

COLOR MONITOR SERVICE MANUAL

CHASSIS NO.: CL-82

MODEL: FLATRON L1750SQ-SN (L1750SQ-SNN.AN**QP)

FLATRON L1750SQ-BN (L1750SQ-BNN.AN**QP)

FLATRONL1750SQ-WN (L1750SQ-WNN.AN**QP)

() **Same model for Service

CAUTION

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



*To apply the MSTAR Chip.

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SPECIFICATIONS

1. LCD CHARACTERISTICS

Type : TFT Color LCD Module

Active Display Area : 17 inch

Size : 358.5(W) x 296.5(H) x 17.0(D)

Pixel Pitch : 0.264 (H) x 0.264 (V)

Color Depth : 16.2M colors

Electrical Interface : LVDS

Surface Treatment : Hard-coating(3H), Anti-Glare
Operating Mode : Normally White, Transmissive mode

Backlight Unit : 4-CCFL

2. OPTICAL CHARACTERISTICS

2-1. Viewing Angle by Contrast Ratio ≥ 10

Left: -60°min., -70°(Typ) Right : +60°min., +70°(Typ) Top:+45°min., +60°(Typ) Bottom: -50°min., -60°(Typ)

2-2. Luminance : 185(min), 250(Typ)

2-3. Contrast Ratio : 300(min), 450(Typ)

3. SIGNAL (Refer to the Timing Chart)

3-1. Sync Signal

• Type : Separate Sync, SOG, composite.

3-2. Video Input Signal

1) Type : R, G, B Analog 2) Voltage Level : 0~0.71 V a) Color 0, 0 : 0 Vp-p b) Color 7, 0 : 0.467 Vp-p c) Color 15, 0 : 0.714 Vp-p 3) Input Impedance : 75 Ω

3-3. Operating Frequency

Horizontal : 30 ~ 83kHz Vertical : 56 ~ 75Hz

4. Max. Resolution

D-sub Analog : 1280 x 1024@75Hz

5. POWER SUPPLY

5-1. Power: AC 100~240V, 50/60Hz, 1.0A

5-2. Power Consumption

MODE	H/V SYNC	VIDEO	POWER CONSUMPTION	LED COLOR
POWER ON (NORMAL)	ON/ON	ACTIVE	less than 35 W	GREEN
STAND-BY	OFF/ON	OFF	less than 1 W	AMBER
SUSPEND	ON/OFF	OFF	less than 1 W	AMBER
DPMS OFF	OFF/OFF	OFF	less than 1 W	AMBER

6. ENVIRONMENT

6-1. Operating Temperature : 10°C~35°C 6-2. Relative Humidity : 10%~80%

6-3. MTBF : 50,000 HRS with 90%

Confidence level

Lamp Life : 50,000 Hours(Min)

7. DIMENSIONS (with TILT/SWIVEL)

 Width
 : 368 mm (14.49")

 Depth
 : 230.5 mm (9.07")

 Height
 : 389.2 mm (15.32")

8. WEIGHT (with TILT/SWIVEL)

Net. Weight : 4.9 kg (10.80 lbs) Gross Weight : 6.5 kg (14.33 lbs)

PRECAUTION

WARNING FOR THE SAFETY-RELATED COMPONENT.

- There are some special components used in LCD monitor that are important for safety. These parts are marked A 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 electric shock, fire or other hazard.
- Do not modify original design without obtaining written permission from manufacturer or you will void the original parts and labor guarantee.

TAKE CARE DURING HANDLING THE LCD MODULE WITH BACKLIGHT UNIT.

- Must mount the module using mounting holes arranged in four corners.
- Do not press on the panel, edge of the frame strongly or electric shock as this will result in damage to the screen.
- Do not scratch or press on the panel with any sharp objects, such as pencil or pen as this may result in damage to the panel.
- Protect the module from the ESD as it may damage the electronic circuit (C-MOS).
- Make certain that treatment person's body are grounded through wrist band.
- Do not leave the module in high temperature and in areas of high humidity for a long time.
- The module not be exposed to the direct sunlight.
- Avoid contact with water as it may a short circuit within the module.
- If the surface of panel become dirty, please wipe it off with a softmaterial. (Cleaning with a dirty or rough cloth may damage the panel.)

⚠ CAUTION

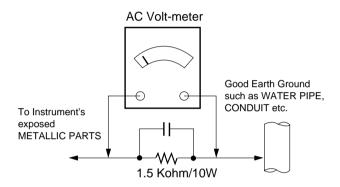
Please use only a plastic screwdriver to protect yourself from shock hazard during service operation.

↑ WARNING

BE CAREFUL ELECTRIC SHOCK!

- If you want to replace with the new backlight (CCFL) or inverter circuit, must disconnect the AC adapter because high voltage appears at inverter circuit about 650Vrms.
- Handle with care wires or connectors of the inverter circuit. If the wires are pressed cause short and may burn or take fire.

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

- 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.
- 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 in not required.

- Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
- 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.

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.
- 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.
- 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.
- 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).
- 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 or 500° F to 600° F.
- 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.
- Thoroughly clean the surfaces to be soldered. Use a mall 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.
 - Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
 - **CAUTION:** Work quickly to avoid overheating the circuitboard printed foil.
- 6. Use the following soldering technique.
 - a. Allow the soldering iron tip to reach a normal temperature (500° F to 600° F)
 - b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
 - c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
 - **CAUTION:** Work quickly to avoid overheating the circuit board printed foil.
 - d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

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

Removal

- 1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
- 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.
- 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.
- 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

- Heat and remove all solder from around the transistor leads.
- 2. Remove the heat sink mounting screw (if so equipped).
- 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.
- 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.
- 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

- 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).
- carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
- 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

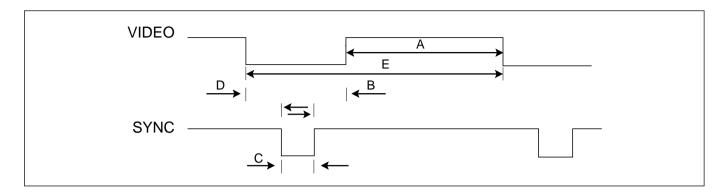
Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

- 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.
- Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.

Carefully crimp and solder the connections.

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

TIMING CHART



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

MODE	Section	Polarity	Dot Clock	Frequency	Total Period (E)	Display (A)	Front Porch (D)	Sync.	Back Porch (B)	Resolution
1	H(Pixels)	+	25.175	31.469	800	640	16	96	48	640 x 350
	V(Lines)	-		70.09	449	350	37	2	60	1
2	H(Pixels)	-	28.321	31.468	900	720	18	108	54	720 X 400
	V(Lines)	+		70.08	449	400	12	2	35	
3	H(Pixels)	-	25.175	31.469	800	640	16	96	48	640 x 480
	V(Lines)	-		59.94	525	480	10	2	33	1
4	H(Pixels)	-	31.5	37.5	840	640	16	64	120	640 x 480
	V(Lines)	-		75	500	480	1	3	16	1
5	H(Pixels)	+	40.0	37.879	1056	800	40	128	88	800 x 600
	V(Lines)	+		60.317	628	600	1	4	23	1
6	H(Pixels)	+	49.5	46.875	1056	800	16	80	160	800 x 600
	V(Lines)	+		75.0	625	600	1	3	21	
7	H(Pixels)	+/-	57.283	49.725	1152	832	32	64	224	832 x 624
	V(Lines)	+/-		74.55	667	624	1	3	39	1
8	H(Pixels)	-	65.0	48.363	1344	1024	24	136	160	1024 x 768
	V(Lines)	-		60.0	806	768	3	6	29	
9	H(Pixels)	-	78.75	60.123	1312	1024	16	96	176	1024 x 768
	V(Lines)	-		75.029	800	768	1	3	28	1
10	H(Pixels)	+/-	100.0	68.681	1456	1152	32	128	144	1152 x 870
	V(Lines)	+/-		75.062	915	870	3	3	39	1
11	H(Pixels)	+/-	92.978	61.805	1504	1152	18	134	200	1152 x 900
	V(Lines)	+/-		65.96	937	900	2	4	31	
12	H(Pixels)	+	108.0	63.981	1688	1280	48	112	248	1280 x 1024
	V(Lines)	+		60.02	1066	1024	1	3	38	1
13	H(Pixels)	+	135.0	79.976	1688	1280	16	144	248	1280 x 1024
	V(Lines)	+		75.035	1066	1024	1	3	38	1

DISASSEMBLY

1



Disassembly Hinge Cover.

2



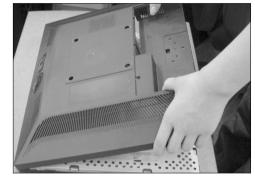
Remove the screws.

#3



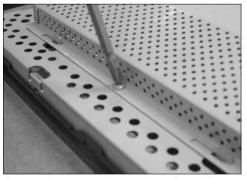
- Pull the front cover upward.
 Then, let the all latches are separated.
 Put the front face down.

#4



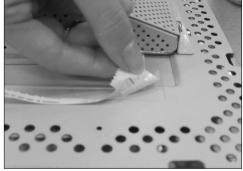
Disassemble back cover.

5



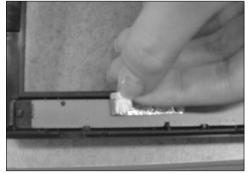
Remove the 6 screws from each up of metal frame.

#6



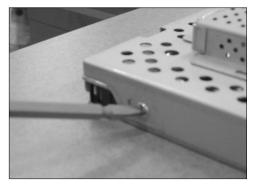
Pell off Al-tape from panel.

#7



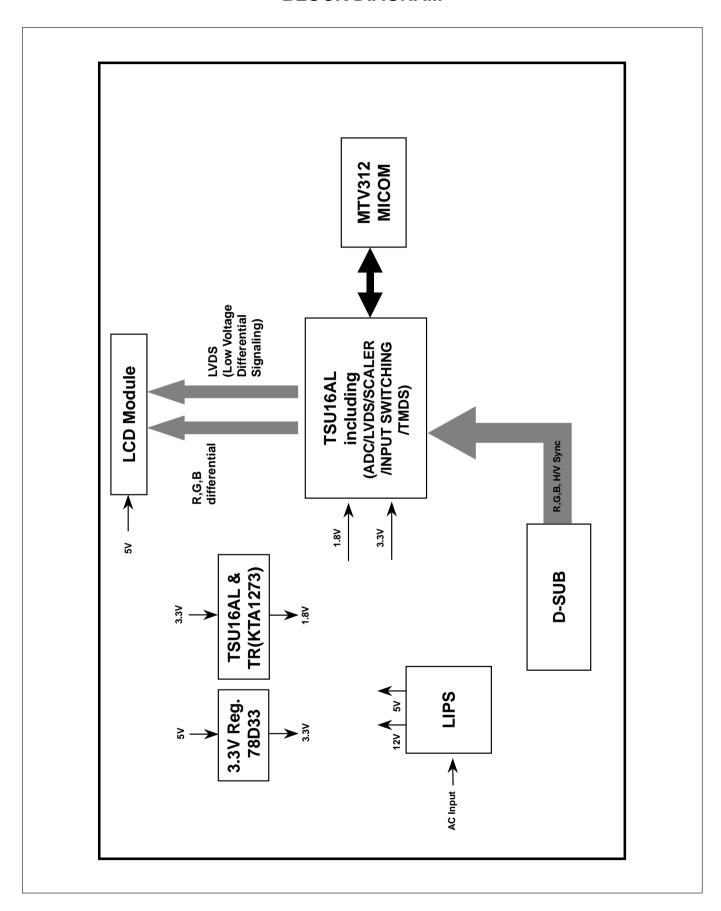
Remove Al-tape from control pcb fix.

#8



Remove the 4 screws from each side of metal frame.

BLOCK DIAGRAM



DESCRIPTION OF BLOCK DIAGRAM

1. Video Controller Part.

This part amplifies the level of video signal for the digital conversion and converts from the analog video signal to the digital video signal using a pixel clock.

The pixel clock for each mode is generated by the PLL.

The range of the pixel clock is from 25MHz to 135MHz.

This part consists of the Scaler, ADC convertor and LVDS transmitter.

The Scaler gets the video signal converted analog to digital, interpolates input to 1280 X 1024 resolution signal and outputs 8-bit R, G, B signal to transmitter.

2. Power Part.

This part consists of the one 3.3V, and one 1.8V regulators to convert power which is provided 5V in Power board. 12V is provided for inverter, 12V is provided for LCD panel and 5V for micom.

Also, 5V is converted 3.3V and 1.8V by regulator. Converted power is provided for IC in the main board.

The inverter converts from DC12V to AC 700Vrms and operates back-light lamps of module.

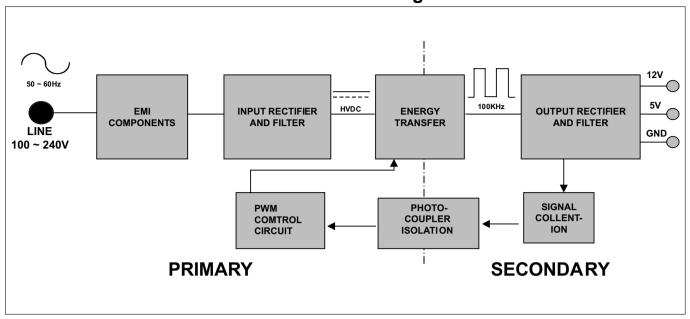
3. MICOM Part.

This part is include video controller part. And this part consists of EEPROM IC which stores control data, Reset IC and the Micom.

The Micom distinguishes polarity and frequency of the H/V sync are supplied from signal cable.

The controlled data of each modes is stored in EEPROM.

LIPS Board Block Diagram



Operation description_LIPS

1. EMI components.

This part contains of EMI components to comply with global marketing EMI standards like FCC, VCCI CISPR, the circuit included a line-filter, across line capacitor and of course the primary protection fuse.

2. Input rectifier and filter.

This part function is for transfer the input AC voltage to a DC voltage through a bridge rectifier and a bulk capacitor.

3. Energy Transfer.

This part function is transfer the primary energy to secondary through a power transformer.

4. Output rectifier and filter.

This part function is to make a pulse width modulation control and to provide the driver signal to power switch, to adjust the duty cycle during different AC input and output loading condition to achive the dc output stablize, and also the over power protection is also monitor by this part.

5. Photo-Coupler isolation.

This part function is to feed back the dc output changing status through a photo transistor to primary controller to achieve the stabilized dc output voltage.

6. Signal collection.

This part function is to collect the any change from the dc output and feed back to the primary through photo transistor.

ADJUSTMENT

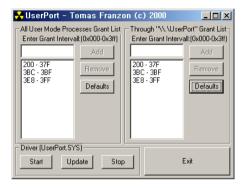
Windows EDID V1.0 User Manual

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

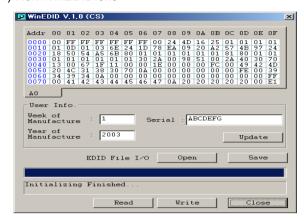


- c) Remove all default number
- d) Add 300-3FF

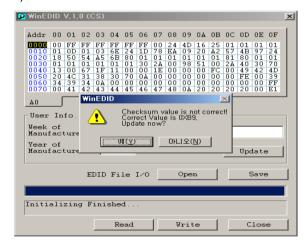


- e) Click Start button.
- f) Click Exit button.

- 2. EDID Read & Write
 - 1) Run WinEDID.exe



- Edit Week of Manufacture, Year of Manufacture, Serial Number
 - a) Input User Info Data
 - b) Click "Update" button
 - c) Click "Write" button



SERVICE OSD

- 1) Turn off the power switch at the front side of the display.
- 2) Wait for about 5 seconds and press MENU, POWER switch with 1 second interval.
- 3) The SVC OSD menu contains additional menus that the User OSD menu as described below.
- a) Auto Color: W/B balance and Automatically sets the gain and offset value.
- b) NVRAM INIT: EEPROM initialize.(24C08)
- c) CLEAR ETI: To initialize using time.
- d) AGING: Select Aging mode(on/off).
- e) R/G/B-9300K: Allows you to set the R/G/B-9300K value manually.
- f) R/G/B-6500K : Allows you to set the R/G/B-6500K value manually.
- g) R/G/B-Offset: Allows you to set the R/G/B-Offset value manually.(Analog Only)
- h) R/G/B-Gain: Allows you to set the R/G/B-Gain value manually.(Analog Only)
- i) MODULE: To select applied module.

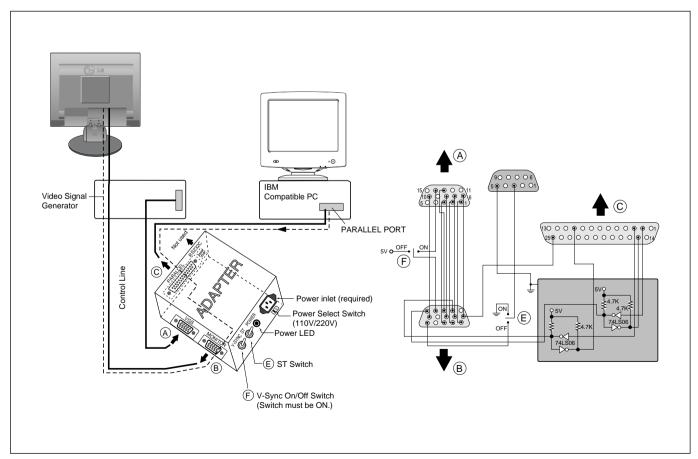
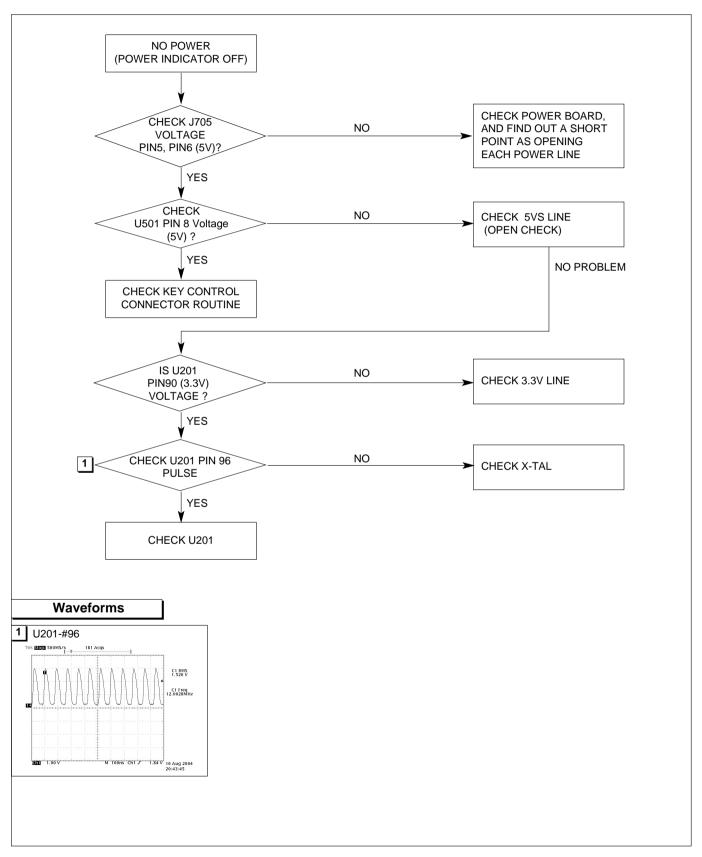


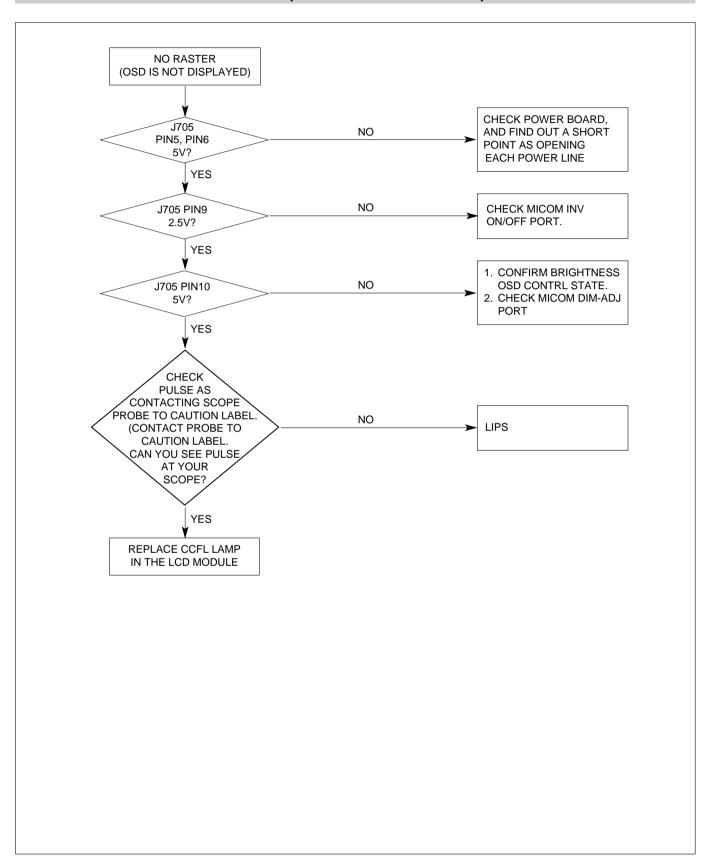
Figure 1. Cable Connection

TROUBLESHOOTING GUIDE

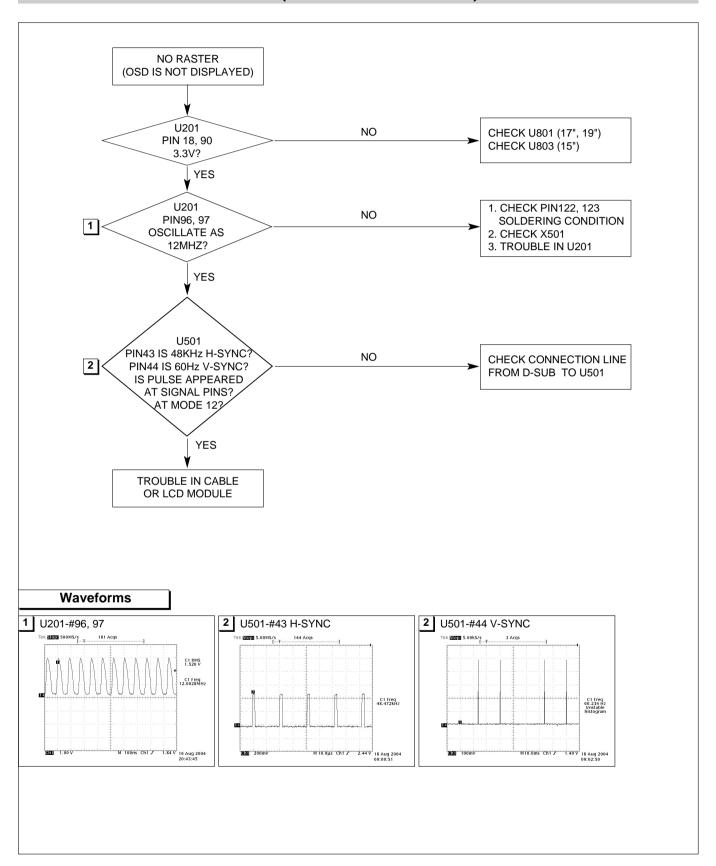
1. NO POWER



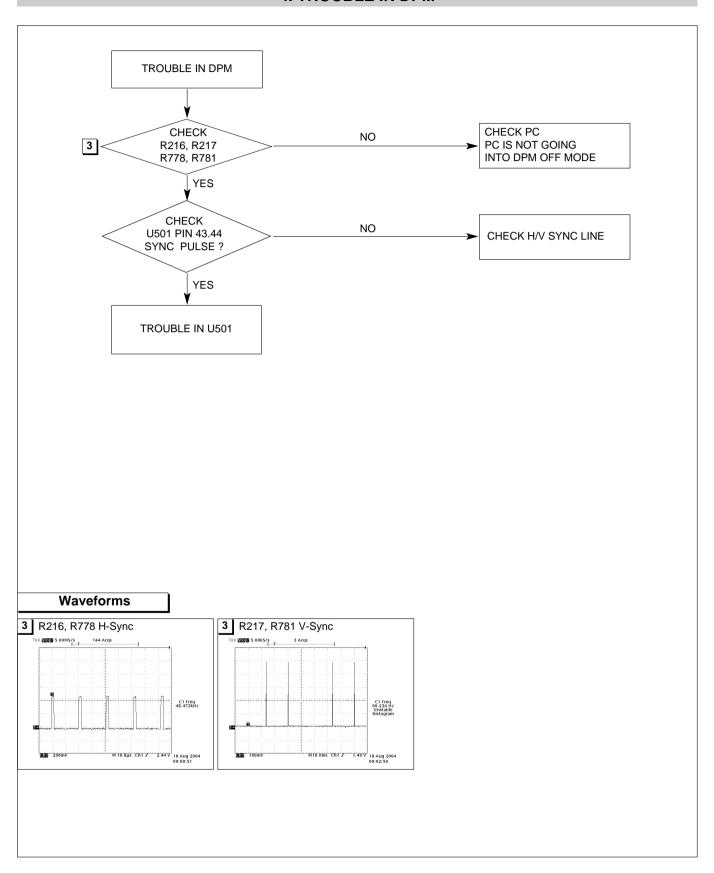
2. NO RASTER (OSD IS NOT DISPLAYED) - LIPS



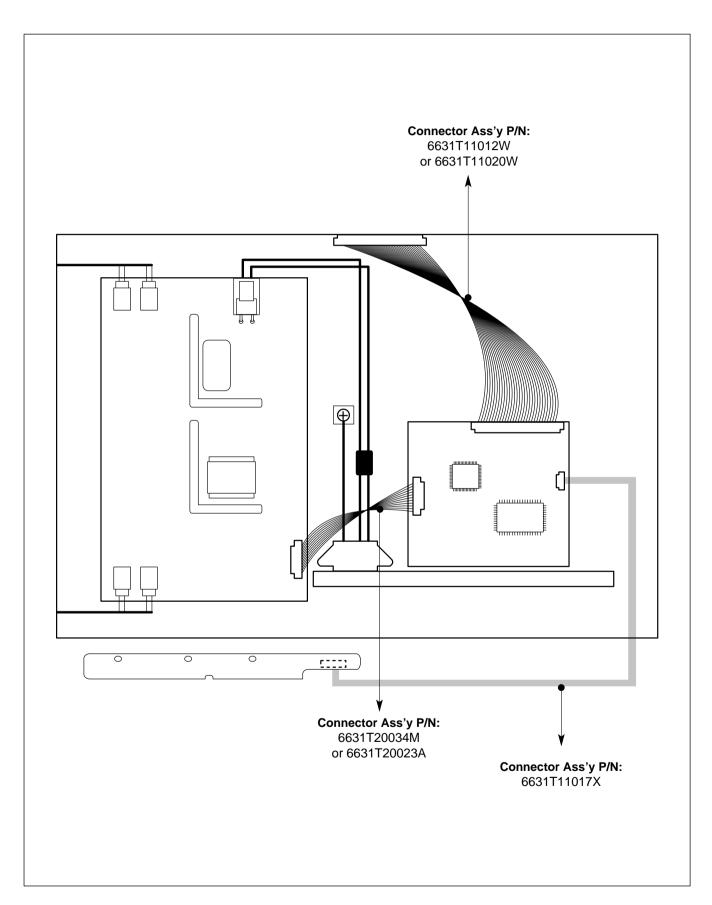
3. NO RASTER (OSD IS NOT DISPLAYED) - MSTAR



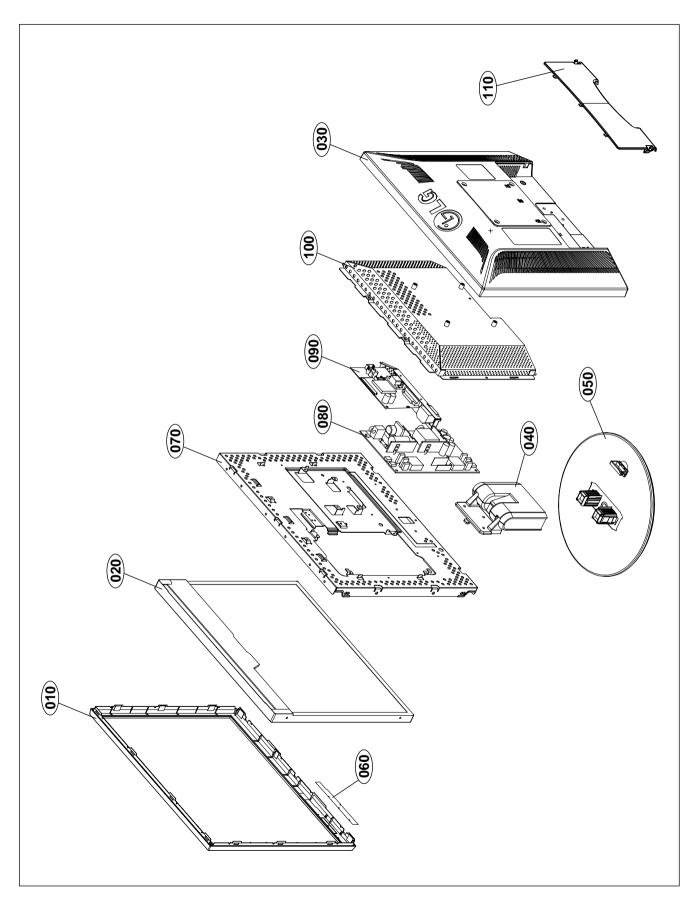
4. TROUBLE IN DPM



WIRING DIAGRAM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Ref. No.	Part No.	Description
010	3091TKL168C	CABINET ASSEMBLY, L1750SQ BRAND L122 SILVER ABS350 89483 TCO03 8MS
	3091TKL168T	CABINET ASSEMBLY, L1750SQ BRAND L122 SILVER ABS TCO03 8MS LIFE GOOD AU-Austrailia
•	3091TKL181A	CABINET ASSEMBLY, L1750SQ BRAND L122 SILVER ABS TCO03+8MS CHINA VER-C/SKD
-	3091TKL168E	CABINET ASSEMBLY, L1750SQ BRAND L122 BLACK ABS350 9930 TCO99 8MS
	3091TKL168X	CABINET ASSEMBLY, L1750SQ BRAND L122 WHITE ABS TCO03 8MS JP-VER
020	6304FLP200A	LCD(LIQUID CRYSTAL DISPLAY), LM170E01-A6K4 LG PHILPS TFT COLOR 8MS,LPL NJ/KUMI,PB FREE,EGI,TI S D-IC,SXGA,LVDS
	or 6304FLP199A	LCD(LIQUID CRYSTAL DISPLAY), LM170E01-A6K3 LG PHILPS TFT COLOR 8MS,LPL NJ/KUMI,PB FREE,EGI,SS S D-IC,EGI,250NITS,SXGA,LVDS
030	3809TKL100A	BACK COVER ASSEMBLY, L1750S L100 ABS350 9930(BK)-SILVER,BLACK
	3809TKL100J	BACK COVER ASSEMBLY, L1750S L100 ABS 8B656(WHITE) ANALOGUE JP-VER
040	3043TKK227A	TILT SWIVEL ASSEMBLY, L1750S - TILT STAND BODY-SILVER,BLACK
•	3043TKK227E	TILT SWIVEL ASSEMBLY, L1750S - TILT STAND BODY NT-LOCAL-SILVER
	3043TKK227L	TILT SWIVEL ASSEMBLY, L1750S - TILT STAND BODY JP-VER-WHITE
050	3043TKK228A	TILT SWIVEL ASSEMBLY, L1750S - TILT STAND BASE-SILVER,BLACK
1	3043TKK228C	TILT SWIVEL ASSEMBLY, LX 50S - TILT STAND BASE NT LOCAL-SILVER
	3043TKK228F	TILT SWIVEL ASSEMBLY, LX 50S - TILT STAND BASE WHITE COLOR-JP-VER
060	6871TST798A	PWB(PCB) ASSEMBLY,SUB, L1750 CONTROL TOTAL BRAND KEY
	6871TST798B	PWB(PCB) ASSEMBLY,SUB, L1750 CONTROL TOTAL BRAND NT C/SKD
070	4951TKS199A	METAL ASSEMBLY, FRAME MAIN L1750 LPL-A5 KUMI
080	6871TPT282C	PWB(PCB) ASSEMBLY,POWER, M-CHASSIS 1720 DOCKING,2PIN,450V POWER TOTAL LIEN CHANG PB FREE
090	3313TL7100A	MAIN TOTAL ASSEMBLY, L1750SN TSU16AL - LPL BRAND CL-82-SILVER
	3313TL7100D	MAIN TOTAL ASSEMBLY, L1750SN.KNCNEPT BRAND CL-82 LF-C/SKD
	3313TL7100B	MAIN TOTAL ASSEMBLY, L1750SN TSU16AL LPL BRAND 4-LANGUAGE CL-82-BLACK,WHITE
100	4951TKS203A	METAL ASSEMBLY, REAR SHIELD LX50 KUMI
110	3550TKK740A	COVER, L1750 BACK DOOR BRAND-SILVER,BLACK
	3550TKK740C	COVER, L1750 BACK DOOR BRAND WHITE JP-VER

REPLACEMENT PARTS LIST

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

* NOTE : S SAFETY Mark A

AL ALTERNATIVE PARTS

*0	*AL 1.00 NO	DARTNO	DATE: 2005. 03. 15.
*S	*AL LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
	MAIN BOA		
	CAPACITO	iks -	
	C204	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
	C205	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
	C206	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
	C207	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
	C211	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C213	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C214	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C215	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C216	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C217	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C218	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C219	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C220	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C221	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C222	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C223	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C224	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C225	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C226	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C230	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
	C231	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
	C232	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
	C233	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
	C240	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
	C251	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C503	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C504	0CH8106F611	10UF 16V M 85STD(CYL) R/TP
	C506	0CC030CK01A	3PF 1608 50V 0.25 PF R/TP NP
	C507	0CC180CK41A	18PF 1608 50V 5% R/TP NP0
	C508	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C701	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
	C707	0CC680CK41A	68PF 1608 50V 5% R/TP NP0
	C708	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C709	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
	C717	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
	C718	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
	C727	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
	C732	0CK103CK51A 0CK104CK56A	0.01UF 1608 50V 10% R/TP B(Y 0.1UF 1608 50V 10% R/TP X7R
	C734	0CK104CK56A 0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R 0.1UF 1608 50V 10% R/TP X7R
	C735 C744	0CC680CK41A	68PF 1608 50V 5% R/TP NP0
	C803	0CE107EF610	"100UF KMG,RD 16V 20% FL BULK"
	C805	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
	C809	0CK104CK50A	0.01UF 1608 50V 10% R/TP B(Y
	C812	0CE107EF610	"100UF KMG,RD 16V 20% FL BULK"
	C814	0CE107EF610	"1000F KMG,RD 16V 20% FL BULK"
	C819	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
	DIODEs		
	D701	0DS226009AA	KDS226 TP KEC - 80V 4NSE

S				DATE: 2005. 03. 15.
	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		D702	0DS226009AA	KDS226 TP KEC - 80V 4NSE
		D706	0DS226009AA	KDS226 TP KEC - 80V 4NSE
		ZD701	0DZ560009GB	"BZT52C5V6S-(F),LF DIODES R/T"
		ZD702	0DZ560009GB	"BZT52C5V6S-(F),LF DIODES R/T"
		ZD702 ZD703	0DZ560009GB	"BZT52C5V6S-(F),LF DIODES R/T"
		ZD703 ZD704	0DZ560009GB	"BZT52C5V6S-(F),LF DIODES R/T"
		ZD711	0DZ560009GB	"BZT52C5V6S-(F),LF DIODES R/T"
		ZD712	0DZ560009GB	"BZT52C5V6S-(F),LF DIODES R/T"
	IC	Cs		
		U201	0IPRPM3017A	"TSU16AL-LF MSTAR 100P,QFP TR"
				· ·
		U501	0IZZTSZ595A	L1750SN MSTAR MICOM ASSY - 1
		U501	0IZZTSZ595B	L1750SN MSTAR MICOM ASSY-C/SKD
		U502	0ICS240813B	"CAT24WC08J-TE13 8P,SOIC R/TP"
		U801	0IPMGKE011A	KIA78D33F KEC DPAK R/TP 3.3V
		Q502	0IKE704200H	KIA7042AP TO-92 TP 4.2 VOLT
	Т	RANSIST	OR	
		0=00	oTD 000 400 4 5	5.4.D.O.I.W.D. (40.750.0.4% O.51.475) TD
		Q503	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q504	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q505	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q703	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q704	0TR390609FA	KST3906-MTF TP SAMSUNG SOT2
		Q801	0TR127309AA	KTA1273-Y(KTA966A) TP KEC TO
		Q802	0TR390409AE	FAIRCHILD KST3904(LGEMTF) TP
		Q803	0TR127309AA	KTA1273-Y(KTA966A) TP KEC TO
	R	ESISTOF	?s	
	,			
		R201	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R201 R202	0RJ0682D677 0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP
		R202	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R202 R203	0RJ0682D677 0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207	0RJ0682D677 0RJ0682D677 0RJ3900D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208	0RJ0682D677 0RJ0682D677 0RJ3900D677 0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208 R209	0RJ0682D677 0RJ0682D677 0RJ3900D677 0RJ0682D677 0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208 R209 R210	0RJ0682D677 0RJ0682D677 0RJ3900D677 0RJ0682D677 0RJ0682D677 0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208 R209 R210 R216	0RJ0682D677 0RJ0682D677 0RJ3900D677 0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0000D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208 R209 R210	0RJ0682D677 0RJ0682D677 0RJ3900D677 0RJ0682D677 0RJ0682D677 0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208 R209 R210 R216	0RJ0682D677 0RJ0682D677 0RJ3900D677 0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0000D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208 R209 R210 R216 R217	0RJ0682D677 0RJ0682D677 0RJ3900D677 0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0000D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208 R209 R210 R216 R217 R220	0RJ0682D677 0RJ0682D677 0RJ3900D677 0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0000D677 0RJ0000D677 0RJ4701D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208 R209 R210 R216 R217 R220 R240 R501	0RJ0682D677 0RJ0682D677 0RJ3900D677 0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0000D677 0RJ0000D677 0RJ4701D677 0RJ1001D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP 1K OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208 R209 R210 R216 R217 R220 R240 R501 R503	0RJ0682D677 0RJ0682D677 0RJ3900D677 0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0000D677 0RJ0000D677 0RJ4701D677 0RJ4701D677 0RJ4701D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP 1K OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208 R209 R210 R216 R217 R220 R240 R501 R503 R506	0RJ0682D677 0RJ0682D677 0RJ3900D677 0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0000D677 0RJ0000D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP 1K OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208 R209 R210 R216 R217 R220 R240 R501 R503 R506 R508	0RJ0682D677 0RJ0682D677 0RJ3900D677 0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0000D677 0RJ0000D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP 1K OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208 R209 R210 R216 R217 R220 R240 R501 R503 R506 R508	0RJ0682D677 0RJ0682D677 0RJ3900D677 0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0000D677 0RJ0000D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP 1K OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208 R209 R210 R216 R217 R220 R240 R501 R503 R506 R508 R520 R521	0RJ0682D677 0RJ0682D677 0RJ3900D677 0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0000D677 0RJ0000D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP 1K OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208 R209 R210 R216 R217 R220 R240 R501 R503 R506 R508	0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0082D677 0RJ0000D677 0RJ0000D677 0RJ4701D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP 1K OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208 R209 R210 R216 R217 R220 R240 R501 R503 R506 R508 R520 R521	0RJ0682D677 0RJ0682D677 0RJ3900D677 0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0000D677 0RJ0000D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677 0RJ4701D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP 1K OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208 R209 R210 R216 R217 R220 R240 R501 R503 R506 R508 R520 R521 R522	0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0082D677 0RJ0000D677 0RJ0000D677 0RJ4701D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 174 OHM 1/10 W 5% 1608 R/TP 18 OHM 1/10 W 5% 1608 R/TP 19 OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208 R209 R210 R216 R217 R220 R240 R501 R503 R506 R508 R520 R521 R522 R523	0RJ0682D677 0RJ0682D677 0RJ3900D677 0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0000D677 0RJ0000D677 0RJ4701D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 1 OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP
		R202 R203 R207 R208 R209 R210 R216 R217 R220 R240 R501 R503 R506 R508 R520 R521 R522 R523 R530	0RJ0682D677 0RJ0682D677 0RJ3900D677 0RJ0682D677 0RJ0682D677 0RJ0682D677 0RJ0000D677 0RJ0000D677 0RJ4701D677	68 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 390 OHM 1/10 W 5% 1608 R/TP 68 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 0 OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP

				DATE: 2005. 03. 15.
*S	*ΔΙ	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
<u> </u>	AL	LOC. NO.	TAKTNO.	BESCHI HON/ SI ECII ICATION
		R543	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R544	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R545	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R547	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R548	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R549	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R555	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R557	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R560	0RJ1501D677	1.5K OHM 1/10 W 5% 1608 R/TP
		R701	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R701	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R702	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
				2K OHM 1/10 W 5% 1608 R/TP
		R704	0RJ2001D677	
		R706	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R708	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R709	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R712	0RJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R716	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R717	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R720	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R722	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R723	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R724	0RJ0332D677	33 OHM 1/10 W 5% 1608 R/TP
		R726	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R727	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R737	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R744	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R747	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R751	0RJ4700D677	470 OHM 1/10 W 5% 1608 R/TP
		R752	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R753	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R754	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R755	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R769	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R778	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R781	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R803	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R804	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R805	0RH2000D622	200 OHM 1 / 10 W 5% D R/TP
		R806	0RH2000D622	200 OHM 1 / 10 W 5% D R/TP
		R808	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R816	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R820	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R821	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R824	0RJ0272D677	27 OHM 1/10 W 5% 1608 R/TP
		R825	0RJ2000D677	200 OHM 1/10 W 5% 1608 R/TP
	С	ONTROL	BOARD	
		X501	6212AA2004A	HC-49U TXC 12.0MHZ +/- 30 PP
	0	THERs		
		C1	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C2	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		LED1	0DLLT0208AA	LITEON LTST-C155KGJSKT R/TP
		R1	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R2	0RJ4701D677 0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP
		R3	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R4	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
	1	R5	0RJ4701D677 6600TR1002A	4.7K OHM 1/10 W 5% 1608 R/TP SKQGACE010 J-ALPS NON 12V 50
		SW1		

				DATE: 2005. 03.	15.
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	
		SW2	6600TR1002A	SKQGACE010 J-ALPS NON 12V 50	
		SW3	6600TR1002A	SKQGACE010 J-ALPS NON 12V 50	
		SW4	6600TR1002A	SKQGACE010 J-ALPS NON 12V 50	
		SW5	6600TR1002A	SKQGACE010 J-ALPS NON 12V 50	
		ZD1	0DZ560009GB	"BZT52C5V6S-(F),LF DIODES R/T"	
		ZD2	0DZ560009GB	"BZT52C5V6S-(F),LF DIODES R/T"	

SCHEMATIC DIAGRAM

1. TSU56AL / TSU16AL (2) ALE (2) RDZ (2) WRZ (2) WRZ U201-#96, 97 Waveforms 181 Acqs SUSBAL .15XXBZ+L17XXBZ+L19XXBZ C1 RMS 1.526 V /TSU16AL ω R216, R778 H-Sync CHEROLOGY CHEROL 우오^{뿌뿌}우주주주 BYPASS AUSS_LPLI AVSS AVSS AVSS AVDD AVDD_MPLL M 10.0µs Ch1 7 2.44 V 18 Aug 2004 09:00:51 AVSS_MPLL AVDD_DVI AVDD_DVI AVSS_PLL U2Ø1 TSU56AL AVSS_DVI AVSS_DVI AVSS_DVI AVDD_PLL C1 Freq 48.472kHz BUSTYPE/N.C ω PAD R217, R781 V-Sync PAD-IN û û 7 18 Aug 2004 09:02:50 C1 Freq 60.234 Hz Unstable histogram (2) (3, 4) 3, 3U-PL (2) (2) (2) 44444444 ££££££££££ (3) 3.300 ± 6221 1 8. 810 6.811 - C513 ± cz14 J g. g1∪ 1 C223 1 C224 1 C225 1 1 B. B1U | B. B1U | B. B1U | T 6215 ___ a. ain ___ csie # c221 } | C221 }

2. MICOM 2 (3, 4) 2442222224 4442222224 4442222244 4442222244 444222244 444222244 4442224 444224 4442 4446 4442 4442 4442 4442 4442 4442 4442 4442 4442 4442 4442 4442 444 U501-#43 H-SYNC (4) DIM-PWM Waveforms X-OLT MICOM PICOM М 10.0µs Ch1 / 2.44 V 18 Aug 2004 09:00:51 C1 Freq 48.472kHz 71.7 X-12 2 U501-#44 V-SYNC \ \ \ \ \ ANALOG DIGITAL NO USE M10.0ms Ch1 7 1.40 V 18 Aug 2004 09:02:50 2. 817 5. 8253 C1 Freq 60.234 Hz Unstable histogram 100/16V 100/16V 1501 MTV312PLCC ADO-MUTE (4) SUR (3,4) Z U INVON (4) **⊕⊕⊕** - ⊆ ⊔ 4 15"/19"/17"AU THE REST 1.5K 24LCØ8B U5Ø2 8488 C5Ø8 R534 1 W = D R560 1 W 2 4.7K 33 48 RS 48

- 24 -

5UR (3)

LAMPADJ

(3, 4) (1, 4) (1, 4) (1, 4) (1, 4) (3)

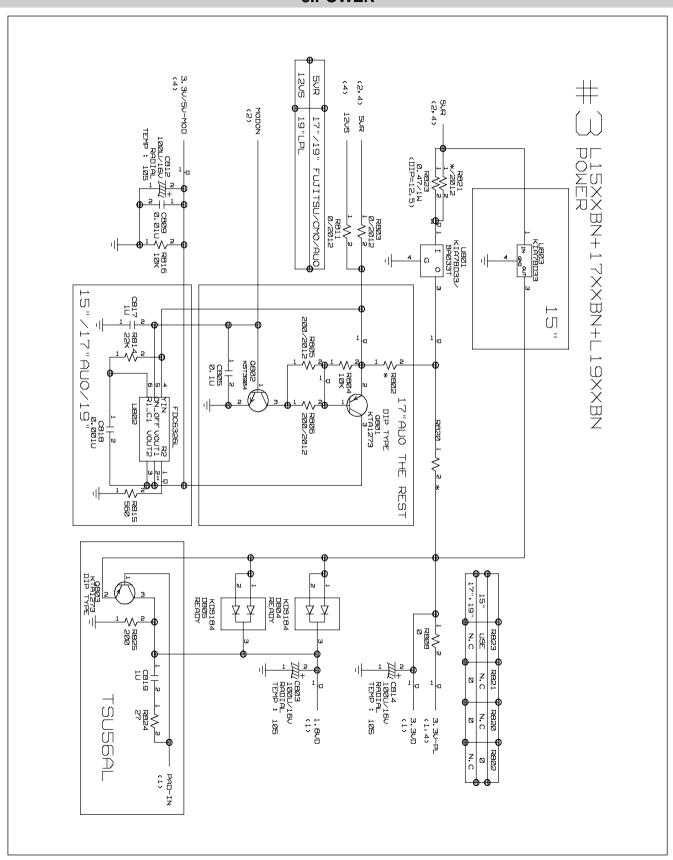
MODON

AEYSOL AY DESCRIPTION OF STREET LAST CONTRACT LAST CONTRACT CONTRA

0022022

- SCLK (4) - SDATA (4)

3.POWER



- 25 -

4. CONNECTOR & JACKS ω R216, R778 H-Sync Waveforms 3.3V-PL BLOCK # A CONNECTOR & JACKS 66 66 66 66 8 8 8 SHED DICENT GRN-19 877% 1 W 3 12 09:00:51 C1 Freq 48.472KHz #Z# 1 W= 22 <u>###</u> 4 ω eare Mrrecese R217, R781 V-Sync Ž ZZ G 1 W 2 EFROM (G 1 W 2 D-SILB TOTAL TOTA 5, 68 5, 68 A # 227 € W † 1628 SUR (2:3) M10.0ms Ch1 / 1.40 V 18 Aug 2004 09:02:50 C1 Freq 60.234 Hz Unstable histogram FERST COURSE COURSE CATGER 1 0 0 k w w --999 AZTOOL HOTHER SE C727 2 1 1 11 ... 70P_125H 9 8758 ± W ± 8278 9 9/704 | GT 3006 R747 | 4 1 W 2 DIN-PMY (2) 1208 (3) SE E ŷ



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