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COLOR MONITOR SERVICE MANUAL

CHASSIS NO. : CA-137

MODEL: FLATRON ez T930B (T930BM-KL***E*)
(T930BAKM-KL***E*)

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



() **Same model for Service

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SPECIFICATIONS

1. PICTURE TUBE

Size	: 19 inch (Flat Slot Mask)
Deflection Angle	: 90°
Neck Diameter	: 29.1 mm
Strip Pitch	: 0.26 mm
Diagonal Size	: 457.2 mm
View Size	: 365.8 x 274.3 mm
Face Treatment	: W-ARAS, Internal Anti-Glare

2. SIGNAL

- 2-1. Horizontal & Vertical Sync
- 1) Input Voltage Level: Low= ≤0.8V, High= ≥2.1V
 - 2) Sync Polarity : Positive or Negative

2-2. Video Input Signal

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

2-3. Signal Connector

15 Pin D-Sub Connector

2-4. Scanning Frequency

Horizontal	: 30~98 kHz
Vertical	: 50~160 Hz

3. POWER SUPPLY

3-1. Power Range

AC 100-240V~50/60HZ, 2.5A Max
AC 200-240V~50Hz, 1.5A Max.(PFC version)

3-2. Power Consumption

MODE	VIDEO	POWER CONSUMPTION	LED COLOR
ON	Yes	less than 103W	BLUE
SLEEP	No	less than 4W	AMBER
OFF	No	less than 2W	NO

4. DISPLAY AREA

4-1. Active Video Area :

- Max Image Size - 365.8 x 274.3mm (14.40" x 10.80")
- Preset Image Size - 350 x 262 mm (13.78" x 10.31")

4-2. Display Color : Full Colors

4-3. Display Resolution : 1600 Dots x 1200Lines/75Hz

4-4. Video Bandwidth : 203MHz

5. ENVIRONMENT

5-1. Operating Temperature: 0°C ~ 40°C (32°F ~ 103°F) (Ambient)

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

5-3. Altitude : Less than 5000m(domestic) Less than 3000m(china)

6. DIMENSIONS (with TILT/SWIVEL)

Width	: 443.0 mm (17.44")
Depth	: 458.0 mm (18.03")
Height	: 398.0 mm (15.67")

7. WEIGHT (with TILT/SWIVEL)

Net Weight	: 21.2 kg
Gross Weight	: 24.5 kg

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 27kV. The following steps describe how to measure the high voltage and how to prevent X-radiation.

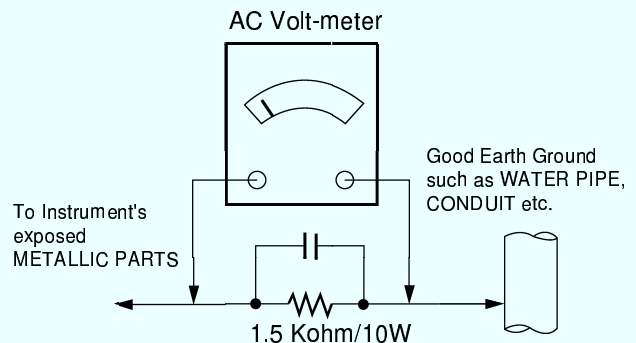
Note : It is important to use an accurate high voltage meter calibrated periodically.

- 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.
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.

CAUTION: Work quickly to avoid overheating the circuitboard printed foil.

- 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.

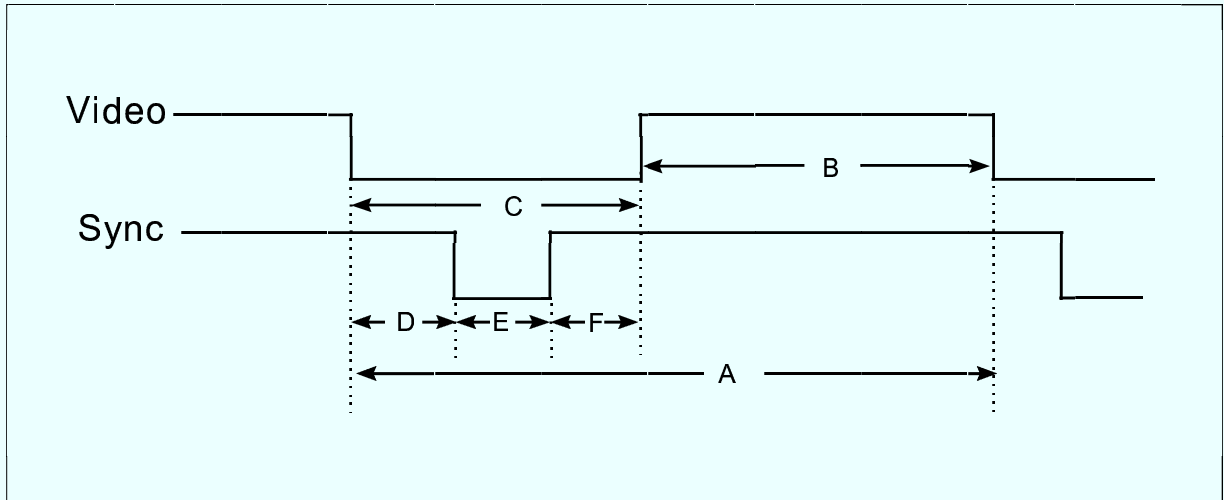
Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.

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

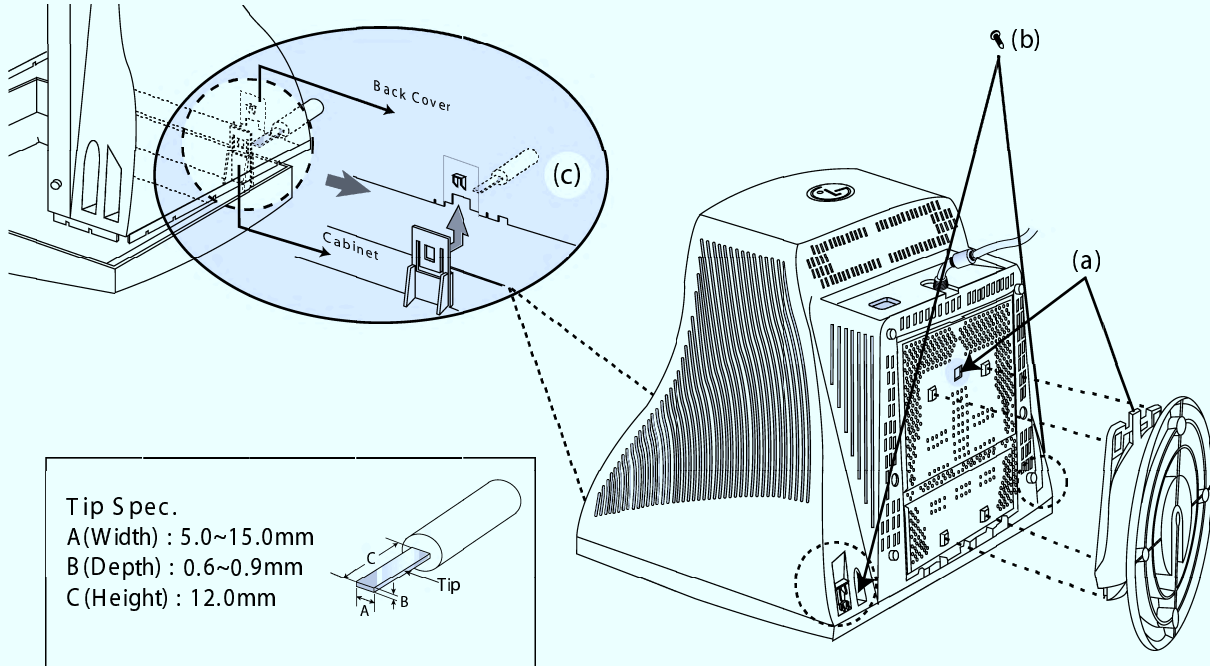


MODE			FACTORY PRESET MODE				
			MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
			VESA				
H O R I Z O N T A L	Sync Polarity		–	+	+	+	+
	Frequency	kHz	43.269	53.674	68.677	91.146	93.750
	Total Period	μs	23.112	18.631	14.561	10.971	10.666
	Video Active Time	μs	17.778	14.222	10.836	8.127	7.901
	Blanking Time	μs	5.334	4.409	3.725	2.844	2.765
	Front Porch	μs	1.556	0.569	0.508	0.406	0.316
	Sync Duration	μs	1.556	1.138	1.016	1.016	0.948
	Back Porch	μs	2.222	2.702	2.201	1.422	1.501
V E R T I C A L	Sync Polarity		–	+	+	+	+
	Frequency	Hz	85.008	85.061	84.997	85.024	75.000
	Total Period	ms	11.763	11.756	11.765	11.762	13.333
	Video Active Time	ms	11.093	11.178	11.183	11.235	12.800
	Blanking Time	ms	0.670	0.578	0.582	0.527	0.533
	Front Porch	ms	0.023	0.019	0.015	0.011	0.011
	Sync Duration	ms	0.069	0.056	0.044	0.033	0.032
	Back Porch	ms	0.578	0.503	0.523	0.483	0.490
Resolution			640 X 480	800 X 600	1024 X 768	1280 X 1024	1600 X 1200
Recall			Yes	Yes	Yes	Yes	Yes

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.



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) Adjust P907 voltage to $50V \pm 0.2V$ with **VR901**.

2. Adjustment for High-Voltage.

- 1) Display cross hatch pattern at Mode 4.
- 2) Adjust CDT Anode voltage to $27kV \pm 0.2kV$ with I-P in Hot key mode.

3. Adjustment for Horizontal Raster Center.

- 1) Display cross hatch pattern at Mode 4.
- 2) Adjust the Back Raster should be center of the screen with SW801.

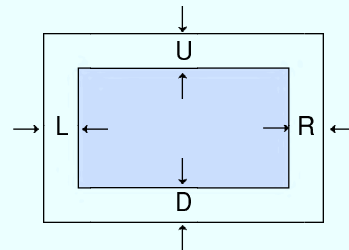
2. Adjustment by Service Hot key

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 ◀+▼ 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 1/2 and OSD will change as shown in the figure.
6. Select Degauss in the above figure and then press Select and ▶ to change the screen as shown in the figure. (Back Raster for Pattern)

FOS SPEC

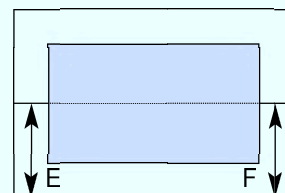
1. Size
H : $350 \pm 4mm$
V : $262 \pm 4mm$
Scanning frequency : All Mode (Mode 1~4)
Display image : Crosshatch pattern
2. Centering
Scanning frequency : All Mode (Mode 1~4)
Display image : Crosshatch pattern
Horizontal : 10 Row
Vertical : 8 Row



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

3. Tilt

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



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

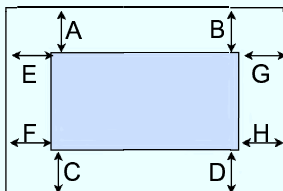
4. Distortion

Scanning frequency : All Mode (Mode 1~4)

Display image : Crosshatch pattern

Horizontal : 10 Row

Vertical : 8 Row



$$\begin{array}{|l|l|} \hline |A-B| & \leq 2.5\text{mm}, \\ \hline |E-F| & \leq 2.0\text{mm}, \\ \hline |C-D| & \leq 2.5\text{mm} \\ \hline |G-H| & \leq 2.0\text{mm} \\ \hline \end{array}$$

5. Displa Size drift

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

6. Linearity

				Y1
				Y2
				Y3
				Y4
X1	X2	X3	X4	

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

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

14% Max. (Less 40kHz)

91KHZ*85=8%

V - 8% Max.

7. Regulation

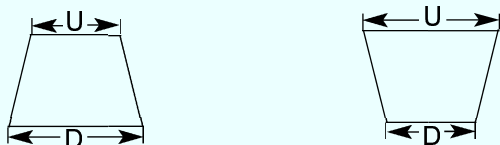
1mm/side(upper 54KHZ 800*600)

other model $\leq 2\text{mm/side}$

Scanning frequency : All Mode (Mode 1~4)

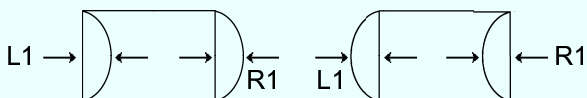
8. Trapezoid

$$|U-D| < 4\text{mm}$$

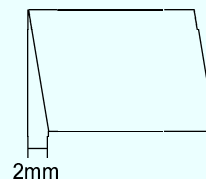


9. Pin Balance

$$|L1|, |R1| \leq 2.0\text{mm}$$



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: 91 kHz / 85 Hz

Display image: Back raster (Color 0,0)

Contrast: Maximum

Brightness: Maximum

Color temperature: 9300K

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

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

=> Enter hot key mode.

Adjust Brightness and Contrast to Max in OSD window.

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

Modify RCUT to Min (0) ,

Modify GCUT To Min (0) ,

Adjust to BCUT Data = 127 (7F) ,

Adjust to SBRT Data = 205 (CD).

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

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

x: 0.283 ± 0.006

y: 0.298 ± 0.006

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 to BDRV Data = 92(5C).

Adjust RDRV and GDRV to set chromaticity diagram at :

x: 0.283 ± 0.003

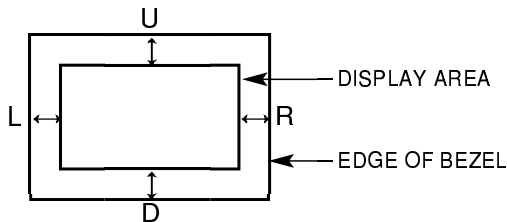
y: 0.298 ± 0.003

Approve "Window pattern (70x70mm)" to adjust S-CON to Y : $45 \pm 1\text{FL}$.

Approve "Color (15.0) Full white pattern" again and adjust ABL Data to Y : $30 \pm 1\text{FL}$

Adjust the horizontal position and vertical position to ≤ 4.0 mm of the center point of the screen.

$$|L-R| \leq 4.0 \text{ mm. } |U-D| \leq 4.0 \text{ mm.}$$



* SIZE adjustment should be made in ALL Mode.

12. Focus Adjustment

CONDITIONS

Scanning frequency : 91KHz/85KHz

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.

14. 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: 1280 x 1024@85Hz(91kHz/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 T930BM/T930BAKM 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 $350 \pm 2\text{mm}$.
- 8) Adjust V-POSITION as arrow keys to center of the screen.
- 9) Adjust V-SIZE as arrow keys to $262 \pm 2\text{mm}$.
- 10) Adjust TRAPEZOID as arrow keys to be the best condition.
- 11) Adjust SIDE PINCUSHION 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 Brightness 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)position, B-Bias to 127(7F)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 92(5C) 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 $45 \pm 1\text{FL}$ 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 $30 \pm 1\text{FL}$ of the luminance.
- 19) Exit from the program.

- Adjustment and EDID Data Down in GCSC

Windows EDID V1.0 User Manual

Operating System: MS Windows 98, 2000, XP

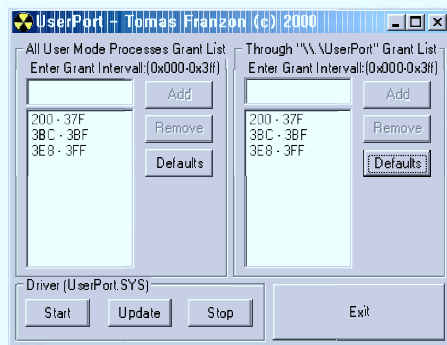
Port Setup: Windows 98 => Don't need setup

Windows 2000, XP => Need to Port Setup.

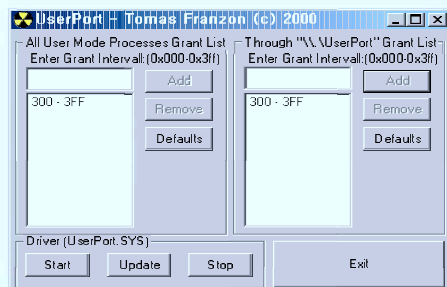
This program is available to LCD Monitor only.

1. Port Setup

- Copy "UserPort.sys" file to
"c:\WINNT\system32\drivers" folder
- Run Userport.exe



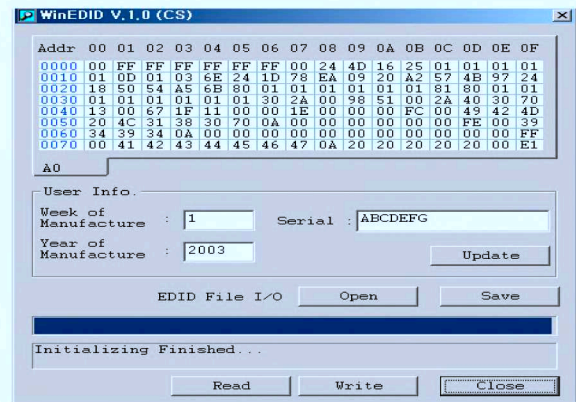
- Remove all default number
- Add 300-3FF



- Click Start button.
- Click Exit button.

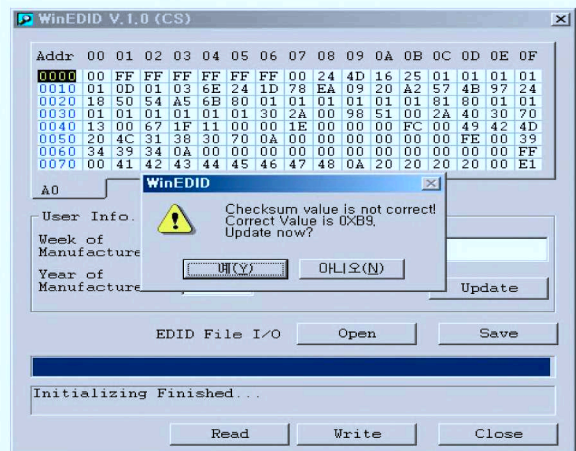
2. EDID Read & Write

1) Run WinEDID.exe



2) Edit Week of Manufacture, Year of Manufacture, Serial Number

- Input User Info Data
- Click "Update" button
- Click " Write" button



EDID DATA EDIT

No	Item	Content	Hexadecimal
1	Manufacturer ID	GSM	1E6D
2	Product ID	19127	4AB7
3	Year	2005	0F
4	Version	1	01
5	Revision	3	03

T930BM

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	00	FF	FF	FF	FF	FF	FF	00	1E	6D	# B7	# 4A	* 01	* 00	* 00	* 00
1	** 01	*** 0F	01	03	78	24	1B	B0	E8	05	79	A0	56	4A	99	26
2	12	48	4C	FF	FF	80	31	59	45	59	61	59	81	80	A9	40
3	E1	40	A9	4A	A9	4F	86	3D	00	C0	51	00	30	40	40	A0
4	13	00	5E	06	11	00	00	1E	00	00	00	FD	00	32	A0	1E
5	62	1B	00	0A	20	20	20	20	20	20	00	00	00	FC	00	54
6	39	33	30	42	0A	20	20	20	20	20	20	20	00	00	00	FC
7	00	0A	20	20	20	20	20	20	20	20	20	20	20	20	00	%

T930BAKM

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	00	FF	FF	FF	FF	FF	FF	00	1E	6D	# B7	# 4A	* 01	* 00	* 00	* 00
1	** 02	*** 0F	01	03	78	24	1B	B0	E8	05	79	A0	56	4A	99	26
2	12	48	4C	FF	FF	80	31	59	45	59	61	59	81	80	A9	40
3	E1	40	A9	4A	A9	4F	86	3D	00	C0	51	00	30	40	40	A0
4	13	00	5E	06	11	00	00	1E	00	00	00	FD	00	32	A0	1E
5	62	1B	00	0A	20	20	20	20	20	20	00	00	00	FC	00	54
6	39	33	30	42	0A	20	20	20	20	20	20	20	00	00	00	FC
7	00	0A	20	20	20	20	20	20	20	20	20	20	20	20	00	****

EDID Data Edit Using Service software Program

1 Read and Modify EDID Data

- 1) Connector the monitor and adjust device as Figure 1
- 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.

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.

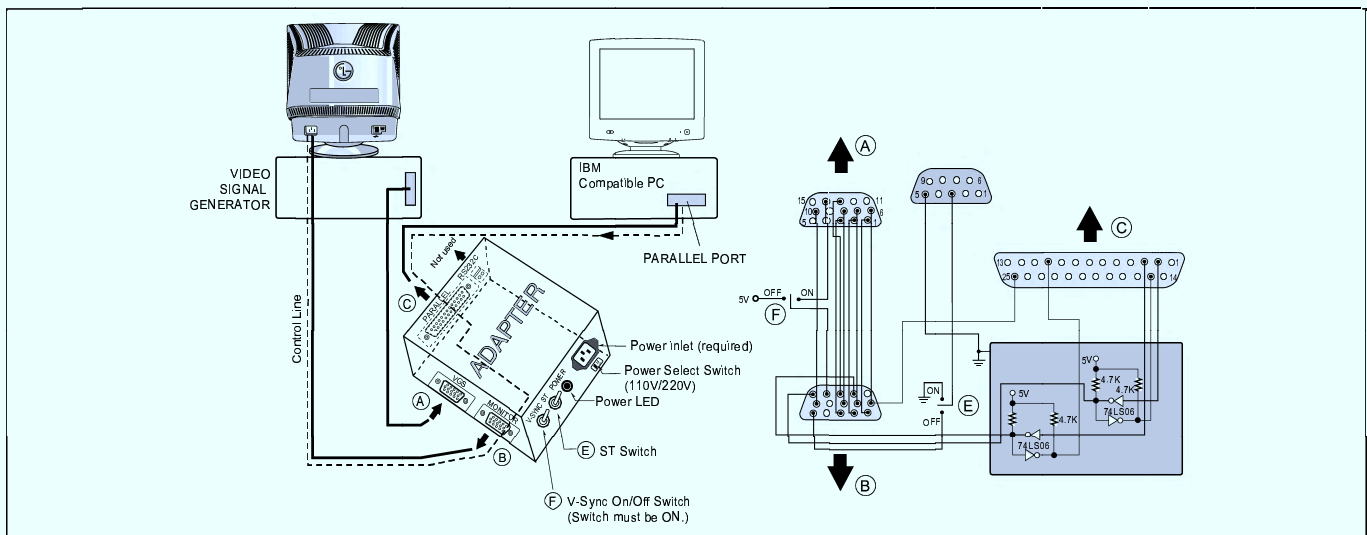
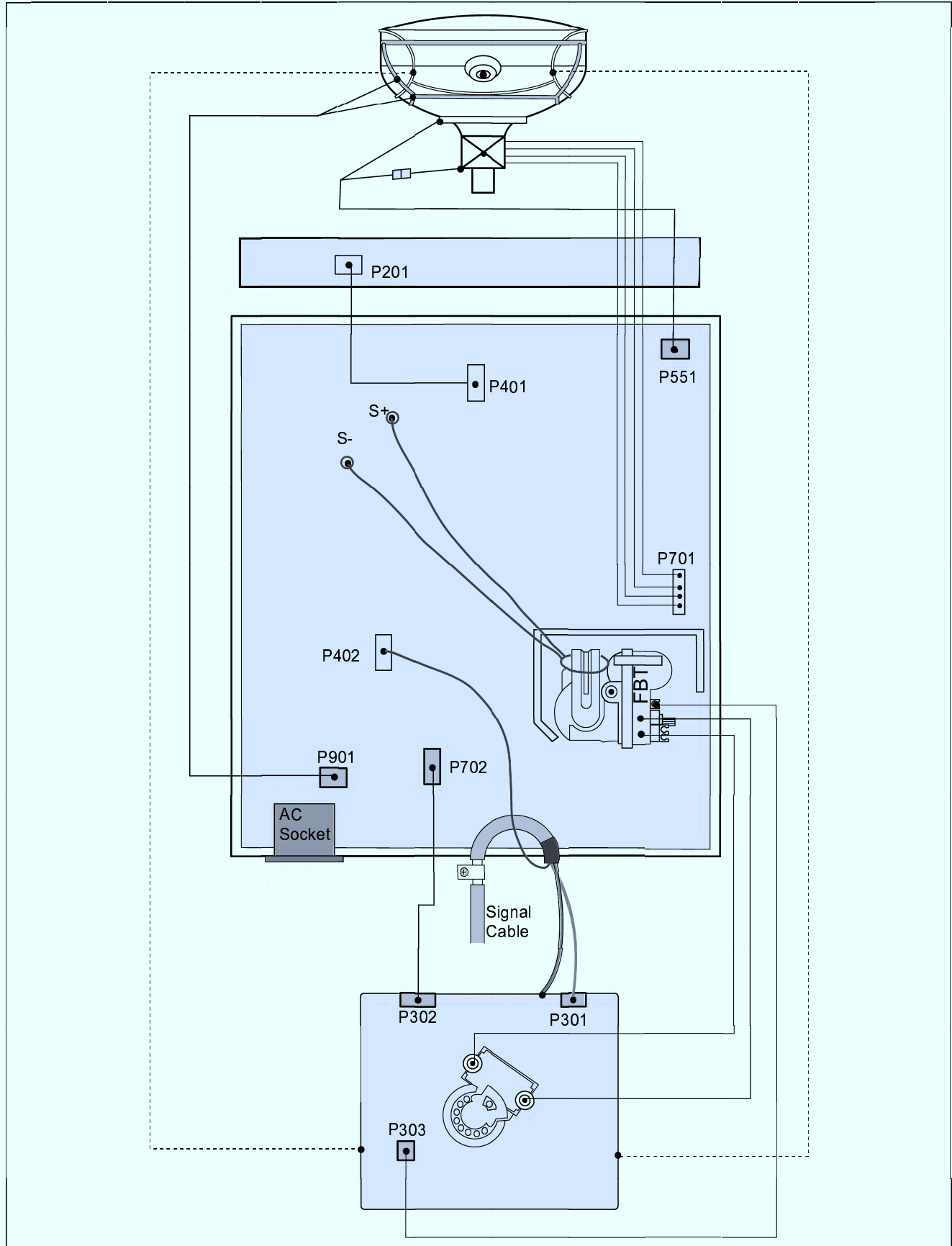
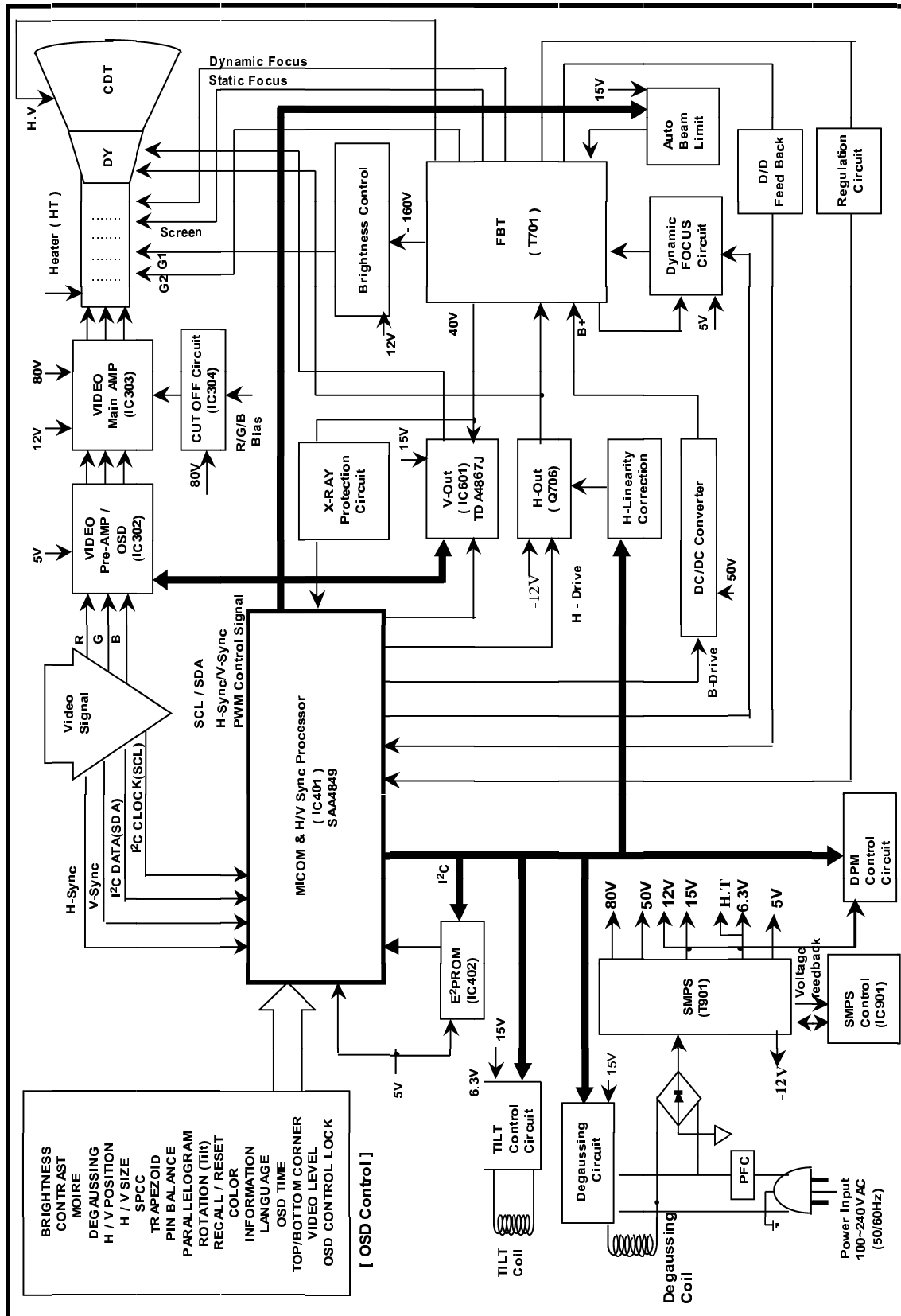


Figure 1. Cable Connection

WIRING DIAGRAM



BLOCK DIAGRAM



DESCRIPTION OF BLOCK DIAGRAM

1. SMPS(Switching Mode Power Supply)

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

- 1) The AC line voltage is rectified by the bridge diode D901.
- 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(D924, D923,D922,D921,D920)
- 4) Each rectified DC voltage(80V, 50V, 15V,12V, 6.3V 5V and -12V)

2. Over Voltage Protection Circuit

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

3. Display Power Management Circuit(DPM)

1) STAND-BY & SUSPEND Mode

When no input of horizontal or vertical sync Q951, Q941 are turned off and Q912,Q914 are turned off. Then input power consumption is below 8 watts.

2) OFF Mode

When no input of horizontal and vertical sync Q951, Q941 are turned off and Q912, Q914 are turned off. Then input power consumption is below 3 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.

5) The horizontal and vertical sync processor IC (IC401) has a sync detector, a saw-tooth generator, and drive function, And outputs horizontal and vertical drive signal to control screen distortions

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 30kV in an abnormal case, the high voltage detector circuit, R818,D721,C739, R416, R417,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. Degauss Circuit & Coil.

The degauss circuit consists of the degaussing coil, the PTC (Positive Temperature Coefficient) thermistor (TH901), and the relay (RL901). This circuit eliminates abnormal color of the screen automatically by degaussing the slot mask in the CDT when turn on the power switch.

When you need to degauss while using the monitor, select DEGAUSS on the OSD menu.

15. 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

16. 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)

17. Video Output Amp Circuit.

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

18. Moire Reduction Circuit

This circuit reduce interference between the periodical display pattern and the CDT's slot (or dot).

The positions of every other one dot video signal beams (red, green, and blue beam) are shifted finely, thus reducing interference.

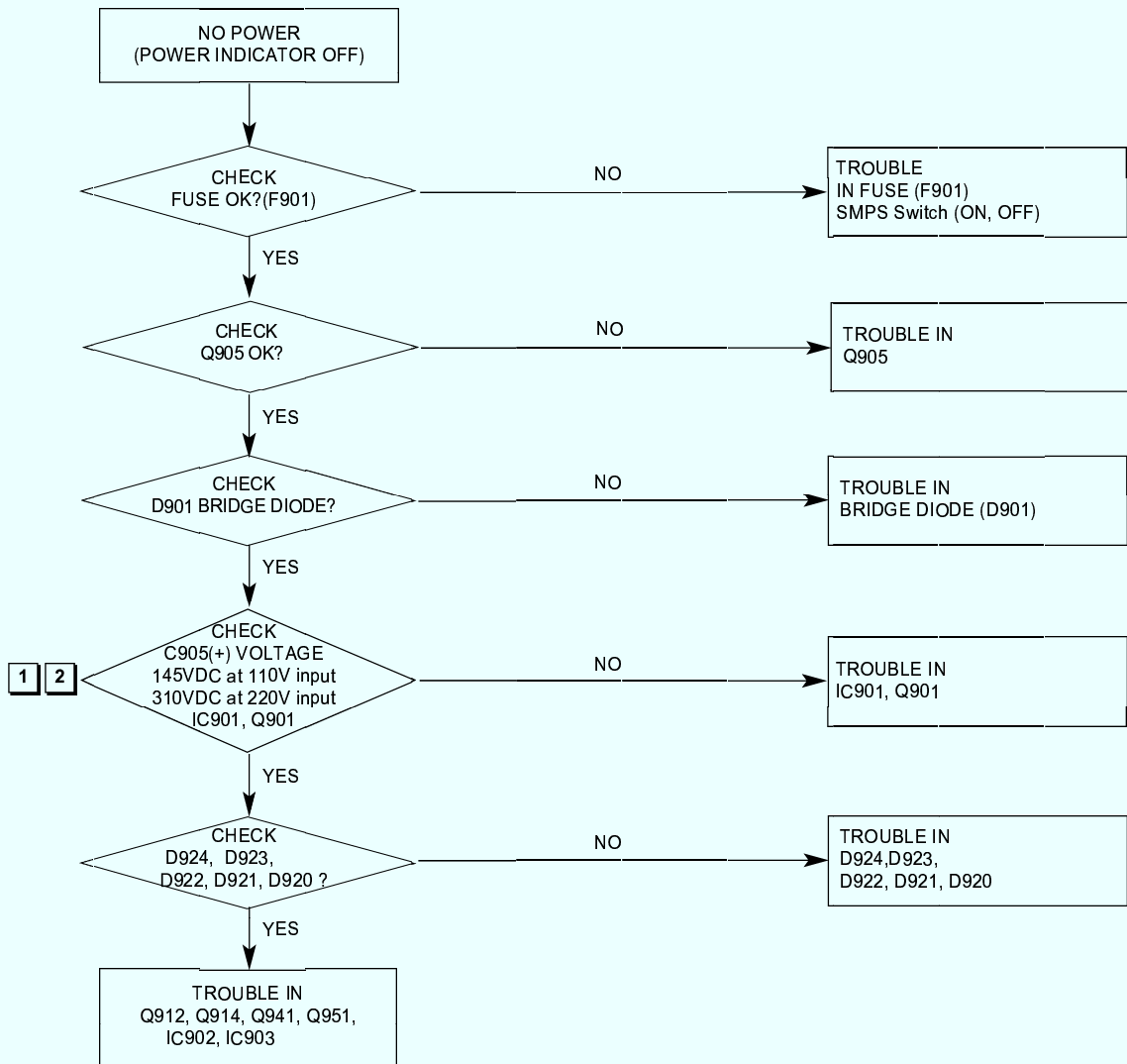
19. High Voltage Output & FBT (Flyback Transformer).

The high voltage output circuit is used for generating pulse wave to the primary coil of the FBT (Flyback Transformer (T701)). A boosted voltage (about 27kV) appears at the secondary of the FBT and it is supplied to the anode of the CDT.

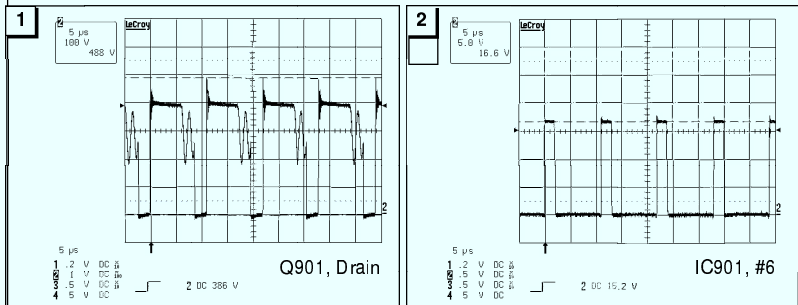
And there are another output voltages such as the dynamic focus voltage.

TROUBLESHOOTING GUIDE

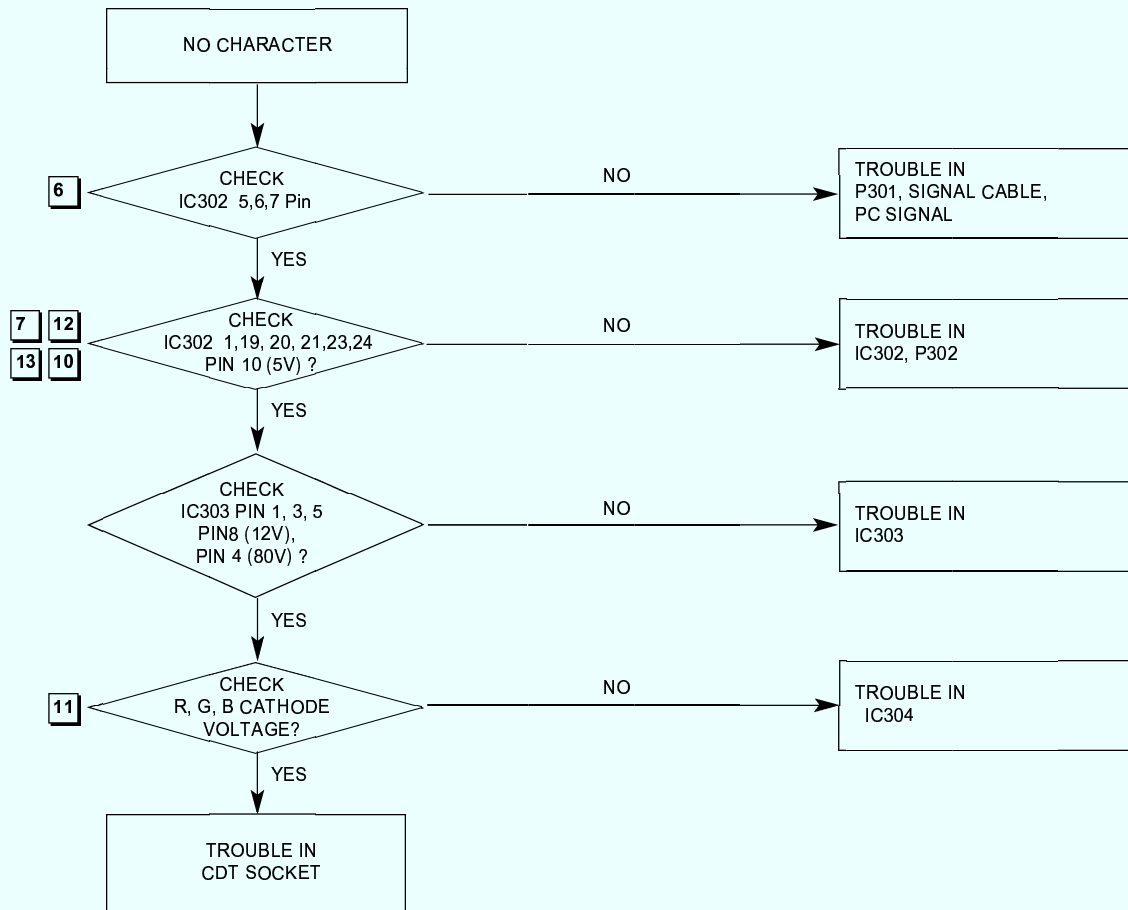
1. NO POWER



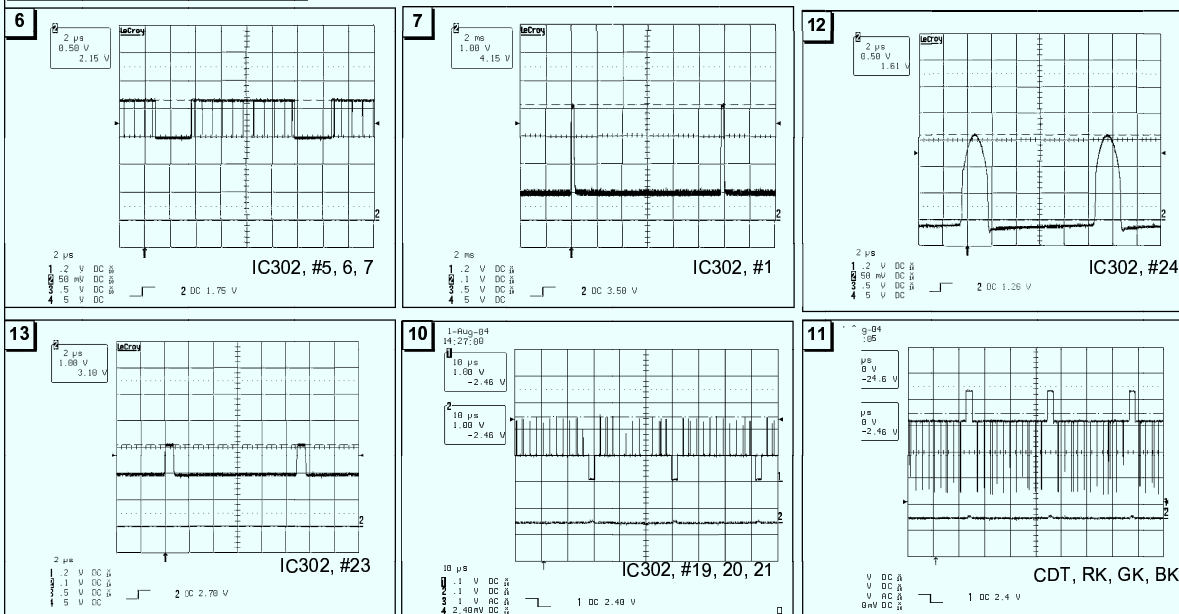
Waveforms



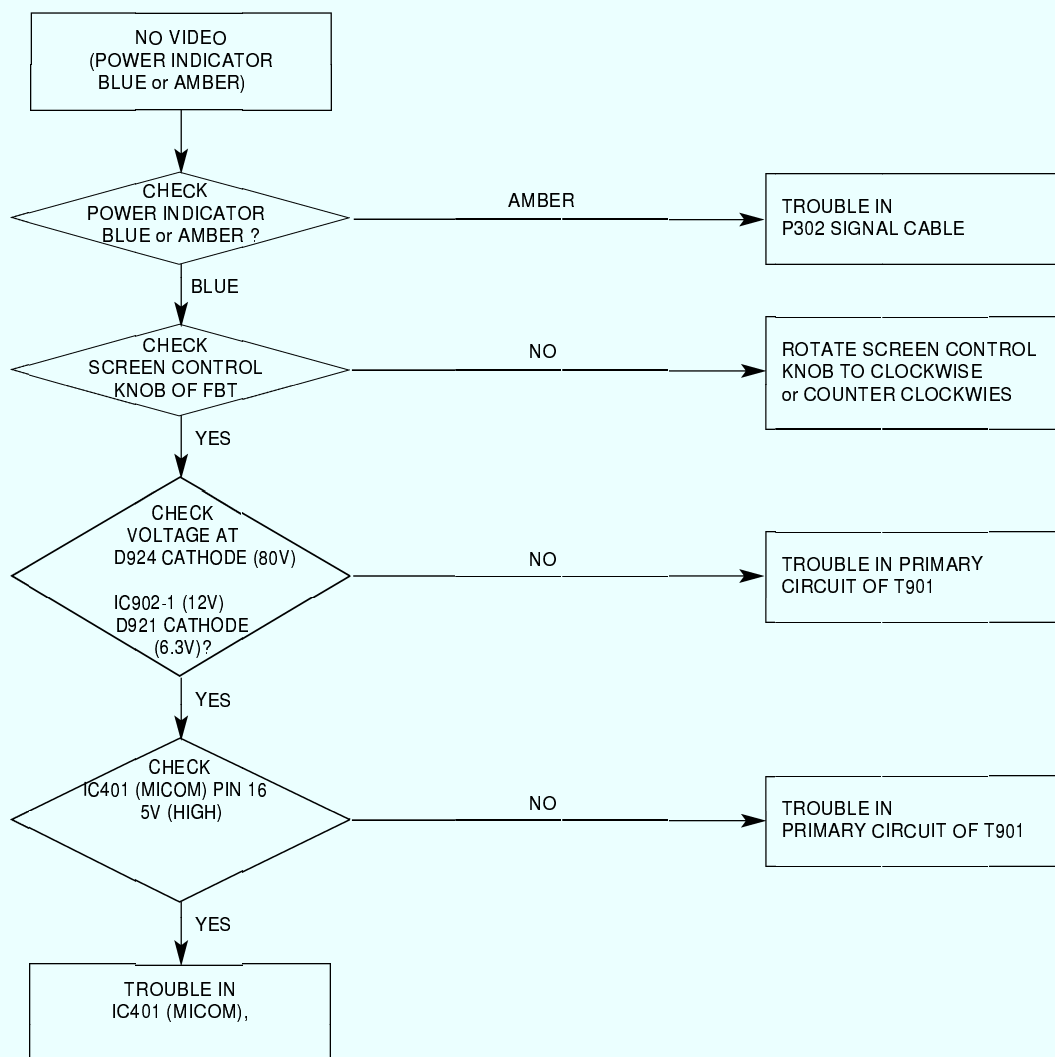
2. NO CHARACTER



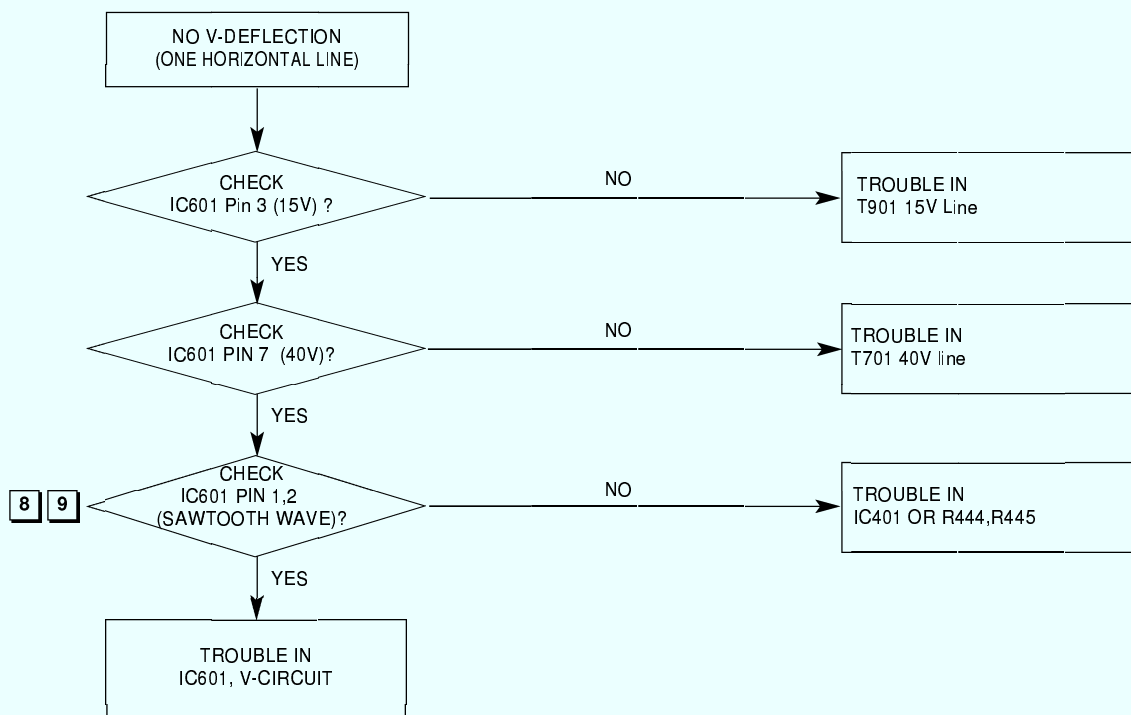
Waveforms



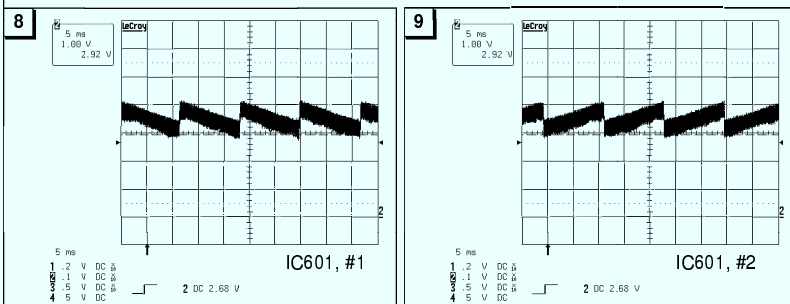
3. NO RASTER



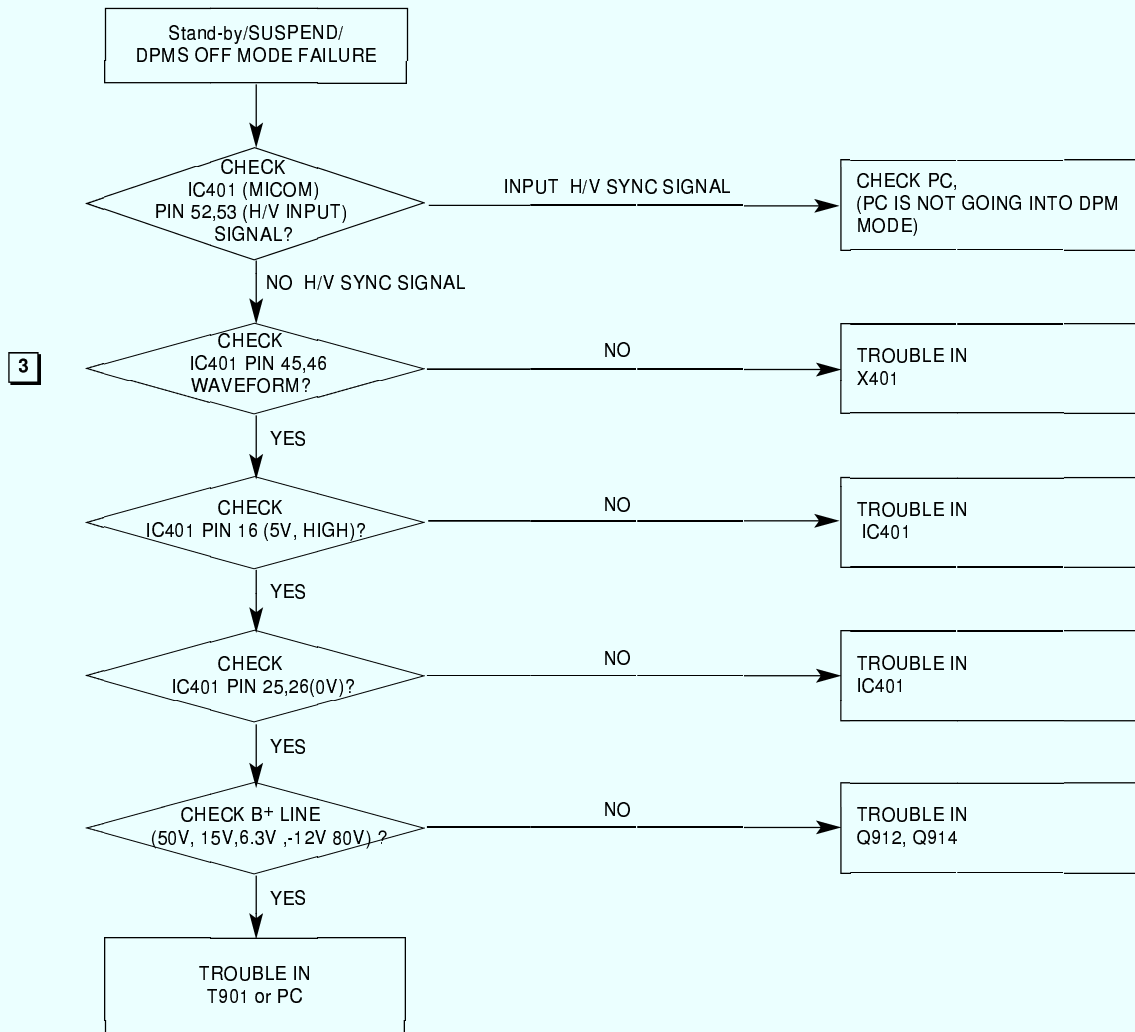
4. NO VERTICAL DEFLECTION



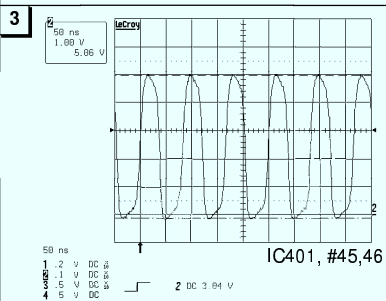
Waveforms



5. TROUBLE IN DPM



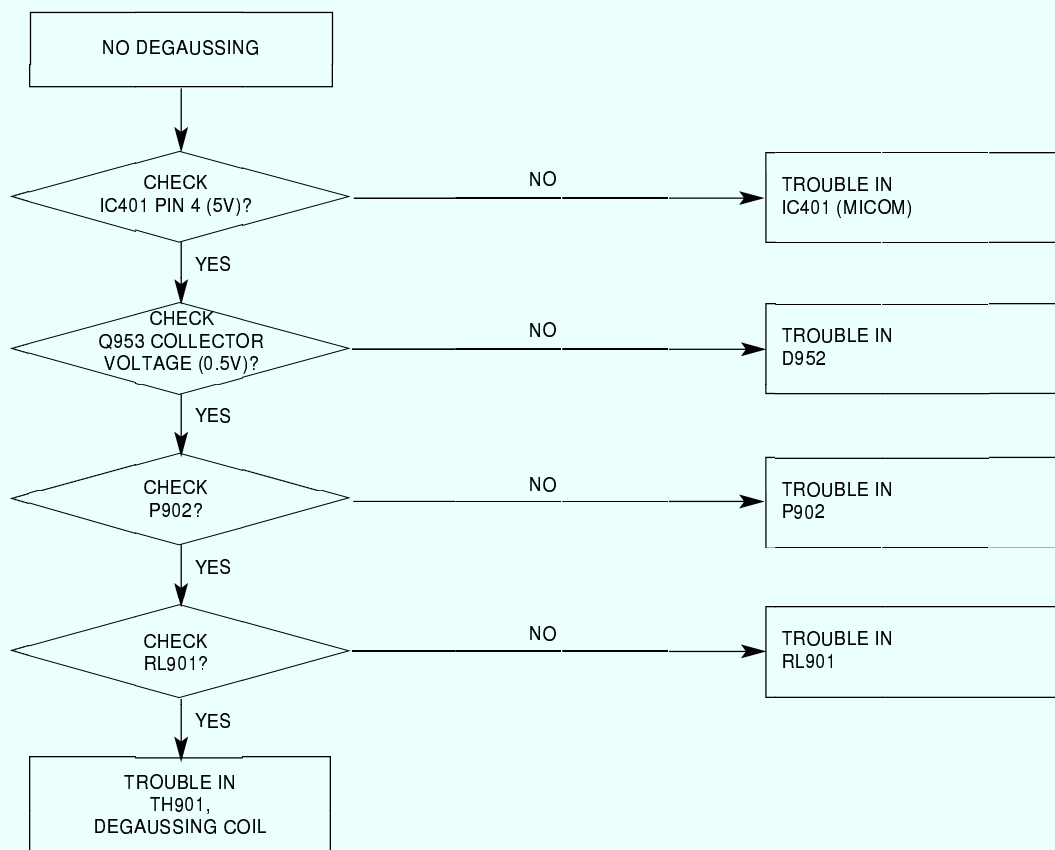
Waveforms



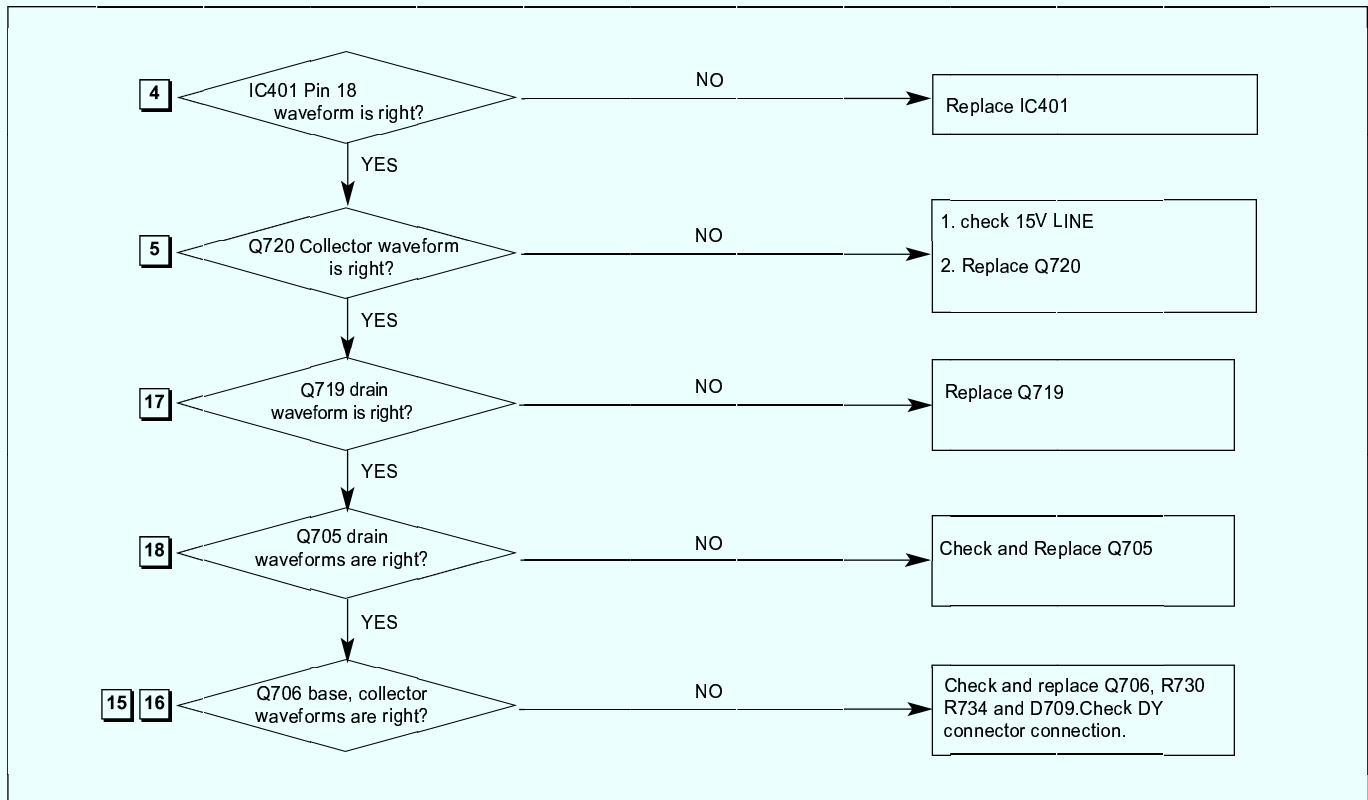
DPMS TABLE

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

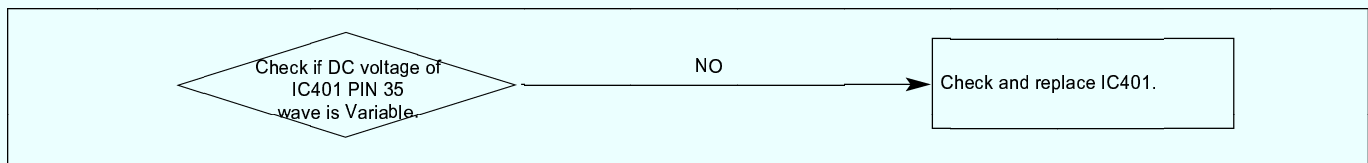
6. NO DEGAUSSING



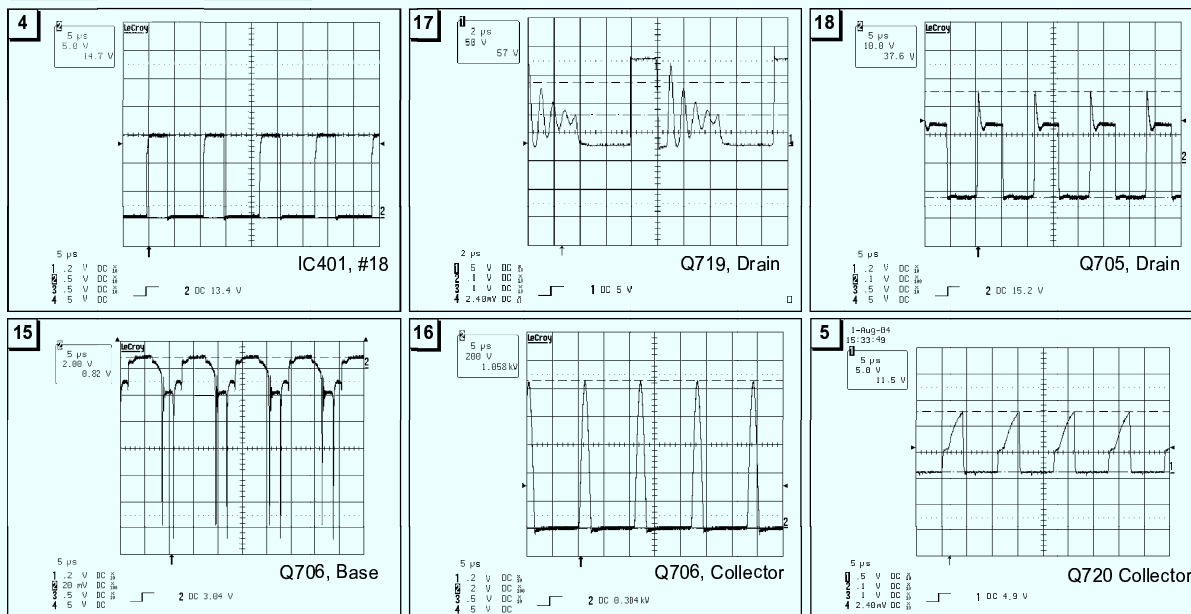
7. H_Deflection Failure



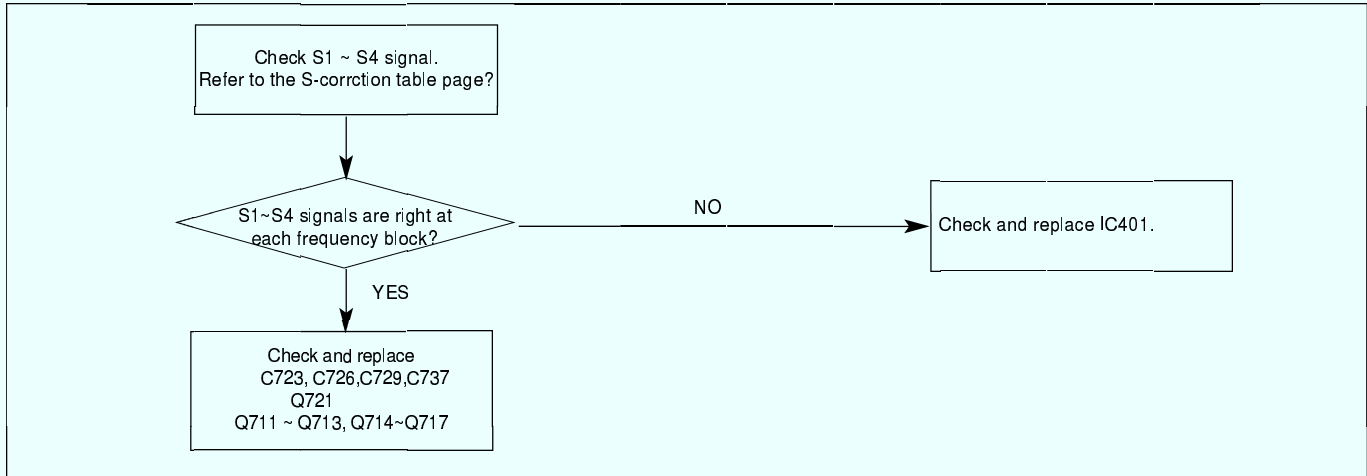
8. Invariable H_Size



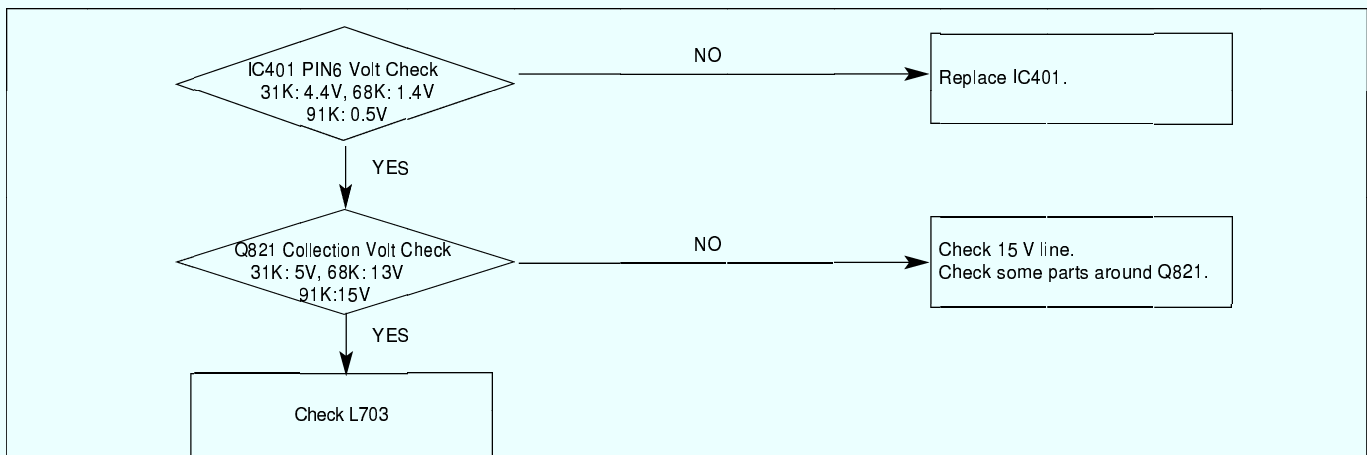
Waveforms



9. S Correction Failure



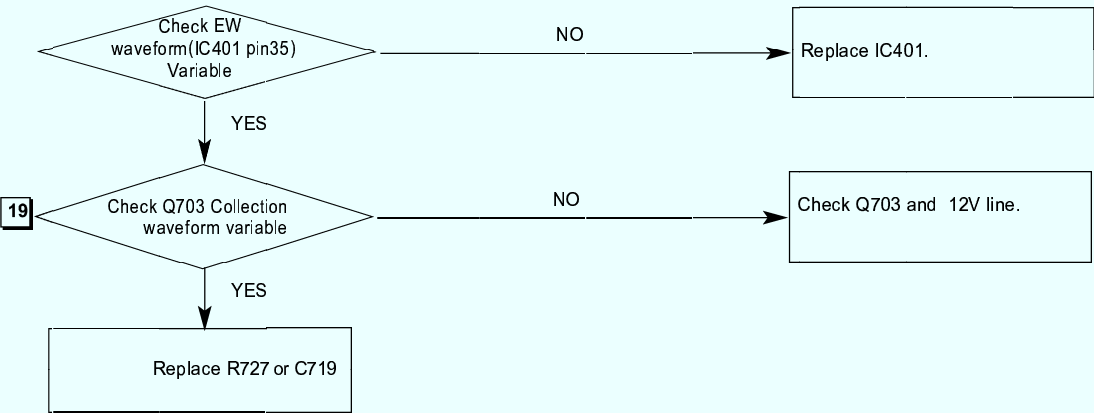
10. H_Lin. Failure



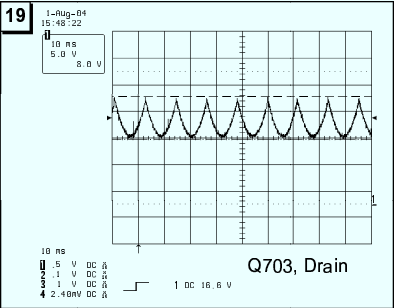
Cs SIGNAL TABLE

HORIZONTAL FREQUENCY(fH)	CS1	CS2	CS3	CS4
29=<Hf<34kHz	L	L	L	L
34=<Hf<39kHz	L	H	H	L
39=<Hf<44kHz	H	L	L	L
44=<Hf<49kHz	H	L	L	L
49=<Hf<52kHz	H	L	H	L
52=<Hf<58kHz	H	L	H	L
58=<Hf<62kHz	H	L	H	H
62=<Hf<66kHz	H	L	H	H
66=<Hf<71kHz	H	H	H	L
71=<Hf<76kHz	H	H	H	L
76=<Hf<81kHz	H	H	H	L
81=<Hf<84kHz	H	H	H	H
84=<Hf<89kHz	H	H	H	H
89=<Hf<95kHz	H	H	H	H
95=<Hf<120kHz	H	H	H	H

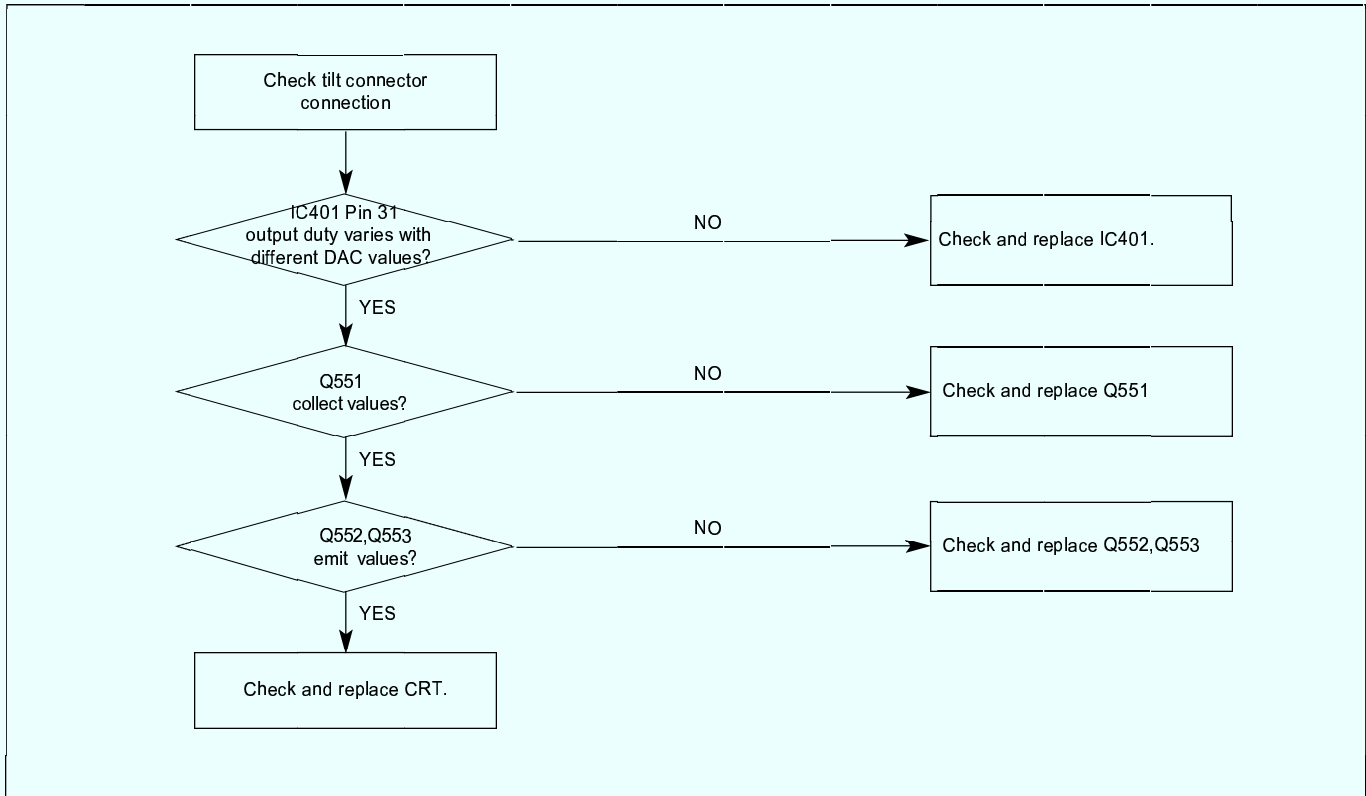
11. Side Pin or Trap Para.Pin Banlance Failure



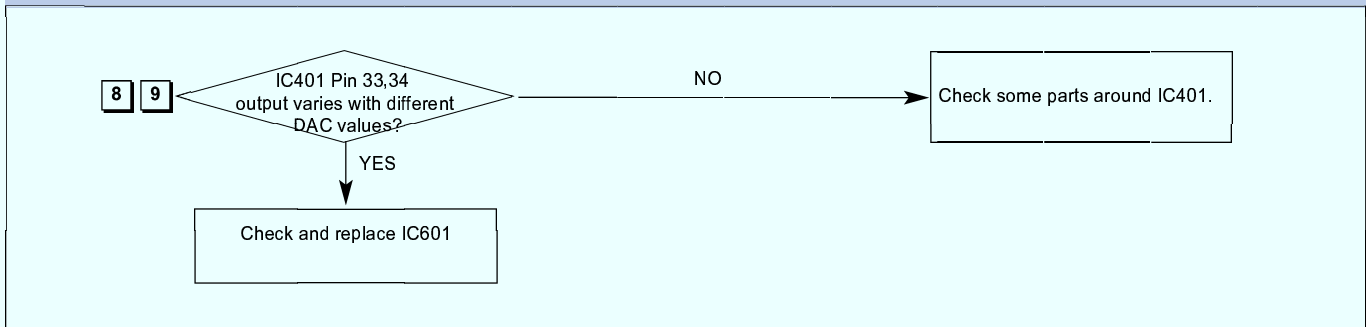
Waveforms



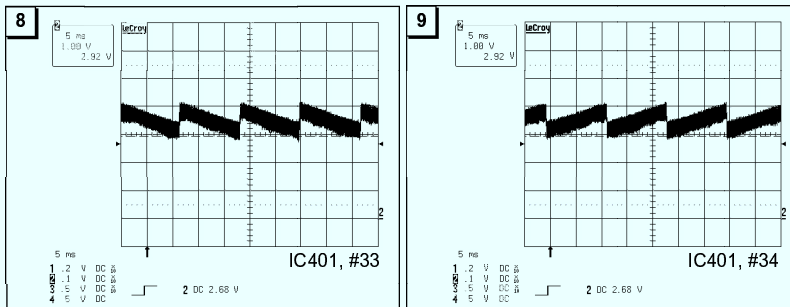
12. Tilt Failure



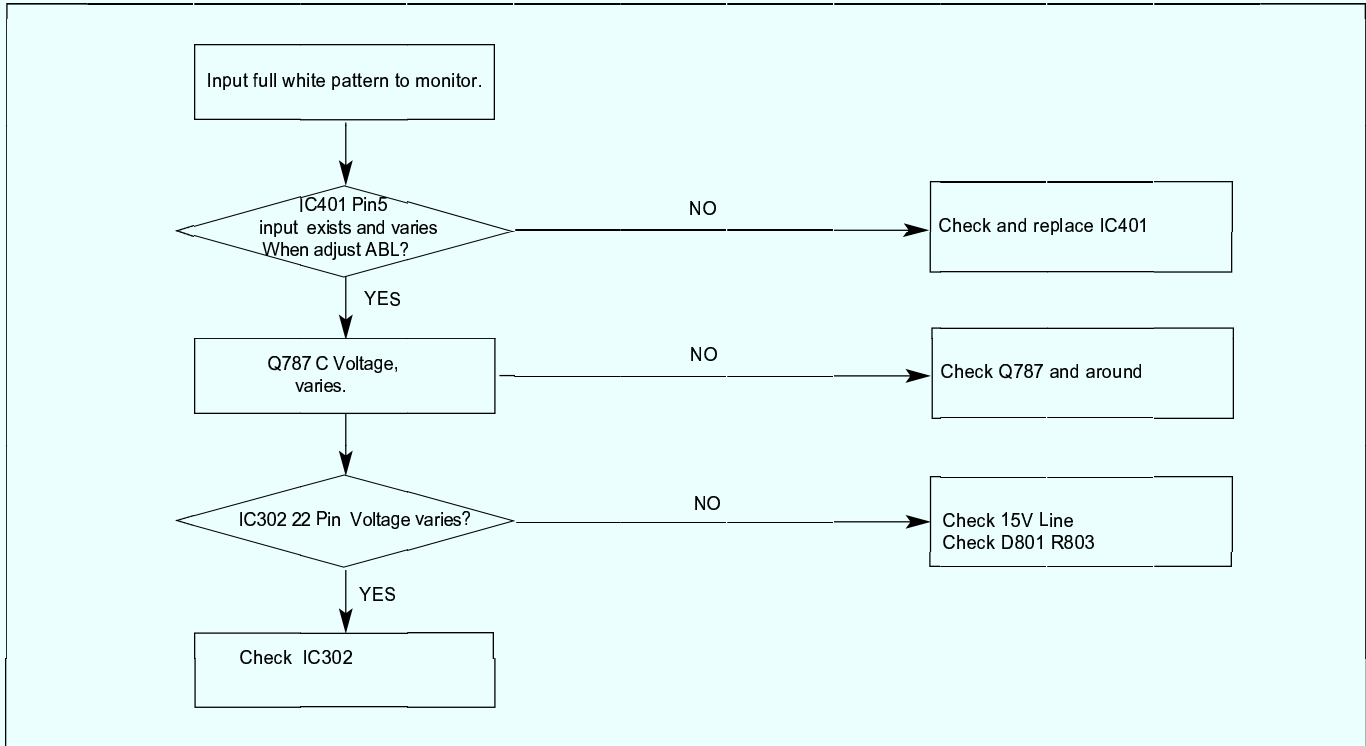
13. V Size or Pos. Variation Failure



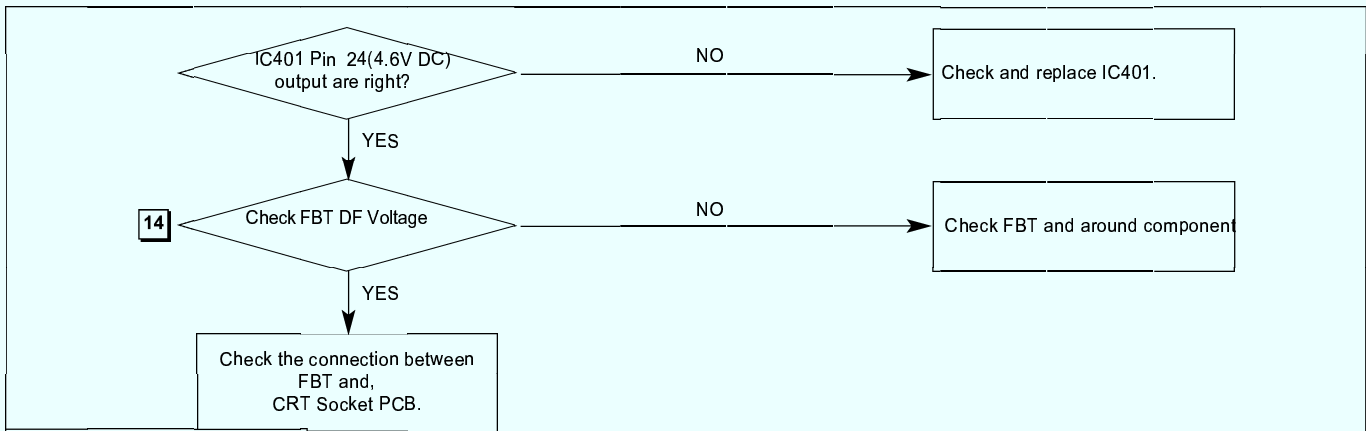
Waveforms



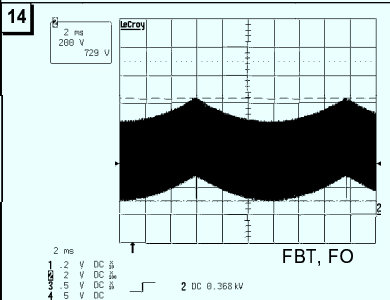
14. ABL Failure



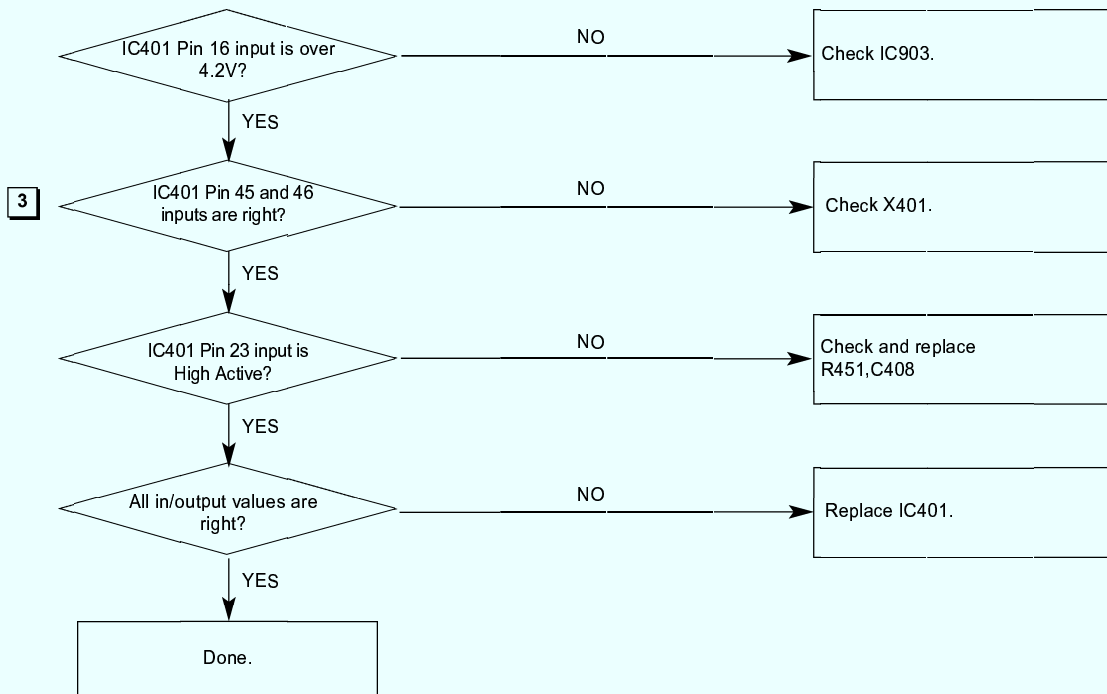
15. Focus Failure



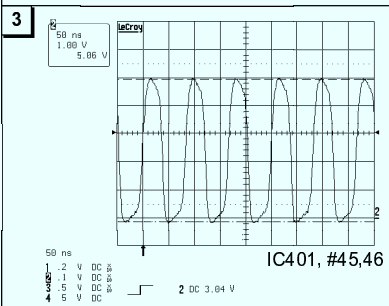
Waveforms



16. Micom Failure



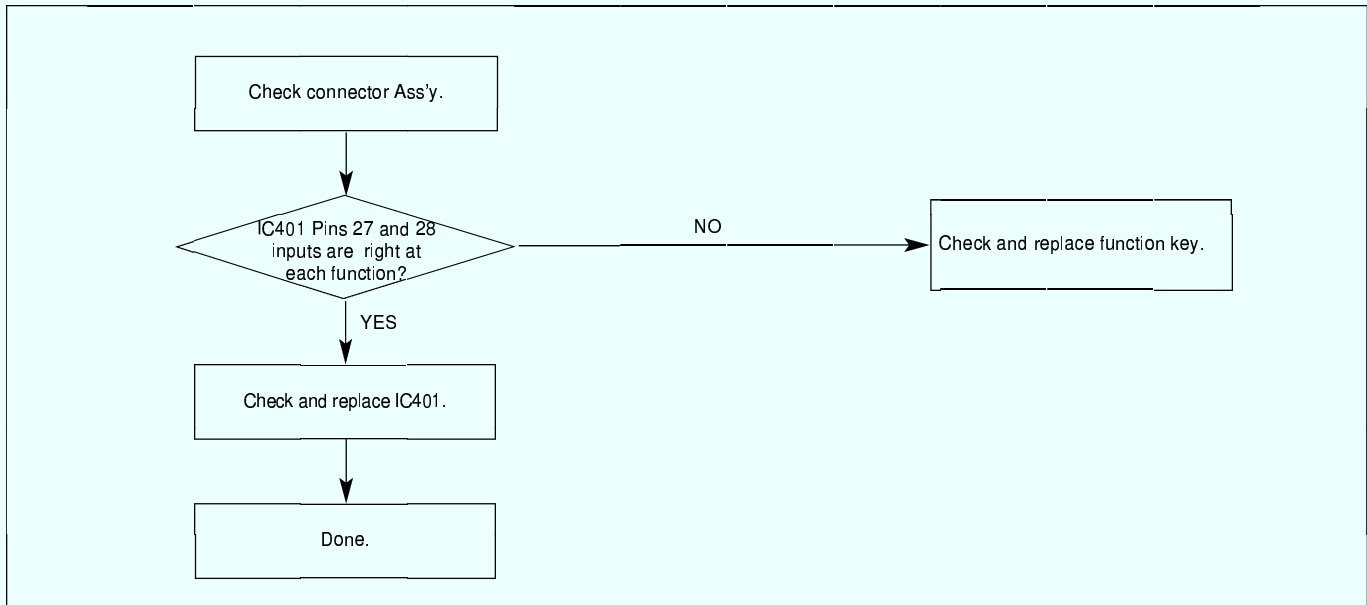
Waveforms



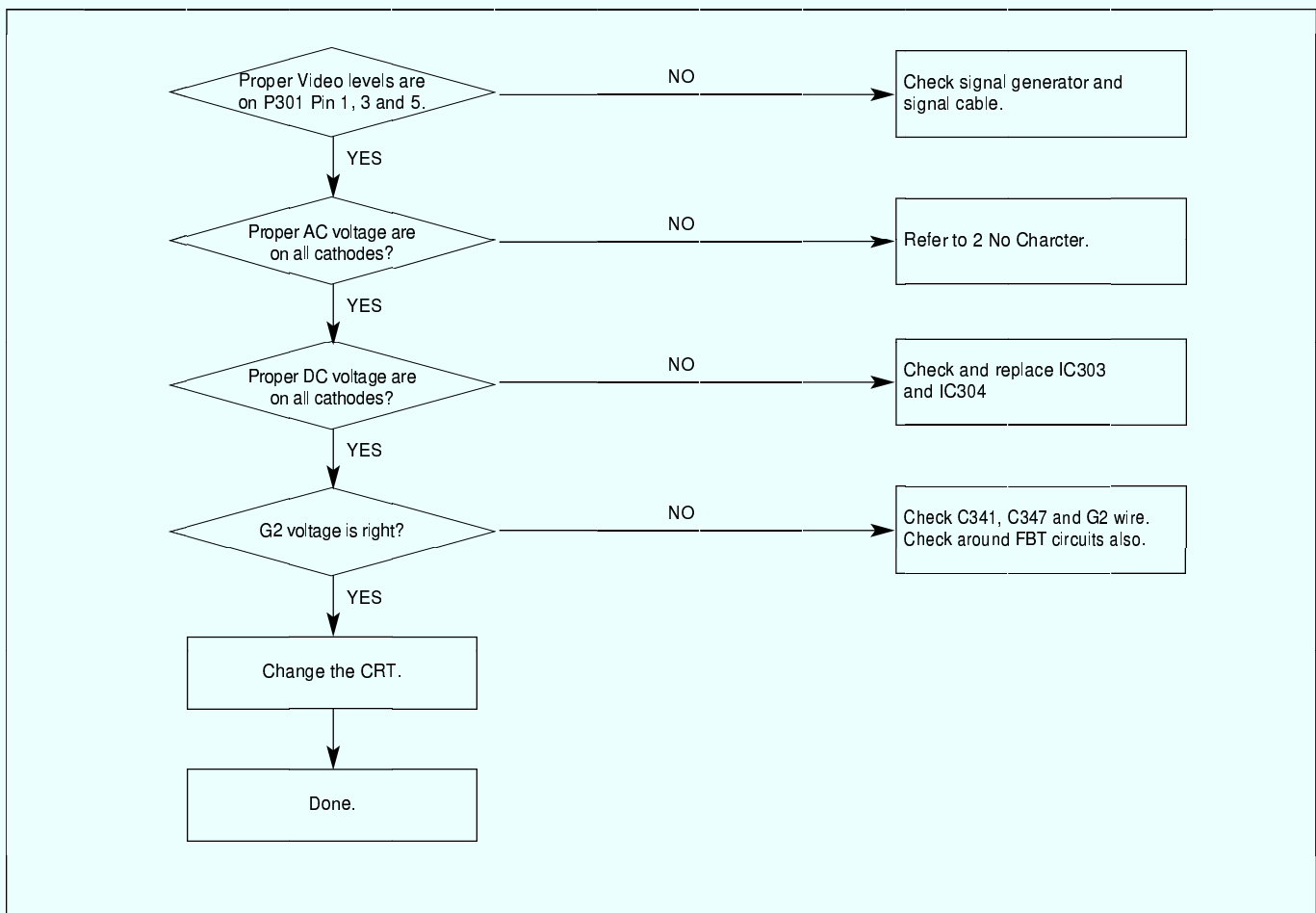
17. OSD Failure

Change IC302

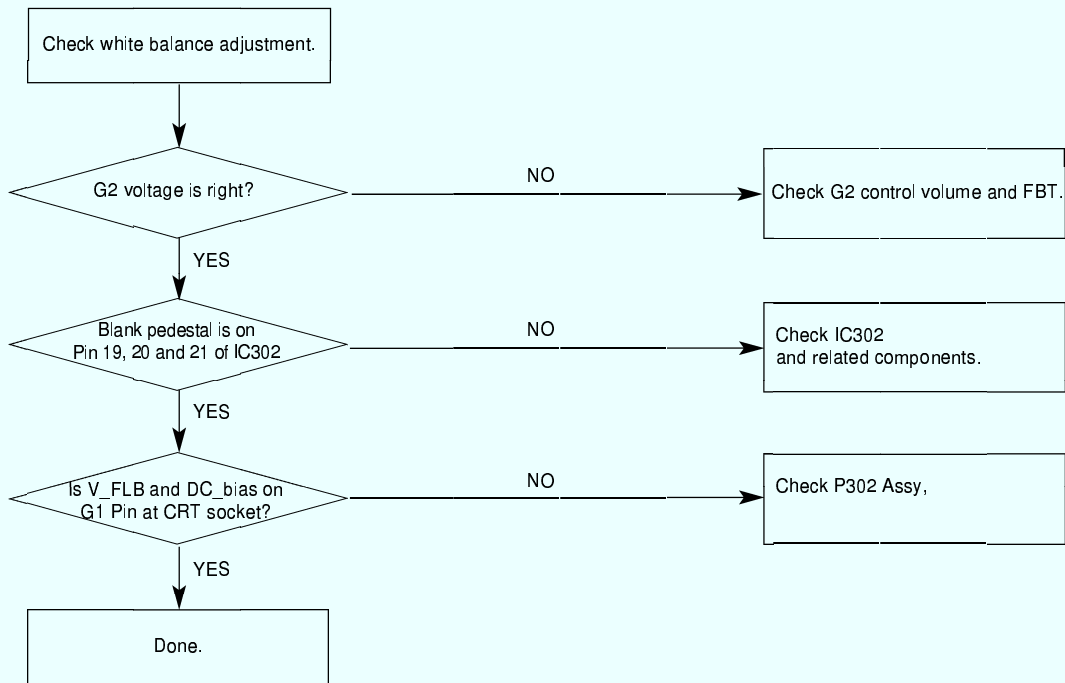
18. User Control Failure



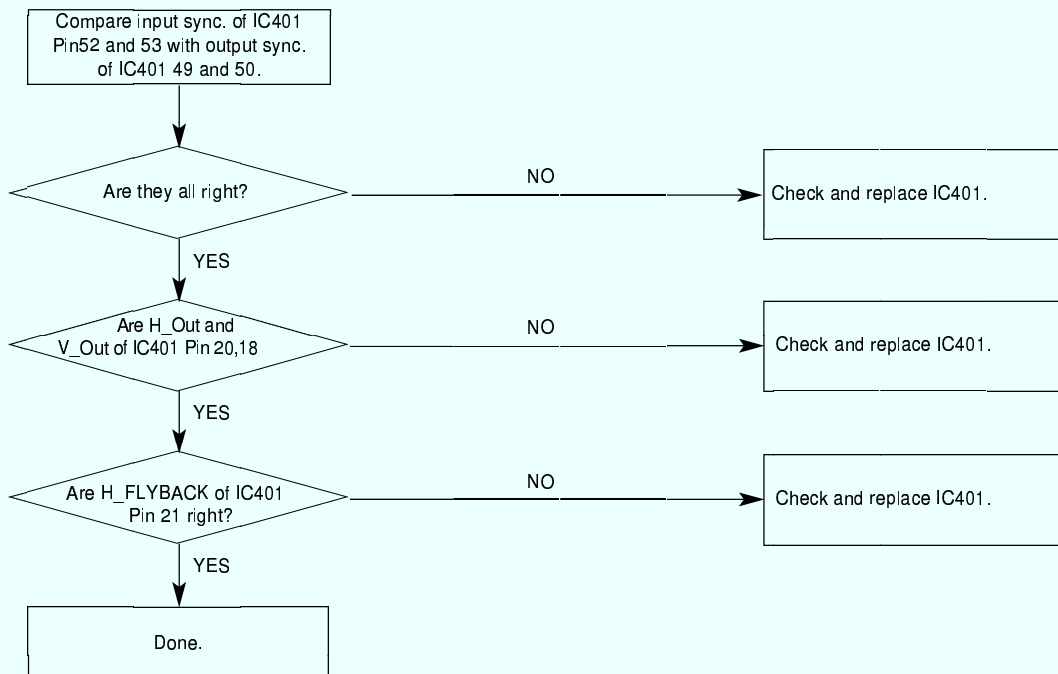
19. Missing Color



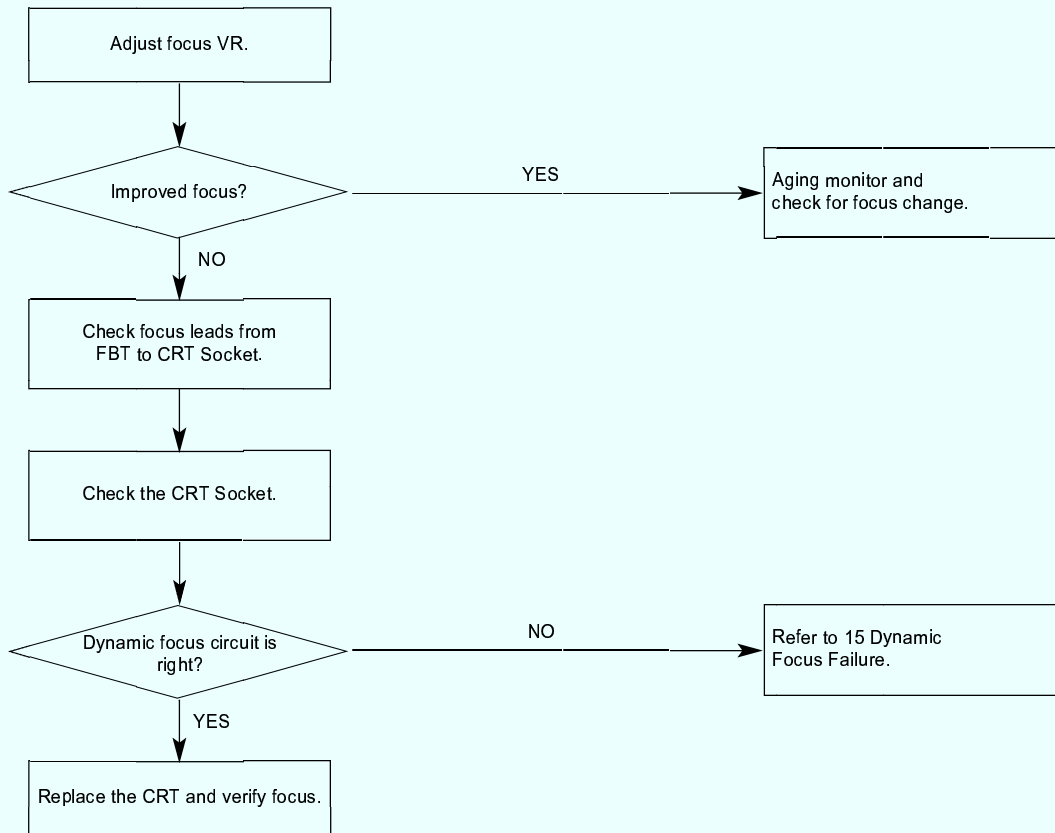
20. Visible Retrace



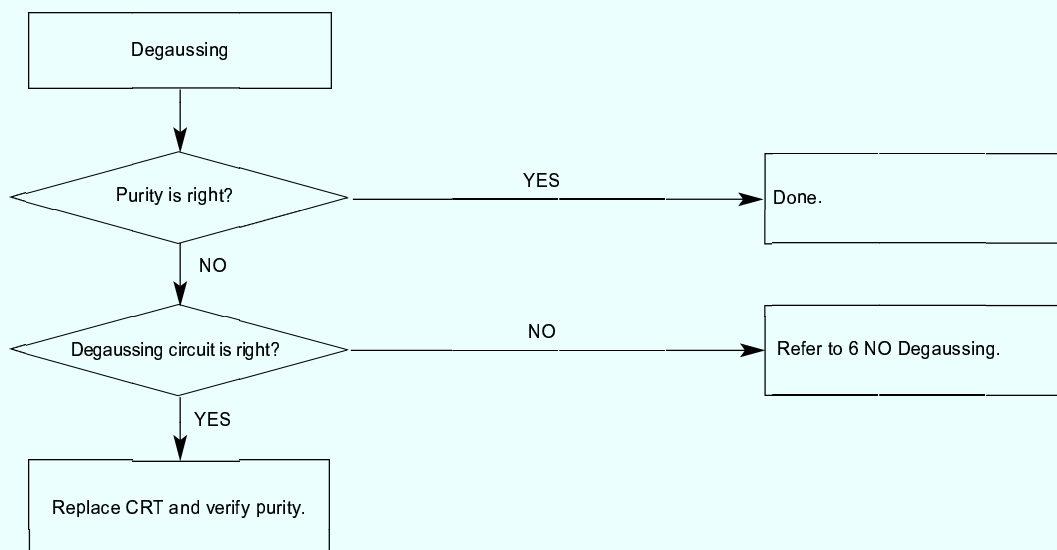
21. Unsynchronized Image



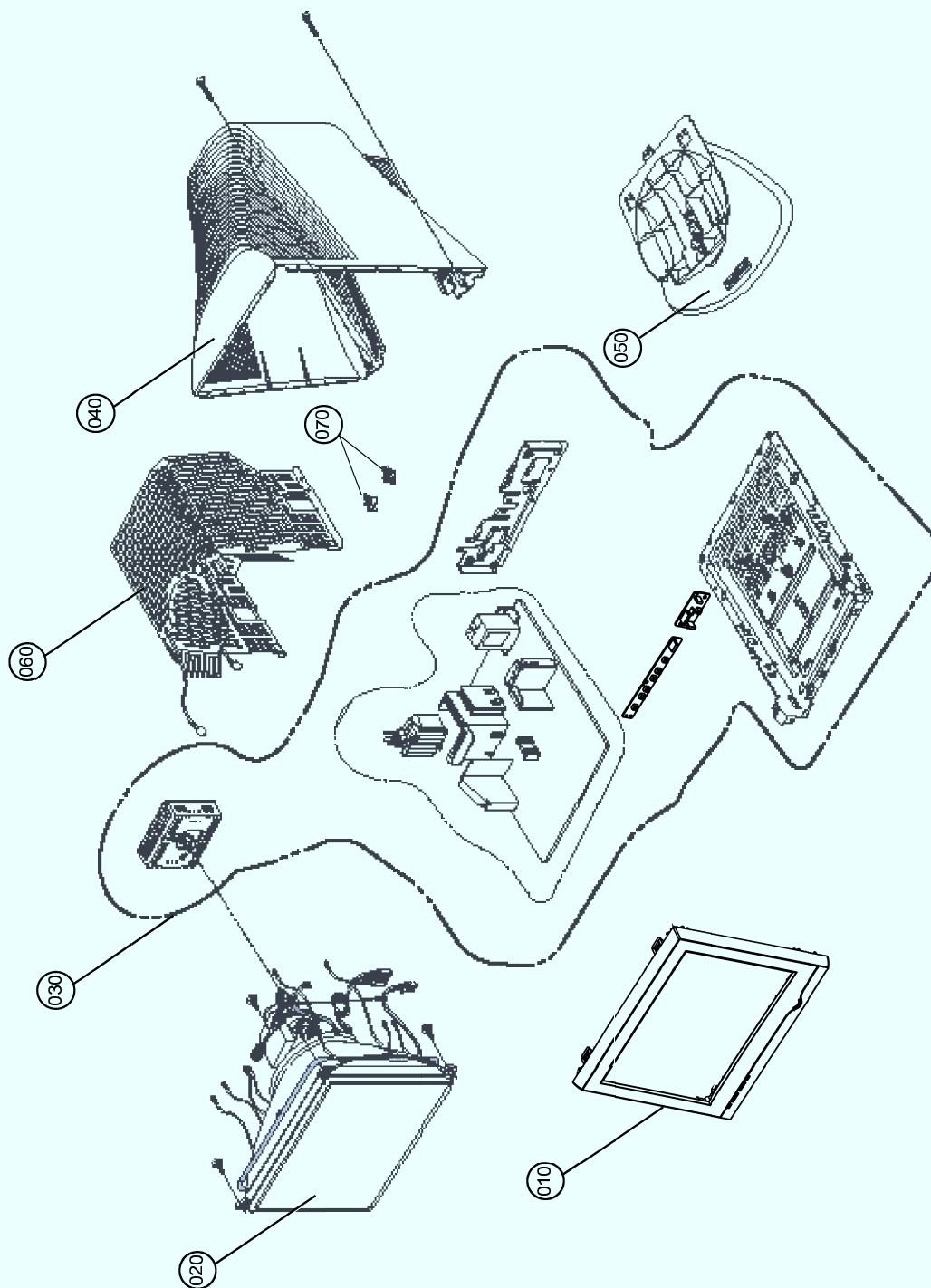
22. Poor Focus



23. Purity Failure



EXPLODED VIEW




EXPLODED VIEW PARTS LIST

Ref. No.	Part No.	Description
010	3091TKC140G	CABINET ASSEMBLY,T930 BRAND C105 (SILVER FOR SP MODEL)
	3091TKC140C	CABINET ASSEMBLY, T930BL BRAND C105 DI
	3091TKC140H	CABINET ASSEMBLY,T930 BRAND C105 (BLACK FOR SP MODEL)
	3091TKC140D	CABINET ASSEMBLY,T930 BRAND C150 (ALL BLACK)
020	6318L1908A	CDT(CIRC),M46QEF903X25(HT)NDDP LG-PHILIPS DISPLAYS 85KHZ 29.1MM TINT FCDT 400CD
030	331391902A	MAIN TOTAL ASSEMBLY,T910BM.KLCNQET BRAND CA-137
	3313T1902D	MAIN TOTAL ASSEMBLY,T910BM.KLCNQET BRAND CA-137
040	3809TKC054L	BACK COVER ASSEMBLY,T910BK TKC047 DI-LOCAL J-CKD
	3809TKC054E	BACK COVER ASSEMBLY, T910BJ TKC047 NT-CKD
	3809TKC054P	BACK COVER ASSEMBLY,910BK TKC047 BK 910BK
	3809TKC054R	BACK COVER ASSEMBLY,T910BL C047A TCO99,BLACK
050	3043TKK141E	TILT SWIVEL ASSEMBLY,T910BK TKB059/TKT054 DI-LOCAL D-CKD
	3043TKK141C	TILT SWIVEL ASSEMBLY, 910BJ TKT054A/TKB054A 8C358 NT- CKD
	3043TKK141G	TILT SWIVEL ASSEMBLY,T910BL B059A BLACK,TCO99
060	4815TKT017L	SHIELD ASSEMBLY,TOP L-CHASSIS FOR CKD
070	4930TKK031C	HOLDER ,PCB FIX,PC+ABS

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: T930BM				DATE:2005.12.10
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
CAPACITORs				
		C202	0CN1040K949	"0.1UF D 50V 80%,-20% F(Y5V) TA52"
		C301	0CK1020K515	1000PF D 50V 10% B(Y5P) TR
		C303	0CK1020K515	1000PF D 50V 10% B(Y5P) TR
		C304	181-288B	MKT 100V 104JTR PHS26104
		C305	0CC2200W415	22PF D 500V 5% NP0 TR
		C306	181-288N	MKT 100V 103JTR PHS86103
		C308	0CE476CF638	"47UF SHL,SD 16V M FM5 TP 5"
		C309	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C310	181-288B	MKT 100V 104JTR PHS26104
		C314	0CC4700W405	47PF 500V J SL TP
		C315	0CE227EF638	"220UF KMG,RD 16V 20% TP 5 FM5"
		C316	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C317	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C318	0CN1040K949	"0.1UF D 50V 80%,-20% F(Y5V) TA52"
		C319	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C321	0CE225BK638	2.2U KME 50V M FM5 TP5
		C323	0CE227EF638	"220UF KMG,RD 16V 20% TP 5 FM5"
		C324	0CN1040K949	"0.1UF D 50V 80%,-20% F(Y5V) TA52"
		C325	181-288B	MKT 100V 104JTR PHS26104
		C326	0CC1800K415	18PF D 50V 5% NP0 TR
		C327	0CC1800K415	18PF D 50V 5% NP0 TR
		C328	0CE476CN618	"47UF SHL,SD 100V 20% FL TP 5"
		C329	0CC1800K415	18PF D 50V 5% NP0 TR
		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	0CK4710W515	470PF D 500V 10% B(Y5P) TR
		C340	181-288B	MKT 100V 104JTR PHS26104
		C341	0CK10302945	0.01UF 2KV Z F TR
		C344	181-288C	MKT 100V 224JTR PHS 26224
		C345	0CZZTFT001R	ECQB1H223JM3 223J 50V TP5.0 MATSUSHITA
		C346	0CK10302945	0.01UF 2KV Z F TR
		C347	0CK10302945	0.01UF 2KV Z F TR
		C350	0CK10302945	0.01UF 2KV Z F TR
		C355	0CE476CF638	"47UF SHL,SD 16V M FM5 TP 5"
		C358	0CN1040K949	"0.1UF D 50V 80%,-20% F(Y5V) TA52"
		C359	0CN1040K949	"0.1UF D 50V 80%,-20% F(Y5V) TA52"
		C360	0CN1040K949	"0.1UF D 50V 80%,-20% F(Y5V) TA52"
		C372	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C401	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C403	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C404	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C405	0CE477CF638	470UF SHL TYPE 16V M FM5 TP 5
		C406	0CK10102515	100PF D 2KV 10% B(Y5P) TR
		C407	0CQ4721N419	0.0047UF D 100V 5% PE NI TP5
		C408	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C409	0CE106CK638	"10UF SHL,SD 50V M FM5 TP 5"
		C410	0CK1010K515	100PF D 50V 10% B(Y5P) TR
		C411	0CK1010K515	100PF D 50V 10% B(Y5P) TR
		C412	0CK1020K515	1000PF D 50V 10% B(Y5P) TR
		C413	0CK1010K515	100PF D 50V 10% B(Y5P) TR
		C414	0CE106CF638	"10UF SHL,SD 16V M FM5 TP 5"

MODEL: T930BM				DATE:2005.12.10	
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON	
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MODEL: T930BM					DATE:2005.12.10				
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON					
A		C790	0CN1040K949	*0.1UF D 50V 80%,-20% F(Y5V) TA52"					
		C803	181-288B	MKT 100V 104JTR PHS26104					
		C807	181-288B	MKT 100V 104JTR PHS26104					
		C822	0CK1040K945	*0.1UF D 50V 80%,-20% F(Y5V) TR"					
		C830	0CK10102515	100PF D 2KV 10% B(Y5P) TR					
		C901	0CZZTCB002C	DCF472M59Y5UQ7DK7D HONGMING 250V 4700PF 20% BULK 7.5 E Y2 F SERIES					
		C902	0CZZTCB002C	DCF472M59Y5UQ7DK7D HONGMING 250V 4700PF 20% BULK 7.5 E Y2 F SERIES					
		C903	0CK10101515	100PF D 1KV 10% B(Y5P) TR					
		C904	0CK10301945	*1000PF D 1KV 80%,-20% F(Y5V) TR*					
		C905	181-124R	220UF SMG(25.4*40) 400V M VNSN BULK					
A		C906	0CE475CN638	*4.7UF SHL,SD 100V M FM5 TP 5"					
		C907	0CE476CH638	*47UF SHL,SD 25V 20% FM5 TP 5"					
		C908	0CK1040K945	*0.1UF D 50V 80%,-20% F(Y5V) TR*					
		C909	0CK6810W515	680PF D 500V 10% B(Y5P) TR					
		C910	0CZZTFT001N	ECQB1H123JM3 123J 50V TP5.0 MATSUSHITA					
		C911	0CE2266F618	*22UF SMS,SG 16V 20% FL TP 5"					
		C912	0CE225CK638	*2.2UF SHL,SD 50V M FM5 TP 5"					
		C915	0CE476CH638	*47UF SHL,SD 25V 20% FM5 TP 5"					
		C916	0CK2220K515	2200PF D 50V 10% B(Y5P) TR					
		C918	0CZZTCB002C	DCF472M59Y5UQ7DK7D HONGMING 250V 4700PF 20% BULK 7.5 E Y2 F SERIES					
A		C919	0CZZTCB002C	DCF472M59Y5UQ7DK7D HONGMING 250V 4700PF 20% BULK 7.5 E Y2 F SERIES					
		C920	0CE107CF638	*100UF SHL,SD 16V M FM5 TP 5"					
		C921	0CE476CN618	*47UF SHL,SD 100V 20% FL TP 5"					
		C922	0CE337EL630	330UF KMG 63V 20% BULK FM5					
		C925	0CE228CH618	2200U SHL 25V M FL TP5					
		C926	0CE108EF618	1000UF KMG 16V 20% FL TP 5					
		C928	0CE108EF618	1000UF KMG 16V 20% FL TP 5					
		C929	0CZZTFT001D	ECQB1H222JM3 222J 50V TP5.0 MATSUSHITA					
		C930	0CQ2721N419	2700PF 100V J PE NI TP					
		C931	0CK10101515	100PF D 1KV 10% B(Y5P) TR					
DIODEs		C932	0CE477CF638	470UF SHL TYPE 16V M FM5 TP 5					
		C952	0CE477CH618	*470UF SHL,SD 25V 20% FL TP 5"					
		D301	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D302	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D303	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D304	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D305	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D306	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D307	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA					
		D308	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA					
		D309	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA					
		D310	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA					
		D311	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA					
		D312	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA					
		D313	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA					
		D314	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA					
		D315	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA					
		D316	0DR140059DA	*1N4005TB52 TP LITEON DO41 600V 1A 40A ,SEC 5UA"					

MODEL: T930BM					DATE:2005.12.10				
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON					
		D403	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D406	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA					
		D407	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D553	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D704	0DRSG00061A	*DMV1500HF(D)5,LF SGS-THOMSON ST TO220AB 600V/1500V 3A/6A 35A/80A 110NS/625NSSEC 20UA/100UA"					
		D705	0DRGF00069A	SB140 GULF TP DO41 40V 1A 40A .SEC 1MA					
		D706	0DRFC00020A	*FFFP10F150STU,LF FAIR CHILD BK TO220F 1500V 10A 100A 170NSSEC 10UA"					
		D708	0DR140059DA	*1N4005TB52 TP LITEON DO41 600V 1A 40A ,SEC 5UA"					
		D709	0DRGF00069A	SB140 GULF TP DO41 40V 1A 40A .SEC 1MA					
		D710	0DR400409AC	UF4004 GULF TP DO41 400V 1A 30A 50NSEC 10UA					
		D712	0DR100009CA	RGP10G TP GULF SEMICONDUCTOR LTD. DO41 400V 1A 30A - 100UA					
		D714	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D715	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D716	0DR140059DA	*1N4005TB52 TP LITEON DO41 600V 1A 40A ,SEC 5UA"					
		D717	0DR140059DA	*1N4005TB52 TP LITEON DO41 600V 1A 40A ,SEC 5UA"					
		D718	0DR140059DA	*1N4005TB52 TP LITEON DO41 600V 1A 40A ,SEC 5UA"					
		D719	0DR100009DA	RGP10J TP GULF SEMICONDUCTOR LTD. DO41 600V 1A 30A - 100UA					
		D720	0DR140059DA	*1N4005TB52 TP LITEON DO41 600V 1A 40A ,SEC 5UA"					
		D721	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D723	0DS141489AB	1N4148 TP GRANDE - 20V ----					
A		D724	0DR100009DA	RGP10J TP GULF SEMICONDUCTOR LTD. DO41 600V 1A 30A - 100UA					
		D730	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D768	0DR100009DA	RGP10J TP GULF SEMICONDUCTOR LTD. DO41 600V 1A 30A - 100UA					
		D791	0DR140059DA	*1N4005TB52 TP LITEON DO41 600V 1A 40A ,SEC 5UA"					
		D801	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D802	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D821	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D835	0DRGF00069A	SB140 GULF TP DO41 40V 1A 40A .SEC 1MA					
		D836	0DRGF00069A	SB140 GULF TP DO41 40V 1A 40A .SEC 1MA					
		D901	0DRTW00071A	TS4B05G-1021 TIWAN SEMI ST NON 600V 4A 120A .SEC 5UA					
		D902	0DR153999AA	1N5399GP TP GULF SEMICONDUCTOR LTD. DO15 1000V 1.5					
		D903	0DR100009CA	RGP10G TP GULF SEMICONDUCTOR LTD. DO41 400V 1A 30A - 100UA					
		D904	0DR100009DA	RGP10J TP GULF SEMICONDUCTOR LTD. DO41 600V 1A 30A - 100UA					
		D905	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D906	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D907	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D908	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D909	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D910	0DRGF00139A	GPP20J GULF TP DO15 600V 2.0A 70A 2.0USSEC 5.0UA					
		D911	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D912	0DS141489AB	1N4148 TP GRANDE - 20V ----					

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*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		D913	0DS141489AB	1N4148 TP GRANDE - 20V - - - -
		D914	0DS141489AB	1N4148 TP GRANDE - 20V - - - -
		D920	0DRSD00079A	D2L20U SHINDENGEN TP DO-204AC 200V 1.5A 40A 35NSEC 10UA
		D921	0DRSD00079A	D2L20U SHINDENGEN TP DO-204AC 200V 1.5A 40A 35NSEC 10UA
		D922	0DRGF00150A	UF5404 GULF BK DO201AD 400V 3.0A 150A 50NSSEC 10.0UA
		D923	0DRVH00091A	GURF5H60 VISHAY ST ITO220 600V 5A 90A 30NSSEC 20UA
		D924	0DR100009DA	RGP10J TP GULF SEMICONDUCTOR LTD. DO41 600V 1A 30A - 100UA
		D927	0DS141489AB	1N4148 TP GRANDE - 20V - - - -
		D952	0DS141489AB	1N4148 TP GRANDE - 20V - - - -
		Q905	0DSON00148A	MCR100-6RLRAG ON SEMI R/TP TO-92L 400V 0.8A 10A -SEC - 10UA
		ZD401	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		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
		ZD408	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD409	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA
		ZD702	0DZ510009BE	GDZ5.1B TP GRANDE DO34 500MW 5.1V 20MA .PF
		COREs&COILs		
		FB301	6210TCE003J	BAS2550T BO SUNG 2550MM AXIAL52MM
		FB302	6210TCE003C	BRD3514B BO SUNG 3514MM RADIAL
		FB305	6210TCE003J	BAS2550T BO SUNG 2550MM AXIAL52MM
		FB309	6210TCE003B	BRS3580B BO SUNG 3580MM RADIAL
		FB310	6210TCE003A	BRD3510B BO SUNG 3510MM RADIAL
		FB313	6210TCE003B	BRS3580B BO SUNG 3580MM RADIAL
		FB314	6210TCE003C	BRD3514B BO SUNG 3514MM RADIAL
		FB315	6210TCE003A	BRD3510B BO SUNG 3510MM RADIAL
		FB317	6210TCE003A	BRD3510B BO SUNG 3510MM RADIAL
		FB504	6210TCE003A	BRD3510B BO SUNG 3510MM RADIAL
		FB505	6210TCE003A	BRD3510B BO SUNG 3510MM RADIAL
		FB507	6210TCE003B	BRS3580B BO SUNG 3580MM RADIAL
		FB701	6210TCE003L	BAS3580T BO SUNG 3580MM AXIAL52MM
		FB702	125-155H	BFS3510A0FG SAMWHA 3.5*10MM AXIAL52MM
		FB901	6210TCE003A	BRD3510B BO SUNG 3510MM RADIAL
		FB904	6210TCE003K	BAS3550T BO SUNG 3550MM AXIAL52MM
		FB905	6210TCE003C	BRD3514B BO SUNG 3514MM RADIAL
		FB906	125-155H	BFS3510A0FG SAMWHA 3.5*10MM AXIAL52MM
		FB907	125-155H	BFS3510A0FG SAMWHA 3.5*10MM AXIAL52MM
		FB909	6210TCE003B	BRS3580B BO SUNG 3580MM RADIAL
FB910	6210TCE003K	BAS3550T BO SUNG 3550MM AXIAL52MM		
FB911	6210TCE003K	BAS3550T BO SUNG 3550MM AXIAL52MM		
L702	6140TBZ025A	DR14*20 120UH 0.12*25MM 47.5T FB775B		
L703	6140TYZ011G	"- GET DR14*25,4.0UH,EB770H"		
L705	6140TBZ026F	DR15*18-C9.8 55UH 0.10*45MM 33.5T D/D CHOKE		
L706	150-985P	DR12*15 6MH 0.25MM 365.5T H-		

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*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
				CENTERING
		L901	6140TBZ031B	EE36SI PFC 49MH 0.5MM 228 +/- 10T .
ICs				
		IC302	0IPRPNS025C	"LM1246DDC/NA,NOPB NATIONAL SEMICONDUCTOR 24,DIP ST LF,ONE CHIP (VIDEO+OSD)"
		IC303	0IPRPNS014A	"LM2465TA,NOPB NATIONAL SEMICONDUCTOR 9P,TO220 ST LF,MONOLITHIC TRIPLE 5.5NS CRT DRIVER"
		IC304	0IPRPNS005A	"LM2480NA,NOPB NATIONAL SEMICONDUCTOR 8P,DIP ST LF,80V TRIPLE BIAS CLAMP"
		IC401	0IMCR02053B	LGM41B-050C PHILIPS SDIP ST DEFLECTION & MICOM 98K 6KEY MOU4.0
		IC402	0IMMRSG044A	"M24C08-WBN6(P),LF STM 8PIN PDIP ST SERIAL IIC EEPROM"
		IC601	0IPRPPH018A	"TDA4867J PHILIPS 9PIN,ST DIP VERTICAL OUTPUT IC"
		IC901	0ISS384300A	KA3843B 8P SDIP BK PWM CONTROLLER
		IC902-1	0IKE781200F	"KIA78L12BP(AT) 3P 12V,150MA ----"
		IC903	0ISS780500F	KA7805 ----
TRANSISTORs				
		Q201	0TR534309AA	2SC5343Y TP AUK --
		Q551	0TR534309AA	2SC5343Y TP AUK --
		Q552	0TRAU80029A	2SA1979(A1270) AUK KOREA R/TP TO92 - 40V -500MA
		Q553	0TRAU90005A	AUK KOREA 2SC5342-Y TP TO92 32V 500MA
		Q703	0TFFC10012A	FQPF10N20C FAIRCHILD ST TO220F 200V 9.5A
		Q704	0TR390409CA	FAIRCHILD 2N3904(TA) TP TO-92 60V 0.2A
		Q705	0TFFC90002A	IRFNL210B FAIRCHILD TP TO-92L 200V 1A
		Q706	0TRFC10012B	FJAF6820L FAIRCHILD ST TO3PF 1550V 20A/30A
		Q707	0TFFC00011B	"FQPF11N40C-YDTU (FORMING),LF FAIRCHILD ST TO-220FM 400V 10.5A A"
		Q710	0TRKE90020A	MPSA44 KEC TP TO92 500V 300MA
		Q712	0TFFC10012A	FQPF10N20C FAIRCHILD ST TO220F 200V 9.5A
		Q713	0TFFC10012A	FQPF10N20C FAIRCHILD ST TO220F 200V 9.5A
		Q714	0TR534309AA	2SC5343Y TP AUK --
		Q715	0TR534309AA	2SC5343Y TP AUK --
		Q716	0TR534309AA	2SC5343Y TP AUK --
		Q717	0TR534309AA	2SC5343Y TP AUK --
		Q718	0TRAU80035A	STD 1862LAT(D3205) AUK KOREA R/TP TO-92L 30V 2A
		Q719	0TFFC10020A	FQPF16N25C FAIRCHILD STICK TO220F 250V 15.6A
		Q720	0TR390409CA	FAIRCHILD 2N3904(TA) TP TO-92 60V 0.2A
		Q721	0TFFC10012A	FQPF10N20C FAIRCHILD ST TO220F 200V 9.5A
		Q731	0TR534309AA	2SC5343Y TP AUK --
		Q787	0TRAU80033A	2N5551AT(N5551) AUK KOREA R/TP TO92 180V 600MA
		Q799	0TRAU80036A	SPS92AT AUK KOREA R/TP TO92 -300V - 500MA
		Q821	0TR231609AA	KSC2316-Y TP SAMSUNG TO92L NPN
		Q901	0TFFC10010A	FQPF10N60CYDTU FAIRCHILD ST TO220F 650V 9.5A
		Q903	0TR534309AA	2SC5343Y TP AUK --
		Q912	0TRAU80034A	STB1277LAT(B1273) AUK KOREA R/TP TO-92L -30V -2A
		Q914	0TR928009AB	KSA928A-Y TP SAMSUNG TO92L PNP

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*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		Q941	0TR534309AA	2SC5343Y TP AUK --
		Q951	0TR534309AA	2SC5343Y TP AUK --
		Q953	0TR534309AA	2SC5343Y TP AUK --
RESISTORS				
		FB201	0RD0101Q609	1 1/4W(3 5% TA52
		FB303	0RD1000Q609	100 1/4W(3 5% TA52
		FB312	0RD1000Q609	100 1/4W(3 5% TA52
		R201	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52
		R202	0RD1600Q609	160 1/4W(3 5% TA52
		R203	0RD2200Q609	220 OHM 1/4 W(3.4) 5.00% TA52
		R204	0RD2200Q609	220 OHM 1/4 W(3.4) 5.00% TA52
		R205	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52
		R206	0RD1600Q609	160 1/4W(3 5% TA52
		R207	0RD5600Q609	560 1/4W(3 5% TA52
		R208	0RD3300Q609	330 OHM 1/4 W(3.4) 5.00% TA52
		R209	0RD3300Q609	330 OHM 1/4 W(3.4) 5.00% TA52
		R210	0RD3600Q609	360 1/4W(3 5% TA52
		R211	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R212	0RD5600Q609	560 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	6.2K OHM 1/6 W 1.00% 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 OHM 1/4 W(3.4) 5.00% TA52
		R328	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52
		R329	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52
		R331	0RD1000Q609	100 1/4W(3 5% TA52
		R332	0RD1000Q609	100 1/4W(3 5% TA52
		R333	0RD1000Q609	100 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	0RD3000Q609	300 1/4W(3 5% TA52
		R340	0RN1002F409	10K OHM 1/6 W 1.00% TA52
		R341	0RD0332A609	33 OHM 1/2 W(7.0) 5.00% TA52
		R342	0RD0332A609	33 OHM 1/2 W(7.0) 5.00% TA52
		R343	0RD0332A609	33 OHM 1/2 W(7.0) 5.00% TA52
		R344	0RD0332Q609	33 1/4W(3 5% TA52
		R345	0RD0332Q609	33 1/4W(3 5% TA52
		R346	0RD0332Q609	33 1/4W(3 5% TA52
		R347	0RD1200Q609	120 1/4W(3 5% TA52
		R401	0RD2200Q609	220 OHM 1/4 W(3.4) 5.00% 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
		R409	0RD1000Q609	100 1/4W(3 5% TA52
		R410	0RD1000Q609	100 1/4W(3 5% TA52
		R411	0RD1000Q609	100 1/4W(3 5% TA52
		R412	0RD0102Q609	10 1/4W(3 5% TA52
		R413	0RD1000Q609	100 1/4W(3 5% TA52
		R414	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R415	0RD1000Q609	100 1/4W(3 5% TA52
		R416	0RN3301F409	3.3K OHM 1/6 W 1.00% TA52
		R417	0RN2701F409	2.7K OHM 1/6 W 1.00% TA52
		R418	0RD1000Q609	100 1/4W(3 5% TA52
		R419	0RD1000Q609	100 1/4W(3 5% TA52
		R420	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52

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*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		R421	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R422	0RD2001Q609	2K OHM 1/4 W(3.4) 5.00% TA52
		R423	0RD1000Q609	100 1/4W(3 5% TA52
		R424	0RD1000Q609	100 1/4W(3 5% TA52
		R425	0RD1000Q609	100 1/4W(3 5% TA52
		R426	0RD1000Q609	100 1/4W(3 5% TA52
		R427	0RD1002Q609	10K OHM 1/4 W(3.4) 5.00% TA52
		R429	0RN2401F409	2.4K OHM 1/6 W 1.00% TA52
		R430	0RD1000Q609	100 1/4W(3 5% TA52
		R431	0RD1002Q609	10K OHM 1/4 W(3.4) 5.00% TA52
		R432	0RD1000Q609	100 1/4W(3 5% TA52
		R433	0RD1000Q609	100 1/4W(3 5% TA52
		R434	0RD7502Q609	75K OHM 1/4 W(3.4) 5.00% TA52
		R435	0RD1002Q609	10K OHM 1/4 W(3.4) 5.00% TA52
		R436	0RN3601F409	3.6K OHM 1/6 W 1.00% TA52
		R437	0RN2702G409	27K OHM 1/4 W 1.00% TA52
		R438	0RN2402F409	24K OHM 1/6 W 1.00% TA52
		R439	0RN1001F409	1K OHM 1/6 W 1.00% TA52
		R440	0RN5600F409	560 1/6W 1% TA52
		R442	0RN3901F409	3.9K OHM 1/6 W 1.00% TA52
		R443	0RD2200Q609	220 OHM 1/4 W(3.4) 5.00% TA52
		R444	0RD4700Q609	470 OHM 1/4 W(3.4) 5.00% TA52
		R445	0RD4700Q609	470 OHM 1/4 W(3.4) 5.00% TA52
		R449	0RN1002F409	10K OHM 1/6 W 1.00% TA52
		R450	0RN1203F409	120K OHM 1/6 W 1.00% TA52
		R451	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52
		R452	0RN1002F409	10K OHM 1/6 W 1.00% TA52
		R453	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R454	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R455	0RD3600Q609	360 1/4W(3 5% TA52
		R456	0RD1000Q609	100 1/4W(3 5% TA52
		R457	0RD1801Q609	1.8K OHM 1/4 W(3.4) 5.00% TA52
		R458	0RD1801Q609	1.8K OHM 1/4 W(3.4) 5.00% TA52
		R490	0RD1000Q609	100 1/4W(3 5% TA52
		R494	0RD1000Q609	100 1/4W(3 5% TA52
		R495	0RD1000Q609	100 1/4W(3 5% TA52
		R501	0RD0102A609	10 OHM 1/2 W(7.0) 5.00% TA52
		R550	0RD4702Q609	47K OHM 1/4 W(3.4) 5.00% TA52
		R551	0RD1502Q609	15K 1/4W(3 5% TA52
		R552	0RD3902Q509	39K OHM 1/4 W(3.4) 2% TA52
		R554	0RD1202Q609	12K 1/4W(3 5% TA52
		R556	0RD0102A609	10 OHM 1/2 W(7.0) 5.00% TA52
		R601	0RD1000Q609	100 1/4W(3 5% TA52
		R602	0RD1000Q609	100 1/4W(3 5% TA52
		R603	0RN0220H609	0.22 1/2W 5% TA52
		R604	0RD0101A609	1 OHM 1/2 W(7.0) 5.00% TA52
		R605	0RD0331A609	3.3 OHM 1/2 W(7.0) 5.00% TA52
		R606	0RD1000A609	100 OHM 1/2 W(7.0) 5.00% TA52
		R607	0RN4301F409	4.3K OHM 1/6 W 1.00% TA52
		R608	0RD1600A609	160 OHM 1/2 W(7.0) 5.00% TA52
		R701	0RD6800Q609	680 1/4W(3 5% TA52
		R702	0RD6800Q609	680 1/4W(3 5% TA52
		R703	0RD1002A609	10K OHM 1/2 W(7.0) 5.00% TA52
		R704	0RD1002Q609	10K OHM 1/4 W(3.4) 5.00% TA52
		R706	0RN0102G609	10 1/4W 5 TA52
		R707	0RD3302A609	33K OHM 1/2 W(7.0) 5.00% TA52
		R708	0RD5600A609	560 OHM 1/2 W(7.0) 0.05 TA52
		R711	0RD7502Q609	75K OHM 1/4 W(3.4) 5.00% TA52
		R729	0RD3301Q609	3.30K 1/4W(3 5% TA52
		R730	0RMZTWD001N	PRZC-1 UNI-OHM 1.1OHM 5 W 5% RWR PD-TYPE
		R731	0RD4702Q609	47K OHM 1/4 W(3.4) 5.00% TA52
		R732	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52
		R734	0RN0390J607	0.39 1W 5% TA62
		R735	0RD1002Q609	10K OHM 1/4 W(3.4) 5.00% TA52

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*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		R736	0RX2201K665	2200 OHM 2 W 5% SF
		R737	0RN0560H609	0.56 OHM 1/2 W 5.00% TA52
		R738	0RN0560H609	0.56 OHM 1/2 W 5.00% TA52
		R739	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52
		R740	0RD0332A609	33 OHM 1/2 W(7.0) 5.00% TA52
		R743	0RD2000Q609	200 1/4W(3 5% TA52
		R744	0RX2000K607	200 OHM 2 W 5.00% TA62
		R745	0RD4702Q609	47K OHM 1/4 W(3.4) 5.00% TA52
		R746	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R747	0RD3001Q609	3K 1/4W(3 5% TA52
		R748	0RD4702Q609	47K OHM 1/4 W(3.4) 5.00% TA52
		R749	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R750	0RD3001Q609	3K 1/4W(3 5% TA52
		R751	0RD0222A609	22 OHM 1/2 W(7.0) 5.00% TA52
		R752	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R753	0RD3001Q609	3K 1/4W(3 5% TA52
		R754	0RX6800K607	680 OHM 2 W 5% TA62
		R755	0RD3001Q609	3K 1/4W(3 5% TA52
		R756	0RD2202A609	22K OHM 1/2 W(7.0) 5.00% TA52
		R758	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R761	0RD3001Q609	3K 1/4W(3 5% TA52
		R762	0RD3001Q609	3K 1/4W(3 5% TA52
		R763	0RD3001Q609	3K 1/4W(3 5% TA52
		R764	0RD3001Q609	3K 1/4W(3 5% TA52
		R765	0RD1000A609	100 OHM 1/2 W(7.0) 5.00% TA52
		R768	0RD4303A609	430K OHM 1/2 W(7.0) 5.00% TA52
		R771	0RD1101A609	1.1K OHM 1/2 W(7.0) 5.00% TA52
		R772	0RN2702F409	27K OHM 1/6 W 1.00% TA52
		R773	0RN1303H409	130K OHM 1/2 W 1% TA52
		R775	0RD4702Q609	47K OHM 1/4 W(3.4) 5.00% TA52
		R780	0RD2202Q609	22K 1/4W(3 5% TA52
		R781	0RD2001Q609	2K OHM 1/4 W(3.4) 5.00% TA52
		R782	0RD3301A609	3.3K OHM 1/2 W(7.0) 5.00% TA52
		R785	0RD0471A609	4.7 OHM 1/2 W(7.0) 5.00% TA52
		R788	0RD4702Q609	47K OHM 1/4 W(3.4) 5.00% TA52
		R790	0RD3001Q609	3K 1/4W(3 5% TA52
		R791	0RD3001Q609	3K 1/4W(3 5% TA52
		R792	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R793	0RD4702Q609	47K OHM 1/4 W(3.4) 5.00% TA52
		R794	0RD4702Q609	47K OHM 1/4 W(3.4) 5.00% TA52
		R799	0RD1502Q609	15K 1/4W(3 5% TA52
		R803	0RD2001Q609	2K OHM 1/4 W(3.4) 5.00% TA52
		R809	0RX0151L665	1.5 OHM 3 W 5% SF
		R818	0RN6202F409	62K OHM 1/6 W 1.00% TA52
		R822	0RD0122A609	12 OHM 1/2 W(7.0) 5.00% TA52
		R823	0RX0432K665	430OHM 2 W 5% SF
		R869	0RX0332K665	33 OHM 2 W 5% SF
		R870	0RX0332K607	33 OHM 2 W 5% TA62
		R871	0RX0332K607	33 OHM 2 W 5% TA62
		R872	0RD2401Q609	2.40K 1/4W(3 5% TA52
		R902	0RD0102Q609	10 1/4W(3 5% TA52
		R903	0RD0512Q609	51 1/4W(3 5% TA52
		R905	0RX7502K607	75K OHM 2 W 5.00% TA62
		R906	0RX7502K607	75K OHM 2 W 5.00% TA62
		R907	0RN1800F409	180 OHM 1/6 W 1.00% TA52
		R908	0RN0220H609	0.22 1/2W 5% TA52
		R909	0RD1002Q609	10K OHM 1/4 W(3.4) 5.00% TA52
		R910	0RN1602F409	16K 1/6W 1% TA52
		R911	0RN2001F409	2K OHM 1/6 W 1.00% TA52
		R912	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52
		R913	0RB0120K607	0.12 OHM 2 W 5% TA62
		R914	0RD6800Q609	680 1/4W(3 5% TA52
		R915	0RD3903A609	390K OHM 1/2 W(7.0) 5.00% TA52
		R916	0RD3603A609	360K OHM 1/2 W(7.0) 5.00% TA52
		R917	0RD0622Q609	62 OHM 1/4 W(3.4) 5.00% TA52

MODEL: T930BM		DATE:2005.12.10		
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		R918	0RD1003Q609	100K 1/4W(3 5% TA52
		R920	0RD0392Q609	39 1/4W(3 5% TA52
		R921	0RD0332Q609	33 1/4W(3 5% TA52
		R922	0RD5601Q609	5.6K OHM 1/4 W(3.4) 5.00% TA52
		R923	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52
		R924	0RD4703Q609	470K 1/4W(3 5% TA52
		R925	0RD1501Q609	1.50K 1/4W(3 5% TA52
		R926	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R929	0RN0220H609	0.22 1/2W 5% TA52
		R930	0RN0220H609	0.22 1/2W 5% TA52
		R931	0RD1000Q609	100 1/4W(3 5% TA52
		R933	0RD0472Q609	47 1/4W(3 5% TA52
		R934	0RD3302Q609	33K 1/4W(3 5% TA52
		R935	0RD3301Q609	3.30K 1/4W(3 5% TA52
		R936	0RX3902K665	39K OHM 2 W 5% SF
		R941	0RD6802A609	68K OHM 1/2 W(7.0) 5.00% TA52
		R944	0RD4700A609	470 OHM 1/2 W(7.0) 5.00% TA52
		R946	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R949	0RN0220H609	0.22 1/2W 5% TA52
		R953	0RD1101A609	1.1K OHM 1/2 W(7.0) 5.00% TA52
		R954	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R955	0RD5101Q609	5.10K 1/4W(3 5% TA52
		R957	0RD0512Q609	51 1/4W(3 5% TA52
		R991	0RD5101Q609	5.10K 1/4W(3 5% 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"
		RL901	6920TBB007A	JZC-42012-2HS HONGMEI 250VAC 5A 12V 2A NO VENTING
		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
		SC301	6620TBD003A	PCS701E PARK ELEC. 10PIN 14/360 STRAIGHT
		SC901	6200TJB001G	02MD3P DELTA BK CB777F
		SG301	6918TAT008A	WS020 (200V) JINTAN CHENHUI AXIAL TAPING
		SG302	6918TAT008A	WS020 (200V) JINTAN CHENHUI AXIAL TAPING
		SG303	6918TAT008A	WS020 (200V) JINTAN CHENHUI AXIAL TAPING
		SG305	6918TRT004B	SG5-152-CB Y&Y UNICTRON RADIAL TAPING
		SG701	6918TRT004B	SG5-152-CB Y&Y UNICTRON RADIAL TAPING
		SW201	6600R00001A	"JTP1280F6 JEIL 12V DC 1MA VERTICAL,7MM"
		SW202	6600R00001A	"JTP1280F6 JEIL 12V DC 1MA VERTICAL,7MM"
		SW203	6600R00001A	"JTP1280F6 JEIL 12V DC 1MA VERTICAL,7MM"
		SW204	6600R00001A	"JTP1280F6 JEIL 12V DC 1MA VERTICAL,7MM"
		SW205	6600R00001A	"JTP1280F6 JEIL 12V DC 1MA VERTICAL,7MM"
		SW206	6600R00001A	"JTP1280F6 JEIL 12V DC 1MA VERTICAL,7MM"
		SW207	6600M000051	JPS 2225B NAMAEE 30VDC 0.1A COVER GRAY
		SW801	140-079D	"JLS1301 JEIL 36V 200MA LEVER S/W,JEIL"
		T702	6170TCZ013B	EI2218 26UH D/FOCUS F700PL
		T703	6170TCZ008A	EE2218 1.3MH FB995C

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: T930BAKM		DATE:2005.12.10		
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
CAPACITORs				
		C202	0CN1040K949	"0.1UF D 50V 80%,-20% F(Y5V) TA52"
		C301	0CK1020K515	1000PF D 50V 10% B(Y5P) TR
		C303	0CK1020K515	1000PF D 50V 10% B(Y5P) TR
		C304	181-288B	MKT 100V 104JTR PHS26104
		C305	0CC2200W415	22PF D 500V 5% NP0 TR
		C306	181-288N	MKT 100V 103JTR PHS86103
		C308	0CE476CF638	"47UF SHL,SD 16V M FM5 TP 5"
		C309	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C310	181-288B	MKT 100V 104JTR PHS26104
		C314	0CC4700W405	47PF 500V J SL TP
		C315	0CE227EF638	"220UF KMG,RD 16V 20% TP 5 FM5"
		C316	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C317	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C318	0CN1040K949	"0.1UF D 50V 80%,-20% F(Y5V) TA52"
		C319	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C321	0CE225BK638	2.2U KME 50V M FM5 TP5
		C323	0CE227EF638	"220UF KMG,RD 16V 20% TP 5 FM5"
		C324	0CN1040K949	"0.1UF D 50V 80%,-20% F(Y5V) TA52"
		C325	181-288B	MKT 100V 104JTR PHS26104
		C326	0CC1800K415	18PF D 50V 5% NP0 TR
		C327	0CC1800K415	18PF D 50V 5% NP0 TR
		C328	0CE476CN618	"47UF SHL,SD 100V 20% FL TP 5"
		C329	0CC1800K415	18PF D 50V 5% NP0 TR
		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	0CK4710W515	470PF D 500V 10% B(Y5P) TR
		C340	181-288B	MKT 100V 104JTR PHS26104
		C341	0CK10302945	0.01UF 2KV Z F TR
		C344	181-288C	MKT 100V 224JTR PHS 26224
		C345	0CZZTFT001R	ECQB1H223JM3 223J 50V TP5.0
				MATSUSHITA
		C346	0CK10302945	0.01UF 2KV Z F TR
		C347	0CK10302945	0.01UF 2KV Z F TR
		C350	0CK10302945	0.01UF 2KV Z F TR
		C355	0CE476CF638	"47UF SHL,SD 16V M FM5 TP 5"
		C358	0CN1040K949	"0.1UF D 50V 80%,-20% F(Y5V) TA52"
		C359	0CN1040K949	"0.1UF D 50V 80%,-20% F(Y5V) TA52"
		C360	0CN1040K949	"0.1UF D 50V 80%,-20% F(Y5V) TA52"
		C372	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C401	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C403	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C404	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C405	0CE477CF638	470UF SHL TYPE 16V M FM5 TP 5
		C406	0CK10102515	100PF D 2KV 10% B(Y5P) TR
		C407	0CQ4721N419	0.0047UF D 100V 5% PE NI TP5
		C408	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C409	0CE106CK638	"10UF SHL,SD 50V M FM5 TP 5"
		C410	0CK1010K515	100PF D 50V 10% B(Y5P) TR
		C411	0CK1010K515	100PF D 50V 10% B(Y5P) TR
		C412	0CK1020K515	1000PF D 50V 10% B(Y5P) TR
		C413	0CK1010K515	100PF D 50V 10% B(Y5P) TR
		C414	0CE106CF638	"10UF SHL,SD 16V M FM5 TP 5"

MODEL: T930BAKM		DATE:2005.12.10		
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		C415	0CQ6821N419	6800PF 100V J PE NI TP
		C417	181-288B	MKT 100V 104JTR PHS26104
		C418	0CQ1031N419	0.01UF D 100V 5% PE NI TP5
		C419	181-476R	2200 D 100V/H PP NI TP5
		C420	0CQ6831N509	0.068UF D 100V 10% PE TP5
		C421	0CQ1021N419	1000P 100V J POLY NI TP
		C422	0CK2220K515	2200PF D 50V 10% B(Y5P) TR
		C423	0CK2220K515	2200PF D 50V 10% B(Y5P) TR
		C424	0CE4756F618	"4.7UF SMS,SG 16V 20% FL TP 5"
		C425	0CK2210K515	220PF D 50V 10% B(Y5P) TR
		C426	0CK1030K945	"0.01UF D 50V 80%,-20% F(Y5V) TR"
		C428	0CK1030K515	0.01UF D 50V 10% B(Y5P) TR
		C429	0CE3376F618	"330UF SMS,SG 16V 20% FL TP 5"
		C502	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C601	0CE227EH638	"220UF KMG,RD 25V 20% FM5 TP 5"
		C602	181-288Q	MKT 100V 154JTR PHS26154
		C603	0CE337CK618	"330UF SHL,SD 50V 20% FL TP 5"
		C604	0CQ6821N419	6800PF 100V J PE NI TP
		C605	0CK1020W515	1000PF D 500V 10% B(Y5P) TR
		C701	0CK1020K515	1000PF D 50V 10% B(Y5P) TR
		C703	0CE108CF630	"1000UF SHL,SD 16V 20% FM5 BULK"
		C705	181-477X	563J 19.5*15.5*9.0*7.5 250V J PU TP7.5
		C712	0CE106CK638	"10UF SHL,SD 50V M FM5 TP 5"
		C713	0CE1076F618	"100UF SMS,SG 16V 20% FL TP 5"
		C715	0CQ2221N419	2200PF D 100V 5% PE NI TP5
		C719	0CZZTAB001F	SHL-BP SYE / SWE 50V 3.3UF 20% BULK
				EB770H
		C722	181-477Y	683JF 20.0*16.5*9.5*7.5 250V J PU TP7.5
		C723	181-482F	274JF 18.0*17.0*10.0*7.5 250V J MPP TP7.5
		C724	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C725	0CK6810W515	680PF D 500V 10% B(Y5P) TR
		C726	181-482G	334J 18.0*18.0*11.0*7.5 250V J MPP TP7.5
		C727	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C729	181-305Z	"0.75UF D 250V 5%,-5% M/PP BULK"
		C730	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C731	181-309H	272J 23.0*17.0*10.0*15.0 1.6KV J BUP FM15
		C733	181-306F	272J 20.0*15.0*9.0*10.0 800V J PU FM10
		C734	181-306M	822J 20.0*18.0*11.0*10.0 800V J PU FM10
		C735	181-306M	822J 20.0*18.0*11.0*10.0 800V J PU FM10
		C736	181-309H	272J 23.0*17.0*10.0*15.0 1.6KV J BUP FM15
		C737	181-305C	154J 19.0*14.0*8.0*10.0 250V J MPP FM10
		C738	181-477Y	683JF 20.0*16.5*9.5*7.5 250V J PU TP7.5
		C739	0CE106EK638	10UF KMG 50V 20% FM5 TP 5
		C740	0CE337EL630	330UF KMG 63V 20% BULK FM5
		C741	0CZZTFT001Z	ECQB1H104JM3 104J 50V TP5.0
				MATSUSHITA
		C744	181-305Z	"0.75UF D 250V 5%,-5% M/PP BULK"
		C745	0CK5610W515	560PF D 500V 10% B(Y5P) TR
		C746	0CK6810W515	680PF D 500V 10% B(Y5P) TR
		C748	0CK1510W515	150PF D 500V 10% B(Y5P) TR
		C749	0CE106CQ618	"10UF SHL,SD 200V 20% FL TP 5"
		C750	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"
		C758	181-306M	822J 20.0*18.0*11.0*10.0 800V J PU FM10
		C767	0CK10301945	"10000PF D 1KV 80%,-20% F(Y5V) TR"
		C770	0CK10102515	100PF D 2KV 10% B(Y5P) TR
		C771	0CK10301945	"10000PF D 1KV 80%,-20% F(Y5V) TR"
		C775	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"

MODEL: T930BAKM				DATE:2005.12.10	
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON	
		C790	0CN1040K949	"0.1UF D 50V 80%,-20% F(Y5V) TA52"	
		C803	181-288B	MKT 100V 104JTR PHS26104	
		C807	181-288B	MKT 100V 104JTR PHS26104	
		C822	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"	
		C830	0CK10102515	100PF D 2KV 10% B(Y5P) TR	
⚠		C901	0CZZTCB002C	DCF472M59Y5UQ7DK7D HONGMING 250V 4700PF 20% BULK 7.5 E Y2 F SERIES	
⚠		C902	0CZZTCB002C	DCF472M59Y5UQ7DK7D HONGMING 250V 4700PF 20% BULK 7.5 E Y2 F SERIES	
		C903	0CK10101515	100PF D 1KV 10% B(Y5P) TR	
		C904	0CK10301945	"10000PF D 1KV 80%,-20% F(Y5V) TR"	
	⚠	C905	181-124R	220UF SMG(25.4*40) 400V M VNSN BULK	
		C906	0CE475CN638	"4.7UF SHL,SD 100V M FM5 TP 5"	
		C907	0CE476CH638	"47UF SHL,SD 25V 20% FM5 TP 5"	
		C908	0CK1040K945	"0.1UF D 50V 80%,-20% F(Y5V) TR"	
		C909	0CK6810W515	680PF D 500V 10% B(Y5P) TR	
		C910	0CZZTFT001N	ECQB1H123JM3 123J 50V TP5.0 MATSUSHITA	
		C911	0CE2266F618	"22UF SMS,SG 16V 20% FL TP 5"	
		C912	0CE225CK638	"2.2UF SHL,SD 50V M FM5 TP 5"	
		C915	0CE476CH638	"47UF SHL,SD 25V 20% FM5 TP 5"	
		C916	0CK2220K515	2200PF D 50V 10% B(Y5P) TR	
	⚠	C918	0CZZTCB002C	DCF472M59Y5UQ7DK7D HONGMING 250V 4700PF 20% BULK 7.5 E Y2 F SERIES	
	⚠	C919	0CZZTCB002C	DCF472M59Y5UQ7DK7D HONGMING 250V 4700PF 20% BULK 7.5 E Y2 F SERIES	
		C920	0CE107CF638	"100UF SHL,SD 16V M FM5 TP 5"	
		C921	0CE476CN618	"47UF SHL,SD 100V 20% FL TP 5"	
		C922	0CE337EL630	330UF KMG 63V 20% BULK FM5	
		C925	0CE228CH618	2200U SHL 25V M FL TP5	
		C926	0CE108EF618	1000UF KMG 16V 20% FL TP 5	
		C928	0CE108EF618	1000UF KMG 16V 20% FL TP 5	
		C929	0CZZTFT001D	ECQB1H222JM3 222J 50V TP5.0 MATSUSHITA	
		C930	0CQ2721N419	2700PF 100V J PE NI TP	
		C931	0CK10101515	100PF D 1KV 10% B(Y5P) TR	
		C932	0CE477CF638	470UF SHL TYPE 16V M FM5 TP 5	
		C952	0CE477CH618	"470UF SHL,SD 25V 20% FL TP 5"	
	DIODEs				
		D301	0DS141489AB	1N4148 TP GRANDE - 20V ----	
		D302	0DS141489AB	1N4148 TP GRANDE - 20V ----	
		D303	0DS141489AB	1N4148 TP GRANDE - 20V ----	
		D304	0DS141489AB	1N4148 TP GRANDE - 20V ----	
		D305	0DS141489AB	1N4148 TP GRANDE - 20V ----	
		D306	0DS141489AB	1N4148 TP GRANDE - 20V ----	
	D307	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA		
	D308	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA		
	D309	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA		
	D310	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA		
	D311	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA		
	D312	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA		
	D313	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA		
	D314	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA		
	D315	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA		
	D316	0DR140059DA	"1N4005TB52 TP LITEON DO41 600V 1A 40A ,SEC 5UA"		

MODEL: T930BAKM					DATE:2005.12.10				
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON					
		D403	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D406	0DS124409AA	1SS244T-72 ROHM KOREA TAPING DO34 250V 625MA 1A 75N/SEC 10UA					
		D407	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D553	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D704	0DRSG00061A	"DMV1500HF(D)5,LF SGS-THOMSON ST TO220AB 600V/1500V 3A/6A 35A/80A 110NS/625NSSEC 20UA/100UA"					
		D705	0DRGF00069A	SB140 GULF TP DO41 40V 1A 40A .SEC 1MA					
		D706	0DRFC00020A	"FFPF10F150STU,LF FAIR CHILD BK TO220F 1500V 10A 100A 170NSSEC 10UA"					
		D708	0DR140059DA	"1N4005TB52 TP LITEON DO41 600V 1A 40A ,SEC 5UA"					
		D709	0DRGF00069A	SB140 GULF TP DO41 40V 1A 40A .SEC 1MA					
		D710	0DR400409AC	UF4004 GULF TP DO41 400V 1A 30A 50NSEC 10UA					
		D712	0DR100009CA	RGP10G TP GULF SEMICONDUCTOR LTD. DO41 400V 1A 30A - 100UA					
		D714	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D715	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D716	0DR140059DA	"1N4005TB52 TP LITEON DO41 600V 1A 40A ,SEC 5UA"					
		D717	0DR140059DA	"1N4005TB52 TP LITEON DO41 600V 1A 40A ,SEC 5UA"					
		D718	0DR140059DA	"1N4005TB52 TP LITEON DO41 600V 1A 40A ,SEC 5UA"					
		D719	0DR100009DA	RGP10J TP GULF SEMICONDUCTOR LTD. DO41 600V 1A 30A - 100UA					
		D720	0DR140059DA	"1N4005TB52 TP LITEON DO41 600V 1A 40A ,SEC 5UA"					
	⚠	D721	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D723	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D724	0DR100009DA	RGP10J TP GULF SEMICONDUCTOR LTD. DO41 600V 1A 30A - 100UA					
		D730	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D768	0DR100009DA	RGP10J TP GULF SEMICONDUCTOR LTD. DO41 600V 1A 30A - 100UA					
		D791	0DR140059DA	"1N4005TB52 TP LITEON DO41 600V 1A 40A ,SEC 5UA"					
		D801	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D802	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D821	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D835	0DRGF00069A	SB140 GULF TP DO41 40V 1A 40A .SEC 1MA					
		D836	0DRGF00069A	SB140 GULF TP DO41 40V 1A 40A .SEC 1MA					
		D901	0DRTW00071A	TS4B05G-1021 TIWAN SEMI ST NON 600V 4A 120A .SEC 5UA					
		D902	0DR153999AA	1N5399GP TP GULF SEMICONDUCTOR LTD. DO15 1000V 1.5					
		D903	0DR100009CA	RGP10G TP GULF SEMICONDUCTOR LTD. DO41 400V 1A 30A - 100UA					
		D904	0DR100009DA	RGP10J TP GULF SEMICONDUCTOR LTD. DO41 600V 1A 30A - 100UA					
		D905	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D906	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D907	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D908	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D909	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D910	0DRGF00139A	GPP20J GULF TP DO15 600V 2.0A 70A 2.0USSEC 5.0UA					
		D911	0DS141489AB	1N4148 TP GRANDE - 20V ----					
		D912	0DS141489AB	1N4148 TP GRANDE - 20V ----					

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*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON		
		D913	0DS141489AB	1N4148 TP GRANDE - 20V - - - -		
		D914	0DS141489AB	1N4148 TP GRANDE - 20V - - - -		
		D920	0DRSD00079A	D2L20U SHINDENGEN TP DO-204AC 200V 1.5A 40A 35NSEC 10UA		
		D921	0DRSD00079A	D2L20U SHINDENGEN TP DO-204AC 200V 1.5A 40A 35NSEC 10UA		
		D922	0DRGF00150A	UF5404 GULF BK DO201AD 400V 3.0A 150A 50NSSEC 10.0UA		
		D923	0DRVH00091A	GURF5H60 VISHAY ST ITO220 600V 5A 90A 30NSSEC 20UA		
		D924	0DR100009DA	RGP10J TP GULF SEMICONDUCTOR LTD. DO41 600V 1A 30A - 100UA		
		D927	0DS141489AB	1N4148 TP GRANDE - 20V - - - -		
		D952	0DS141489AB	1N4148 TP GRANDE - 20V - - - -		
		ZD401	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA		
		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		
		ZD408	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA		
		ZD409	0DZ560009AG	GDZJ5.6B TP GRANDE DO-34 500MW 5.6V 5MA		
		ZD702	0DZ510009BE	GDZ5.1B TP GRANDE DO34 500MW 5.1V 20MA .PF		
		CORES&COILs				
				FB301	6210TCE003J	BAS2550T BO SUNG 2550MM AXIAL52MM
FB302	6210TCE003C			BRD3514B BO SUNG 3514MM RADIAL		
FB305	6210TCE003J			BAS2550T BO SUNG 2550MM AXIAL52MM		
FB309	6210TCE003B			BRS3580B BO SUNG 3580MM RADIAL		
FB310	6210TCE003A			BRD3510B BO SUNG 3510MM RADIAL		
FB313	6210TCE003B			BRS3580B BO SUNG 3580MM RADIAL		
FB314	6210TCE003C			BRD3514B BO SUNG 3514MM RADIAL		
FB315	6210TCE003A			BRD3510B BO SUNG 3510MM RADIAL		
FB317	6210TCE003A			BRD3510B BO SUNG 3510MM RADIAL		
FB504	6210TCE003A			BRD3510B BO SUNG 3510MM RADIAL		
FB505	6210TCE003A			BRD3510B BO SUNG 3510MM RADIAL		
FB507	6210TCE003B			BRS3580B BO SUNG 3580MM RADIAL		
FB701	6210TCE003L			BAS3580T BO SUNG 3580MM AXIAL52MM		
FB702	125-155H			BFS3510A0FG SAMWHA 3.5*10MM AXIAL52MM		
FB901	6210TCE003A			BRD3510B BO SUNG 3510MM RADIAL		
FB904	6210TCE003K			BAS3550T BO SUNG 3550MM AXIAL52MM		
FB905	6210TCE003C			BRD3514B BO SUNG 3514MM RADIAL		
FB906	125-155H			BFS3510A0FG SAMWHA 3.5*10MM AXIAL52MM		
FB907	125-155H			BFS3510A0FG SAMWHA 3.5*10MM AXIAL52MM		
FB909	6210TCE003B			BRS3580B BO SUNG 3580MM RADIAL		
FB910	6210TCE003K	BAS3550T BO SUNG 3550MM AXIAL52MM				
FB911	6210TCE003K	BAS3550T BO SUNG 3550MM AXIAL52MM				
L702	6140TBZ025A	DR14*20 120UH 0.12*25MM 47.5T FB775B				
L703	6140TYZ011G	"- GET DR14*25,4.0UH,EB770H"				
L705	6140TBZ026F	DR15*18-C9.8 55UH 0.10*45MM 33.5T D/D CHOKE				
L706	150-985P	DR12*15 6MH 0.25MM 365.5T H-CENTERING				
L901	6140TBZ031B	EE36SI PFC 49MH 0.5MM 228 +/- 10T .				

MODEL: T930BAKM				DATE:2005.12.10
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
ICs				
		IC302	0IPRPNS025C	"LM1246DDC/NA,NOPB NATIONAL SEMICONDUCTOR 24,DIP ST LF,ONE CHIP (VIDEO+OSD)"
		IC303	0IPRPNS014A	"LM2465TA,NOPB NATIONAL SEMICONDUCTOR 9P,TO220 ST LF,MONOLITHIC TRIPLE 5.5NS CRT DRIVER"
		IC304	0IPRPNS005A	"LM2480NA,NOPB NATIONAL SEMICONDUCTOR 8P,DIP ST LF,80V TRIPLE BIAS CLAMP"
		IC401	0IMCR02053B	LGM41B-050C PHILIPS SDIP ST DEFLECTION & MICOM 98K 6KEY MOU4.0
		IC402	0IMMRSG044A	"M24C08-WBN6(P),LF STM 8PIN PDIP ST SERIAL IIC EEPROM"
		IC601	0IPRPPH018A	"TDA4867J PHILIPS 9PIN,ST DIP VERTICAL OUTPUT IC"
		IC901	0ISS384300A	KA3843B 8P SDIP BK PWM CONTROLLER
		IC902-1	0IKE781200F	"KIA78L12BP(AT) 3P 12V,150MA - - -"
		IC903	0ISS780500F	KA7805 - - -
TRANSISTORS				
		Q201	0TR534309AA	2SC5343Y TP AUK - -
		Q551	0TR534309AA	2SC5343Y TP AUK - -
		Q552	0TRAU80029A	2SA1979(A1270) AUK KOREA R/TP TO92 - 40V -500MA
		Q553	0TRAU90005A	AUK KOREA 2SC5342-Y TP TO92 32V 500MA
		Q703	0TFFC10012A	FQPF10N20C FAIRCHILD ST TO220F 200V 9.5A
		Q704	0TR390409CA	FAIRCHILD 2N3904(TA) TP TO-92 60V 0.2A
		Q705	0TFFC90002A	IRFNL210B FAIRCHILD TP TO-92L 200V 1A
		Q706	0TRFC10012B	FJAF6820L FAIRCHILD ST TO3PF 1550V 20A/30A
		Q707	0TFFC00011B	"FQPF11N40C-YDTU (FORMING),LF FAIRCHILD ST TO-220FM 400V 10.5A A"
		Q710	0TRKE90020A	MPSA44 KEC TP TO92 500V 300MA
		Q712	0TFFC10012A	FQPF10N20C FAIRCHILD ST TO220F 200V 9.5A
		Q713	0TFFC10012A	FQPF10N20C FAIRCHILD ST TO220F 200V 9.5A
		Q714	0TR534309AA	2SC5343Y TP AUK - -
		Q715	0TR534309AA	2SC5343Y TP AUK - -
		Q716	0TR534309AA	2SC5343Y TP AUK - -
		Q717	0TR534309AA	2SC5343Y TP AUK - -
		Q718	0TRAU80035A	STD1862LAT(D3205) AUK KOREA R/TP TO-92L 30V 2A
		Q719	0TFFC10020A	FQPF16N25C FAIRCHILD STICK TO220F 250V 15.6A
		Q720	0TR390409CA	FAIRCHILD 2N3904(TA) TP TO-92 60V 0.2A
		Q721	0TFFC10012A	FQPF10N20C FAIRCHILD ST TO220F 200V 9.5A
		Q731	0TR534309AA	2SC5343Y TP AUK - -
		Q787	0TRAU80033A	2N5551AT(N5551) AUK KOREA R/TP TO92 180V 600MA
		Q799	0TRAU80036A	SPS92AT AUK KOREA R/TP TO92 -300V - 500MA
		Q821	0TR231609AA	KSC2316-Y TP SAMSUNG TO92L NPN
		Q901	0TFFC10010A	FQPF10N60CYDTU FAIRCHILD ST TO220F 650V 9.5A
		Q903	0TR534309AA	2SC5343Y TP AUK - -
		Q905	0DSON00148A	MCR100-6RLRAG ON SEMI R/TP TO-92L 400V 0.8A 10A -SEC - 10UA
		Q912	0TRAU80034A	STB1277LAT(B1273) AUK KOREA R/TP TO-92L -30V -2A
		Q914	0TR928009AB	KSA928A-Y TP SAMSUNG TO92L PNP

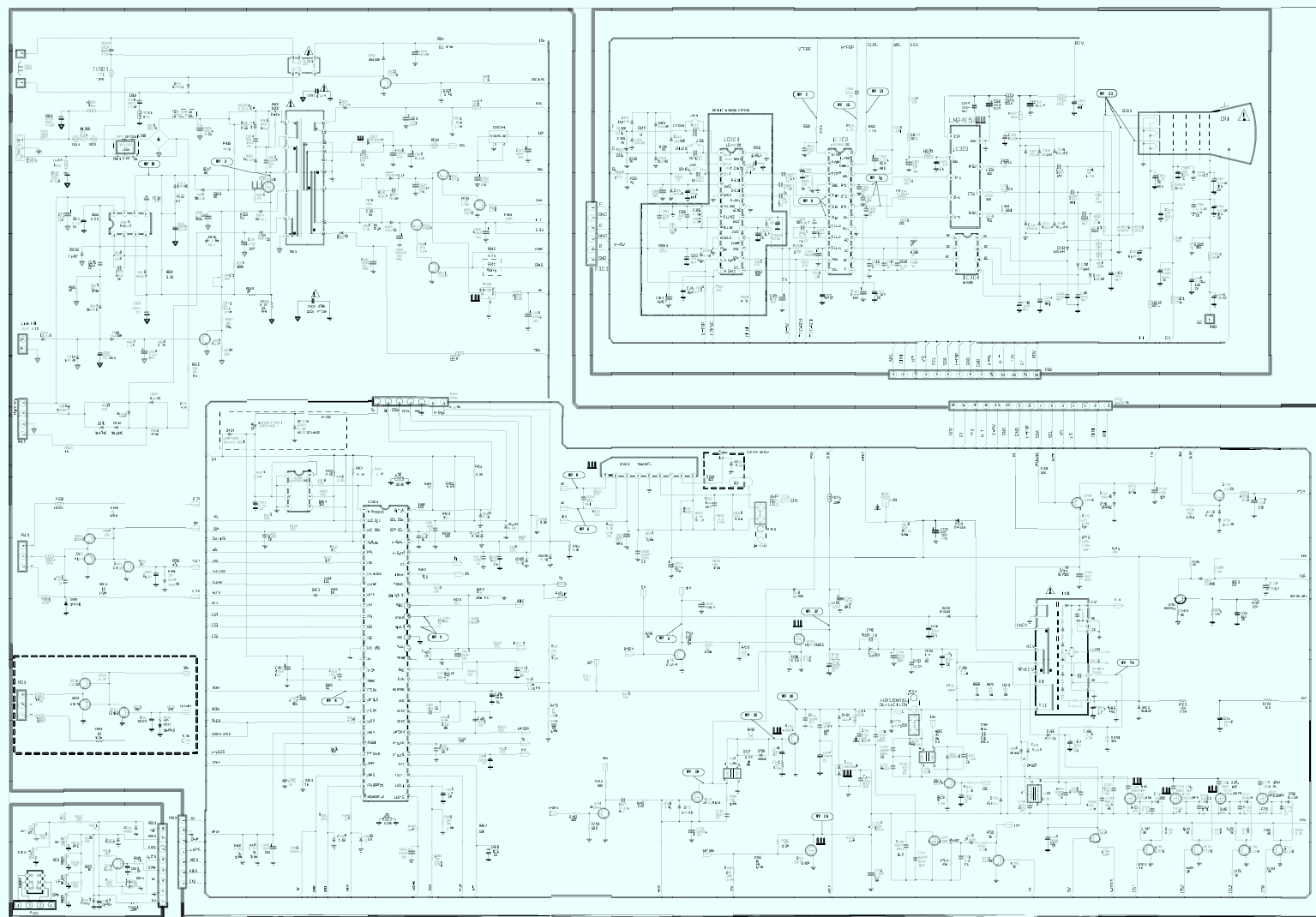
MODEL: T930BAKM				DATE:2005.12.10
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		Q941	0TR534309AA	2SC5343Y TP AUK --
		Q951	0TR534309AA	2SC5343Y TP AUK --
		Q953	0TR534309AA	2SC5343Y TP AUK --
RESISTORS				
		FB201	0RD0101Q609	1 1/4W(3 5% TA52
		FB303	0RD1000Q609	100 1/4W(3 5% TA52
		FB312	0RD1000Q609	100 1/4W(3 5% TA52
		R201	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52
		R202	0RD1600Q609	160 1/4W(3 5% TA52
		R203	0RD2200Q609	220 OHM 1/4 W(3.4) 5.00% TA52
		R204	0RD2200Q609	220 OHM 1/4 W(3.4) 5.00% TA52
		R205	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52
		R206	0RD1600Q609	160 1/4W(3 5% TA52
		R207	0RD5600Q609	560 1/4W(3 5% TA52
		R208	0RD3300Q609	330 OHM 1/4 W(3.4) 5.00% TA52
		R209	0RD3300Q609	330 OHM 1/4 W(3.4) 5.00% TA52
		R210	0RD3600Q609	360 1/4W(3 5% TA52
		R211	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R212	0RD5600Q609	560 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	6.2K OHM 1/6 W 1.00% 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 OHM 1/4 W(3.4) 5.00% TA52
		R328	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52
		R329	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52
		R331	0RD1000Q609	100 1/4W(3 5% TA52
		R332	0RD1000Q609	100 1/4W(3 5% TA52
		R333	0RD1000Q609	100 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	0RD3000Q609	300 1/4W(3 5% TA52
		R340	0RN1002F409	10K OHM 1/6 W 1.00% TA52
		R341	0RD0332A609	33 OHM 1/2 W(7.0) 5.00% TA52
		R342	0RD0332A609	33 OHM 1/2 W(7.0) 5.00% TA52
		R343	0RD0332A609	33 OHM 1/2 W(7.0) 5.00% TA52
		R344	0RD0332Q609	33 1/4W(3 5% TA52
		R345	0RD0332Q609	33 1/4W(3 5% TA52
		R346	0RD0332Q609	33 1/4W(3 5% TA52
		R347	0RD1200Q609	120 1/4W(3 5% TA52
		R401	0RD2200Q609	220 OHM 1/4 W(3.4) 5.00% 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
		R409	0RD1000Q609	100 1/4W(3 5% TA52
		R410	0RD1000Q609	100 1/4W(3 5% TA52
		R411	0RD1000Q609	100 1/4W(3 5% TA52
		R412	0RD0102Q609	10 1/4W(3 5% TA52
		R413	0RD1000Q609	100 1/4W(3 5% TA52
		R414	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R415	0RD1000Q609	100 1/4W(3 5% TA52
		R416	0RN3301F409	3.3K OHM 1/6 W 1.00% TA52
		R417	0RN2701F409	2.7K OHM 1/6 W 1.00% TA52
		R418	0RD1000Q609	100 1/4W(3 5% TA52
		R419	0RD1000Q609	100 1/4W(3 5% TA52
		R420	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52

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*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		R421	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R422	0RD2001Q609	2K OHM 1/4 W(3.4) 5.00% TA52
		R423	0RD1000Q609	100 1/4W(3 5% TA52
		R424	0RD1000Q609	100 1/4W(3 5% TA52
		R425	0RD1000Q609	100 1/4W(3 5% TA52
		R426	0RD1000Q609	100 1/4W(3 5% TA52
		R427	0RD1002Q609	10K OHM 1/4 W(3.4) 5.00% TA52
		R429	0RN2401F409	2.4K OHM 1/6 W 1.00% TA52
		R430	0RD1000Q609	100 1/4W(3 5% TA52
		R431	0RD1002Q609	10K OHM 1/4 W(3.4) 5.00% TA52
		R432	0RD1000Q609	100 1/4W(3 5% TA52
		R433	0RD1000Q609	100 1/4W(3 5% TA52
		R434	0RD7502Q609	75K OHM 1/4 W(3.4) 5.00% TA52
		R435	0RD1002Q609	10K OHM 1/4 W(3.4) 5.00% TA52
		R436	0RN3601F409	3.6K OHM 1/6 W 1.00% TA52
		R437	0RN2702G409	27K OHM 1/4 W 1.00% TA52
		R438	0RN2402F409	24K OHM 1/6 W 1.00% TA52
		R439	0RN1001F409	1K OHM 1/6 W 1.00% TA52
		R440	0RN5600F409	560 1/6W 1% TA52
		R442	0RN3901F409	3.9K OHM 1/6 W 1.00% TA52
		R443	0RD2200Q609	220 OHM 1/4 W(3.4) 5.00% TA52
		R444	0RD4700Q609	470 OHM 1/4 W(3.4) 5.00% TA52
		R445	0RD4700Q609	470 OHM 1/4 W(3.4) 5.00% TA52
		R449	0RN1002F409	10K OHM 1/6 W 1.00% TA52
		R450	0RN1203F409	120K OHM 1/6 W 1.00% TA52
		R451	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52
		R452	0RN1002F409	10K OHM 1/6 W 1.00% TA52
		R453	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R454	0RD2201Q609	2.20K 1/4W(3 5% TA52
		R455	0RD3600Q609	360 1/4W(3 5% TA52
		R456	0RD1000Q609	100 1/4W(3 5% TA52
		R457	0RD1801Q609	1.8K OHM 1/4 W(3.4) 5.00% TA52
		R458	0RD1801Q609	1.8K OHM 1/4 W(3.4) 5.00% TA52
		R490	0RD1000Q609	100 1/4W(3 5% TA52
		R494	0RD1000Q609	100 1/4W(3 5% TA52
		R495	0RD1000Q609	100 1/4W(3 5% TA52
		R501	0RD0102A609	10 OHM 1/2 W(7.0) 5.00% TA52
		R550	0RD4702Q609	47K OHM 1/4 W(3.4) 5.00% TA52
		R551	0RD1502Q609	15K 1/4W(3 5% TA52
		R552	0RD3902Q509	39K OHM 1/4 W(3.4) 2% TA52
		R554	0RD1202Q609	12K 1/4W(3 5% TA52
		R556	0RD0102A609	10 OHM 1/2 W(7.0) 5.00% TA52
		R601	0RD1000Q609	100 1/4W(3 5% TA52
		R602	0RD1000Q609	100 1/4W(3 5% TA52
		R603	0RN0220H609	0.22 1/2W 5% TA52
		R604	0RD0101A609	1 OHM 1/2 W(7.0) 5.00% TA52
		R605	0RD0331A609	3.3 OHM 1/2 W(7.0) 5.00% TA52
		R606	0RD1000A609	100 OHM 1/2 W(7.0) 5.00% TA52
		R607	0RN4301F409	4.3K OHM 1/6 W 1.00% TA52
		R608	0RD1600A609	160 OHM 1/2 W(7.0) 5.00% TA52
		R701	0RD6800Q609	680 1/4W(3 5% TA52
		R702	0RD6800Q609	680 1/4W(3 5% TA52
		R703	0RD1002A609	10K OHM 1/2 W(7.0) 5.00% TA52
		R704	0RD1002Q609	10K OHM 1/4 W(3.4) 5.00% TA52
		R706	0RN0102G609	10 1/4W 5 TA52
		R707	0RD3302A609	33K OHM 1/2 W(7.0) 5.00% TA52
		R708	0RD5600A609	560 OHM 1/2 W(7.0) 0.05 TA52
		R711	0RD7502Q609	75K OHM 1/4 W(3.4) 5.00% TA52
		R729	0RD3301Q609	3.30K 1/4W(3 5% TA52
		R730	0RMZTWD001N	PRZC-1 UNI-OHM 1.1OHM 5 W 5% RWR PD-TYPE
		R731	0RD4702Q609	47K OHM 1/4 W(3.4) 5.00% TA52
		R732	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52
		R734	0RN0390J607	0.39 1W 5% TA62
		R735	0RD1002Q609	10K OHM 1/4 W(3.4) 5.00% TA52

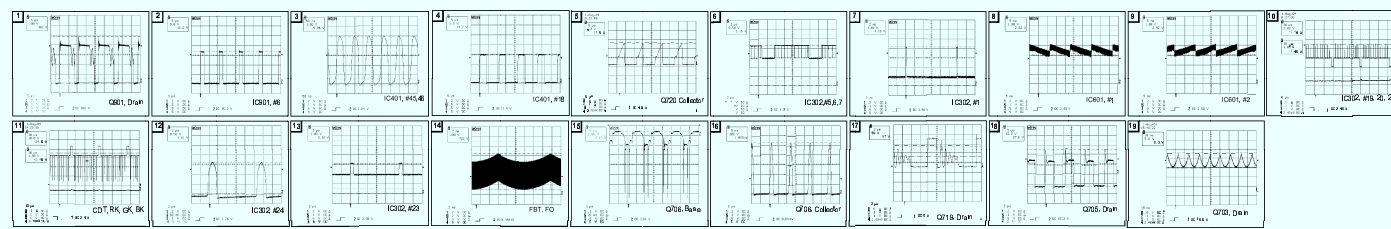
MODEL: T930BAKM					DATE:2005.12.10				
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON					
		R736	0RX2201K665	2200 OHM 2 W 5% SF					
		R737	0RN0560H609	0.56 OHM 1/2 W 5.00% TA52					
		R738	0RN0560H609	0.56 OHM 1/2 W 5.00% TA52					
		R739	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52					
		R740	0RD0332A609	33 OHM 1/2 W(7.0) 5.00% TA52					
		R743	0RD2000Q609	200 1/4W(3 5% TA52					
		R744	0RX2000K607	200 OHM 2 W 5.00% TA62					
		R745	0RD4702Q609	47K OHM 1/4 W(3.4) 5.00% TA52					
		R746	0RD2201Q609	2.20K 1/4W(3 5% TA52					
		R747	0RD3001Q609	3K 1/4W(3 5% TA52					
		R748	0RD4702Q609	47K OHM 1/4 W(3.4) 5.00% TA52					
		R749	0RD2201Q609	2.20K 1/4W(3 5% TA52					
		R750	0RD3001Q609	3K 1/4W(3 5% TA52					
		R751	0RD0222A609	22 OHM 1/2 W(7.0) 5.00% TA52					
		R752	0RD2201Q609	2.20K 1/4W(3 5% TA52					
		R753	0RD3001Q609	3K 1/4W(3 5% TA52					
		R754	0RX6800K607	680 OHM 2 W 5% TA62					
		R755	0RD3001Q609	3K 1/4W(3 5% TA52					
		R756	0RD2202A609	22K OHM 1/2 W(7.0) 5.00% TA52					
		R758	0RD2201Q609	2.20K 1/4W(3 5% TA52					
		R761	0RD3001Q609	3K 1/4W(3 5% TA52					
		R762	0RD3001Q609	3K 1/4W(3 5% TA52					
		R763	0RD3001Q609	3K 1/4W(3 5% TA52					
		R764	0RD3001Q609	3K 1/4W(3 5% TA52					
		R765	0RD1000A609	100 OHM 1/2 W(7.0) 5.00% TA52					
		R768	0RD4303A609	430K OHM 1/2 W(7.0) 5.00% TA52					
		R771	0RD1101A609	1.1K OHM 1/2 W(7.0) 5.00% TA52					
		R772	0RN2702F409	27K OHM 1/6 W 1.00% TA52					
		R773	0RN1303H409	130K OHM 1/2 W 1% TA52					
		R775	0RD4702Q609	47K OHM 1/4 W(3.4) 5.00% TA52					
		R780	0RD2202Q609	22K 1/4W(3 5% TA52					
		R781	0RD2001Q609	2K OHM 1/4 W(3.4) 5.00% TA52					
		R782	0RD3301A609	3.3K OHM 1/2 W(7.0) 5.00% TA52					
		R785	0RD0471A609	4.7 OHM 1/2 W(7.0) 5.00% TA52					
		R788	0RD4702Q609	47K OHM 1/4 W(3.4) 5.00% TA52					
		R790	0RD3001Q609	3K 1/4W(3 5% TA52					
		R791	0RD3001Q609	3K 1/4W(3 5% TA52					
		R792	0RD2201Q609	2.20K 1/4W(3 5% TA52					
		R793	0RD4702Q609	47K OHM 1/4 W(3.4) 5.00% TA52					
		R794	0RD4702Q609	47K OHM 1/4 W(3.4) 5.00% TA52					
		R799	0RD1502Q609	15K 1/4W(3 5% TA52					
		R803	0RD2001Q609	2K OHM 1/4 W(3.4) 5.00% TA52					
		R809	0RX0151L665	1.5 OHM 3 W 5% SF					
		R818	0RN6202F409	62K OHM 1/6 W 1.00% TA52					
		R822	0RD0122A609	12 OHM 1/2 W(7.0) 5.00% TA52					
		R823	0RX0432K665	43OHM 2 W 5% SF					
		R869	0RX0332K665	33 OHM 2 W 5% SF					
		R870	0RX0332K607	33 OHM 2 W 5% TA62					
		R871	0RX0332K607	33 OHM 2 W 5% TA62					
		R872	0RD2401Q609	2.40K 1/4W(3 5% TA52					
		R902	0RD0102Q609	10 1/4W(3 5% TA52					
		R903	0RD0512Q609	51 1/4W(3 5% TA52					
		R905	0RX7502K607	75K OHM 2 W 5.00% TA62					
		R906	0RX7502K607	75K OHM 2 W 5.00% TA62					
		R907	0RN1800F409	180 OHM 1/6 W 1.00% TA52					
		R908	0RN0220H609	0.22 1/2W 5% TA52					
		R909	0RD1002Q609	10K OHM 1/4 W(3.4) 5.00% TA52					
		R910	0RN1602F409	16K 1/6W 1% TA52					
		R911	0RN2001F409	2K OHM 1/6 W 1.00% TA52					
		R912	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52					
		R913	0RB0120K607	0.12 OHM 2 W 5% TA62					
		R914	0RD6800Q609	680 1/4W(3 5% TA52					
		R915	0RD3903A609	390K OHM 1/2 W(7.0) 5.00% TA52					
		R916	0RD3603A609	360K OHM 1/2 W(7.0) 5.00% TA52					
		R917	0RD0622Q609	62 OHM 1/4 W(3.4) 5.00% TA52					

MODEL: T930BAKM				DATE:2005.12.10
*S	*AL	LOC NO.	PART NO.	DESCRIPTION/SPECIFICATON
		R918	0RD1003Q609	100K 1/4W(3 5% TA52
		R920	0RD0392Q609	39 1/4W(3 5% TA52
		R921	0RD0332Q609	33 1/4W(3 5% TA52
		R922	0RD5601Q609	5.6K OHM 1/4 W(3.4) 5.00% TA52
		R923	0RD1001Q609	1K OHM 1/4 W(3.4) 5.00% TA52
		R924	0RD4703Q609	470K 1/4W(3 5% TA52
		R925	0RD1501Q609	1.50K 1/4W(3 5% TA52
		R926	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R929	0RN0220H609	0.22 1/2W 5% TA52
		R930	0RN0220H609	0.22 1/2W 5% TA52
		R931	0RD1000Q609	100 1/4W(3 5% TA52
		R933	0RD0472Q609	47 1/4W(3 5% TA52
		R934	0RD3302Q609	33K 1/4W(3 5% TA52
		R935	0RD3301Q609	3.30K 1/4W(3 5% TA52
		R936	0RX3902K665	39K OHM 2 W 5% SF
		R941	0RD6802A609	68K OHM 1/2 W(7.0) 5.00% TA52
		R944	0RD4700A609	470 OHM 1/2 W(7.0) 5.00% TA52
		R946	0RD4701Q609	4.70K 1/4W(3 5% TA52
		R949	0RN0220H609	0.22 1/2W 5% TA52
		R953	0RD1101A609	1.1K OHM 1/2 W(7.0) 5.00% TA52
	R954	0RD4701Q609	4.70K 1/4W(3 5% TA52	
	R955	0RD5101Q609	5.10K 1/4W(3 5% TA52	
	R957	0RD0512Q609	51 1/4W(3 5% TA52	
	R991	0RD5101Q609	5.10K 1/4W(3 5% 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
		P902	366-164A	YW396-03AV YEONHO 3P 3.96MM S/T
⚠		RL901	6920TBB007A	JZC-42012-2HS HONGMEI 250VAC 5A 12V
				2A NO VENTING
⚠		SC301	6620TBD003A	PCS701E PARK ELEC. 10PIN 14/360
				STRAIGHT
⚠		SC901	6200TJB001G	02MD3P DELTA BK CB777F
		SG301	6918TAT008A	WS020 (200V) JINTAN CHENHUI AXIAL
				TAPING
		SG302	6918TAT008A	WS020 (200V) JINTAN CHENHUI AXIAL
				TAPING
		SG303	6918TAT008A	WS020 (200V) JINTAN CHENHUI AXIAL
				TAPING
		SG305	6918TRT004B	SG5-152-CB Y&Y UNICTRON RADIAL
				TAPING
		SG701	6918TRT004B	SG5-152-CB Y&Y UNICTRON RADIAL
				TAPING
		SW201	6600R00001A	"JTP1280F6 JEIL 12V DC 1MA
				VERTICAL,7MM"
		SW202	6600R00001A	"JTP1280F6 JEIL 12V DC 1MA
				VERTICAL,7MM"
		SW203	6600R00001A	"JTP1280F6 JEIL 12V DC 1MA
				VERTICAL,7MM"
		SW204	6600R00001A	"JTP1280F6 JEIL 12V DC 1MA
				VERTICAL,7MM"
		SW205	6600R00001A	"JTP1280F6 JEIL 12V DC 1MA
				VERTICAL,7MM"
		SW206	6600R00001A	"JTP1280F6 JEIL 12V DC 1MA
				VERTICAL,7MM"
		SW207	6600M000051	JPS 2225B NAMEAE 30VDC 0.1A COVER
				GRAY
		SW801	140-079D	"JLS1301 JEIL 36V 200MA LEVER
				S/W,JEIL"
		T702	6170TCZ013B	EI2218 26UH D/FOCUS F700PL
	T703	6170TCZ008A	EE2218 1.3MH FB995C	

SCHEMATIC DIAGRAM



THE SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INDICATES SPECIAL FEATURES (IMPORTANT FOR PROTECTION FROM FALSIFICATION, FURTHER AND CLERICAL CHECKING). WHEN EXAMINING IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE ELECTRICAL COMPONENTS IN THE SYMBOL MARK OF THE SCHEMATIC DIAGRAM. COMPANY CONFIDENTIAL DO NOT COPY!
 DATE 2004.12.16 REV 01
 MODEL T3302V/T3302VAM 9-pct 1/1024

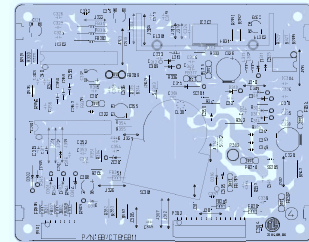
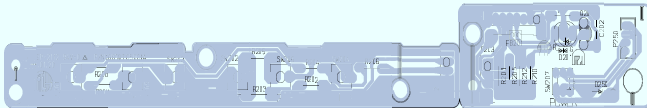


PRINTED CIRCUIT BOARD

1. CONTROL BOARD (Component Side)

2. CONTROL BOARD (Solder Side)

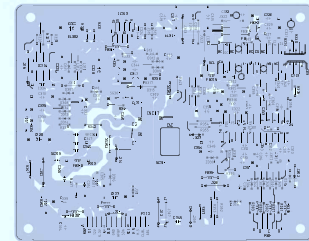
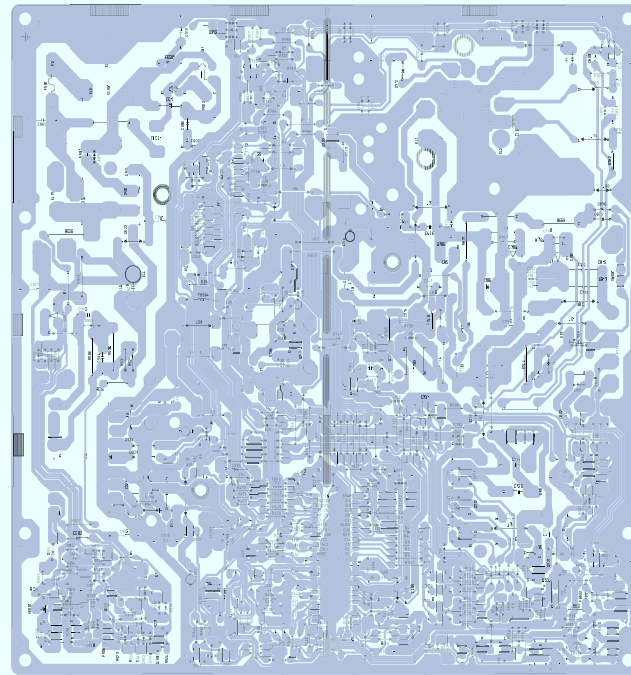
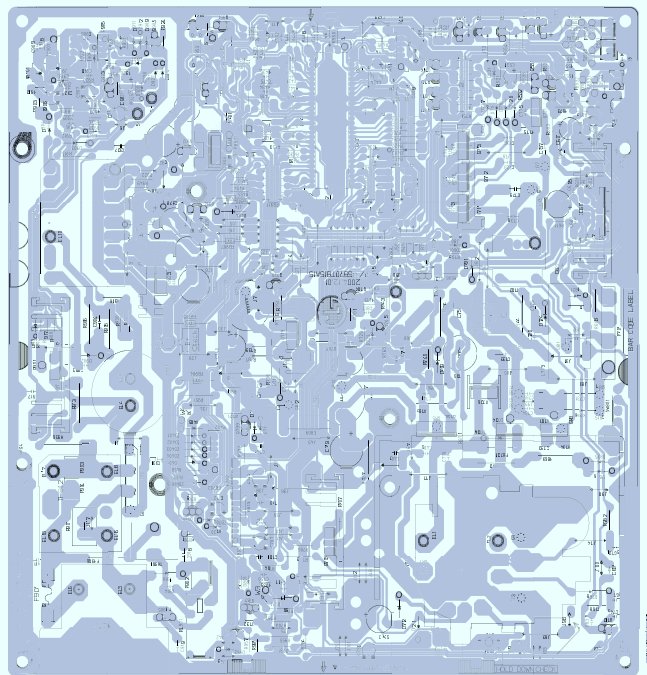
5.VIDEO BOARD(component side)



3. MAIN BOARD (Component Side)

4. MAIN BOARD (Solder Side)

6.VIDEO BOARD(solder side)





P/NO : 38289S0019T

Dec. 2005
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