JTP1280F6 JEIL 12V DC 1MA VERTICAL,7MM"	
		SW207	6871TSA724C	"JTP1280F6 JEIL 12V DC 1MA VERTICAL,7MM"	
			T701	6871TMHA72C	"C93 BSC24-1445 FUJIAN FURI(HITACHI) 15""
		T703	6871TMHA72C	"EI-19 4.45MH H-DRIVE,700BJ"	
		T901	6871TMHA72C	EER3435 300UH V-16PIN T710BL SI/SC/NY/JS /TC 71-85KHZ	
		TH901	6871TMHA72C	MZ72-9RM290V GAOLI 90HM 20% 2PIN BOX	
		TH902	6871TMHA72C	8 D2 10 SEMITEC 80HM 15% D(11.5)	
		X401	6871TMHA72C	HC-49U SOUTH STAR 48MHZ +/- 20 PPM 22PF RIJ K	

SCHEMA TIC DIAGRAM

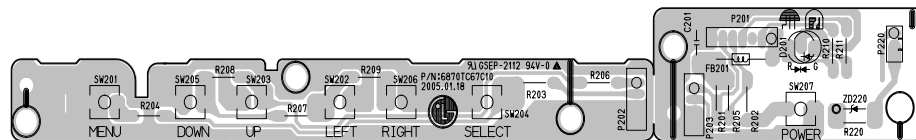


NOTICE

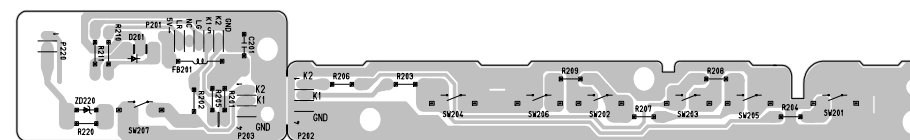
Since this is a basic schematic diagram,
The value of components and some partial connection are
subject to be changed for improvement without notice.

PRINTED CIRCUIT BOARD

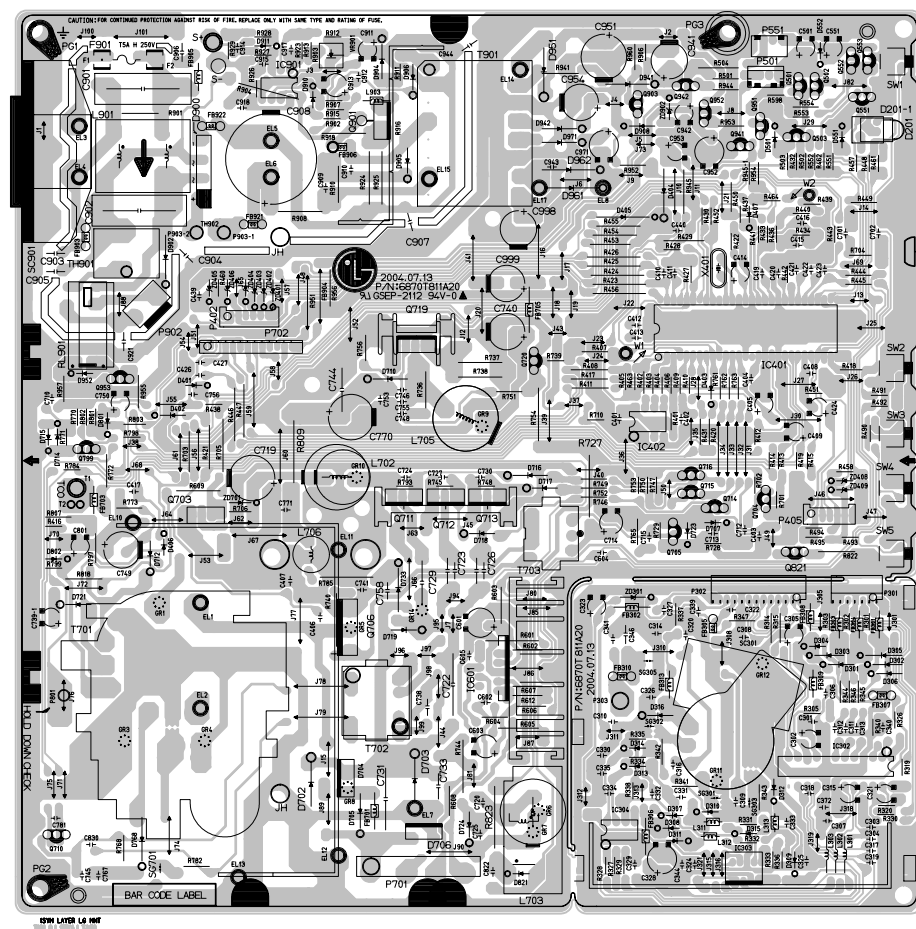
1. CONTROL BOARD (Component Side)



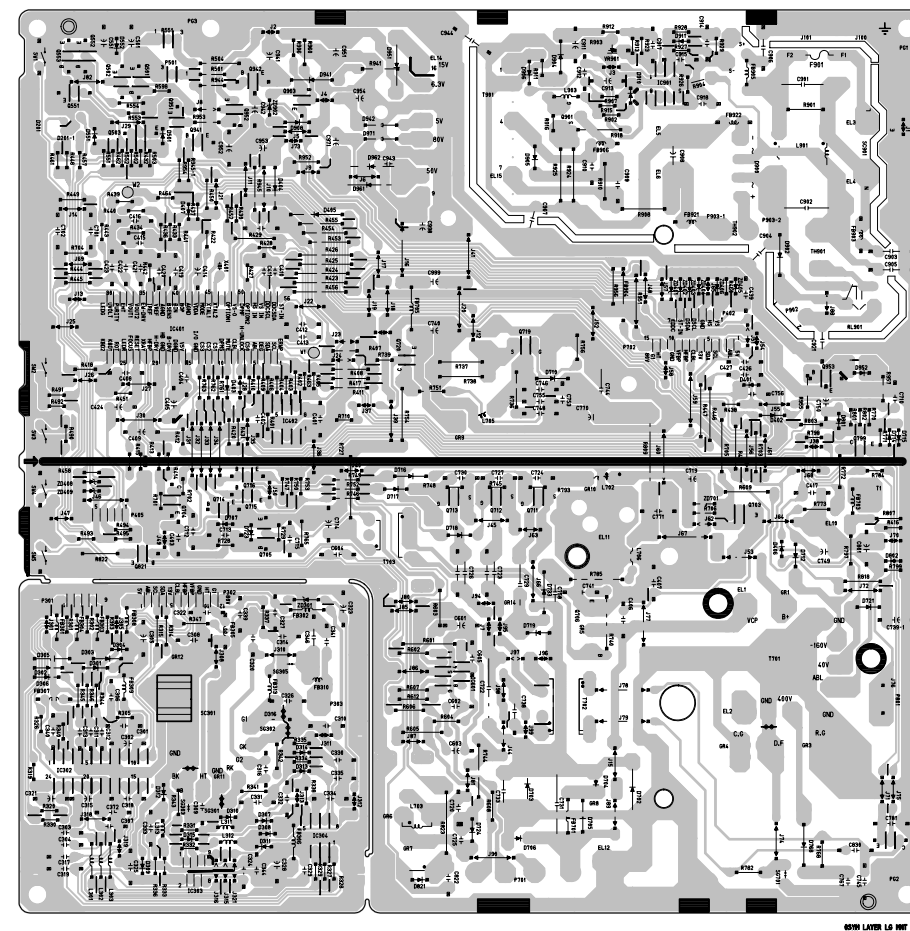
2. CONTROL BOARD (Solder Side)



3. MAIN BOARD (Component Side)



4. MAIN BOARD (Solder Side)





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