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COLOR MONITOR

SERVICE MANUAL

CHASSIS NO. : CA-136

MODEL: **FLATRON^{ez}** T730BH(K) (T730BHKL-K***E*)
T730SH(K) (T730SHKL-K***E*)

() **Same model for Service

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



*Same looking with new chassis.

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SPECIFICATIONS

1. PICTURE TUBE

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

2. SIGNAL

2-1. Horizontal & Vertical Sync

- 1) Input Voltage Level : Low=0~1.2V, High=2.5~5.5V
- 2) Sync Polarity : Positive or Negative

2-2. Video Input Signal

- 1) Voltage Level : 0 ~ 0.7 Vp-p
 - a) Color 0, 0 : 0 Vp-p
 - b) Color 7, 0 : 0.467 Vp-p
 - c) Color 15, 0 : 0.7 Vp-p
- 2) Input Impedance : 75 \square
- 3) Video Color : R, G, B Analog
- 4) Signal Format : Refer to the Timing Chart

2-3. Signal Connector

3 row 15-pin Connector (Attached)

2-4. Scanning Frequency

- Horizontal : 30 ~ 71 kHz
- Vertical : 50 ~ 160 Hz

3. POWER SUPPLY

3-1. Power Range

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

3-2. Power Consumption

| MODE | POWER CONSUMPTION | LED COLOR |
|-------------|-------------------|-----------|
| NORMAL (ON) | less than 68 W | BLUE |
| DPMS OFF | less than 4 W | FLASH |
| POWER OFF | less than 2 W | OFF |

4. DISPLAY AREA

4-1. Active Video Area :

¥Max Image Size - 325.1 x 243.8 mm (12.80" x 9.60")

¥Preset Image Size - 310x 230 mm (12.20" x 9.06")

4-2. Display Color : Full Colors

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

4-4. Video Bandwidth : 110 MHz

5. ENVIRONMENT

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

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

5-3. Altitude : 5,000 m

6. DIMENSIONS (with TILT/SWIVEL)

Width : 400 mm (15.75 inch)

Depth : 411 mm (16.18 inch)

Height : 401 mm (15.79 inch)

7. WEIGHT (with TILT/SWIVEL)

Net Weight : 15.0 kg (33.52 lbs.)

Gross Weight : 18.1 kg (39.67 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.

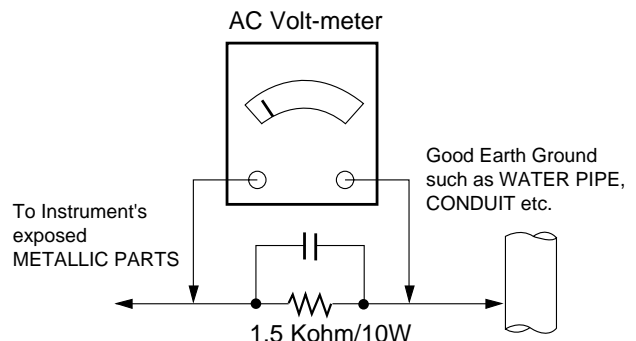
Note : It is important to use an accurate high voltage meter calibrated periodically.

- 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

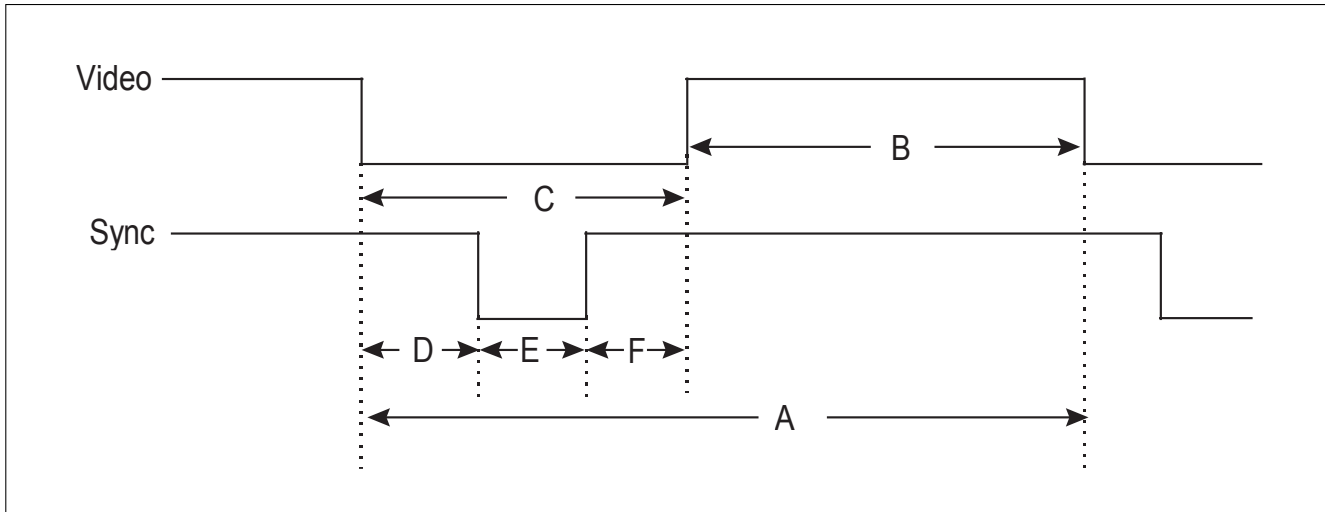
Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

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) >>

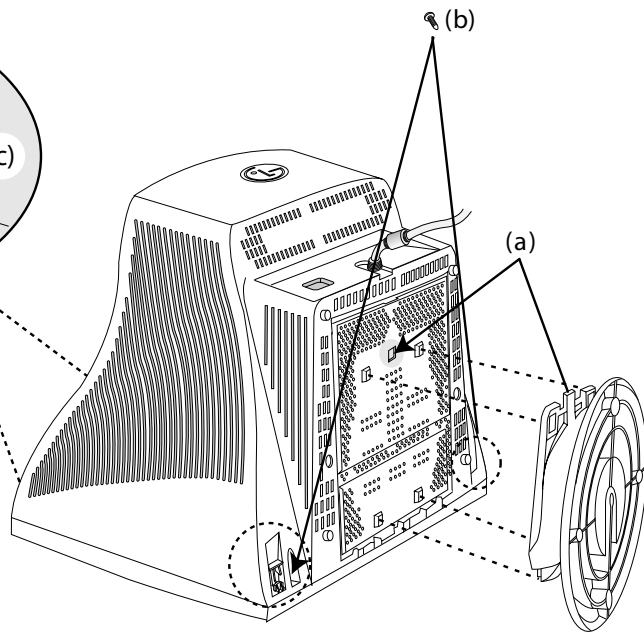
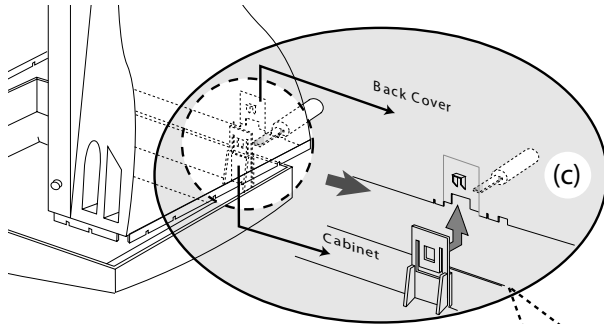
| Mode | H/V Sort | Sync Polarity | Frequency | Active Time (A) | Video Time (B) | Blanking Time (C) | Front Porch (D) | Sync Time (E) | Back Porch (F) | Resolution |
|------|----------|---------------|-----------|-----------------|----------------|-------------------|-----------------|---------------|----------------|------------|
| 1 | H | - | 37.50 | 26.67 | 20.32 | 6.35 | 0.51 | 2.03 | 3.81 | 640x480 |
| | V | - | 74.99 | 13.335 | 12.802 | 0.533 | 0.026 | 0.08 | 0.427 | |
| 2 | H | + | 46.88 | 21.33 | 16.16 | 5.17 | 0.32 | 1.62 | 3.223 | 800x600 |
| | V | + | 75.01 | 13.331 | 12.798 | 0.533 | 0.021 | 0.064 | 0.448 | |
| 3 | H | + | 53.68 | 18.63 | 14.22 | 4.41 | 0.57 | 1.14 | 2.70 | 800x600 |
| | V | + | 85.07 | 11.755 | 11.178 | 0.577 | 0.018 | 0.056 | 0.503 | |
| 4 | H | + | 68.677 | 14.561 | 10.836 | 3.725 | 0.508 | 1.016 | 2.201 | 1024x768 |
| | V | + | 85.00 | 11.764 | 11.182 | 0.582 | 0.014 | 0.044 | 0.524 | |
| 5 | H | + | 60.289 | 16.587 | 12.518 | 4.068 | 0.782 | 1.252 | 2.034 | 1280x768 |
| | V | + | 74.893 | 13.352 | 12.739 | 0.641 | 0.050 | 0.116 | 0.448 | |

* 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.

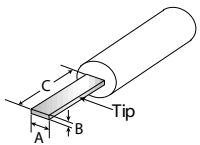


Tip Spec.

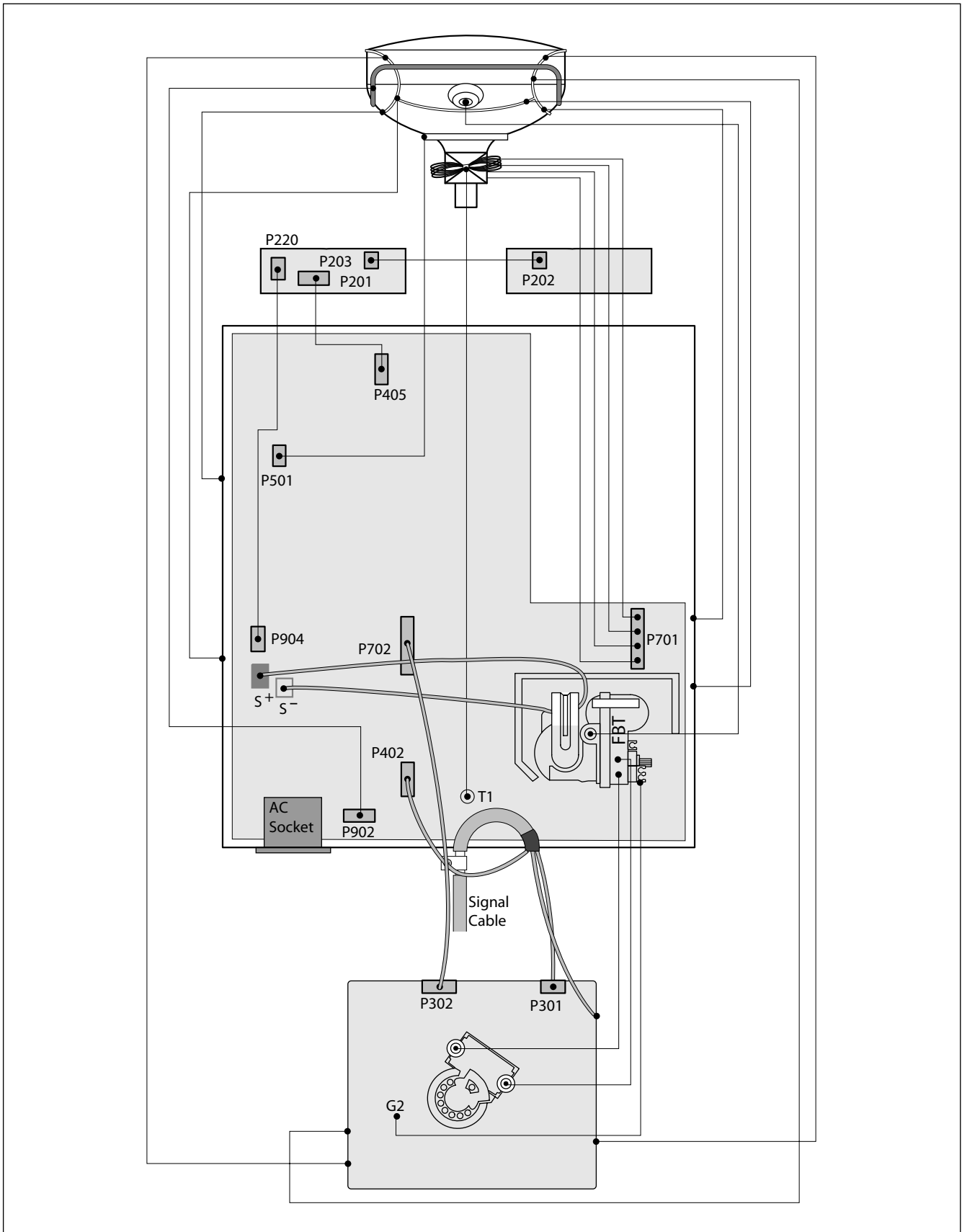
A(Width) : 5.0~15.0mm

B(Depth) : 0.6~0.9mm

C(Height) : 12.0mm



WIRING 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,6.3V and 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) DPM OFF
When no input of horizontal or vertical sync Q951, Q941 are turned off .Then input power consumption is below 4 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 $25.8kV \pm 0.1 kV$ by adjust 1-P value.

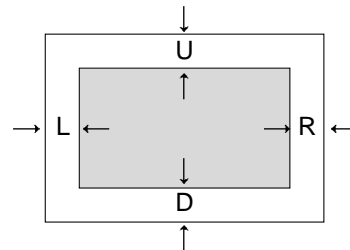
2. Adjustment by Service Hot key

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

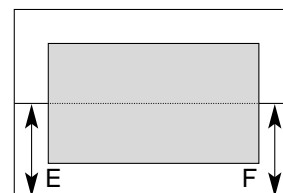
1. Size
H : $310 \pm 4mm$
V : $230 \pm 4mm$
Scanning frequency : All Mode (Mode 1~4)
Display image : Cross hatch pattern
2. Centering
Scanning frequency : All Mode (Mode 1~4)
Display image : Crosshatch pattern
Horizontal : 10 Row
Vertical : 8 Row



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

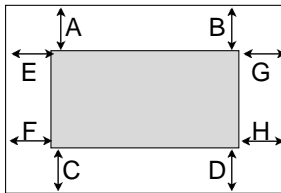
3. Tilt

- 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



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

5. Displa Size drift
 • $\pm 4\text{mm}$: 25°C Standard, 10°C, 35°C
 • $\pm 0.5\text{mm}$: 180V ~ 264V

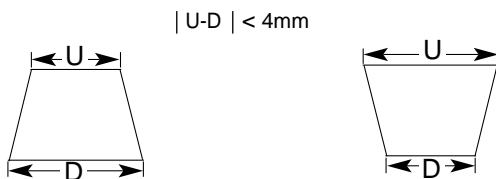
6. Linearity

| | | | | |
|----|----|----|----|----|
| | | | | Y1 |
| | | | | Y2 |
| | | | | Y3 |
| | | | | Y4 |
| X1 | X2 | X3 | X4 | |

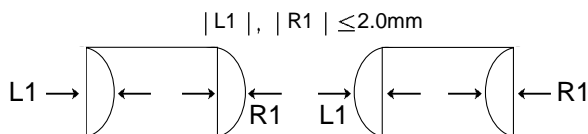
Formula : $\{(Max - Min) / Max\} \times 100(\%)$
 Criteria : H - 10% Max. (Upper 40kHz)
 14% Max. (Less 40kHz)
 V - 8% Max.

7. Regulation
 Luminance $\leq 2\text{mm}$
 Dynamic(Iode) $\leq 2\text{mm}$
 Scanning frequency : All Mode (Mode 1~4)

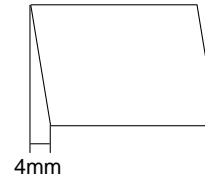
8. Trapezoid



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: 69 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.

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

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 : $50 \pm 1FL$.

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

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: 1024 x 768@85Hz(69kHz/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 T730BHKL/T730SHKL 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 $310 \pm 2\text{mm}$.
- 8) Adjust V-POSITION as arrow keys to center of the screen.
- 9) Adjust V-SIZE as arrow keys to $230 \pm 2\text{mm}$.
- 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.

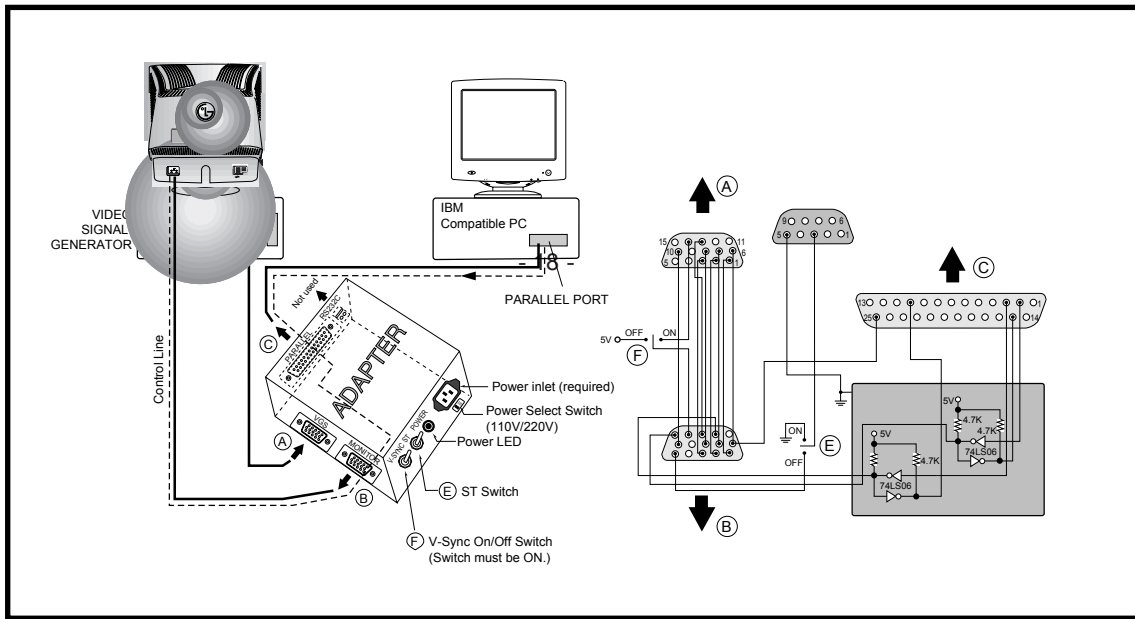
T730BHKL

| | 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 | C2 | 43 | *01 | *00 | *00 | *00 |
| 10 | **01 | 0E | 01 | 03 | 18 | 21 | 18 | B5 | EA | F6 | 29 | A2 | 53 | 47 | 99 | 25 |
| 20 | 10 | 48 | 4C | FF | FE | 80 | 31 | 59 | 71 | 4F | 45 | 59 | 61 | 59 | 81 | 80 |
| 30 | 81 | 4A | 01 | 01 | 01 | 01 | EA | 24 | 00 | 60 | 41 | 00 | 28 | 30 | 30 | 60 |
| 40 | 13 | 00 | 36 | E6 | 10 | 00 | 00 | 1E | 00 | 00 | 00 | FD | 00 | 32 | A0 | 1E |
| 50 | 47 | 0B | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 00 | 00 | FC | 00 | 54 |
| 60 | 37 | 33 | 30 | 42 | 48 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 00 | 00 | FC |
| 70 | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 00 | *** |

T730SHKL

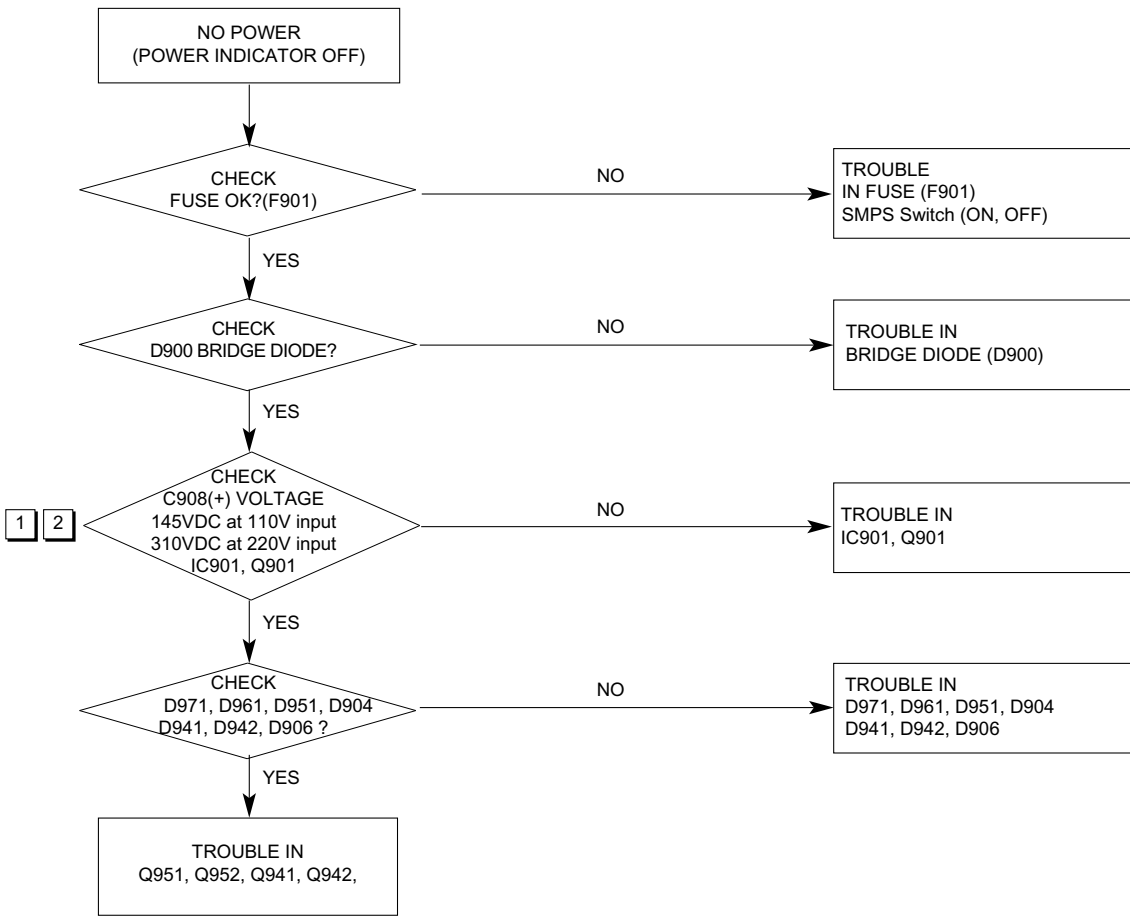
| | 00 | 01 | 02 | 03 | 04 | 05 | 06 | 07 | 08 | 09 | 0A | 0B | 0C | 0D | 0E | 0F |
|----|------|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|
| 00 | 00 | FF | FF | FF | FF | FF | FF | 00 | 1E | 6D | CB | 43 | *01 | *00 | *00 | *00 |
| 10 | **01 | 0E | 01 | 03 | 18 | 21 | 18 | B5 | EA | F6 | 29 | A2 | 53 | 47 | 99 | 25 |
| 20 | 10 | 48 | 4C | FF | FE | 80 | 31 | 59 | 71 | 4F | 45 | 59 | 61 | 59 | 81 | 80 |
| 30 | 81 | 4A | 01 | 01 | 01 | 01 | EA | 24 | 00 | 60 | 41 | 00 | 28 | 30 | 30 | 60 |
| 40 | 13 | 00 | 36 | E6 | 10 | 00 | 00 | 1E | 00 | 00 | 00 | FD | 00 | 32 | A0 | 1E |
| 50 | 47 | 0B | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 00 | 00 | FC | 00 | 54 |
| 60 | 37 | 33 | 30 | 53 | 48 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 00 | 00 | 00 | FC |
| 70 | 00 | 0A | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 00 | *** |

Figure 1. Cable Connection

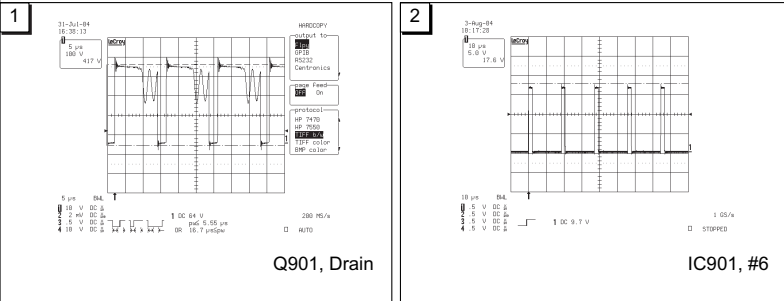


TROUBLESHOOTING GUIDE

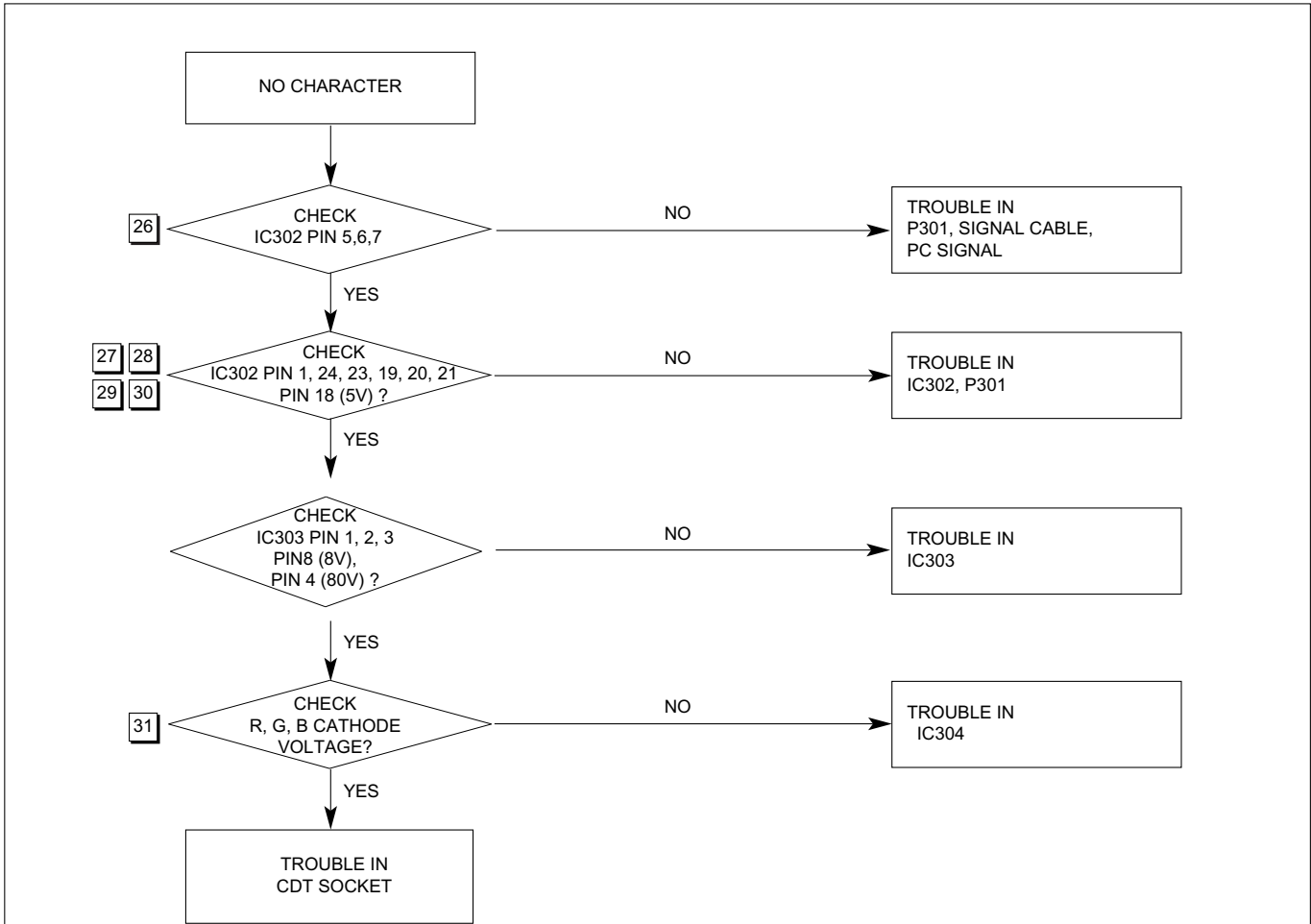
1. NO POWER



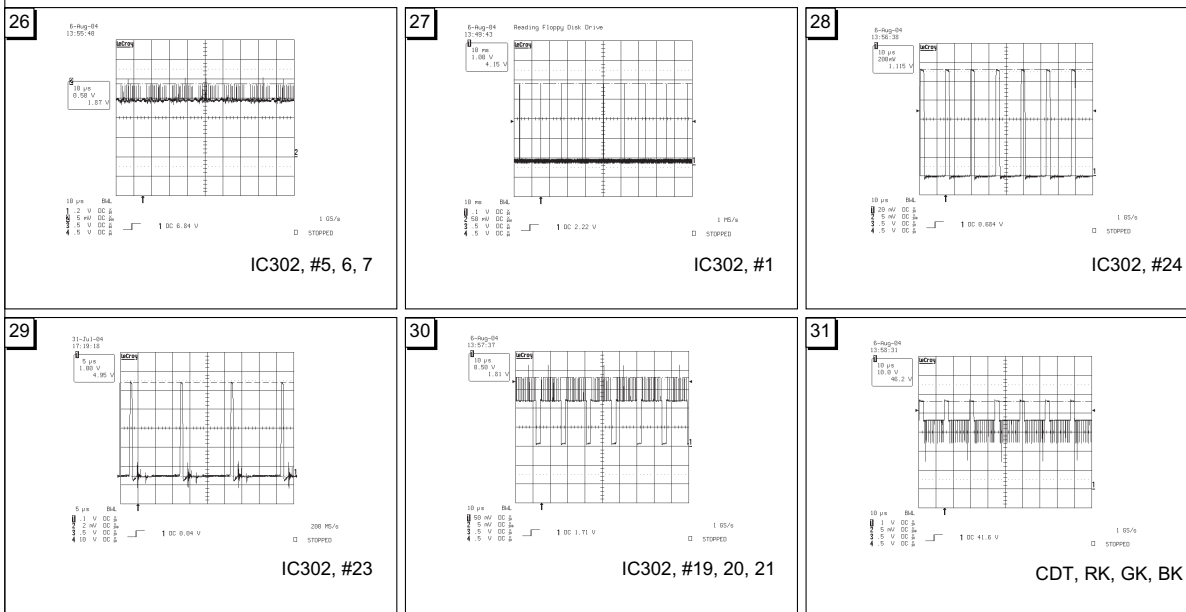
Waveforms



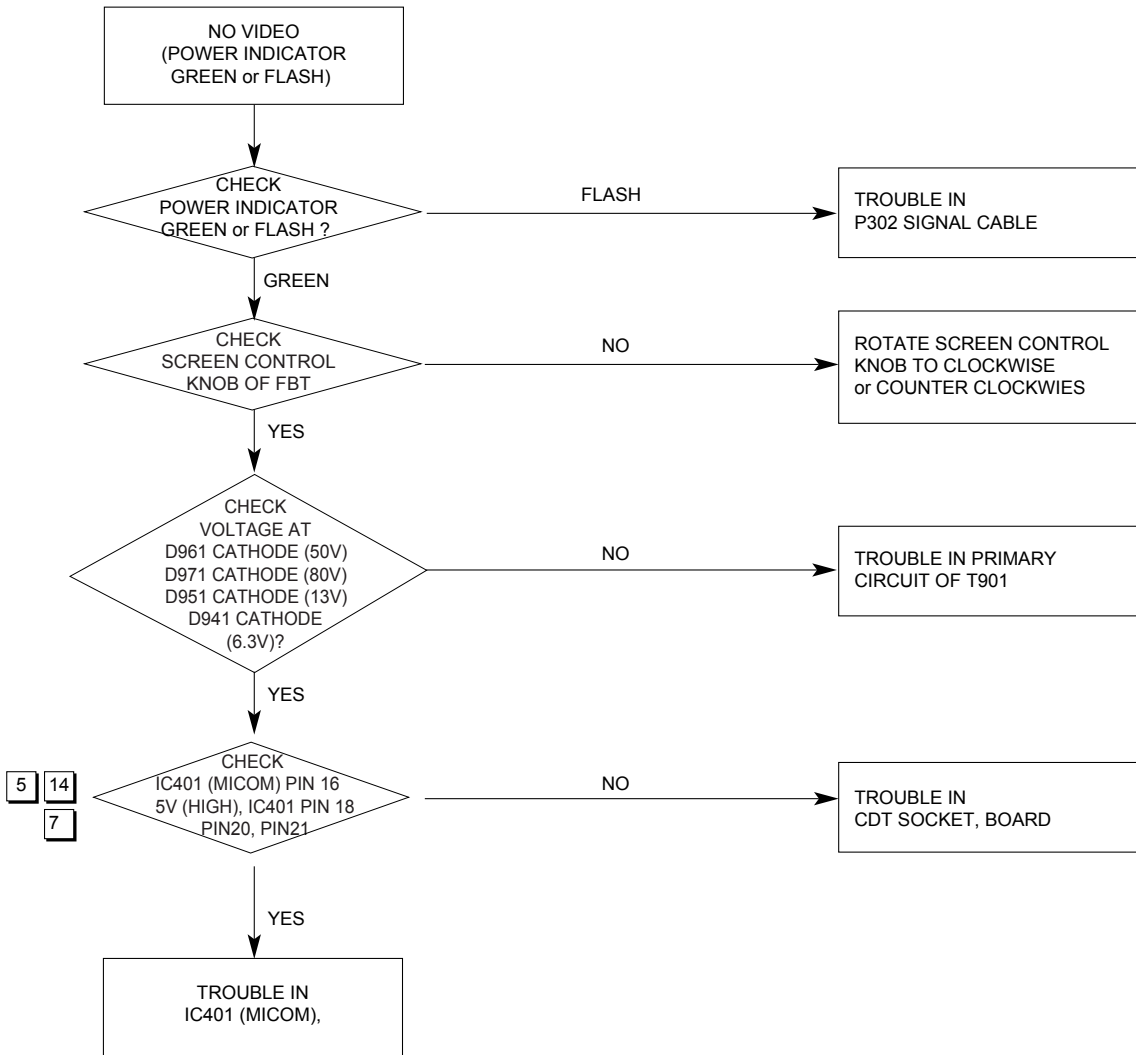
2. NO CHARACTER



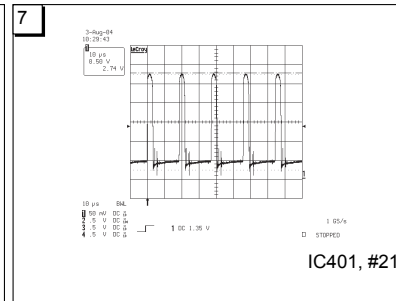
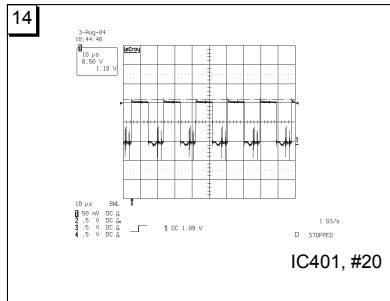
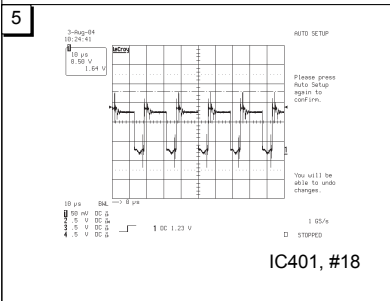
Waveforms



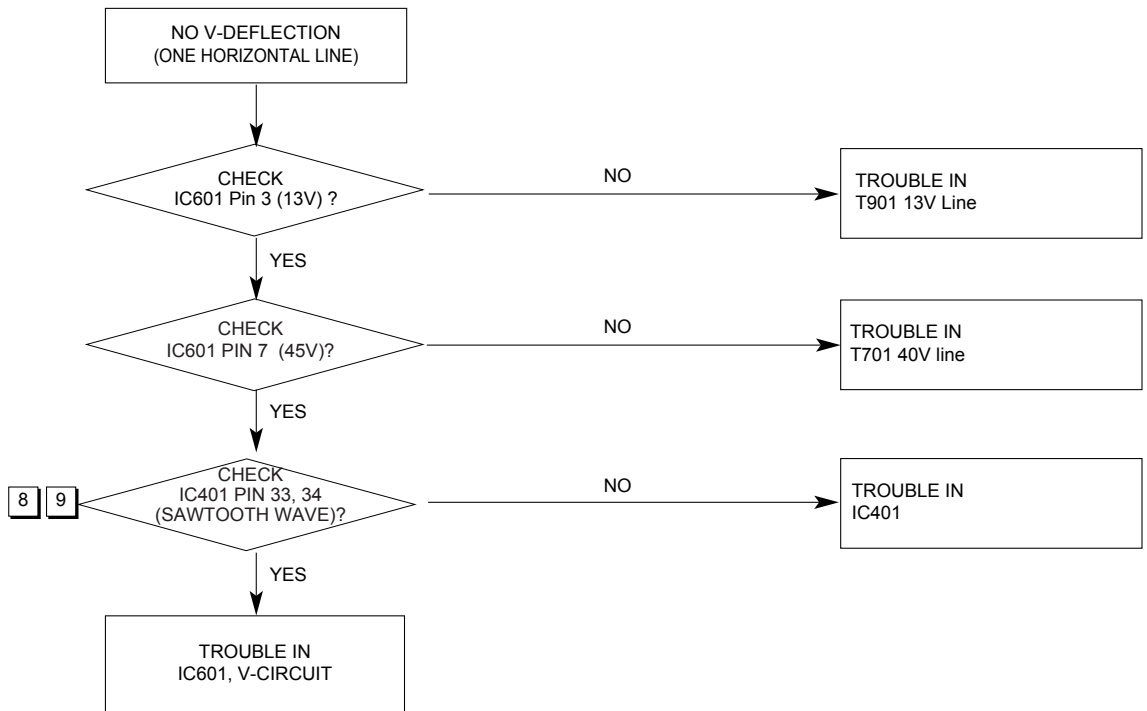
3. NO RASTER



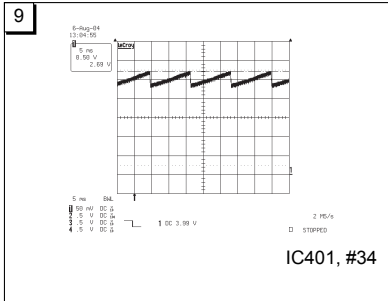
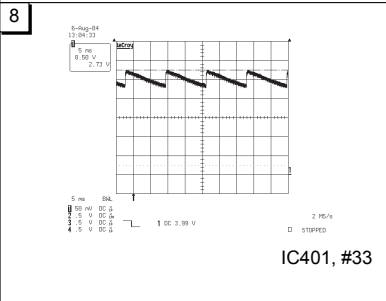
Waveforms



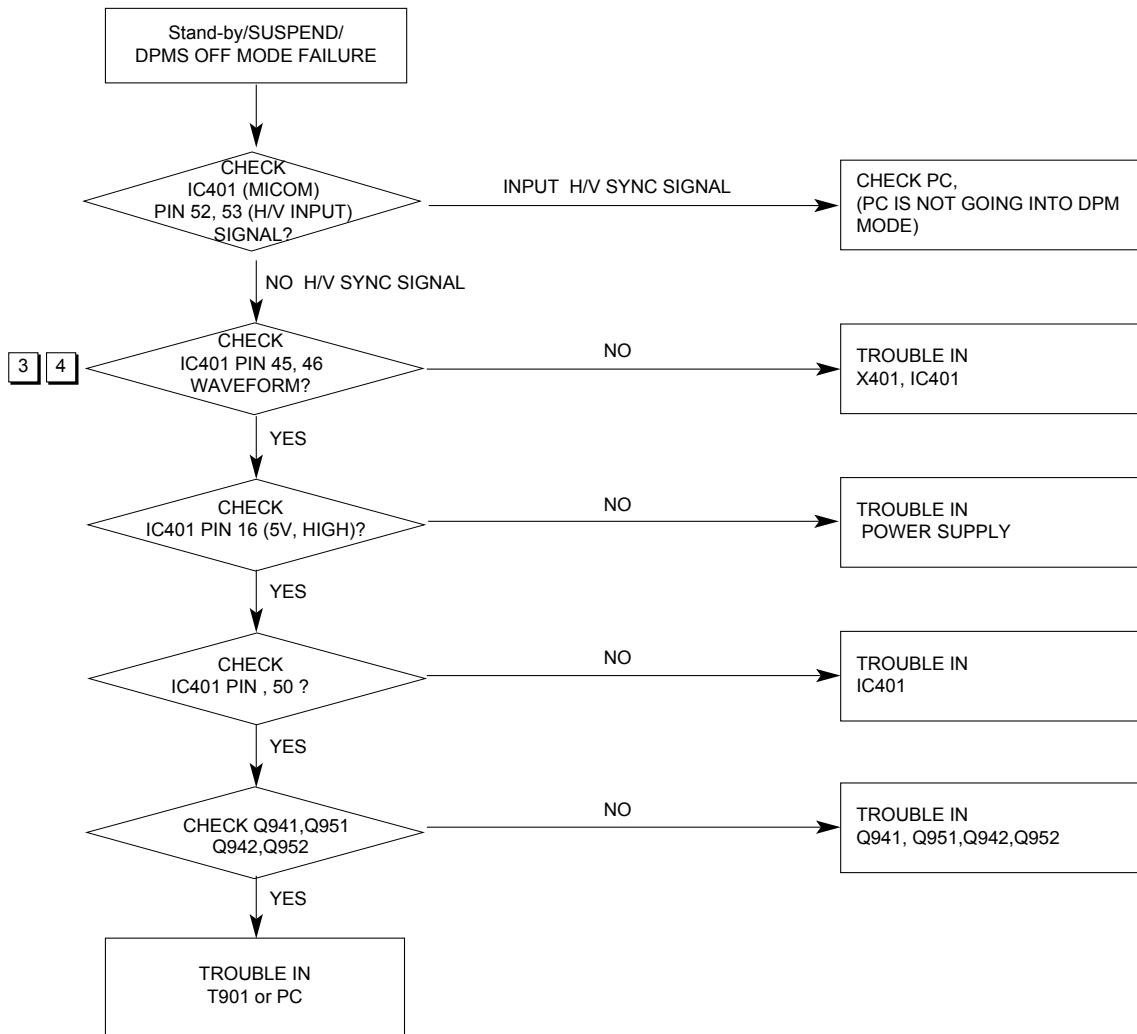
4. NO V-DEFLECTION (ONE HORIZONTAL LINE)



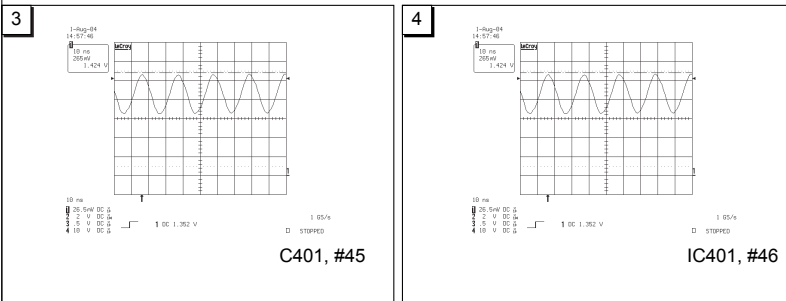
Waveforms



5. TROUBLE IN DPM



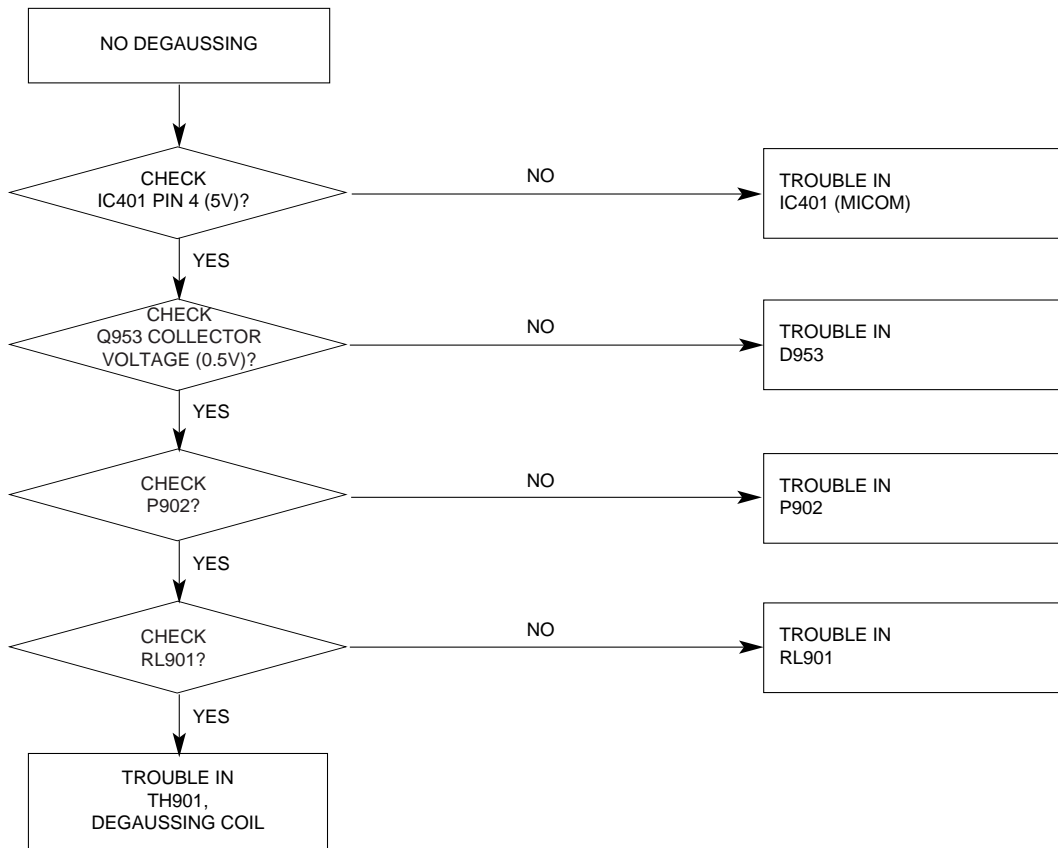
Waveforms



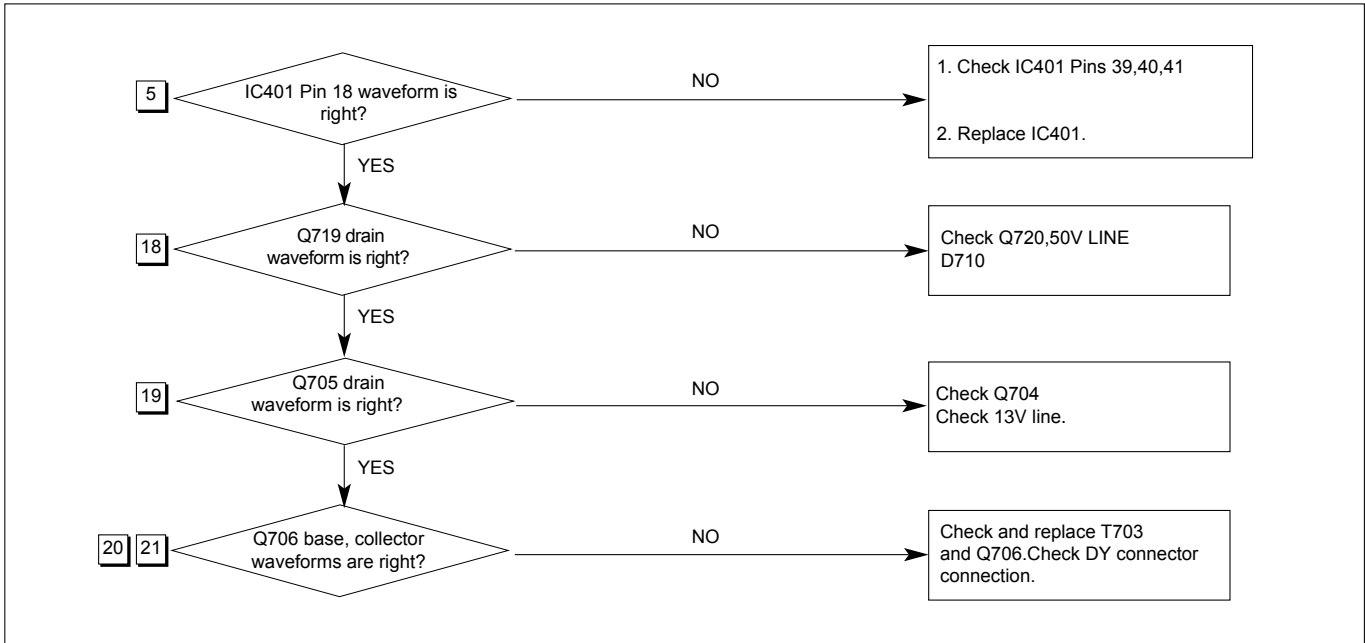
DPMS TABLE

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

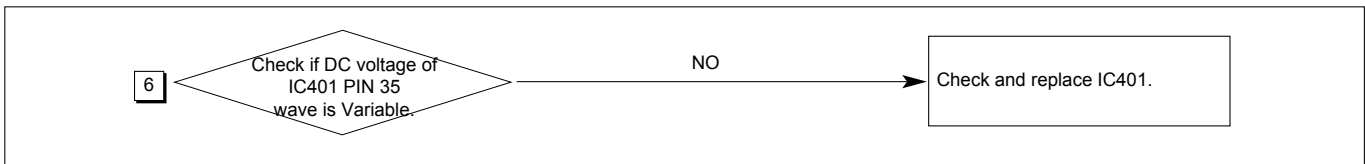
6. NO DEGAUSSING



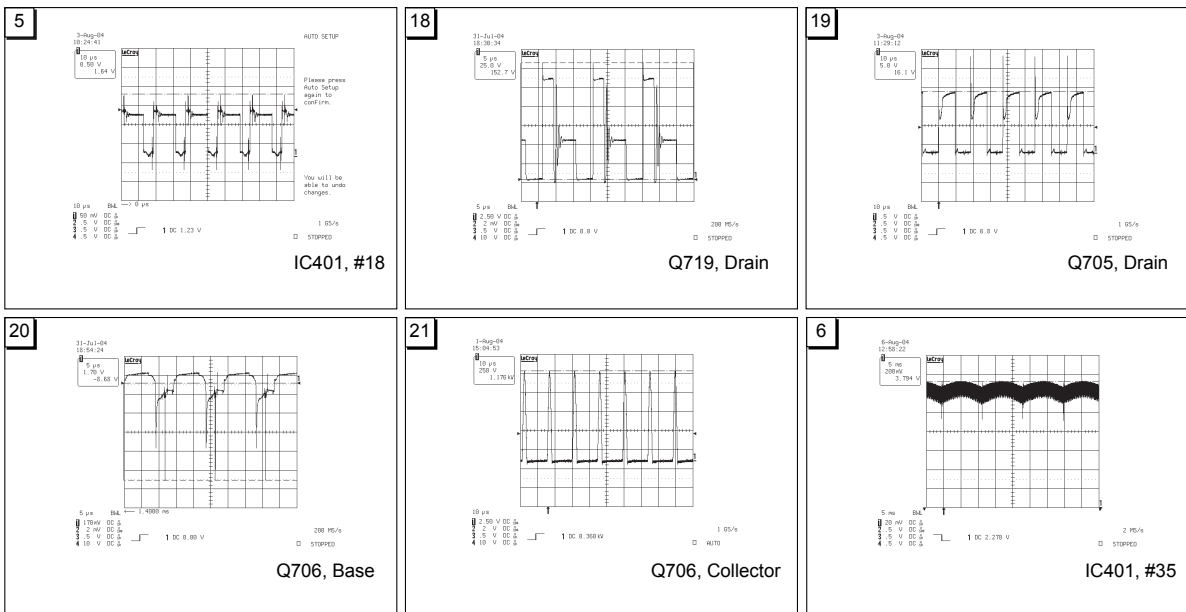
7. H_Deflection Failure



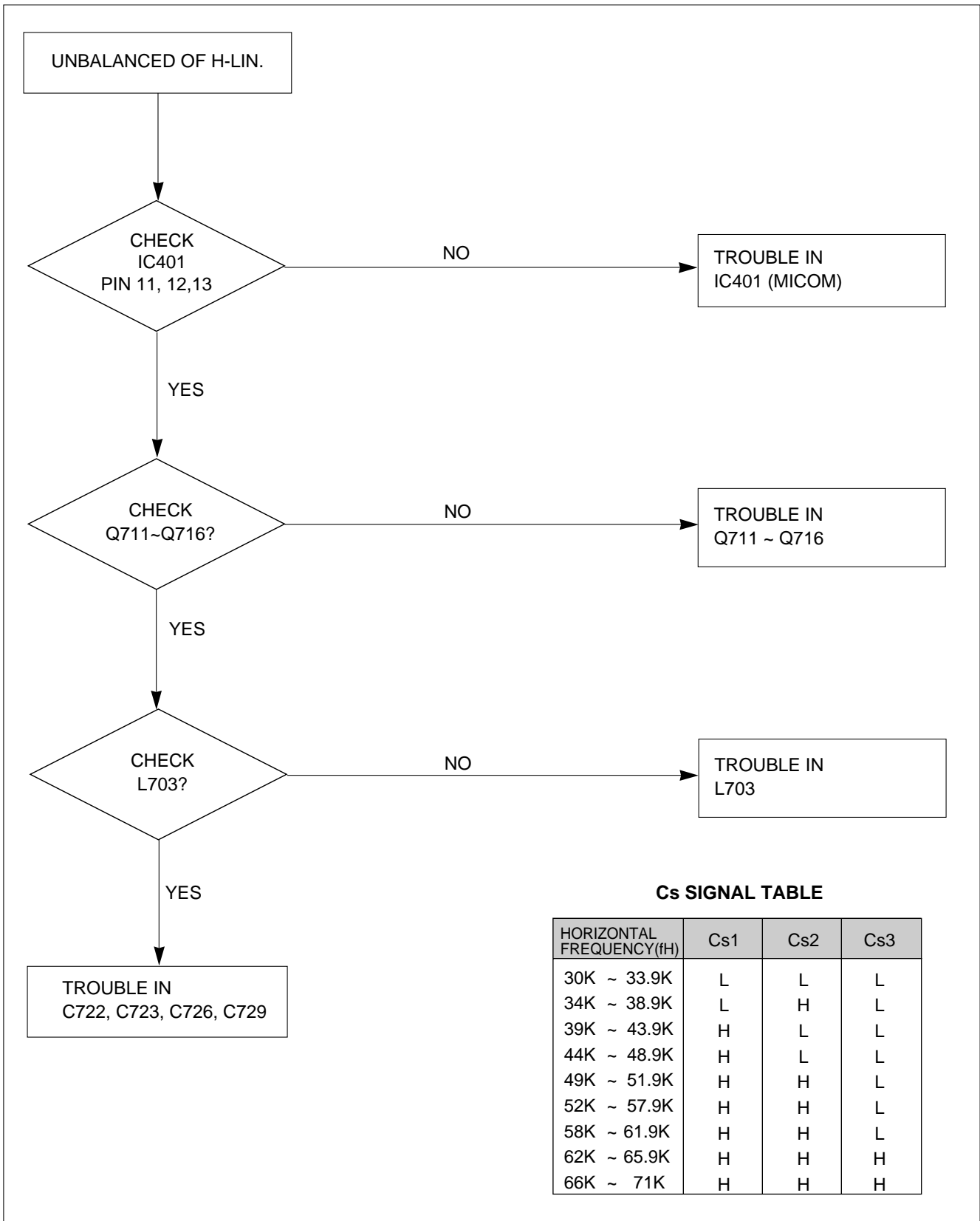
8. Invariable H_Size



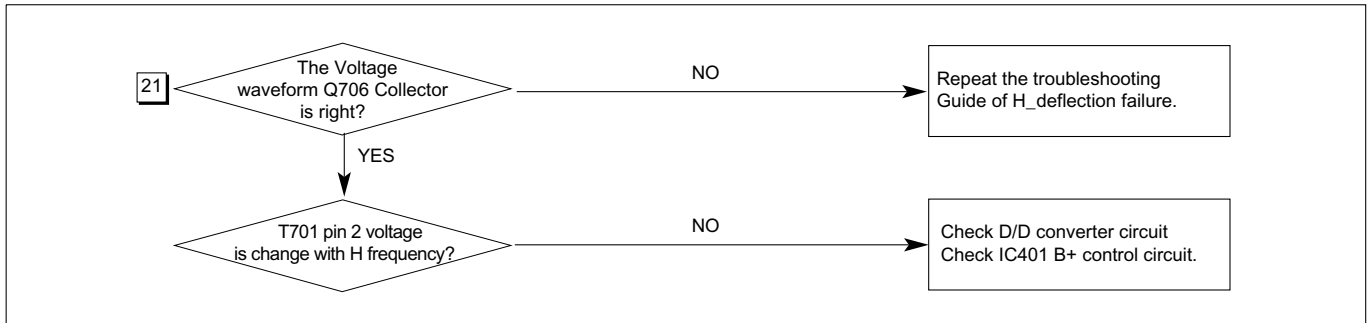
Waveforms



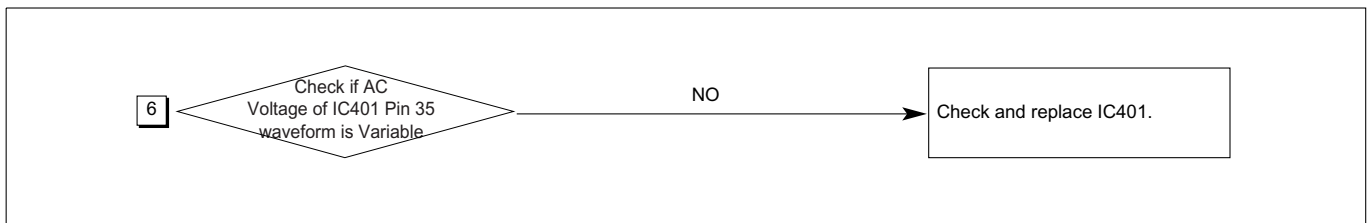
9. TROUBLE IN H-LINEARITY



10. Abnormal H_Size



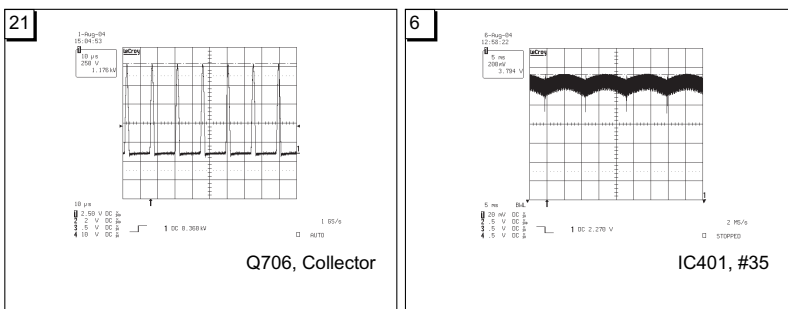
11. Side Pin or Trap Failure



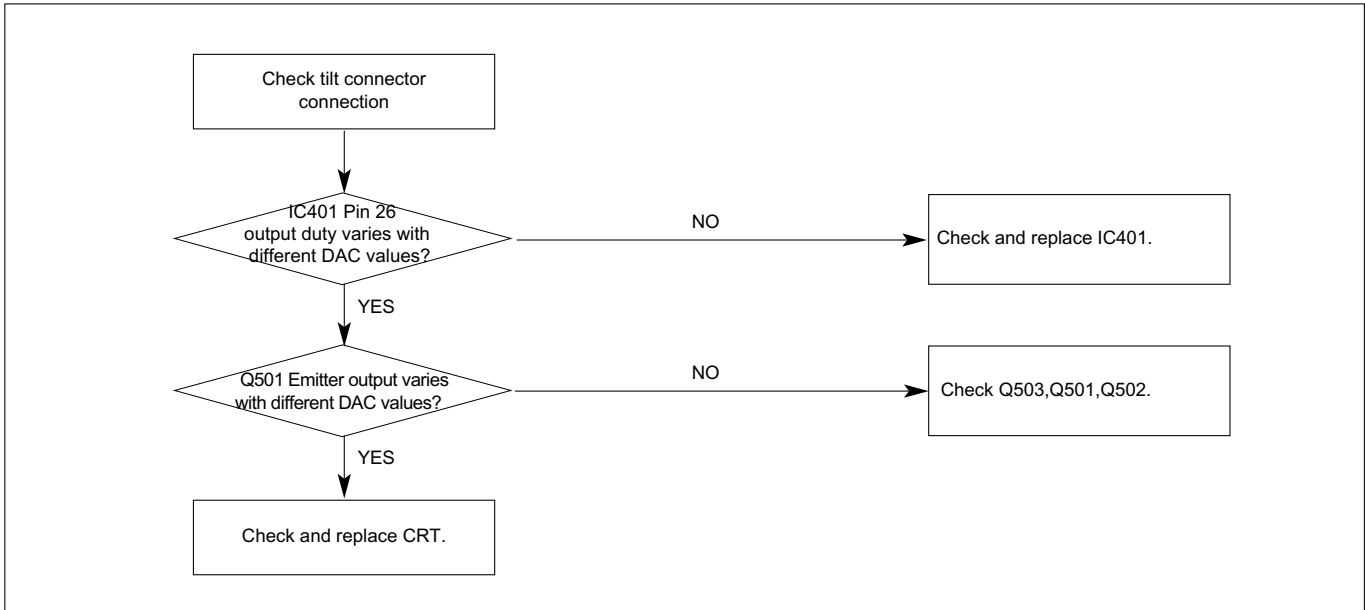
12. Para. or Pin Balance Failure



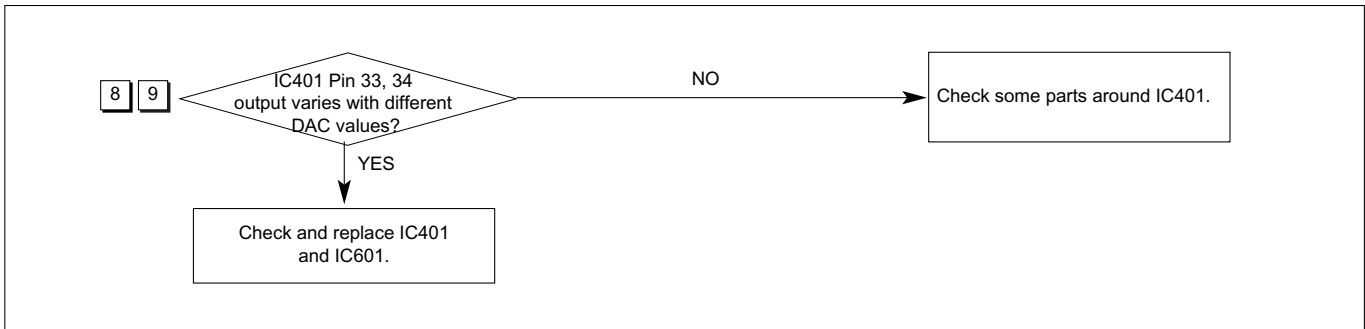
Waveforms



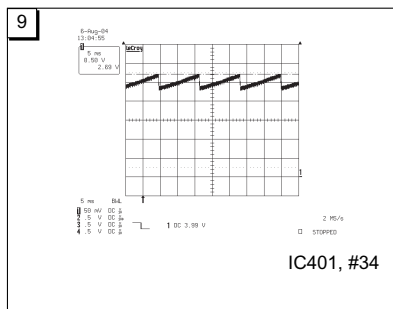
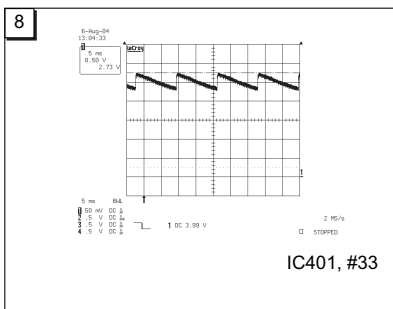
13. Tilt Failure



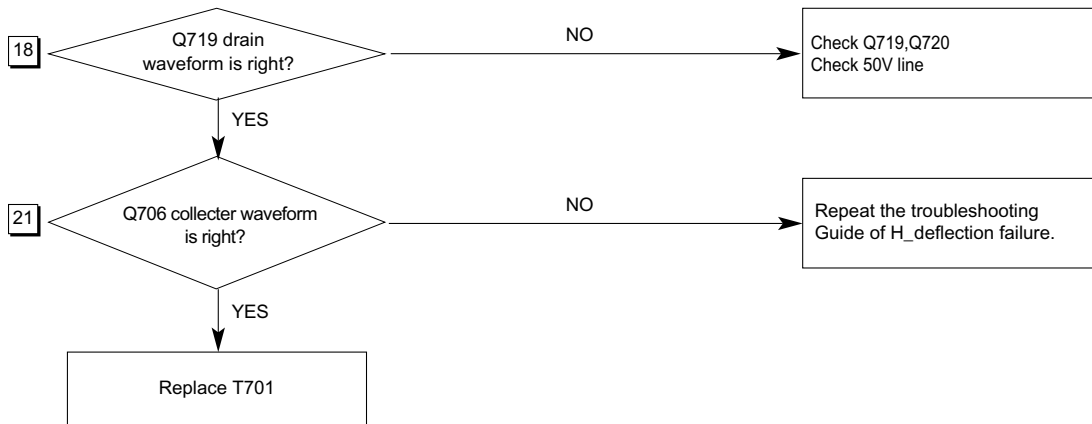
14. V Size or Pos. Variation Failure



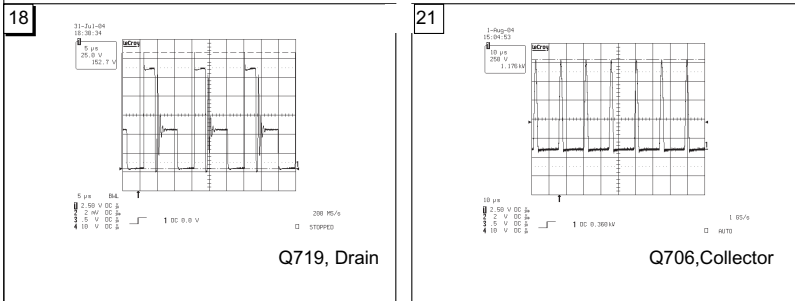
Waveforms



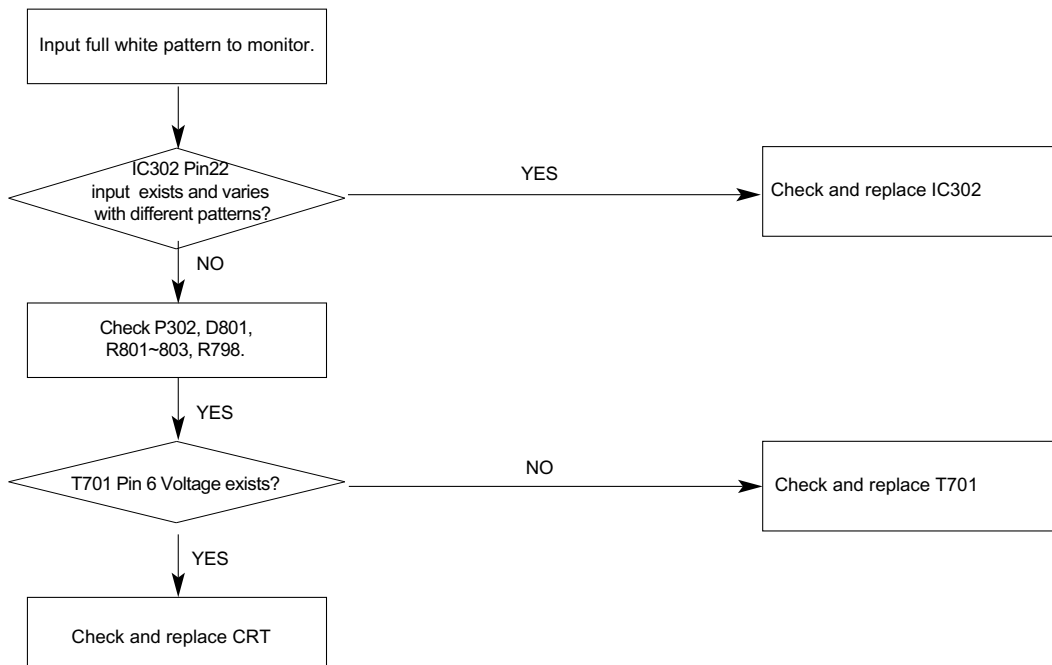
15. High Voltage Failure



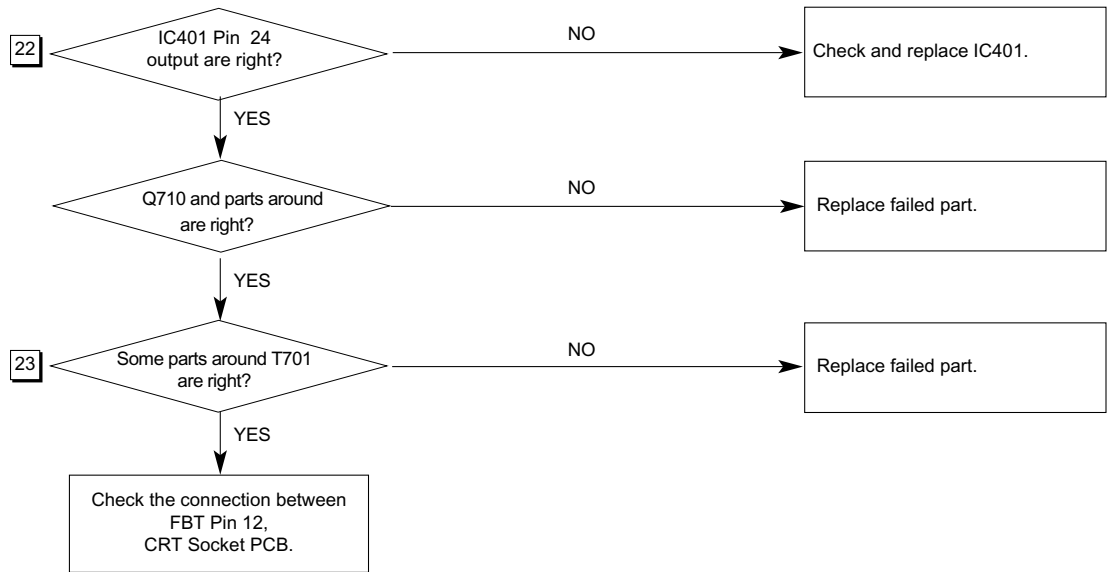
Waveforms



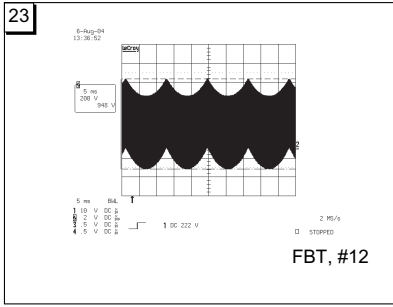
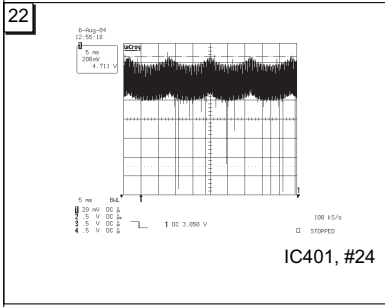
16. ABL Failure



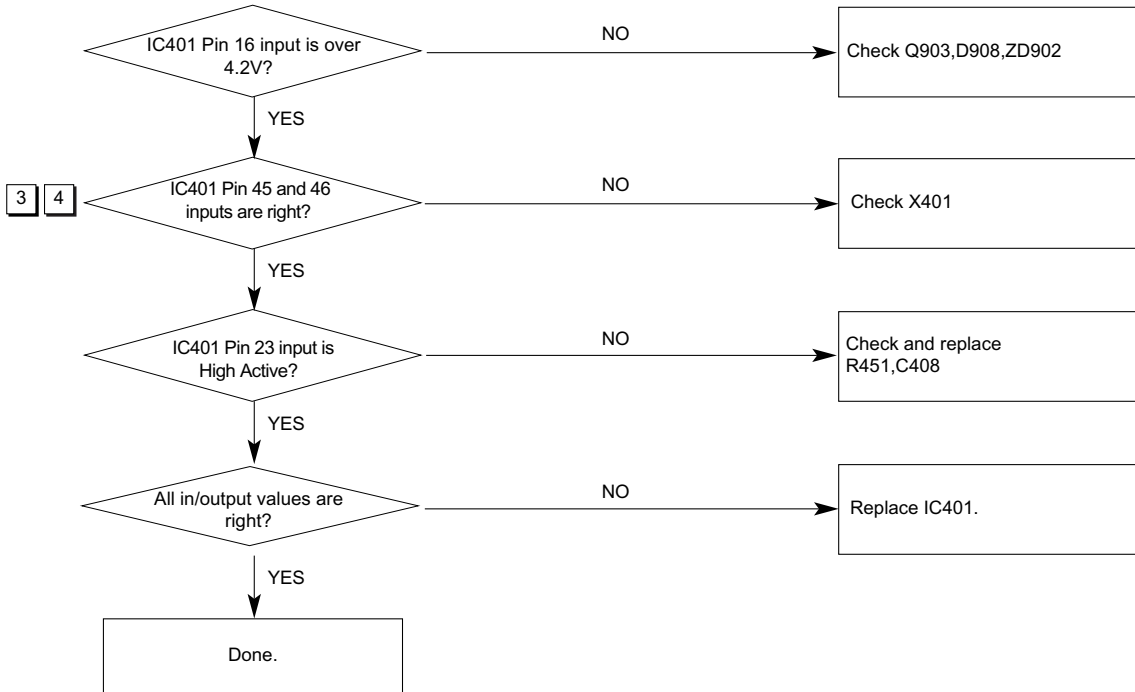
17. Focus Failure



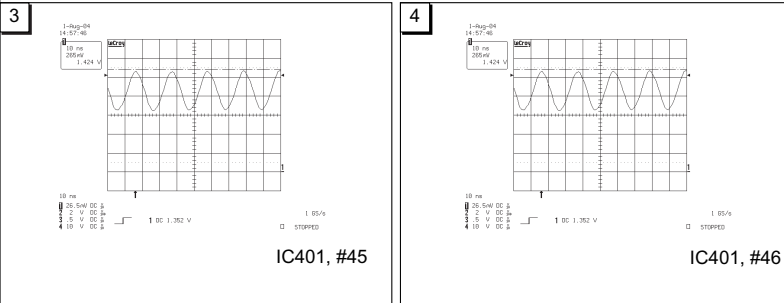
Waveforms



18. Micom Failure



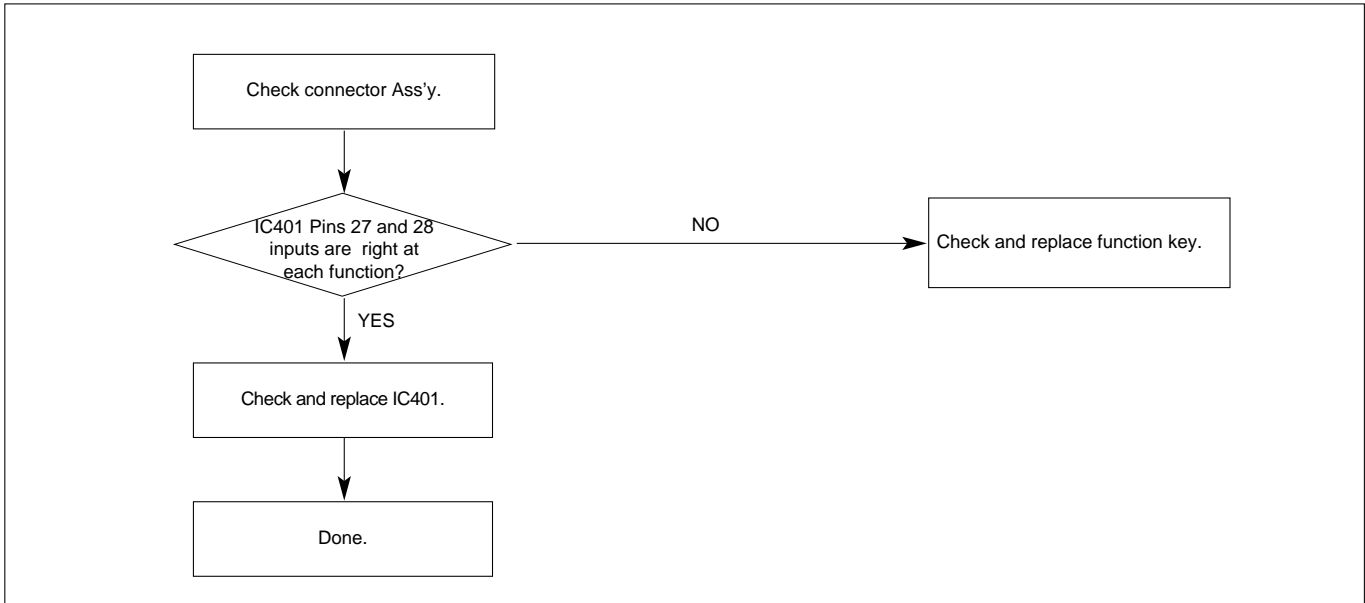
Waveforms



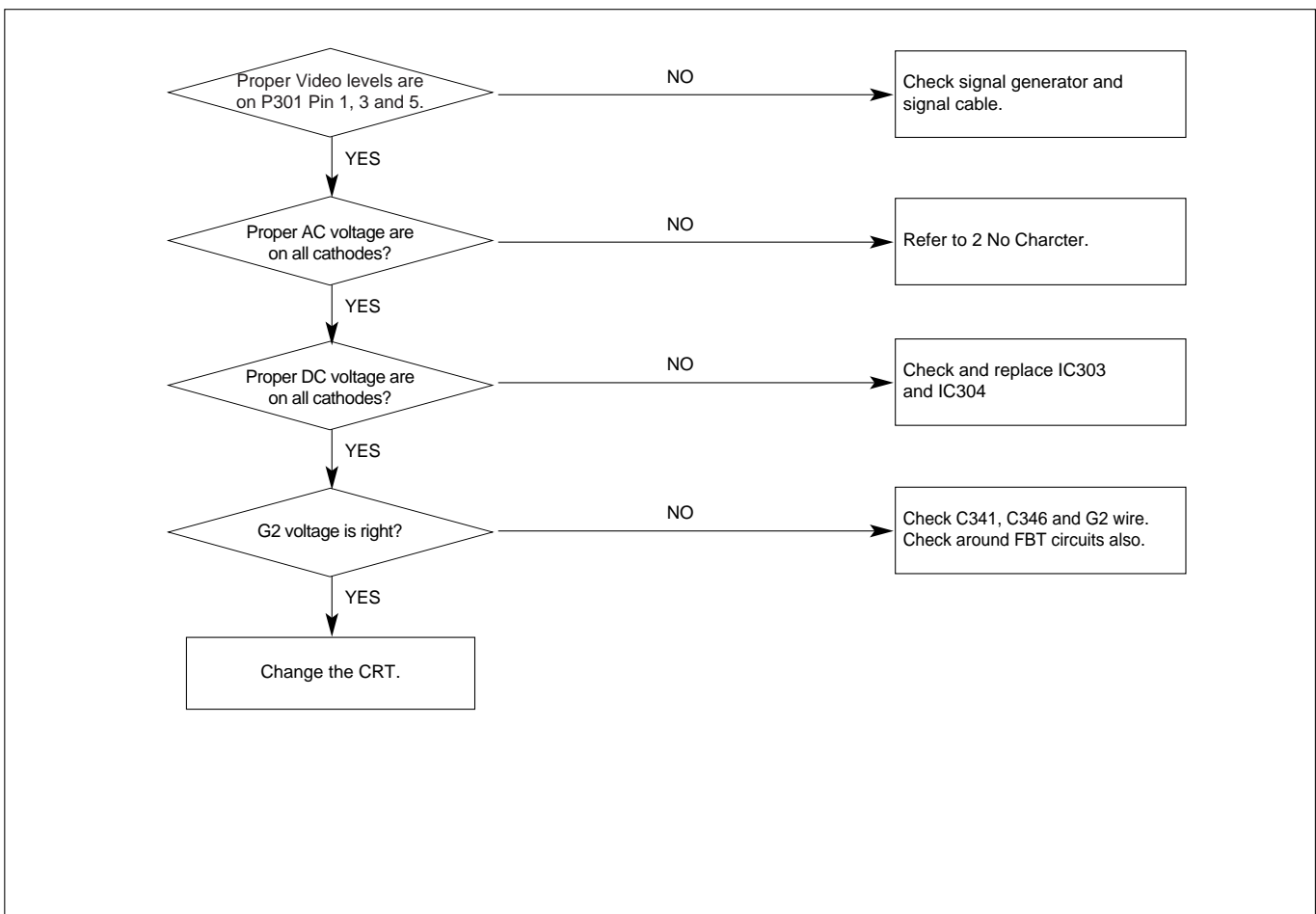
19. OSD Failure

Change IC302

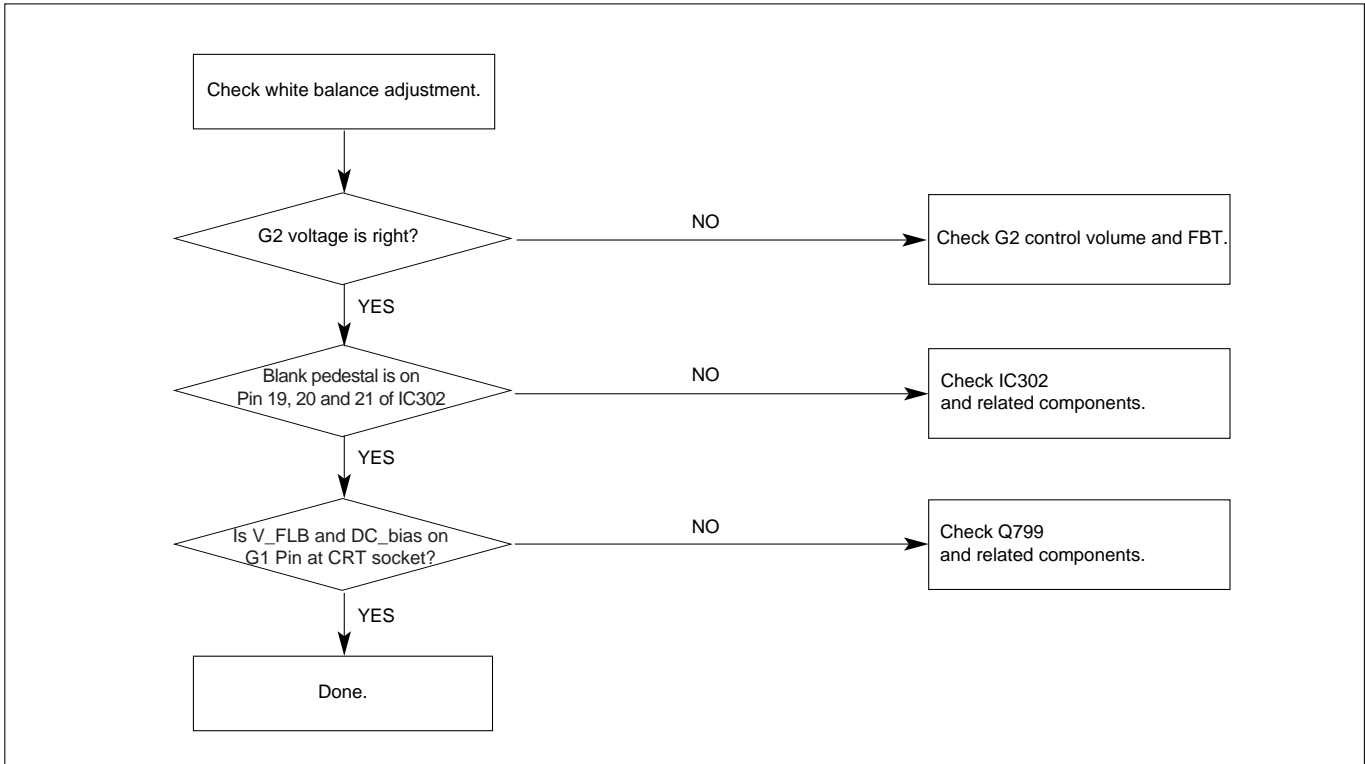
20. User Control Failure



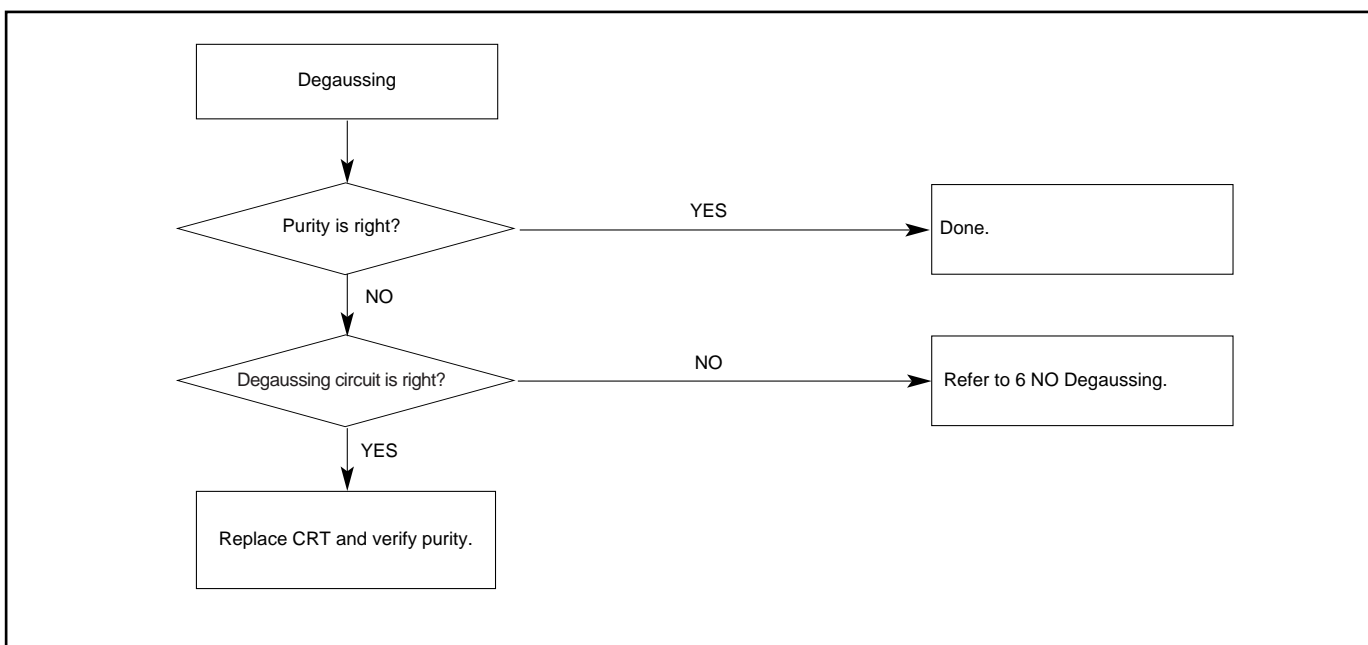
21. Missing Color



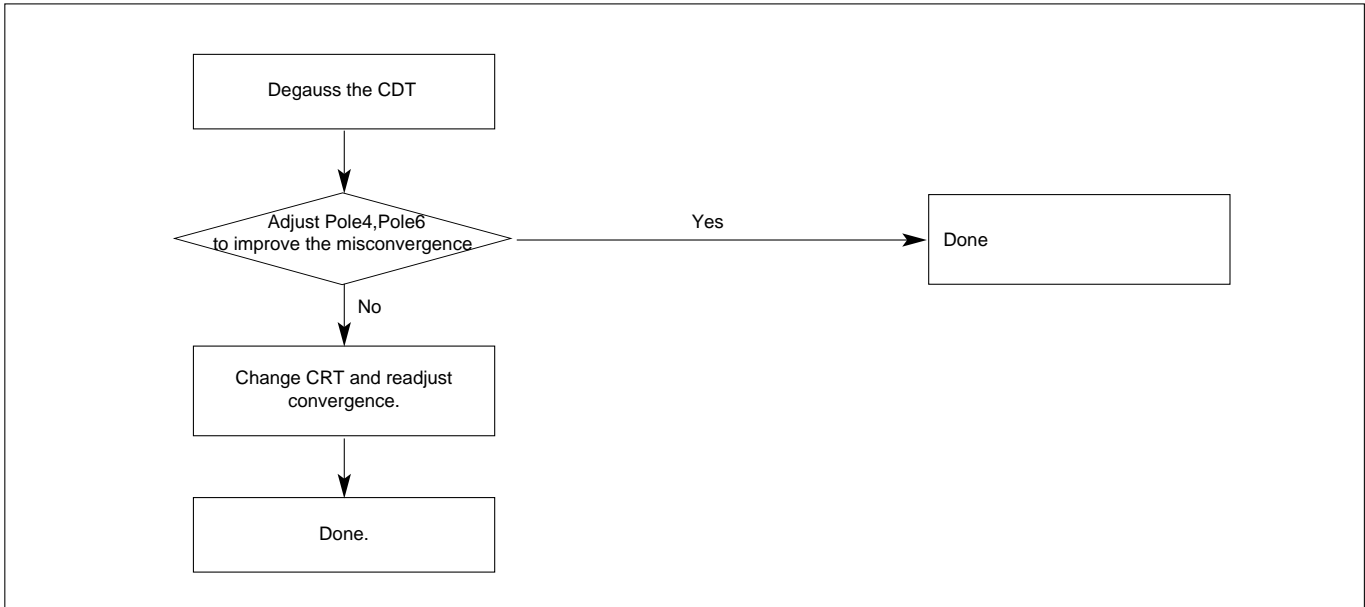
22. Visible Retrace



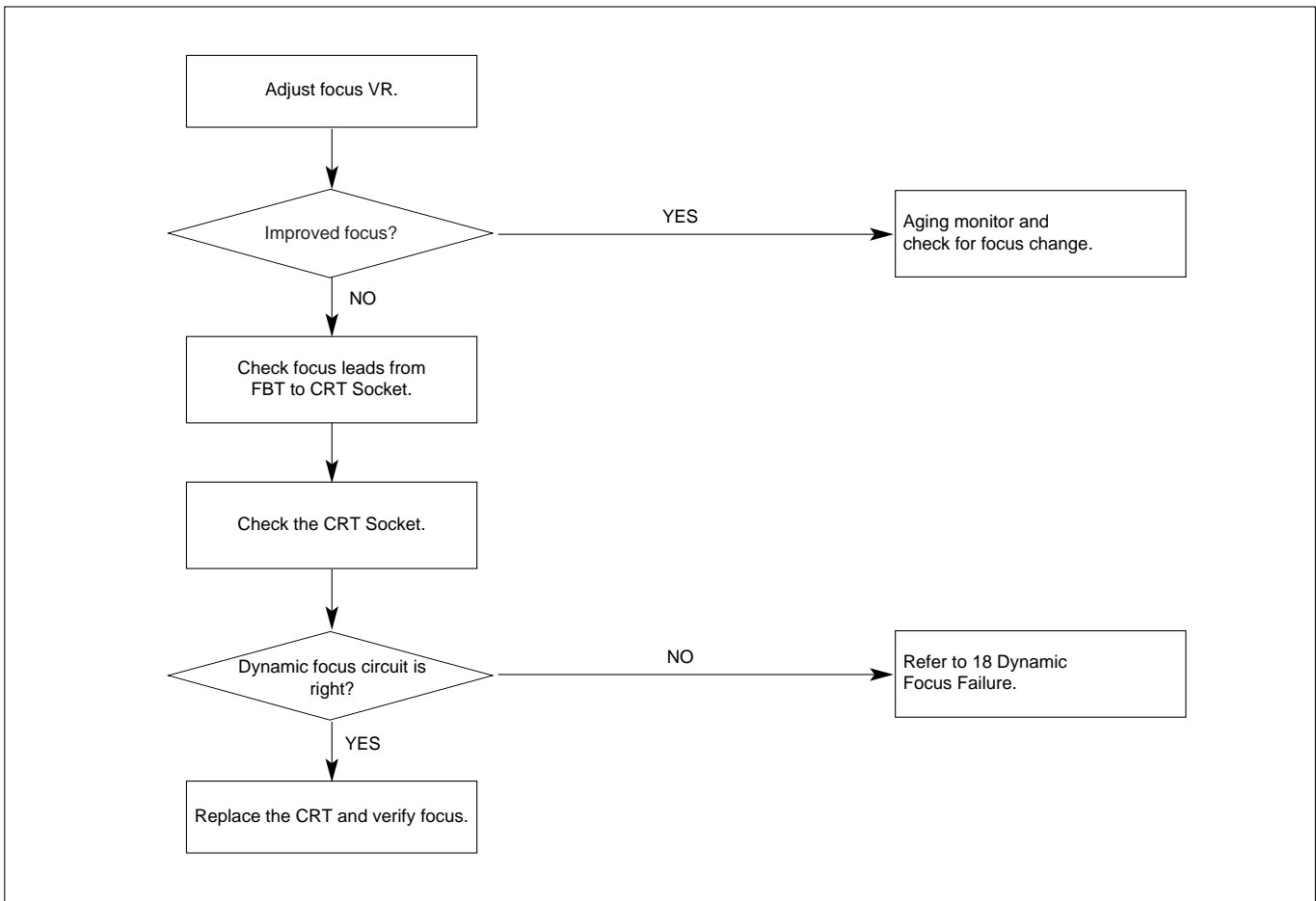
23. Purity Failure



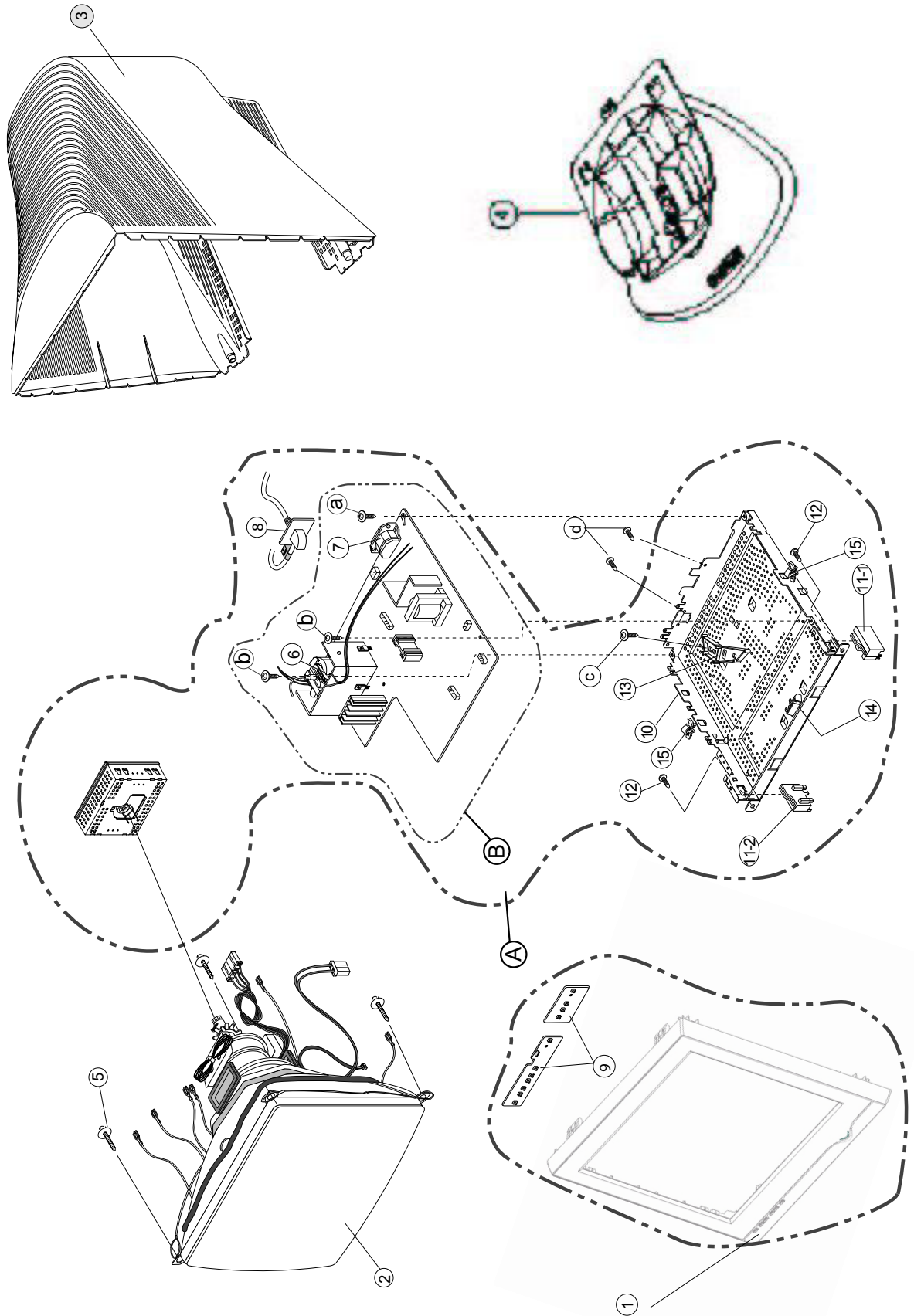
24. Misconvergence



25. Poor Focus



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

| Ref. No. | Part No. | Description |
|----------|----------------|--|
| 1 | 3091TKC130X | CABINET ASSEMBLY, T730BHKL BRAND C097 BLACK B/V TCO99 MOU4.0 EXPORT |
| | 3091TKC130H | CABINET ASSEMBLY, T730BHKL BRAND C097 BLACK TCO99 |
| | 3091TKC145B | CABINET ASSEMBLY, T730BHKL BRAND C097A PC+ABS TCO99 B/VIEW MOU4.0 BLACK |
| | 3091TKC130S | CABINET ASSEMBLY, T730SHKL BRAND C097 BLACK B/VIEW MPRII MOU4.0 |
| 2 | 6318L17023A | CDT(CIRC), M41QEE903X 21 NDDP LG-PHILIPS 85KHZ 29.1MM FCDT TCO PLUS (T730BHKL) |
| | 6318L17023E | CDT(CIRC), M41QEE903X 21 SDDP LG-PHILIPS 85KHZ 29.1MM FCDT TCO PLUS (T730BHKL) |
| | 6318L17023C | CDT(CIRC), M41QEE903X 21 KDDP LG-PHILIPS 85KHZ 29.1MM FCDT TCO PLUS (T730SHKL) |
| | 6318L17023D | CDT(CIRC), M41QEE903X 21 QDDP LG-PHILIPS 85KHZ 29.1MM FCDT TCO PLUS (T730SHKL) |
| 3 | 3809TKC050A | BACK COVER ASSEMBLY, T710BH/PH 046 EQ54(8C358) PC+AB5,LG(T730BHKL) |
| | 3809TKC050B | BACK COVER ASSEMBLY, T710BH/PH C046 GN5008HF, 8C358(EQ54) (T730BHKL) |
| | 3809TKC050C | BACK COVER ASSEMBLY, T710BH/PH C046 AF320T, 8C358(EQ54) (T730SHKL) |
| 4 | 3043TKK136A | TILT SWIVEL ASSEMBLY, T710BJ T069/B058 60HR 8C358 BRAND |
| 5 | 339-002K | SCREW ASSEMBLY, TAPTITE P TYPE D5.0 L25.0 MSWR/FZMY . |
| 6 | 6174T11004F | FBT (FLY BACK TRANSFORMER) 1063A,F700BK(71K) JUNGWOO 17" |
| 7 | 6620TKB002D | SOCKET(CIRC),POWER, CDT-3C DUO LING AC UNIVERSAL 3PIN BLACK |
| | or 6620TKB002B | SOCKET(CIRC),POWER, SA-4S HUA JIE AC UNIVERSAL 3PIN BLACK |
| 8 | 6850TA9012A | CABLE,D-SUB, UL20276-9C(5.8MM) AT 1560MM GRAY(85964) T710BJ DM |
| 9 | 6871TST586R | PWB(PCB) ASSEMBLY,SUB, T730BHKL CONTROL TOTAL BRAND MOU4.0 LGENT |
| | 6871TST586W | PWB(PCB) ASSEMBLY,SUB, T730BHKL CONTROL TOTAL BRAND MOU4.0 LGENT |
| | 6871TST586T | PWB(PCB) ASSEMBLY,SUB, T730B(S)HKL CONTROL TOTAL BRAND MOU4.0 LGENT |
| 10 | 4950TKS331A | METAL, SHIELD BOTTOM,T730 |
| 11-1 | 4810TKK150A | BRACKET, CN771C SUPPORTER BOT.(RIGHT) |
| 11-2 | 4810TKK151A | BRACKET, CN771C SUPPORTER BOT.(LEFT) |
| 12 | 332-102F | SCREW, PTP+4*20BP(MSWR/FZMY) |
| 13 | 4810TKK204H | BRACKET, 700BH HOLDER FBT |
| 14 | 4930TKK036A | HOLDER,PCB FIX FB770G |
| 15 | 4930TKK031C | HOLDER,PCB FIX,PC+ABS |
| A | 3313T17389H | MAIN TOTAL ASSEMBLY, T730BHKL BRAND CA-136 KLRUEET |
| | 3313T17389A | MAIN TOTAL ASSEMBLY, T730BHKL BRAND CA-136 KLAUEED |
| | 3313T17389J | MAIN TOTAL ASSEMBLY, T730BHKL BRAND CA-136 KLUSEEM |
| | 3313T17389Z | MAIN TOTAL ASSEMBLY, T730SHKL BRAND CA-136 |
| B | 6871TMT612T | PWB(PCB) ASSEMBLY,MAIN, T730BHKL KLRUEET BRAND CA-136 TOTAL |
| | 6871TMT602E | PWB(PCB) ASSEMBLY,MAIN, T730BHKL KLAUEED BRAND CA-136 TOTAL |
| | 6871TMT602H | PWB(PCB) ASSEMBLY,MAIN, T730BHKL KLUSEEM BRAND CA-136 TOTAL |
| | 6871TMT602D | PWB(PCB) ASSEMBLY,MAIN, T730SHKL BRAND CA-136 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 :T730BHKL | | DATE:2004.12.20 | | |
|-----------------|-----|-----------------|-------------|---|
| *S | *AL | LOC NO. | PART NO. | DESCRIPTION/SPECIFICATON |
| CAPACITORS | | | | |
| | | C301 | 0CQ1021N409 | 0.001UF D 100V 5% PE TP5 |
| | | C302 | 0CE106CF638 | "10UF SHL,SD 16V M FM5 TP 5" |
| | | C303 | 0CC5600K415 | 56P 50V JNP0 TP |
| | | C304 | 0CC5600K415 | 56P 50V JNP0 TP |
| | | C305 | 0CE476CF638 | "47UF SHL,SD 16V M FM5 TP 5" |
| | | C306 | 0CZZTFT001M | ECQB1H103JF3 MATSUSHITA 50V 10000PF 5% TAPING 103J |
| | | C307 | 0CC5600K415 | 56P 50V JNP0 TP |
| | | C308 | 0CK1020K515 | 1000PF 50V K B TR |
| | | C309 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C311 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C312 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C313 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C314 | 0CC4700W405 | 47PF 500V J SL TP |
| | | C315 | 0CE476EF638 | 47UF KMG 16V M FM5 TP 5 |
| | | C316 | 0CK10301945 | 10000PF D 1KV Z F(Y5V) TR |
| | | C317 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C318 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C319 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C320 | 0CK10202515 | 1000PF D 2KV 10% TR B(Y5P) |
| | | C321 | 0CE225CK638 | "2.2UF SHL,SD 50V M FM5 TP 5" |
| | | C323 | 0CE476CF638 | "47UF SHL,SD 16V M FM5 TP 5" |
| | | C324 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C325 | 181-288B | MKT 100V 104JTR PHS26104 |
| | | C326 | 0CC2200W415 | 22PF 500V J NP0 TR |
| | | C327 | 181-288B | MKT 100V 104JTR PHS26104 |
| | | C328 | 0CE226EN638 | 22UF KMG 100V M FM5 TP 5 |
| | | C329 | 181-288B | MKT 100V 104JTR PHS26104 |
| | | C330 | 181-288B | MKT 100V 104JTR PHS26104 |
| | | C331 | 181-288G | MKT 100V 334JTR PHS26334 |
| | | C332 | 181-288G | MKT 100V 334JTR PHS26334 |
| | | C333 | 181-288G | MKT 100V 334JTR PHS26334 |
| | | C334 | 181-288B | MKT 100V 104JTR PHS26104 |
| | | C335 | 181-288B | MKT 100V 104JTR PHS26104 |
| | | C339 | 0CK1520W515 | 1500P 500V K B TS |
| | | C340 | 181-288B | MKT 100V 104JTR PHS26104 |
| | | C341 | 0CK10202515 | 1000PF D 2KV 10% TR B(Y5P) |
| | | C344 | 181-288B | MKT 100V 104JTR PHS26104 |
| | | C346 | 0CK10302940 | 0.01M 2KV Z F S |
| | | C372 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C401 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C404 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C405 | 0CE477CF638 | 470UF SHL TYPE 16V M FM5 TP 5 |
| | | C406 | 0CK10102515 | 100PF D 2KV 10% B(Y5P) TR |
| | | C407 | 0CQ4721N409 | 0.0047UF D 100V 5% PE TP5 |
| | | C408 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C409 | 0CE106CF638 | "10UF SHL,SD 16V M FM5 TP 5" |
| | | C410 | 0CK1010K515 | 100PF 50V K B TR |
| | | C411 | 0CK1010K515 | 100PF 50V K B TR |
| | | C412 | 0CK1020K515 | 1000PF 50V K B TR |
| | | C413 | 0CK1010K515 | 100PF 50V K B TR |
| | | C414 | 0CE106CF638 | "10UF SHL,SD 16V M FM5 TP 5" |
| | | C415 | 0CK2220K515 | 2200P 50V K B TS |
| | | C416 | 0CQ1031N409 | 0.01U 100V J POLY TP |
| | | C417 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C419 | 0CQ2221N409 | 2200PF 100V J PE TP |
| | | C420 | 0CQ6831N509 | 0.068U 100V K POLY TP |

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| *S | *AL | LOC NO. | PART NO. | DESCRIPTION/SPECIFICATON |
| | | C421 | 0CK1020K515 | 1000PF 50V K B TR |
| | | C422 | 0CK2220K515 | 2200P 50V K B TS |
| | | C423 | 0CK2220K515 | 2200P 50V K B TS |
| | | C424 | 0CE475CK638 | "4.7UF SHL,SD 50V M FM5 TP 5" |
| | | C426 | 0CK4710K515 | 470PF 50V K B TR |
| | | C427 | 0CK4710K515 | 470PF 50V K B TR |
| | | C501 | 0CE106CF638 | "10UF SHL,SD 16V M FM5 TP 5" |
| | | C601 | 0CE227EF638 | "220UF KMG,RD 16V 20% TP 5 FM5" |
| | | C602 | 181-288K | MKT 100V 683JTR PHS26683 |
| | | C603 | 0CE107EK638 | 100UF KMG 50V M FM5 TP 5 |
| | | C604 | 0CZZTFT001V | ECQB1H473JM3 473J 50V TP5.0 MATSUSHITA |
| | | C605 | 0CK1020W515 | 1000P 500V K B TS |
| | | C701 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C712 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C713 | 0CK2210K515 | 220P 50V K B TS |
| | | C714 | 0CE107CH638 | "100UF SHL,SD 25V M FM5 TP 5" |
| | | C715 | 181-288N | MKT 100V 103JTR PHS86103 |
| | | C719 | 0CZZTAB001F | SHL-BP SYE / SWE 50V 3.3UF 20% BULK EB770H |
| | | C720 | 0CK10201515 | 1000P 1KV K B TS |
| | | C722 | 181-303E | 224J 30.0*19.5*12.0*20.0 250V J PU FM20 |
| | | C723 | 181-305C | 154J 19.0*14.0*8.0*10.0 250V J MPP FM10 |
| | | C724 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C726 | 181-305D | 184J 19.0*15.0*8.5*10.0 250V J MPP FM10 |
| | | C727 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C729 | 181-305L | 684J 26.0*19.0*12.5*15.0 250V J MPP FM15 |
| | | C730 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | △ | C731 | 0CBZTBU004H | 5600PF D 2.5KV H MPP NI FM20 |
| | | C733 | 0CBZTBU003H | 362J 20.0*12.0*7.0*10.0 800V J BUP FM10 |
| | | C738 | 181-302J | 472J 19.5*12.0*7.0*10.0 250V J PU FM10 |
| | | C739-1 | 0CE106CN638 | "10UF SHL,SD 100V M FM5 TP 5" |
| | | C740 | 0CE227EL630 | 220UF KMG 63V M FM5 BULK |
| | | C741 | 0CZZTFT002B | ECQV1H154JZ3 154J 50V TP5.0 MATSUSHITA |
| | | C744 | 181-305L | 684J 26.0*19.0*12.5*15.0 250V J MPP FM15 |
| | | C745 | 0CK5610W515 | 560P 500V K B TS |
| | | C748 | 0CK1510W515 | 150PF 500V K B TR |
| | | C749 | 0CE4756Q638 | 4.7000UF SMS 200V M FM5 TP5 |
| | | C750 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C756 | 0CK4700K515 | 47PF D 50V 10% B(Y5P) TR |
| | | C767 | 0CK10301945 | 10000PF D 1KV Z F(Y5V) TR |
| | | C801 | 181-288B | MKT 100V 104JTR PHS26104 |
| | △ | C901 | 0CZZTFB001B | "BULK MPX 474K2YL (X2) ETR 275V 474 10%,-10% BULK 22.5 EUROPTRONIC ELECTRONI(SHENZHEN)" |
| | △ | C902 | 0CZZTFB001C | "MPX104K2YL ETR 275V 0.1UF 10%,-10% BULK X2" |
| | △ | C903 | 0CZZTCB003D | BULK 7.5 CS E 102M 8.0 250V TDK |
| | △ | C904 | 0CZZTCB003A | BULK 7.5 CS E 222M 10.5 250V TDK |
| | △ | C905 | 0CZZTCB003A | BULK 7.5 CS E 222M 10.5 250V TDK |
| | △ | C906 | 0CZZTCB003D | BULK 7.5 CS E 102M 8.0 250V TDK |
| | △ | C907 | 0CZZTCB003C | BULK 7.5 CS E 472M 14.5 250V TDK |
| | | C908 | 0CEZTBU002D | 180UF 25.4*35 SMH/HC 400V M VNSN BULK |
| | | C909 | 0CK10301945 | 10000PF D 1KV Z F(Y5V) TR |
| | | C910 | 0CKZTTA002A | 220PF K 1KV R TP5.0 |
| | | C911 | 0CE475CK638 | "4.7UF SHL,SD 50V M FM5 TP 5" |
| | | C912 | 0CK3310K515 | 330P 50V K B TS |

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| *S | *AL | LOC NO. | PART NO. | DESCRIPTION/SPECIFICATON |
| | | C913 | 0CE476CK638 | "47UF SHL,SD 50V M FM5 TP 5" |
| | | C914 | 0CZZTFT001P | ECQB1H153JM3 153J 50V TP5.0 MATSUSHITA |
| | | C915 | 0CK6810K515 | 680P 50V K B TS |
| | | C917 | 0CK1020K515 | 1000PF 50V K B TR |
| | | C918 | 0CK1040K945 | 0.1UF 50V Z F TR |
| △ | | C921 | 0CZZTCB003A | BULK 7.5 CS E 222M 10.5 250V TDK |
| | | C941 | 0CE108CD618 | 1000UF SHL 10V M FL TP5 |
| | | C942 | 0CE107CF638 | "100UF SHL,SD 16V M FM5 TP 5" |
| | | C943 | 0CKZTTA002P | R/DCH TDK 1KV 560PF 15%/30% TAPING 125DEG. |
| | | C951 | 0CE108CF630 | 1000UF SHL 16V M FM5 BULK |
| | | C952 | 0CE107CF638 | "100UF SHL,SD 16V M FM5 TP 5" |
| | | C953 | 0CE477CF638 | 470UF SHL TYPE 16V M FM5 TP 5 |
| | | C954 | 0CE108ED618 | 1000UF KMG 10V M FL TP 5 |
| | | C971 | 0CE476EK638 | 47UF KMG 50V M FM5 TP 5 |
| | | C998 | 0CE227EL630 | 220UF KMG 63V M FM5 BULK |
| DIODES | | | | |
| | | D301 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D302 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D303 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D304 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D305 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D306 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D307 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D308 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D309 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D310 | 0DSPT00019A | PSS244 PCTRONIX TP DO34 280V 625MA 1000MA 50NSSEC 10UA |
| | | D311 | 0DSPT00019A | PSS244 PCTRONIX TP DO34 280V 625MA 1000MA 50NSSEC 10UA |
| | | D312 | 0DSPT00019A | PSS244 PCTRONIX TP DO34 280V 625MA 1000MA 50NSSEC 10UA |
| | | D313 | 0DSPT00019A | PSS244 PCTRONIX TP DO34 280V 625MA 1000MA 50NSSEC 10UA |
| | | D314 | 0DSPT00019A | PSS244 PCTRONIX TP DO34 280V 625MA 1000MA 50NSSEC 10UA |
| | | D315 | 0DSPT00019A | PSS244 PCTRONIX TP DO34 280V 625MA 1000MA 50NSSEC 10UA |
| | | D316 | 0DRTW00119A | 1N4005-1021 TIWAN SEMI TP DO41 600V 1A 30A 2USSEC 5.0UA |
| | | D401 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D402 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D403 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D406 | 0DSPT00019A | PSS244 PCTRONIX TP DO34 280V 625MA 1000MA 50NSSEC 10UA |
| | | D501 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D703 | 0DRGF00120A | MUR460(15MM) GULF BK DO201AD 600V 4A 150A 45NSSEC 10UA |
| | | D704 | 0DRFC00300A | FFPF04U150S FAIR CHILD BK TO220F 1500V 4A 40A 150NSSEC 7UA |
| | | D705 | 0DRTW00089A | SRT14(1021) TIWAN SEMI TP NON 40V 1A |

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| *S | *AL | LOC NO. | PART NO. | DESCRIPTION/SPECIFICATON |
| | | D706 | 0DRFC00300A | 25A .SEC 0.5MA FFPF04U150S FAIR CHILD BK TO220F 1500V 4A 40A 150NSSEC 7UA |
| | | D710 | 0DR400409AC | UF4004 GULF TP DO41 400V 1A 30A 50NSEC 10UA |
| | | D712 | 0DR100009CD | RGP10G-1021 TIWAN SEMI TP DO41 400V 1A 30A 150NSEC 5UA |
| | | D714 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D715 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D716 | 0DRTW00119A | 1N4005-1021 TIWAN SEMI TP DO41 600V 1A 30A 2USSEC 5.0UA |
| | | D717 | 0DRTW00119A | 1N4005-1021 TIWAN SEMI TP DO41 600V 1A 30A 2USSEC 5.0UA |
| | | D718 | 0DRTW00119A | 1N4005-1021 TIWAN SEMI TP DO41 600V 1A 30A 2USSEC 5.0UA |
| | | D719 | 0DR100009DC | RGP10J-1021 TIWAN SEMI TP DO41 600V 1A 30A 250NSEC 5UA |
| △ | | D721 | 0DR100009CD | RGP10G-1021 TIWAN SEMI TP DO41 400V 1A 30A 150NSEC 5UA |
| | | D723 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D768 | 0DD400709CC | UF4007-1021 TIWAN SEMI TP DO204AL 1000V 1A 30A 75NSEC 10UA |
| | | D801 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D900 | 0DRTW00121A | D2SB60-1121 TIWAN SEMI ST GBL 600V 2A 80A .SEC 10UA |
| | | D902 | 0DRGF00139A | GPP20J GULF TP DO15 600V 2.0A 70A 2.0USSEC 5.0UA |
| | | D904 | 0DR100009CD | RGP10G-1021 TIWAN SEMI TP DO41 400V 1A 30A 150NSEC 5UA |
| | | D905 | 0DD400709CC | UF4007-1021 TIWAN SEMI TP DO204AL 1000V 1A 30A 75NSEC 10UA |
| | | D906 | 0DR100009CD | RGP10G-1021 TIWAN SEMI TP DO41 400V 1A 30A 150NSEC 5UA |
| | | D908 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D910 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D911 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D941 | 0DR400409AC | UF4004 GULF TP DO41 400V 1A 30A 50NSEC 10UA |
| | | D942 | 0DR400409AC | UF4004 GULF TP DO41 400V 1A 30A 50NSEC 10UA |
| | | D951 | 0DRGF00150A | UF5404 GULF BK DO201AD 400V 3.0A 150A 50NSSEC 10.0UA |
| | | D952 | 0DSPT00029A | 1N4148M PCTRONIX TP DO34 100V 75VA 2000MA 4NSEC 0.025UA |
| | | D961 | 0DRGS00090A | 31GF6L-5701 GENERAL SEMICONDUCTOR BK NON 600V 3A 60A 30NSEC 20UA |
| | | D971 | 0DD400709CC | UF4007-1021 TIWAN SEMI TP DO204AL 1000V 1A 30A 75NSEC 10UA |
| | | ZD301 | 0DZPT43009A | UZ-4.3BSB PCTRONIX TP DO34 500MW 4.3BV 5MA (52MMTP)PF |
| | | ZD402 | 0DZPT56009A | UZ-5.6BSB PCTRONIX TP52 DO34 500MW 5.6BV 5MA PF |
| | | ZD403 | 0DZPT56009A | UZ-5.6BSB PCTRONIX TP52 DO34 500MW 5.6BV 5MA PF |
| | | ZD404 | 0DZPT56009A | UZ-5.6BSB PCTRONIX TP52 DO34 500MW 5.6BV 5MA PF |
| | | ZD405 | 0DZPT56009A | UZ-5.6BSB PCTRONIX TP52 DO34 500MW |

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| *S | *AL | LOC NO. | PART NO. | DESCRIPTION/SPECIFICATON |
| | | ZD406 | 0DZPT56009A | 5.6BV 5MA PF UZ-5.6BSB PCTRONIX TP52 DO34 500MMW |
| | | ZD902 | 0DZPT51009A | 5.6BV 5MA PF UZ-5.1BSB PCTRONIX TP DO34 500MMW 5.1BV 5MA PF |
| COILS&COREs | | | | |
| | | FB302 | 6210TCE003L | BAS3580T BO SUNG 3580MM AXIAL52MM |
| | | FB305 | 6210TCE003P | BRS2550B BO SUNG 2550MM RADIAL |
| | | FB306 | 6210TCE003L | BAS3580T BO SUNG 3580MM AXIAL52MM |
| | | FB307 | 6210TCE003B | BRS3580B BO SUNG 3580MM RADIAL |
| | | FB308 | 6210TCE003J | BAS2550T BO SUNG 2550MM AXIAL52MM |
| | | FB309 | 6210TCE003J | BAS2550T BO SUNG 2550MM AXIAL52MM |
| | | FB310 | 6210TCE003A | BRD3510B BO SUNG 3510MM RADIAL |
| | | FB313 | 6210TCE003J | BAS2550T BO SUNG 2550MM AXIAL52MM |
| | | FB701 | 6210TCE003L | BAS3580T BO SUNG 3580MM AXIAL52MM |
| | | FB903 | 6210TCE003P | BRS2550B BO SUNG 2550MM RADIAL |
| | | FB905 | 6210TCE003J | BAS2550T BO SUNG 2550MM AXIAL52MM |
| | | FB906 | 6210TCE003P | BRS2550B BO SUNG 2550MM RADIAL |
| | | FB921 | 6210TCE003A | BRD3510B BO SUNG 3510MM RADIAL |
| | | FB922 | 6210TCE003A | BRD3510B BO SUNG 3510MM RADIAL |
| | | L702 | 6140TBZ025D | "- H-SIZE,DR12*20-C6.0,150UH 700BJ" |
| | | L703 | 6140TYZ013A | "LX31 SAMHWA DR14*15-C5.2,17.5T, 5.6UH T" |
| | | L705 | 6140TBZ026C | DR15*18-C9.8 100UH 0.1*30MM 40.5T D/D CHOKE |
| Ics | | | | |
| | | IC302 | 0IPRPNS025C | "LM1246DDC/NA NATIONAL SEMICONDUCTOR 24,DIP ST ONE CHIP (VIDEO+OSD)" |
| | | IC303 | 0IPRPNS050A | LM2470TA NATIONAL SEMICONDUCTOR 9PIN TA09A ST MONOLITHIC TRIPLE 7.0NS CRT DRIVER |
| | | IC304 | 0IPRPNS005A | "LM2480NA NATIONAL SEMICONDUCTOR 8P,DIP ST 80V TRIPLE BIAS CLAMP" |
| | | IC402 | 0IMMRSG044A | "M24C08-WBN6(P),LF STM 8PIN PDIP ST SERIAL IIC EEPROM" |
| | | IC601 | 0IPRPPH018A | "TDA4867J PHILIPS 9PIN,ST DIP VERTICAL OUTPUT IC" |
| | | IC901 | 0ISS384200A | KA3842B (PWM) |
| TRANSISTORS | | | | |
| | | Q501 | 0TR320209AA | KTC3202-Y(KTC1959) TP KEC TO92 NPN |
| | | Q502 | 0TR127009AA | KTA1270-Y(KTA562TM) TP KEC TO92 PNP |
| | | Q503 | 0TR319809AA | KTC3198-Y(KTC1815) TP KEC TO92 NPN |
| | | Q703 | 0TFFC10012A | FQPF10N20C FAIRCHILD ST TO220F 200V 9.5A |
| | | Q704 | 0TR390409CA | FAIRCHILD 2N3904(TA) TP TO-92 60V 0.2A |
| | | Q705 | 0TR200009AB | KTC200-Y TP KEC TO92 NPN |
| | | Q706 | 0TRFC10008A | FJAF5804(TU) FAIRCHILD ST TO3PF 1500V 12A |
| | | Q710 | 0TRKE90020A | MPSA44 KEC TP TO92 500V 300MA |
| | | Q711 | 0TF630001BB | "IRF630MFP,LF SGS-T(STM) ST TO220F 200V 5A" |
| | | Q712 | 0TF630001BB | "IRF630MFP,LF SGS-T(STM) ST TO220F 200V 5A" |
| | | Q713 | 0TF630001BB | "IRF630MFP,LF SGS-T(STM) ST TO220F 200V 5A" |
| | | Q714 | 0TR319809AA | KTC3198-Y(KTC1815) TP KEC TO92 NPN |
| | | Q715 | 0TR319809AA | KTC3198-Y(KTC1815) TP KEC TO92 NPN |
| | | Q716 | 0TR319809AA | KTC3198-Y(KTC1815) TP KEC TO92 NPN |
| | | Q719 | 0TFFC10012A | FQPF10N20C FAIRCHILD ST TO220F 200V 9.5A |
| | | Q720 | 0TR390409CA | FAIRCHILD 2N3904(TA) TP TO-92 60V 0.2A |
| | | Q799 | 0TRKE90019A | MPSA92 KEC TP TO92 -300V -500MA |
| | | Q901 | 0TF760000AD | SSS7N60B FAIRCHILD ST TO220F 650V 7A |

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| *S | *AL | LOC NO. | PART NO. | DESCRIPTION/SPECIFICATON |
| | | Q903 | 0TR100809AA | KSC1008C-Y TP SAMSUNG TO92 NPN |
| | | Q941 | 0TR319809AA | KTC3198-Y(KTC1815) TP KEC TO92 NPN |
| | | Q942 | 0TR127309AA | KTA1273-Y(KTA966A) TP KEC TO92L PNP |
| | | Q951 | 0TR319809AA | KTC3198-Y(KTC1815) TP KEC TO92 NPN |
| | | Q952 | 0TR127309AA | KTA1273-Y(KTA966A) TP KEC TO92L PNP |
| | | Q953 | 0TR319809AA | KTC3198-Y(KTC1815) TP KEC TO92 NPN |
| RESISTORS | | | | |
| | | D724 | 0RD1800A609 | 180 OHM 1/2 W (7.0) 5% TA52 |
| | | FB201 | 0RD0101Q609 | 1 1/4W(3 5% TA52 |
| | | R201 | 0RD1001Q609 | 1K 1/4W(3 5% TA52 |
| | | R202 | 0RD0912Q609 | 91 OHM 1/4 W (3.4) 5% TA52 |
| | | R203 | 0RD2200Q609 | 220 1/4W(3 5% TA52 |
| | | R204 | 0RD4300Q609 | 430 OHM 1/4 W(3.4) 5.00% TA52 |
| | | R205 | 0RD1001Q609 | 1K 1/4W(3 5% TA52 |
| | | R206 | 0RD0912Q609 | 91 OHM 1/4 W (3.4) 5% TA52 |
| | | R207 | 0RD4300Q609 | 430 OHM 1/4 W(3.4) 5.00% TA52 |
| | | R208 | 0RD2200Q609 | 220 1/4W(3 5% TA52 |
| | | R209 | 0RD9100Q609 | 910 1/4W(3 5% TA52 |
| | | R211 | 0RD2200Q609 | 220 1/4W(3 5% TA52 |
| | | R220 | 0RD3901Q609 | 3.90K 1/4W(3 5% TA52 |
| | | R301 | 0RD0752Q609 | 75 1/4W(3 5% TA52 |
| | | R302 | 0RD0752Q609 | 75 1/4W(3 5% TA52 |
| | | R303 | 0RD0752Q609 | 75 1/4W(3 5% TA52 |
| | | R305 | 0RN6201F409 | 6.20K 1/6W 1% TA52 |
| | | R314 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R315 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R319 | 0RD4701Q609 | 4.70K 1/4W(3 5% TA52 |
| | | R320 | 0RD4701Q609 | 4.70K 1/4W(3 5% TA52 |
| | | R326 | 0RD2201Q609 | 2.20K 1/4W(3 5% TA52 |
| | | R327 | 0RD1001Q609 | 1K 1/4W(3 5% TA52 |
| | | R328 | 0RD1001Q609 | 1K 1/4W(3 5% TA52 |
| | | R329 | 0RD1001Q609 | 1K 1/4W(3 5% TA52 |
| | | R330 | 0RD1001Q609 | 1K 1/4W(3 5% TA52 |
| | | R331 | 0RD1600Q609 | 160 1/4W(3 5% TA52 |
| | | R332 | 0RD1600Q609 | 160 1/4W(3 5% TA52 |
| | | R333 | 0RD1300Q609 | 130 1/4W(3 5% TA52 |
| | | R334 | 0RD3303Q609 | 330K 1/4W(3 5% TA52 |
| | | R335 | 0RD3303Q609 | 330K 1/4W(3 5% TA52 |
| | | R336 | 0RD3303Q609 | 330K 1/4W(3 5% TA52 |
| | | R337 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R338 | 0RD0102Q609 | 10 1/4W(3 5% TA52 |
| | | R340 | 0RN1002F409 | 10K 1/6W 1 TA52 |
| | | R341 | 0RD0332A609 | 33 OHM 1/2 W (7.0) 5% TA52 |
| | | R342 | 0RD0332A609 | 33 OHM 1/2 W (7.0) 5% TA52 |
| | | R343 | 0RD0332A609 | 33 OHM 1/2 W (7.0) 5% TA52 |
| | | R344 | 0RD0332Q609 | 33 1/4W(3 5% TA52 |
| | | R345 | 0RD0332Q609 | 33 1/4W(3 5% TA52 |
| | | R346 | 0RD0332Q609 | 33 1/4W(3 5% TA52 |
| | | R347 | 0RD0202Q609 | 20 1/4W(3 5% TA52 |
| | | R401 | 0RD2200Q609 | 220 1/4W(3 5% TA52 |
| | | R402 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R403 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R404 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R405 | 0RD2201Q609 | 2.20K 1/4W(3 5% TA52 |
| | | R406 | 0RD2201Q609 | 2.20K 1/4W(3 5% TA52 |
| | | R407 | 0RD4701Q609 | 4.70K 1/4W(3 5% TA52 |
| | | R408 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R409 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R411 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R412 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R413 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R414 | 0RD1602Q609 | 16K 1/4W(3 5% TA52 |
| | | R415 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R416 | 0RN1501F409 | 1.5K 1/6W 1 TA52 |
| | | R417 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |

| MODEL :T730BHKL | | DATE:2004.12.20 | | |
|-----------------|-----|-----------------|-------------|------------------------------|
| *S | *AL | LOC NO. | PART NO. | DESCRIPTION/SPECIFICATON |
| | | R419 | ORN4702F409 | 47K 1/6W 1% TA52 |
| | | R420 | ORD2001Q609 | 2K 1/4W(3 5% TA52 |
| | | R421 | ORD1501Q609 | 1.50K 1/4W(3 5% TA52 |
| | | R422 | ORD2001Q609 | 2K 1/4W(3 5% TA52 |
| | | R423 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R424 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R425 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R426 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R427 | ORD1002Q609 | 10K 1/4W(3 5% TA52 |
| | | R429 | ORD1002Q609 | 10K 1/4W(3 5% TA52 |
| | | R430 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R431 | ORD1802Q609 | 18K 1/4W(3 5% TA52 |
| | | R432 | ORD2001Q609 | 2K 1/4W(3 5% TA52 |
| | | R433 | ORD2001Q609 | 2K 1/4W(3 5% TA52 |
| | | R434 | ORD1503Q609 | 150K 1/4W(3 5% TA52 |
| | | R436 | ORD3601Q609 | 3.60K 1/4W(3 5% TA52 |
| △ | | R437 | ORN2702F409 | 27K 1/6W 1% TA52 |
| | | R438 | ORD1303Q609 | 130K 1/4W(3 5% TA52 |
| △ | | R439 | ORN4700F409 | 470 1/6W 1 TA52 |
| △ | | R440 | ORN1001F409 | 1K 1/6W 1% TA52 |
| | | R441 | ORD3302Q609 | 33K 1/4W(3 5% TA52 |
| | | R442 | ORN3901F409 | 3.90K 1/6W 1% TA52 |
| | | R443 | ORD2200Q609 | 220 1/4W(3 5% TA52 |
| | | R444 | ORD4700Q609 | 470 OHM 1/4 W (3.4) 5% TA52 |
| | | R445 | ORD4700Q609 | 470 OHM 1/4 W (3.4) 5% TA52 |
| | | R446 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R447 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R449 | ORN7501F409 | 7.50K 1/6W 1% TA52 |
| | | R450 | ORD1203Q509 | 120K OHM 1/4 W (3.4) 2% TA52 |
| | | R451 | ORD1001Q609 | 1K 1/4W(3 5% TA52 |
| | | R452 | ORD2002Q609 | 20K 1/4W(3 5% TA52 |
| | | R453 | ORD2001Q609 | 2K 1/4W(3 5% TA52 |
| | | R454 | ORD2001Q609 | 2K 1/4W(3 5% TA52 |
| | | R455 | ORD1002Q609 | 10K 1/4W(3 5% TA52 |
| | | R456 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R461 | ORD3900Q609 | 390 1/4W(3 5% TA52 |
| | | R462 | ORD2001Q609 | 2K 1/4W(3 5% TA52 |
| | | R463 | ORD4701Q609 | 4.70K 1/4W(3 5% TA52 |
| | | R501 | ORD0102A609 | 10 OHM 1/2 W (7.0) 5% TA52 |
| | | R502 | ORD8202Q609 | 82K 1/4W(3 5% TA52 |
| | | R503 | ORD1502Q609 | 15K 1/4W(3 5% TA52 |
| | | R598 | ORD2001Q609 | 2K 1/4W(3 5% TA52 |
| | | R601 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R602 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R603 | ORN0220H609 | 0.22 1/2W 5% TA52 |
| | | R604 | ORD0101A609 | 1 OHM 1/2 W (7.0) 5% TA52 |
| | | R605 | ORD0102A609 | 10 OHM 1/2 W (7.0) 5% TA52 |
| | | R606 | ORD4700Q609 | 470 OHM 1/4 W (3.4) 5% TA52 |
| | | R607 | ORN4301F409 | 4.30K 1/6W 1% TA52 |
| | | R608 | ORD5600A609 | 560 OHM 1/2 W (7.0) 5% TA52 |
| | | R701 | ORD4700Q609 | 470 OHM 1/4 W (3.4) 5% TA52 |
| | | R702 | ORD6200Q609 | 620 1/4W(3 5% TA52 |
| | | R703 | ORD5601Q609 | 5.60K 1/4W(3 5% TA52 |
| | | R704 | ORD1002Q609 | 10K 1/4W(3 5% TA52 |
| | | R705 | ORD0102Q609 | 10 1/4W(3 5% TA52 |
| | | R706 | ORD3302A609 | 33K OHM 1/2 W (7.0) 5% TA52 |
| | | R727 | ORX0272K665 | 27 OHM 2 W 5% SF |
| | | R728 | ORD1001Q609 | 1K 1/4W(3 5% TA52 |
| | | R729 | 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 | ORD2701Q609 | 2.70K 1/4W(3 5% TA52 |
| | | R740 | ORD0271A609 | 2.7 OHM 1/2 W (7.0) 5% TA52 |
| | | R744 | ORD1001A609 | 1K OHM 1/2 W (7.0) 5% TA52 |

| MODEL :T730BHKL | | DATE:2004.12.20 | | |
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| *S | *AL | LOC NO. | PART NO. | DESCRIPTION/SPECIFICATON |
| | | R745 | ORD4702Q609 | 47K 1/4W(3 5% TA52 |
| | | R746 | ORD2201Q609 | 2.20K 1/4W(3 5% TA52 |
| | | R747 | ORD3001Q609 | 3K 1/4W(3 5% TA52 |
| | | R748 | ORD4702Q609 | 47K 1/4W(3 5% TA52 |
| | | R749 | ORD2201Q609 | 2.20K 1/4W(3 5% TA52 |
| | | R750 | ORD3001Q609 | 3K 1/4W(3 5% TA52 |
| | | R751 | ORD0222A609 | 22 OHM 1/2 W (7.0) 5% TA52 |
| | | R752 | ORD2201Q609 | 2.20K 1/4W(3 5% TA52 |
| | | R753 | ORD3001Q609 | 3K 1/4W(3 5% TA52 |
| | | R754 | ORD6800A609 | 680 OHM 1/2 W (7.0) 5% TA52 |
| | | R756 | ORD2202A609 | 22K OHM 1/2 W (7.0) 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 |
| | | R765 | ORD3000A609 | 300 OHM 1/2 W (7.0) 5% TA52 |
| | | R768 | ORD4703A609 | 470K OHM 1/2 W (7.0) 5% TA52 |
| | | R771 | ORD3001Q609 | 3K 1/4W(3 5% TA52 |
| | | R772 | ORD1202Q509 | 12K OHM 1/4 W (3.4) 2% TA52 |
| | | R773 | ORD6202A609 | 62K OHM 1/2 W (7.0) 5% TA52 |
| | | R782 | ORD3301A609 | 3.3K OHM 1/2 W(7.0) 5.00% TA52 |
| | | R793 | ORD4702Q609 | 47K 1/4W(3 5% TA52 |
| | | R797 | ORD1501Q609 | 1.50K 1/4W(3 5% TA52 |
| | | R798 | ORD2001Q609 | 2K 1/4W(3 5% TA52 |
| | | R799 | ORD1502Q609 | 15K 1/4W(3 5% TA52 |
| | | R801 | ORD1502Q609 | 15K 1/4W(3 5% TA52 |
| | | R802 | ORD1502Q609 | 15K 1/4W(3 5% TA52 |
| | | R803 | ORD1001Q609 | 1K 1/4W(3 5% TA52 |
| | | R809 | ORX0101K665 | 1 OHM 2 W 5% SF |
| △ | | R818 | ORN6202F409 | 62KOHM 1/6 W 1% TA52 |
| | | R901 | ORD4703A609 | 470K OHM 1/2 W (7.0) 5% TA52 |
| | | R902 | ORD0332Q609 | 33 1/4W(3 5% TA52 |
| | | R903 | ORN0562F409 | 56 OHM 1/6 W 1% TA52 |
| | | R904 | ORX3902K665 | 39K OHM 2 W 5% SF |
| | | R906 | ORD6200Q609 | 620 1/4W(3 5% TA52 |
| | | R907 | ORD3902Q609 | 39K 1/4W(3 5% TA52 |
| | | R910 | ORX4702J609 | 47K OHM 1 W 5% TA52 |
| | | R911 | ORD0202Q609 | 20 1/4W(3 5% TA52 |
| △ | | R912 | ORN1802F409 | 18K 1/6W 1% TA52 |
| △ | | R913 | ORN2701F409 | 2.7K OHM 1/6 W 1.00% TA52 |
| | | R915 | ORD2000Q609 | 200 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 |
| | | R924 | ORN0390H609 | 0.39 1/2W 5 TA52 |
| | | R925 | ORN0390H609 | 0.39 1/2W 5 TA52 |
| | | R926 | ORD4301Q609 | 4.30K 1/4W(3 5% TA52 |
| | | R927 | ORD2002Q609 | 20K 1/4W(3 5% TA52 |
| | | R928 | ORD1800Q609 | 180 1/4W(3 5% TA52 |
| | | R929 | ORD0332Q609 | 33 1/4W(3 5% TA52 |
| | | R941 | ORN0220H609 | 0.22 1/2W 5% TA52 |
| | | R944 | ORD4700A609 | 470 OHM 1/2 W (7.0) 5% TA52 |
| | | R945-1 | ORD4701Q609 | 4.70K 1/4W(3 5% TA52 |
| | | R952 | ORD1202A609 | 12K OHM 1/2 W(7.0) 5.00% TA52 |
| | | R953 | ORD1001A609 | 1K OHM 1/2 W (7.0) 5% TA52 |
| | | R954 | ORD4701Q609 | 4.70K 1/4W(3 5% TA52 |
| | | R955 | ORD4701Q609 | 4.70K 1/4W(3 5% TA52 |
| | | R956 | ORD6802A609 | 68K OHM 1/2 W (7.0) 5% TA52 |
| | | R957 | ORD0472A609 | 47 OHM 1/2 W (7.0) 5% TA52 |
| | | R960 | ORD6200A609 | 620 OHM 1/2 W(7.0) 5.00% TA52 |
| OTHERS | | | | |
| | | F1 | 430-858C | AFC-520 BAE EUN TA |
| | | F2 | 430-858C | AFC-520 BAE EUN TA |
| △ | | F901 | 0FZZTTH001B | "TIME LAG HBC 5A/250V,215 005,LITTELFUSE" |
| | | P701 | 366-112K | SA-0002K/YFW800-04L SE-A/YEONHO 4P |

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 :T730SHKL | | | | DATE:2004.12.20 |
|-----------------|-----|---------|-------------|---|
| *S | *AL | LOC NO. | PART NO. | DESCRIPTION/SPECIFICATON |
| CAPACITORS | | | | |
| | | C301 | 0CQ1021N419 | 1000P 100V J POLY NI TP |
| | | C302 | 0CE106CF638 | "10UF SHL,SD 16V M FM5 TP 5" |
| | | C303 | 0CC5600K415 | 56P 50V J NP0 TP |
| | | C304 | 0CC5600K415 | 56P 50V J NP0 TP |
| | | C305 | 0CE476CF638 | "47UF SHL,SD 16V M FM5 TP 5" |
| | | C306 | 0CZZTFT001M | ECQB1H103JF3 MATSUSHITA 50V 10000PF 5% TAPING 103J |
| | | C307 | 0CC5600K415 | 56P 50V J NP0 TP |
| | | C308 | 0CK1020K515 | 1000PF 50V K B TR |
| | | C309 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C311 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C312 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C313 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C314 | 0CC4700W405 | 47PF 500V J SL TP |
| | | C315 | 0CE476EF638 | 47UF KMG 16V M FM5 TP 5 |
| | | C316 | 0CK10301945 | 10000PF D 1KV Z F(Y5V) TR |
| | | C317 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C318 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C319 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C320 | 0CK10202515 | 1000PF D 2KV 10% TR B(Y5P) |
| | | C321 | 0CE225CK638 | "2.2UF SHL,SD 50V M FM5 TP 5" |
| | | C323 | 0CE476CF638 | "47UF SHL,SD 16V M FM5 TP 5" |
| | | C324 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C325 | 181-288B | MKT 100V 104JTR PHS26104 |
| | | C326 | 0CC2200W415 | 22PF 500V J NP0 TR |
| | | C327 | 181-288B | MKT 100V 104JTR PHS26104 |
| | | C328 | 0CE226EN638 | 22UF KMG 100V M FM5 TP 5 |
| | | C329 | 181-288B | MKT 100V 104JTR PHS26104 |
| | | C330 | 181-288B | MKT 100V 104JTR PHS26104 |
| | | C331 | 181-288G | MKT 100V 334JTR PHS26334 |
| | | C332 | 181-288G | MKT 100V 334JTR PHS26334 |
| | | C333 | 181-288G | MKT 100V 334JTR PHS26334 |
| | | C334 | 181-288B | MKT 100V 104JTR PHS26104 |
| | | C335 | 181-288B | MKT 100V 104JTR PHS26104 |
| | | C339 | 0CK1520W515 | 1500P 500V K B TS |
| | | C340 | 181-288B | MKT 100V 104JTR PHS26104 |
| | | C341 | 0CK10202515 | 1000PF D 2KV 10% TR B(Y5P) |
| | | C344 | 181-288B | MKT 100V 104JTR PHS26104 |
| | | C346 | 0CK10302940 | 0.01M 2KV Z F S |
| | | C372 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C401 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C404 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C405 | 0CE477CF638 | 470UF SHL TYPE 16V M FM5 TP 5 |
| | | C406 | 0CK10102515 | 100PF D 2KV 10% B(Y5P) TR |
| | | C407 | 0CQ4721N419 | 0.0047U 100V J POLY NI TP5 |
| | | C408 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C409 | 0CE106CF638 | "10UF SHL,SD 16V M FM5 TP 5" |
| | | C410 | 0CK1010K515 | 100PF 50V K B TR |
| | | C411 | 0CK1010K515 | 100PF 50V K B TR |
| | | C412 | 0CK1020K515 | 1000PF 50V K B TR |
| | | C413 | 0CK1010K515 | 100PF 50V K B TR |
| | | C414 | 0CE106CF638 | "10UF SHL,SD 16V M FM5 TP 5" |
| | | C415 | 0CK2220K515 | 2200P 50V K B TS |
| | | C416 | 0CQ1031N419 | 0.01U 100V J POLY NI TP |
| | | C417 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C419 | 0CQ2221N419 | 2200PF 100V J PE NI TP |
| | | C420 | 0CQ6831N509 | 0.068U 100V K POLY TP |

| MODEL :T730SHKL | | | | DATE:2004.12.20 |
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| *S | *AL | LOC NO. | PART NO. | DESCRIPTION/SPECIFICATON |
| | | C421 | 0CK1020K515 | 1000PF 50V K B TR |
| | | C422 | 0CK2220K515 | 2200P 50V K B TS |
| | | C423 | 0CK2220K515 | 2200P 50V K B TS |
| | | C424 | 0CE475CK638 | "4.7UF SHL,SD 50V M FM5 TP 5" |
| | | C426 | 0CK4710K515 | 470PF 50V K B TR |
| | | C427 | 0CK4710K515 | 470PF 50V K B TR |
| | | C501 | 0CE106CF638 | "10UF SHL,SD 16V M FM5 TP 5" |
| | | C601 | 0CE227EF638 | "220UF KMG,RD 16V 20% TP 5 FM5" |
| | | C602 | 181-288K | MKT 100V 683JTR PHS26683 |
| | | C603 | 0CE107EK638 | 100UF KMG 50V M FM5 TP 5 |
| | | C604 | 0CZZTFT001V | ECQB1H473JM3 473J 50V TP5.0 MATSUSHITA |
| | | C605 | 0CK1020W515 | 1000P 500V K B TS |
| | | C701 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C712 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C713 | 0CK2210K515 | 220P 50V K B TS |
| | | C714 | 0CE107CH638 | "100UF SHL,SD 25V M FM5 TP 5" |
| | | C715 | 181-288N | MKT 100V 103JTR PHS86103 |
| | | C719 | 0CZZTAB001F | SHL-BP SYE / SWE 50V 3.3UF 20% BULK EB770H |
| | | C720 | 0CK10201515 | 1000P 1KV K B TS |
| | | C722 | 181-303E | 224J 30.0*19.5*12.0*20.0 250V J PU FM20 |
| | | C723 | 181-305C | 154J 19.0*14.0*8.0*10.0 250V J MPP FM10 |
| | | C724 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C726 | 181-305D | 184J 19.0*15.0*8.5*10.0 250V J MPP FM10 |
| | | C727 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C729 | 181-305L | 684J 26.0*19.0*12.5*15.0 250V J MPP FM15 |
| | | C730 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | △ | C731 | 0CBZTBU004H | 5600PF D 2.5KV H MPP NI FM20 |
| | | C733 | 0CBZTBU003H | 362J 20.0*12.0*7.0*10.0 800V J BUP FM10 |
| | | C738 | 181-302J | 472J 19.5*12.0*7.0*10.0 250V J PU FM10 |
| | | C739-1 | 0CE106CN638 | "10UF SHL,SD 100V M FM5 TP 5" |
| | | C740 | 0CE227EL630 | 220UF KMG 63V M FM5 BULK |
| | | C741 | 0CZZTFT002B | ECQV1H154JZ3 154J 50V TP5.0 MATSUSHITA |
| | | C744 | 181-305L | 684J 26.0*19.0*12.5*15.0 250V J MPP FM15 |
| | | C745 | 0CK5610W515 | 560P 500V K B TS |
| | | C748 | 0CK1510W515 | 150PF 500V K B TR |
| | | C749 | 0CE4756Q638 | 4.7000UF SMS 200V M FM5 TP5 |
| | | C750 | 0CK1040K945 | 0.1UF 50V Z F TR |
| | | C756 | 0CK4700K515 | 47PF D 50V 10% B(Y5P) TR |
| | | C767 | 0CK10301945 | 10000PF D 1KV Z F(Y5V) TR |
| | | C801 | 181-288B | MKT 100V 104JTR PHS26104 |
| | △ | C901 | 0CBZTBU002B | BULK PCX2 335 474K |
| | △ | C902 | 0CBZTBU002C | BULK PCX2 335 104M |
| | △ | C903 | 0CKZTBU003D | SC SAMWHA 250V 1000PF M BULK 7.5 Y2 E |
| | △ | C904 | 0CKZTBU003A | SC E 222M 10.0BW7 250V BK7.5 SAMWHA Y2 |
| | △ | C905 | 0CKZTBU003A | SC E 222M 10.0BW7 250V BK7.5 SAMWHA Y2 |
| | △ | C906 | 0CKZTBU003D | SC SAMWHA 250V 1000PF M BULK 7.5 Y2 E |
| | △ | C907 | 0CKZTBU003C | SC E 472M 14.0BW7 250V BK7.5 SAMWHA Y2 |
| | | C908 | 0CEZTBU002D | 180UF 25.4*35 SMH/HC 400V M VNSN BULK |
| | | C909 | 0CK10301945 | 10000PF D 1KV Z F(Y5V) TR |

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|-----------------|-----|-----------------|-------------|---|
| *S | *AL | LOC NO. | PART NO. | DESCRIPTION/SPECIFICATON |
| | | C910 | 0CKZTTA002A | 220PF K 1KV R TP5.0 |
| | | C911 | 0CE475CK638 | "4.7UF SHL,SD 50V M FM5 TP 5" |
| | | C912 | 0CK3310K515 | 330P 50V K B TS |
| | | C913 | 0CE476CK638 | "47UF SHL,SD 50V M FM5 TP 5" |
| | | C914 | 0CZZTFT001P | ECQB1H153JM3 153J 50V TP5.0 MATSUSHITA |
| | | C915 | 0CK6810K515 | 680P 50V K B TS |
| | | C917 | 0CK1020K515 | 1000PF 50V K B TR |
| | | C918 | 0CK1040K945 | 0.1UF 50V Z F TR |
| △ | | C921 | 0CKZTBU003A | SC E 222M 10.0BW7 250V BK7.5 SAMWHA Y2 |
| | | C941 | 0CE108CD618 | 1000UF SHL 10V M FL TP5 |
| | | C942 | 0CE107CF638 | "100UF SHL,SD 16V M FM5 TP 5" |
| | | C943 | 0CKZTTA002P | R/DCH TDK 1KV 560PF 15%/-30% TAPING 125DEG. |
| | | C951 | 0CE108CF630 | 1000UF SHL 16V M FM5 BULK |
| | | C952 | 0CE107CF638 | "100UF SHL,SD 16V M FM5 TP 5" |
| | | C953 | 0CE477CF638 | 470UF SHL TYPE 16V M FM5 TP 5 |
| | | C954 | 0CE108ED618 | 1000UF KMG 10V M FL TP 5 |
| | | C971 | 0CE476EK638 | 47UF KMG 50V M FM5 TP 5 |
| | | C998 | 0CE227EL630 | 220UF KMG 63V M FM5 BULK |
| DIODES | | | | |
| | | D301 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D302 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D303 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D304 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D305 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D306 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D307 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D308 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D309 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D310 | 0DS124409AA | 1SS244 TP ROHM KOREA |
| | | D311 | 0DS124409AA | 1SS244 TP ROHM KOREA |
| | | D312 | 0DS124409AA | 1SS244 TP ROHM KOREA |
| | | D313 | 0DS124409AA | 1SS244 TP ROHM KOREA |
| | | D314 | 0DS124409AA | 1SS244 TP ROHM KOREA |
| | | D315 | 0DS124409AA | 1SS244 TP ROHM KOREA |
| | | D316 | 0DRTW00119A | 1N4005-1021 TIWAN SEMI TP DO41 600V 1A 30A 2USSEC 5.0UA |
| | | D401 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D402 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D403 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D406 | 0DS124409AA | 1SS244 TP ROHM KOREA |
| | | D501 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D703 | 0DRGF00120A | MUR460(15MM) GULF BK DO201AD 600V 4A 150A 45NSSEC 10UA |
| | | D704 | 0DRFC00300A | FFPF04U150S FAIR CHILD BK TO220F 1500V 4A 40A 150NSSEC 7UA |
| | | D705 | 0DRTW00089A | SRT14(1021) TIWAN SEMI TP NON 40V 1A 25A .SEC 0.5MA |
| | | D706 | 0DRFC00300A | FFPF04U150S FAIR CHILD BK TO220F 1500V 4A 40A 150NSSEC 7UA |

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| *S | *AL | LOC NO. | PART NO. | DESCRIPTION/SPECIFICATON |
| | | D710 | 0DR400409AC | UF4004 GULF TP DO41 400V 1A 30A 50NSEC 10UA |
| | | D712 | 0DR100009CD | RGP10G-1021 TIWAN SEMI TP DO41 400V 1A 30A 150NSEC 5UA |
| | | D714 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D715 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D716 | 0DRTW00119A | 1N4005-1021 TIWAN SEMI TP DO41 600V 1A 30A 2USSEC 5.0UA |
| | | D717 | 0DRTW00119A | 1N4005-1021 TIWAN SEMI TP DO41 600V 1A 30A 2USSEC 5.0UA |
| | | D718 | 0DRTW00119A | 1N4005-1021 TIWAN SEMI TP DO41 600V 1A 30A 2USSEC 5.0UA |
| | | D719 | 0DR100009DC | RGP10J-1021 TIWAN SEMI TP DO41 600V 1A 30A 250NSEC 5UA |
| △ | | D721 | 0DR100009CD | RGP10G-1021 TIWAN SEMI TP DO41 400V 1A 30A 150NSEC 5UA |
| | | D723 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D768 | 0DD400709CC | UF4007-1021 TIWAN SEMI TP DO204AL 1000V 1A 30A 75NSEC 10UA |
| | | D801 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D900 | 0DRTW00121A | D2SB60-1121 TIWAN SEMI ST GBL 600V 2A 80A _SEC 10UA |
| | | D904 | 0DR100009CD | RGP10G-1021 TIWAN SEMI TP DO41 400V 1A 30A 150NSEC 5UA |
| | | D905 | 0DD400709CC | UF4007-1021 TIWAN SEMI TP DO204AL 1000V 1A 30A 75NSEC 10UA |
| | | D906 | 0DR100009CD | RGP10G-1021 TIWAN SEMI TP DO41 400V 1A 30A 150NSEC 5UA |
| | | D908 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D910 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D911 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D941 | 0DR400409AC | UF4004 GULF TP DO41 400V 1A 30A 50NSEC 10UA |
| | | D942 | 0DR400409AC | UF4004 GULF TP DO41 400V 1A 30A 50NSEC 10UA |
| | | D951 | 0DRGF00150A | UF5404 GULF BK DO201AD 400V 3.0A 150A 50NSSEC 10.0UA |
| | | D952 | 0DSGF00019A | 1N4148 GULF TP DO35 100V 0.15A 2A 4NSSEC 25UA |
| | | D961 | 0DRGS00090A | 31GF6L-5701 GENERAL SEMICONDUCTOR BK NON 600V 3A 60A 30NSEC 20UA |
| | | D971 | 0DD400709CC | UF4007-1021 TIWAN SEMI TP DO204AL 1000V 1A 30A 75NSEC 10UA |
| | | ZD301 | 0DZPT43009A | UZ-4.3BSB PCTRONIX TP DO34 500MW 4.3BV 5MA (52MMTP)PF |
| | | ZD402 | 0DZ560009AG | GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA |
| | | ZD403 | 0DZ560009AG | GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA |
| | | ZD404 | 0DZ560009AG | GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA |
| | | ZD405 | 0DZ560009AG | GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA |
| | | ZD406 | 0DZ560009AG | GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA |
| | | ZD902 | 0DZ510009BE | GDZ5.1B TP GRANDE DO34 500MW 5.1V 20MA .PF |

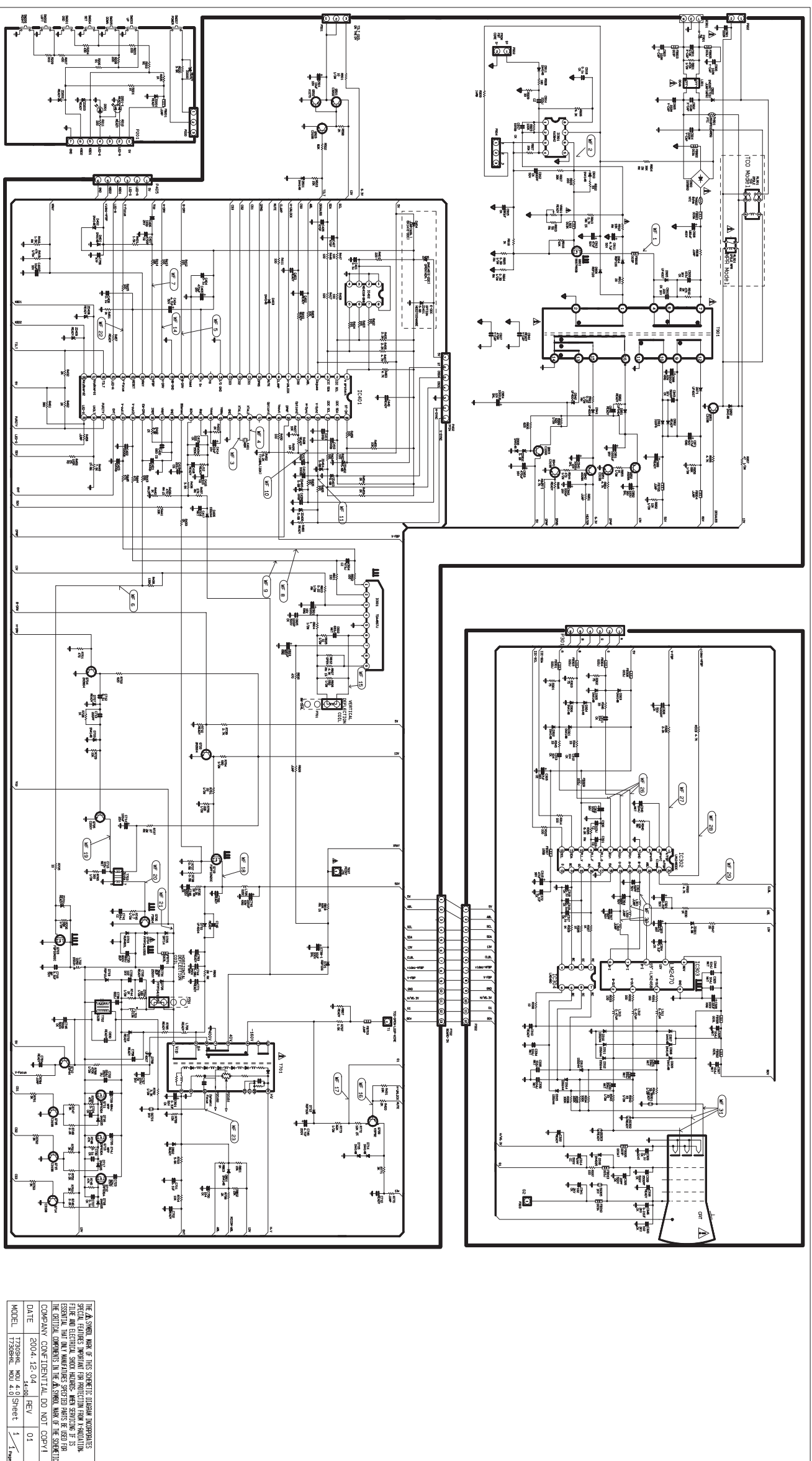
| MODEL :T730SHKL | | DATE:2004.12.20 | | |
|------------------------|-----|-----------------|-------------|--|
| *S | *AL | LOC NO. | PART NO. | DESCRIPTION/SPECIFICATON |
| COILs&COREs | | | | |
| | | FB302 | 6210TCE003L | BAS3580T BO SUNG 3580MM AXIAL52MM |
| | | FB305 | 6210TCE003P | BRS2550B BO SUNG 2550MM RADIAL |
| | | FB306 | 6210TCE003L | BAS3580T BO SUNG 3580MM AXIAL52MM |
| | | FB307 | 6210TCE003B | BRS3580B BO SUNG 3580MM RADIAL |
| | | FB308 | 6210TCE003J | BAS2550T BO SUNG 2550MM AXIAL52MM |
| | | FB309 | 6210TCE003J | BAS2550T BO SUNG 2550MM AXIAL52MM |
| | | FB310 | 6210TCE003A | BRD3510B BO SUNG 3510MM RADIAL |
| | | FB313 | 6210TCE003J | BAS2550T BO SUNG 2550MM AXIAL52MM |
| | | FB701 | 6210TCE003L | BAS3580T BO SUNG 3580MM AXIAL52MM |
| | | FB903 | 6210TCE003P | BRS2550B BO SUNG 2550MM RADIAL |
| | | FB905 | 6210TCE003J | BAS2550T BO SUNG 2550MM AXIAL52MM |
| | | FB906 | 6210TCE003P | BRS2550B BO SUNG 2550MM RADIAL |
| | | FB921 | 6210TCE003A | BRD3510B BO SUNG 3510MM RADIAL |
| | | FB922 | 6210TCE003A | BRD3510B BO SUNG 3510MM RADIAL |
| | | L702 | 6140TBZ025D | "- H-SIZE,DR12*20-C6.0,150UH 700BJ" |
| | | L703 | 6140TYZ013A | "LX31 SAMHWA DR14*15-C5.2,17.5T, 5.6UH T" |
| | | L705 | 6140TBZ026C | DR15*18-C9.8 100UH 0.1*30MM 40.5T D/D CHOKE |
| Ics | | | | |
| | | IC302 | 0IPRPNS025C | "LM1246DDC/NA NATIONAL SEMICONDUCTOR 24,DIP ST ONE CHIP (VIDEO+OSD)" |
| | | IC303 | 0IPRPNS050A | LM2470TA NATIONAL SEMICONDUCTOR 9PIN TA09A ST MONOLITHIC TRIPLE 7.0NS CRT DRIVER |
| | | IC304 | 0IPRPNS005A | "LM2480NA NATIONAL SEMICONDUCTOR 8P,DIP ST 80V TRIPLE BIAS CLAMP" |
| | | IC402 | 0ISS524808B | S524A60X81(DCB0) SAMSUNG ELECTRONICS 8DIP ST 8K EEPROM |
| | | IC601 | 0IPRPPH018A | "TDA4867J PHILIPS 9PIN,ST DIP VERTICAL OUTPUT IC" |
| | | IC901 | 0ISS384200A | KA3842B (PWM) |
| TRANSISTORs | | | | |
| | | Q501 | 0TR320209AA | KTC3202-Y(KTC1959) TP KEC TO92 NPN |
| | | Q502 | 0TR127009AA | KTA1270-Y(KTA562TM) TP KEC TO92 PNP |
| | | Q503 | 0TR319809AA | KTC3198-Y(KTC1815) TP KEC TO92 NPN |
| | | Q703 | 0TFFC10012A | FQPF10N20C FAIRCHILD ST TO220F 200V 9.5A |
| | | Q704 | 0TR390409CA | FAIRCHILD 2N3904(TA) TP TO-92 60V 0.2A |
| | | Q705 | 0TR200009AB | KTC200-Y TP KEC TO92 NPN |
| | | Q706 | 0TRFC10008A | FJAF5804(TU) FAIRCHILD ST TO3PF 1500V 12A |
| | | Q710 | 0TRKE90020A | MPSA44 KEC TP TO92 500V 300MA |
| | | Q711 | 0TF630001BB | "IRF630MFP,LF SGS-T(STM) ST TO220F 200V 5A" |
| | | Q712 | 0TF630001BB | "IRF630MFP,LF SGS-T(STM) ST TO220F 200V 5A" |
| | | Q713 | 0TF630001BB | "IRF630MFP,LF SGS-T(STM) ST TO220F 200V 5A" |
| | | Q714 | 0TR319809AA | KTC3198-Y(KTC1815) TP KEC TO92 NPN |
| | | Q715 | 0TR319809AA | KTC3198-Y(KTC1815) TP KEC TO92 NPN |
| | | Q716 | 0TR319809AA | KTC3198-Y(KTC1815) TP KEC TO92 NPN |
| | | Q719 | 0TFFC10012A | FQPF10N20C FAIRCHILD ST TO220F 200V 9.5A |
| | | Q720 | 0TR390409CA | FAIRCHILD 2N3904(TA) TP TO-92 60V 0.2A |
| | | Q799 | 0TRKE90019A | MPSA92 KEC TP TO92 -300V -500MA |
| | | Q901 | 0TF760000AD | SSS7N60B FAIRCHILD ST TO220F 650V 7A |
| | | Q903 | 0TR100809AA | KSC1008C-Y TP SAMSUNG TO92 NPN |
| | | Q941 | 0TR319809AA | KTC3198-Y(KTC1815) TP KEC TO92 NPN |
| | | Q942 | 0TR127309AA | KTA1273-Y(KTA966A) TP KEC TO92L PNP |
| | | Q951 | 0TR319809AA | KTC3198-Y(KTC1815) TP KEC TO92 NPN |

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| *S | *AL | LOC NO. | PART NO. | DESCRIPTION/SPECIFICATON |
| | | Q952 | 0TR127309AA | KTA1273-Y(KTA966A) TP KEC TO92L PNP |
| | | Q953 | 0TR319809AA | KTC3198-Y(KTC1815) TP KEC TO92 NPN |
| RESISTORs | | | | |
| | | D724 | 0RD1800A609 | 180 OHM 1/2 W (7.0) 5% TA52 |
| | | R201 | 0RD1001Q609 | 1K 1/4W(3 5% TA52 |
| | | R202 | 0RD0912Q609 | 91 OHM 1/4 W (3.4) 5% TA52 |
| | | R203 | 0RD2200Q609 | 220 1/4W(3 5% TA52 |
| | | R204 | 0RD4300Q609 | 430 OHM 1/4 W(3.4) 5.00% TA52 |
| | | R205 | 0RD1001Q609 | 1K 1/4W(3 5% TA52 |
| | | R206 | 0RD0912Q609 | 91 OHM 1/4 W (3.4) 5% TA52 |
| | | R207 | 0RD4300Q609 | 430 OHM 1/4 W(3.4) 5.00% TA52 |
| | | R208 | 0RD2200Q609 | 220 1/4W(3 5% TA52 |
| | | R209 | 0RD9100Q609 | 910 1/4W(3 5% TA52 |
| | | R211 | 0RD2200Q609 | 220 1/4W(3 5% TA52 |
| | | R220 | 0RD3901Q609 | 3.90K 1/4W(3 5% TA52 |
| | | R301 | 0RD0752Q609 | 75 1/4W(3 5% TA52 |
| | | R302 | 0RD0752Q609 | 75 1/4W(3 5% TA52 |
| | | R303 | 0RD0752Q609 | 75 1/4W(3 5% TA52 |
| | | R305 | 0RN6201F409 | 6.20K 1/6W 1% TA52 |
| | | R314 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R315 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R319 | 0RD4701Q609 | 4.70K 1/4W(3 5% TA52 |
| | | R320 | 0RD4701Q609 | 4.70K 1/4W(3 5% TA52 |
| | | R326 | 0RD2201Q609 | 2.20K 1/4W(3 5% TA52 |
| | | R327 | 0RD1001Q609 | 1K 1/4W(3 5% TA52 |
| | | R328 | 0RD1001Q609 | 1K 1/4W(3 5% TA52 |
| | | R329 | 0RD1001Q609 | 1K 1/4W(3 5% TA52 |
| | | R330 | 0RD1001Q609 | 1K 1/4W(3 5% TA52 |
| | | R331 | 0RD1600Q609 | 160 1/4W(3 5% TA52 |
| | | R332 | 0RD1600Q609 | 160 1/4W(3 5% TA52 |
| | | R333 | 0RD1300Q609 | 130 1/4W(3 5% TA52 |
| | | R334 | 0RD3303Q609 | 330K 1/4W(3 5% TA52 |
| | | R335 | 0RD3303Q609 | 330K 1/4W(3 5% TA52 |
| | | R336 | 0RD3303Q609 | 330K 1/4W(3 5% TA52 |
| | | R337 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R338 | 0RD0102Q609 | 10 1/4W(3 5% TA52 |
| | | R340 | 0RN1002F409 | 10K 1/6W 1 TA52 |
| | | R341 | 0RD0332A609 | 33 OHM 1/2 W (7.0) 5% TA52 |
| | | R342 | 0RD0332A609 | 33 OHM 1/2 W (7.0) 5% TA52 |
| | | R343 | 0RD0332A609 | 33 OHM 1/2 W (7.0) 5% TA52 |
| | | R344 | 0RD0332Q609 | 33 1/4W(3 5% TA52 |
| | | R345 | 0RD0332Q609 | 33 1/4W(3 5% TA52 |
| | | R346 | 0RD0332Q609 | 33 1/4W(3 5% TA52 |
| | | R347 | 0RD0202Q609 | 20 1/4W(3 5% TA52 |
| | | R401 | 0RD2200Q609 | 220 1/4W(3 5% TA52 |
| | | R402 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R403 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R404 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R405 | 0RD2201Q609 | 2.20K 1/4W(3 5% TA52 |
| | | R406 | 0RD2201Q609 | 2.20K 1/4W(3 5% TA52 |
| | | R407 | 0RD4701Q609 | 4.70K 1/4W(3 5% TA52 |
| | | R408 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R409 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R411 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R412 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R413 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R414 | 0RD1602Q609 | 16K 1/4W(3 5% TA52 |
| | | R415 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R416 | 0RN1501F409 | 1.5K 1/6W 1 TA52 |
| | | R417 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R419 | 0RN4702F409 | 47K 1/6W 1% TA52 |
| | | R420 | 0RD2001Q609 | 2K 1/4W(3 5% TA52 |
| | | R421 | 0RD1501Q609 | 1.50K 1/4W(3 5% TA52 |
| | | R422 | 0RD2001Q609 | 2K 1/4W(3 5% TA52 |
| | | R423 | 0RD1000Q609 | 100 1/4W(3 5% TA52 |

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| *S | *AL | LOC NO. | PART NO. | DESCRIPTION/SPECIFICATON |
| | | R424 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R425 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R426 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R427 | ORD1002Q609 | 10K 1/4W(3 5% TA52 |
| | | R429 | ORD1002Q609 | 10K 1/4W(3 5% TA52 |
| | | R430 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R431 | ORD1802Q609 | 18K 1/4W(3 5% TA52 |
| | | R432 | ORD2001Q609 | 2K 1/4W(3 5% TA52 |
| | | R433 | ORD2001Q609 | 2K 1/4W(3 5% TA52 |
| | | R434 | ORD1503Q609 | 150K 1/4W(3 5% TA52 |
| | | R436 | ORD3601Q609 | 3.60K 1/4W(3 5% TA52 |
| △ | | R437 | 0RN2702F409 | 27K 1/6W 1% TA52 |
| | | R438 | ORD1303Q609 | 130K 1/4W(3 5% TA52 |
| △ | | R439 | 0RN4700F409 | 470 1/6W 1 TA52 |
| △ | | R440 | 0RN1001F409 | 1K 1/6W 1% TA52 |
| | | R441 | ORD3302Q609 | 33K 1/4W(3 5% TA52 |
| | | R442 | 0RN3901F409 | 3.90K 1/6W 1% TA52 |
| | | R443 | ORD2200Q609 | 220 1/4W(3 5% TA52 |
| | | R444 | ORD4700Q609 | 470 OHM 1/4 W (3.4) 5% TA52 |
| | | R445 | ORD4700Q609 | 470 OHM 1/4 W (3.4) 5% TA52 |
| | | R446 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R447 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R449 | 0RN7501F409 | 7.50K 1/6W 1% TA52 |
| | | R450 | ORD1203Q509 | 120K OHM 1/4 W (3.4) 2% TA52 |
| | | R451 | ORD1001Q609 | 1K 1/4W(3 5% TA52 |
| | | R452 | ORD2002Q609 | 20K 1/4W(3 5% TA52 |
| | | R453 | ORD2001Q609 | 2K 1/4W(3 5% TA52 |
| | | R454 | ORD2001Q609 | 2K 1/4W(3 5% TA52 |
| | | R455 | ORD1002Q609 | 10K 1/4W(3 5% TA52 |
| | | R456 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R461 | ORD3900Q609 | 390 1/4W(3 5% TA52 |
| | | R462 | ORD2001Q609 | 2K 1/4W(3 5% TA52 |
| | | R463 | ORD4701Q609 | 4.70K 1/4W(3 5% TA52 |
| | | R501 | ORD0102A609 | 10 OHM 1/2 W (7.0) 5% TA52 |
| | | R502 | ORD8202Q609 | 82K 1/4W(3 5% TA52 |
| | | R503 | ORD1502Q609 | 15K 1/4W(3 5% TA52 |
| | | R598 | ORD2001Q609 | 2K 1/4W(3 5% TA52 |
| | | R601 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R602 | ORD1000Q609 | 100 1/4W(3 5% TA52 |
| | | R603 | 0RN0220H609 | 0.22 1/2W 5% TA52 |
| | | R604 | ORD0101A609 | 1 OHM 1/2 W (7.0) 5% TA52 |
| | | R605 | ORD0102A609 | 10 OHM 1/2 W (7.0) 5% TA52 |
| | | R606 | ORD4700Q609 | 470 OHM 1/4 W (3.4) 5% TA52 |
| | | R607 | 0RN4301F409 | 4.30K 1/6W 1% TA52 |
| | | R608 | ORD5600A609 | 560 OHM 1/2 W (7.0) 5% TA52 |
| | | R701 | ORD4700Q609 | 470 OHM 1/4 W (3.4) 5% TA52 |
| | | R702 | ORD6200Q609 | 620 1/4W(3 5% TA52 |
| | | R703 | ORD5601Q609 | 5.60K 1/4W(3 5% TA52 |
| | | R704 | ORD1002Q609 | 10K 1/4W(3 5% TA52 |
| | | R705 | ORD0102Q609 | 10 1/4W(3 5% TA52 |
| | | R706 | ORD3302A609 | 33K OHM 1/2 W (7.0) 5% TA52 |
| | | R727 | 0RX0272K665 | 27 OHM 2 W 5% SF |
| | | R728 | ORD1001Q609 | 1K 1/4W(3 5% TA52 |
| | | R729 | ORD1002Q609 | 10K 1/4W(3 5% TA52 |
| | | R736 | 0RX2201J609 | 2.2KOHM 1 W 5% TA52 |
| | | R737 | 0RN0560H609 | 0.56 1/2W 5 TA52 |
| | | R738 | 0RN0560H609 | 0.56 1/2W 5 TA52 |
| | | R739 | ORD2701Q609 | 2.70K 1/4W(3 5% TA52 |
| | | R740 | ORD0271A609 | 2.7 OHM 1/2 W (7.0) 5% TA52 |
| | | R744 | ORD1001A609 | 1K OHM 1/2 W (7.0) 5% TA52 |
| | | R745 | ORD4702Q609 | 47K 1/4W(3 5% TA52 |
| | | R746 | ORD2201Q609 | 2.20K 1/4W(3 5% TA52 |
| | | R747 | ORD3001Q609 | 3K 1/4W(3 5% TA52 |
| | | R748 | ORD4702Q609 | 47K 1/4W(3 5% TA52 |
| | | R749 | ORD2201Q609 | 2.20K 1/4W(3 5% TA52 |

| MODEL :T730SHKL | | DATE:2004.12.20 | | |
|-----------------|-----|-----------------|-------------|--|
| *S | *AL | LOC NO. | PART NO. | DESCRIPTION/SPECIFICATON |
| | | R750 | ORD3001Q609 | 3K 1/4W(3 5% TA52 |
| | | R751 | ORD0222A609 | 22 OHM 1/2 W (7.0) 5% TA52 |
| | | R752 | ORD2201Q609 | 2.20K 1/4W(3 5% TA52 |
| | | R753 | ORD3001Q609 | 3K 1/4W(3 5% TA52 |
| | | R754 | ORD6800A609 | 680 OHM 1/2 W (7.0) 5% TA52 |
| | | R756 | ORD2202A609 | 22K OHM 1/2 W (7.0) 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 |
| | | R765 | ORD3000A609 | 300 OHM 1/2 W (7.0) 5% TA52 |
| | | R768 | ORD4703A609 | 470K OHM 1/2 W (7.0) 5% TA52 |
| | | R771 | ORD3001Q609 | 3K 1/4W(3 5% TA52 |
| | | R772 | ORD1202Q509 | 12K OHM 1/4 W (3.4) 2% TA52 |
| | | R773 | ORD6202A609 | 62K OHM 1/2 W (7.0) 5% TA52 |
| | | R782 | ORD3301A609 | 3.3K OHM 1/2 W(7.0) 5.00% TA52 |
| | | R793 | ORD4702Q609 | 47K 1/4W(3 5% TA52 |
| | | R797 | ORD1501Q609 | 1.50K 1/4W(3 5% TA52 |
| | | R798 | ORD2001Q609 | 2K 1/4W(3 5% TA52 |
| | | R799 | ORD1502Q609 | 15K 1/4W(3 5% TA52 |
| | | R801 | ORD1502Q609 | 15K 1/4W(3 5% TA52 |
| | | R802 | ORD1502Q609 | 15K 1/4W(3 5% TA52 |
| | | R803 | ORD1001Q609 | 1K 1/4W(3 5% TA52 |
| | | R809 | 0RX0101K665 | 1 OHM 2 W 5% SF |
| △ | | R818 | 0RN6202F409 | 62KOHM 1/6 W 1% TA52 |
| | | R901 | ORD4703A609 | 470K OHM 1/2 W (7.0) 5% TA52 |
| | | R902 | ORD0332Q609 | 33 1/4W(3 5% TA52 |
| | | R903 | ORD0562F609 | 56 1/6W 5% TA52 |
| | | R904 | 0RX3902K665 | 39K OHM 2 W 5% SF |
| | | R906 | ORD6200Q609 | 620 1/4W(3 5% TA52 |
| | | R907 | ORD3902Q609 | 39K 1/4W(3 5% TA52 |
| | | R910 | 0RX4702J609 | 47K OHM 1 W 5% TA52 |
| | | R911 | ORD0202Q609 | 20 1/4W(3 5% TA52 |
| △ | | R912 | 0RN1802F409 | 18K 1/6W 1% TA52 |
| △ | | R913 | 0RN2701F409 | 2.7K OHM 1/6 W 1.00% TA52 |
| | | R915 | ORD2000Q609 | 200 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 |
| | | R924 | 0RN0390H609 | 0.39 1/2W 5 TA52 |
| | | R925 | 0RN0390H609 | 0.39 1/2W 5 TA52 |
| | | R926 | ORD4301Q609 | 4.30K 1/4W(3 5% TA52 |
| | | R927 | ORD2002Q609 | 20K 1/4W(3 5% TA52 |
| | | R928 | ORD1800Q609 | 180 1/4W(3 5% TA52 |
| | | R929 | ORD0332Q609 | 33 1/4W(3 5% TA52 |
| | | R941 | 0RN0220H609 | 0.22 1/2W 5% TA52 |
| | | R944 | ORD4700A609 | 470 OHM 1/2 W (7.0) 5% TA52 |
| | | R945-1 | ORD4701Q609 | 4.70K 1/4W(3 5% TA52 |
| | | R952 | ORD1202A609 | 12K OHM 1/2 W(7.0) 5.00% TA52 |
| | | R953 | ORD1001A609 | 1K OHM 1/2 W (7.0) 5% TA52 |
| | | R954 | ORD4701Q609 | 4.70K 1/4W(3 5% TA52 |
| | | R955 | ORD4701Q609 | 4.70K 1/4W(3 5% TA52 |
| | | R956 | ORD6802A609 | 68K OHM 1/2 W (7.0) 5% TA52 |
| | | R957 | ORD0472A609 | 47 OHM 1/2 W (7.0) 5% TA52 |
| | | R960 | ORD6200A609 | 620 OHM 1/2 W(7.0) 5.00% TA52 |
| OTHERS | | | | |
| | | F1 | 430-858C | AFC-520 BAE EUN TA |
| | | F2 | 430-858C | AFC-520 BAE EUN TA |
| △ | | F901 | 0FZZTTH004B | "TIME LAG HBC TSC 5A/250V.WALTER" |
| | | P701 | 366-112K | SA-0002K/YFW800-04L SE-A/YEONHO 4P 10.0MM NI PLATED |
| | | P902 | 366-164A | YW396-03AV YEONHO 3P 3.96MM S/T |
| △ | | RL901 | 6920TBA004A | G5PA-1-M OMRON 250VAC 5A 12VDC 1A NO VENTING |
| | | SC301 | 6620TBD003A | PCS701E PARK ELEC. 10PIN 14/360 STRAIGHT |

SCHEMATIC DIAGRAM



| | | | |
|--|------------|-------|-------|
| THE AS SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES | | | |
| SPECIAL FEATURES INDICATING THE PROTECTION FROM REPRODUCTION | | | |
| ESSENTIAL BUT NOT NARRATIVE SPECIFIED PARTS OF THE DESIGN | | | |
| THE ORIGINAL COMPONENTS IN THE AS SYMBOL MARK OF THE SCHEMATIC | | | |
| COMPANY CONFIDENTIAL, DO NOT COPY! | | | |
| DATE | 2004.12.04 | REV | 01 |
| MODEL | 77599001 | REV | 4.00 |
| | | Sheet | 1 / 1 |

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.

| | | | | | | | | | | | | | | | | | | | |
|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|-----------|--|
| 01 | | 02 | | 03 | | 04 | | 05 | | 06 | | 07 | | 08 | | 09 | | 10 | |
| 11 | | 14 | | 15 | | 16 | | 17 | | 18 | | 19 | | 20 | | 21 | | 22 | |
| 23 | | 26 | | 27 | | 28 | | 29 | | 30 | | 31 | | | | | | | |



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