Service Guide Specification LEE H.J KIM J.O 1. Model Description 05.11.02 05.11.02 L1732S-SFN **MODEL BRAND** LG L1932S-SFN Part No. 38289S0009Q **KNRUQPT FLATRON L1732S** SUFFIX **Product Name KXRUQPT FLATRON L1932S Printing Specification** 2. 1. Trim Size (Format): 215mm x 280 mm 2. Printing Colors • Cover : LG COLORS • Inside : Black 3. Stock (Paper) • Cover: Snow White 150 g/m2 • Inside: Snow White 100 g/m2 4. Printing Method: 5. Bindery: Saddle stitch 6. Language : English 7. Number of pages: 28 (Including blank 1page) 3. **Special Instructions** (1) Origin Notification * LGESP : Printed in Brazil * LGEMX : Printed in Mexico * LGENT : Printed in China * LGEIL: Printed in India **Changes** 4. /₈/ /6[\] /₄\ /3\ $\frac{1}{2}$ /₁\

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Rear Cover



COLOR MONITOR SERVICE MANUAL

CHASSIS NO.: CL-82

MODEL: FLATRON L1732S (L1732S-SFN.AN**EP)

FLATRON L1932S (L1932S-SFN.AX**EP)

() **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 - L1732S

: 19 inch - L1932S

Pixel Pitch : 0.264 (H) x 0.264 (V) - L1732S : 0.294 (H) x 0.294 (V) - L1932S

Color Depth : 8bits, 16.2M colors

Size : 358.5 (H) x 296.5 (V) x 17.0(D) - **L1732S**

: 396 (H) x 324 (V) x 16.5(D) - L1932S

Electrical Interface : LVDS

Surface Treatment
Operating Mode
Backlight Unit
: Hard-coating(3H), Anti-Glare
: Normally White, Transmissive mode
: Top/Bottom edge side 4-CCFL
(Cold Cathode Fluorescent Lamp)

2. OPTICAL CHARACTERISTICS

2-1. Viewing Angle by Contrast Ratio ≥ 10

Left: -70° min., -80°(Typ) Right : +70° min., +80°(Typ) Top: +60° min., +85°(Typ) Bottom: -60° min., -75°(Typ)

2-2. Luminance : 235(min), 300(Typ)

2-3. Contrast Ratio : 500(min), 700(Typ) - L1732S

: 450(min), 700(Typ) - L1932S

3. SIGNAL (Refer to the Timing Chart)

3-1. Sync Signal

• Type : Separate Sync, Composite,

SOG (Sync On Green)

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, 0.6A

5-2. Power Consumption

MODE	H/V SYNC	VIDEO	POWER CONSUMPTION	LED COLOR	
POWER ON (NORMAL)	ON/ON	ACTIVE	less than 35 W - L1732S	חוור	
POWER ON (NORWAL)	ON/ON	ACTIVE	less than 39 W -L1932S	BLUE	
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	
POWER S/W Off	-	-	less than 1 W	Off	

6. ENVIRONMENT

6-1. Operating Temperature : 10°C~35°C (50°F~95°F)

(Ambient)

6-2. Relative Humidity : 10%~80%

(Non-condensing)

6-3. MTBF : 50,000 HRS with 90% Confidence Lamp Life : 50,000 Hours(Min)-**L1732S**

: 40,000 Hours(Min)-L1932S

7. DIMENSIONS (with TILT/SWIVEL)

L1732S

Width : 390 mm (15.35")
Depth : 232 mm (9.13")
Height : 406 mm (15.98")

L1932S

Width : 430 mm (16.93")
Depth : 232 mm (9.13")
Height : 429 mm (16.89")

8. WEIGHT (with TILT/SWIVEL)

L1732S

Net. Weight : 4.1 kg (9.04 lbs) Gross Weight : 5.5 kg (12.13 lbs)

L1932S

Net. Weight : 4.6 kg (10.14 lbs) Gross Weight : 6.8 kg (14.99 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 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

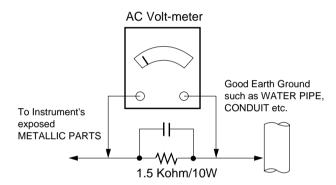
Please use only a plastic screwdriver to protect yourself from shock hazard during service operation.

↑ 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.
- 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.
- 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; £ to 600; £.
- 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 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; € to 600; €)
 - 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: £ to 600: £)
 - b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
 - c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
 - **CAUTION:** Work quickly to avoid overheating the circuit board printed foil.
 - d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

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

Removal

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

Replacement

- 1. Carefully insert the replacement IC in the circuit board.
- 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

- 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.
- 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

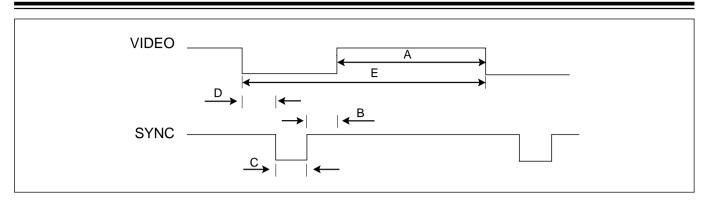
Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

- 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



MODE	H/V	Sync Polarity	Dot Clock	Frequency	Total Period (E)	Video Active Time (A)	Sync Duration (D)	Front Porch (C)	Blanking Time (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	
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	
4	H(Pixels)	-	31.5	37.5	840	640	16	64	120	640 x 480
	V(Lines)	-		75	500	480	1	3	16	
5	H(Pixels)	+	40.0	37.879	1056	800	40	128	88	800 x 600
	V(Lines)	+		60.317	628	600	1	4	23	
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	
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	
10	H(Pixels)	+/-	100.0	68.681	1456	1152	32	128	144	1152 x 870
	V(Lines)	+/-		75.062	915	870	3	3	39	
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	
13	H(Pixels)	+	135.0	79.976	1688	1280	16	144	248	1280 x 1024
	V(Lines) +	75.035	1066	1024	1	3	38			

DISASSEMBLY

1



Disassembly back door.

2



Disassembly stand rear cover.

#3



Remove the screws.

4



Remove the screws.

5

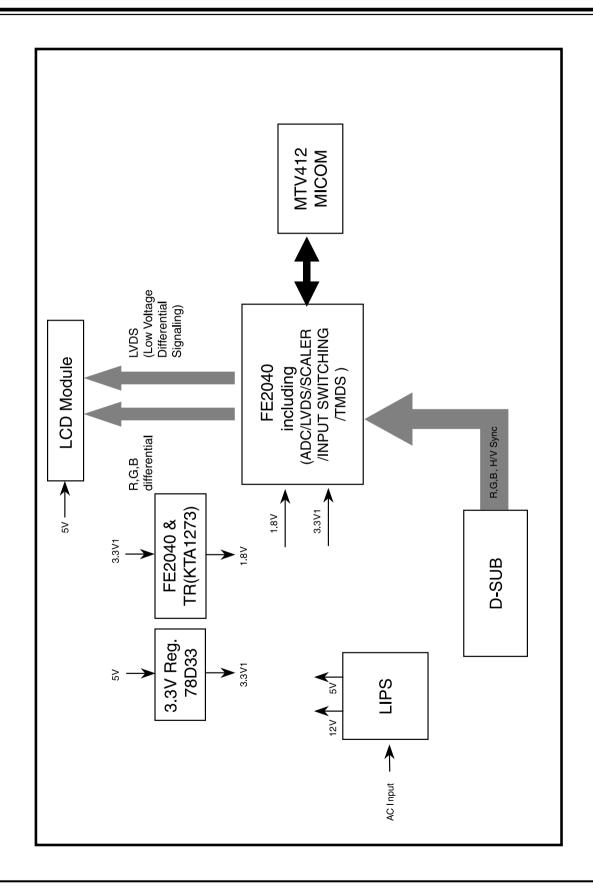


Pull up the cabinet corner side.

#6



Disassemble back cover.



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, 5V is provided for LCD panel and 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.

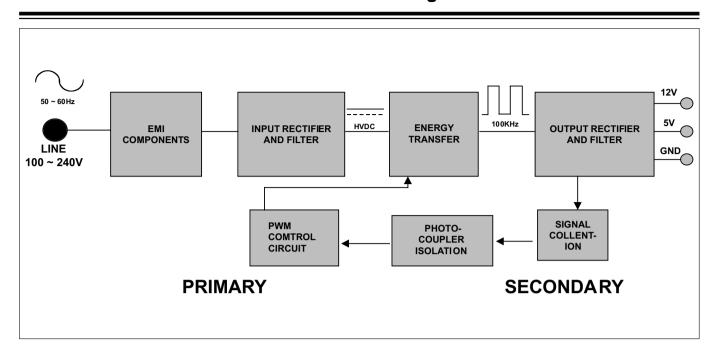
3. MICOM Part.

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

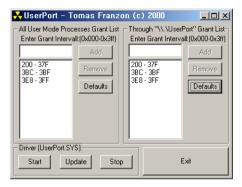
Windows EDID V1.0 User Manual

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

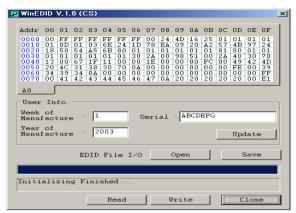


- c) Remove all default number
- d) Add 300-3FF

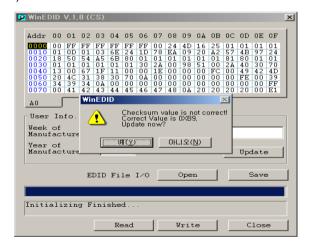


- e) Click Start button.
- f) Click Exit button.

- 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.

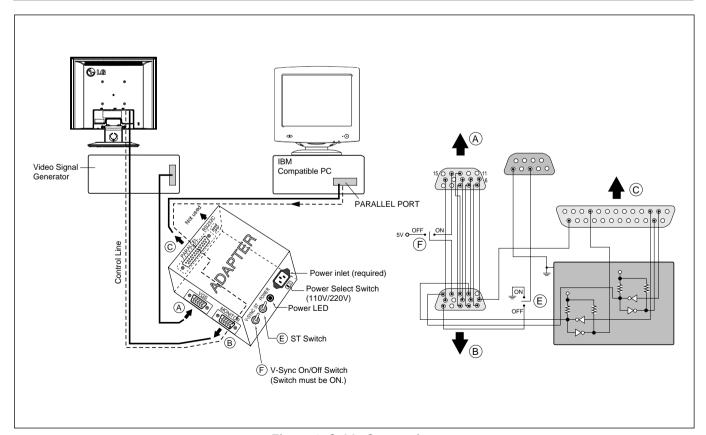
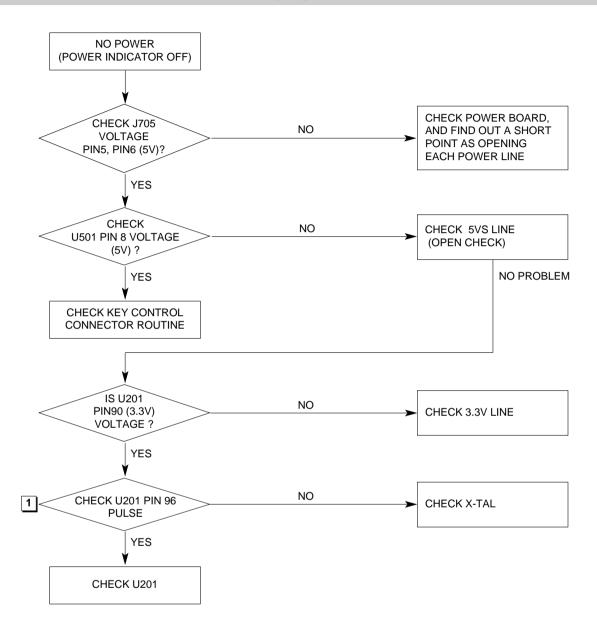


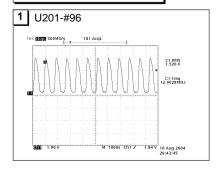
Figure 1. Cable Connection

TROUBLESHOOTING GUIDE

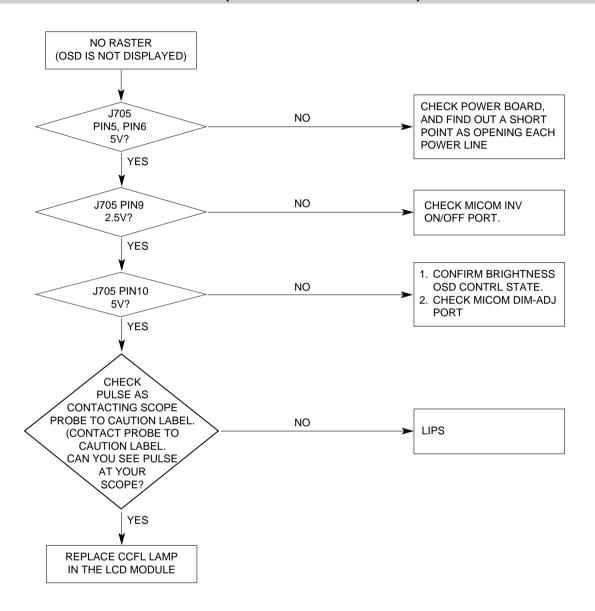
1. NO POWER



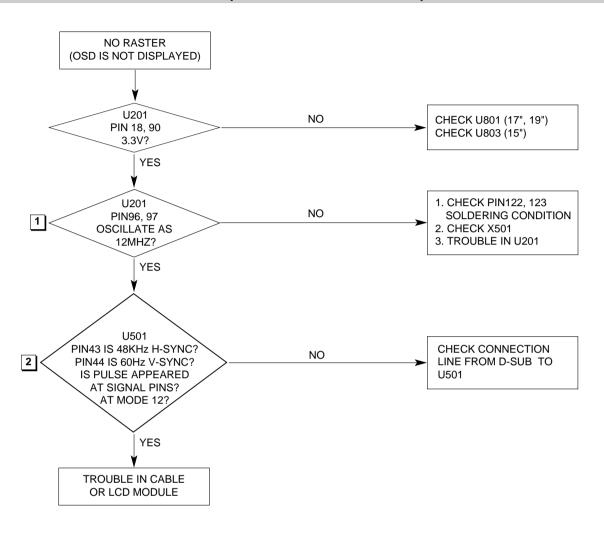
Waveforms

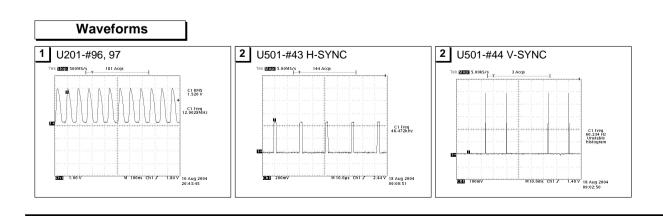


2. NO RASTER (OSD IS NOT DISPLAYED) - LIPS

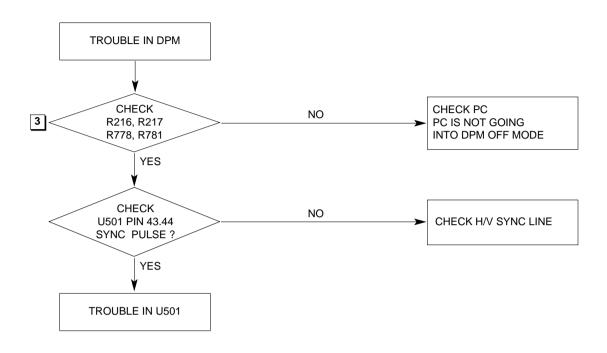


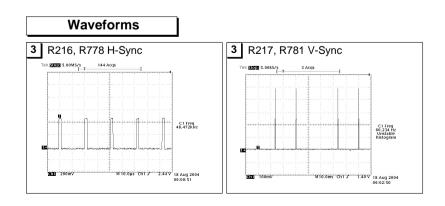
3. NO RASTER (OSD IS NOT DISPLAYED) - MSTAR

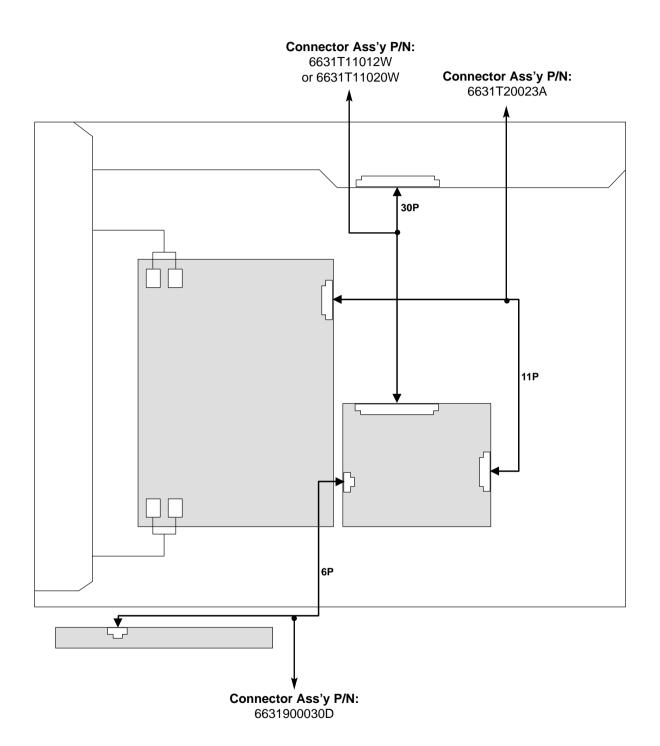




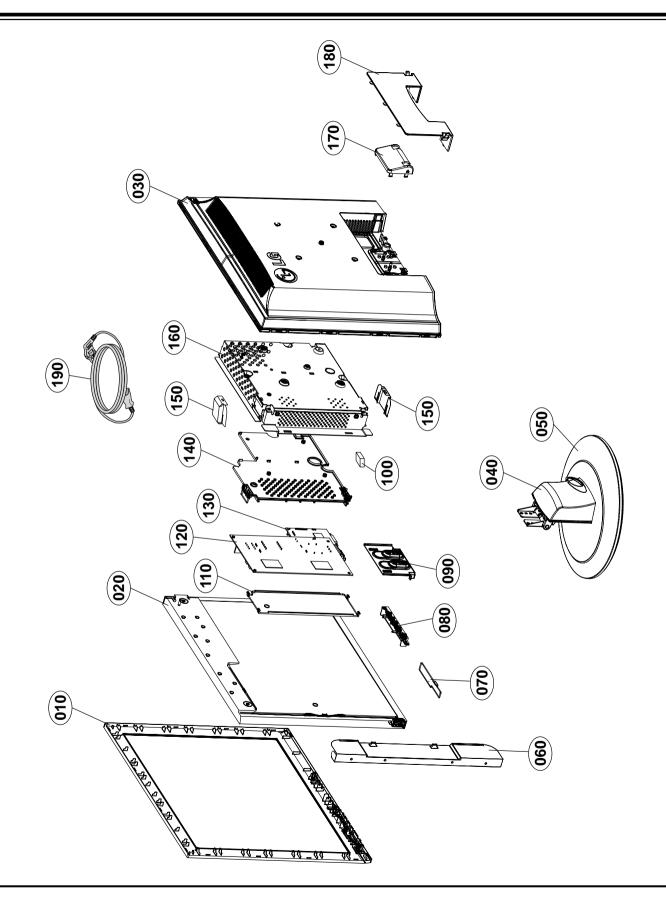
4. TROUBLE IN DPM







EXPLODED VIEW



EXPLODED VIEW PARTS LIST

Ref. No.	Part No.	Description
010	3091TKL186G	CABINET ASSEMBLY, L1732S BRAND L159A ABS350 SILVER. F+8MS+TCO03+CKD
	3091TKL187G	CABINET ASSEMBLY, L1932S BRAND 160A ABS350 SILVER. F+8MS+TCO03+CKD
020	6304FLP278A	LCD(LIQUID CRYSTAL DISPLAY), LM170E01-TLB1 LG PHILPS TFT COLOR P5,645CH,300NITS,8MS,LPL NJ/KUMI,PB FREE,EGI,OKI S D-IC,EGI,SXGA,L
	6304FLP310A	LCD(LIQUID CRYSTAL DISPLAY), LM190E03-TLB5 LG PHILPS TFT COLOR P4,645CH,300NITS,TN,8MS,LPL NJ,PB FREE,EGI,OKI S D-IC,SXGA,LVDS
	or 6304FLP313A	LCD(LIQUID CRYSTAL DISPLAY), LM190E03-TLB8 LG PHILPS TFT COLOR P3,645CH,300NITS,TN,8MS,LPL NJ,PB FREE,EGI,NEC S D-IC,SXGA,LVDS
	or 6304FLP312A	LCD(LIQUID CRYSTAL DISPLAY), LM190E03-TLB7 LG PHILPS TFT COLOR P4,645CH,300NITS,TN,8MS,LPL NJ,PB FREE,EGI,NEC S D-IC,SXGA,LVDS
030	3809TKL128E	BACK COVER ASSEMBLY, L1732S NON ABS350 BK, ANALOG+CKD
	3809TKL129E	BACK COVER ASSEMBLY, L1932S NON ABS350 BK, ANALOG+CKD
040	3043TKK274B	TILT SWIVEL ASSEMBLY, L1732 . BODY ASSY,CKD
050	3043TKK275C	TILT SWIVEL ASSEMBLY, LX32 . BASE ASSY-CKD
060	49509K0016B	METAL, SHIELD L1732 CHASSIS BRACKET-CKD
070	68719ST051B	PWB(PCB) ASSEMBLY,SUB, SUB T.T CL82 L1732B KNRUEPT CONTROL NT CKD
080	4940TKT272B	KNOB, TACT CONTROL 5KEY LX32 CKD
090	4950TKA407B	METAL, SUPPORT METAL STAND LXX32-CKD
100	3940TKK082K	SPONGE, CUSHION 10*20*4T L1530TMM GAP PAD
110	3550TKK989B	COVER, LXX32 PIECE INSULATOR LIPS-CKD
120	6871TPT312B	PWB(PCB) ASSEMBLY,POWER, L1750** UNION POWER TOTAL BRAND 4-LAMP(17/19) SOCKET TYPE
130	33139L7007C	MAIN TOTAL ASSEMBLY, L1732S-XFN MST E NT CKD BRAND CL-82 LF
	33139L9011C	MAIN TOTAL ASSEMBLY, L1932S-XFN MST E NT CKD BRAND CL-82 LF
140	3550TKK995B	COVER, LXX32 PIECE INSULATOR VESA-CKD
150	48149K0001B	SHIELD, SIDE LXX32 CAP -CKD
160	4951TKS242E	METAL ASSEMBLY, SHIELD ASSY L1732S ANALOG-CKD
	4951TKS242G	METAL ASSEMBLY, SHIELD ASSY L1932S ANALOG-CKD
170	3550TKK991A	COVER, LXX32 STAND BODY BACK
180	35509K0007B	COVER, L1732 BACK DOOR-CKD
	35509K0008B	COVER, L1932 BACK DOOR-CKD
190	6410TPW003A	POWER CORD, LP-33+LS-60 LONGWELL PCT 1870MM WALL CD/PB FREE BLACK

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

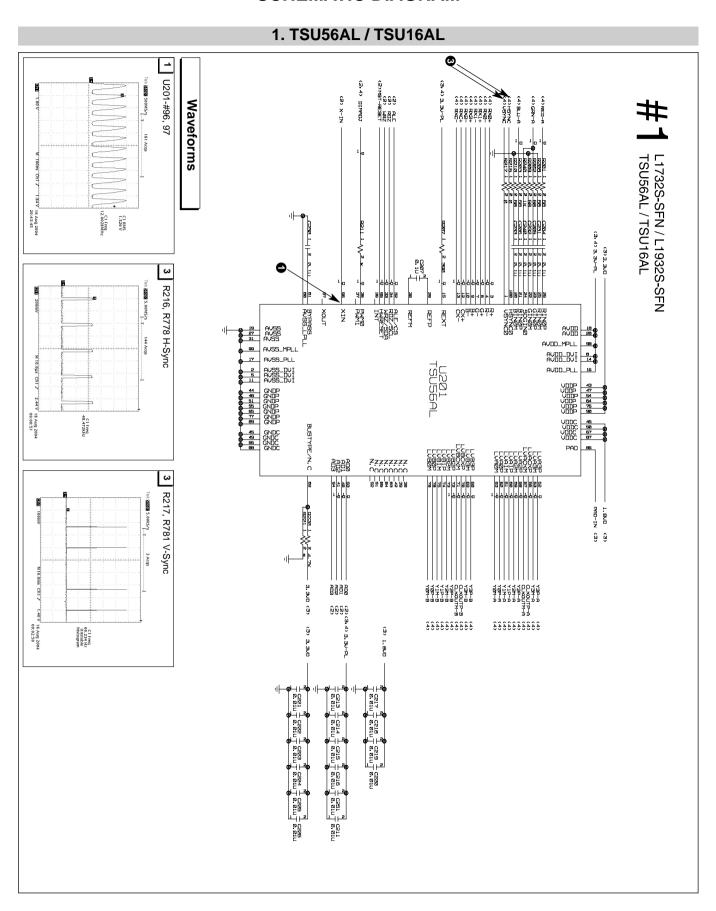
**AL LOC. NO. PART NO. DESCRIPTION / SPECIFICATION				DATE: 2005. 11. 02.
C204 OCK104CK56A O.1UF 1608 50V 10% R.TP X7R C205 OCK104CK56A O.1UF 1608 50V 10% R.TP X7R C206 OCK104CK56A O.1UF 1608 50V 10% R.TP X7R C207 OCK104CK56A O.1UF 1608 50V 10% R.TP X7R C211 OCK103CK51A O.01UF 1608 50V 10% R.TP B(Y C213 OCK103CK51A O.01UF 1608 50V 10% R.TP B(Y C214 OCK103CK51A O.01UF 1608 50V 10% R.TP B(Y C215 OCK103CK51A O.01UF 1608 50V 10% R.TP B(Y C216 OCK103CK51A O.01UF 1608 50V 10% R.TP B(Y C217 OCK103CK51A O.01UF 1608 50V 10% R.TP B(Y C218 OCK103CK51A O.01UF 1608 50V 10% R.TP B(Y C219 OCK103CK51A O.01UF 1608 50V 10% R.TP B(Y C219 OCK103CK51A O.01UF 1608 50V 10% R.TP B(Y C219 OCK103CK51A O.01UF 1608 50V 10% R.TP B(Y C220 OCK103CK51A O.01UF 1608 50V 10% R.TP B(Y C221 OCK103CK51A O.01UF 1608 50V 10% R.TP B(Y C222 OCK103CK51A O.01UF 1608 50V 10% R.TP B(Y C224 OCK103CK51A O.01UF 1608 50V 10% R.TP B(Y C225 OCK103CK51A O.01UF 1608 50V 10% R.TP B(Y C226 OCK103CK51A O.01UF 1608 50V 10% R.TP B(Y C226 OCK103CK51A O.01UF 1608 50V 10% R.TP B(Y C226 OCK103CK51A O.01UF 1608 50V 10% R.TP X7R C221 OCK104CK56A O.1UF 1608 50V 10% R.TP X7R C222 OCK104CK56A O.1UF 1608 50V 10% R.TP X7R C223 OCK104CK56A O.1UF 1608 50V 10% R.TP X7R C224 OCK103CK51A O.01UF 1608 50V 10% R.TP X7R C225 OCK103CK51A O.01UF 1608 50V 10% R.TP X7R C226 OCK103CK51A O.01UF 1608 50V 10% R.TP X7R C230 OCK104CK56A O.1UF 1608 50V 10% R.TP X7R C231 OCK104CK56A O.1UF 1608 50V 10% R.TP X7R C230 OCK103CK51A O.01UF 1608 50V 10% R.TP X7R C250 OCK103CK51A O.01UF 1608 50V 10% R.TP X7R O	*S	*AL LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C204		MAIN BOA	RD	
C205 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/TR C206 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/TR C207 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/TR C211 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C214 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C215 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C216 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C217 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C218 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C219 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C221 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C221 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C221 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C222 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C223 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C224 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C225 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C230 OCK104CK56A		CAPACITO	PRS	
C205 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/TR C206 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/TR C207 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/TR C211 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C214 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C215 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C216 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C217 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C218 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C219 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C221 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C221 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C221 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C222 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C223 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C224 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C225 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C230 OCK104CK56A		C204	0CK104CKE64	0.41 IE 4600 F0\/.400/ D/TD V7D
C206				
C207				*****
C211 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 C221 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 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 X/R C231 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C232 0CK104CK56A 0				
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 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 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 C226 0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C230 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C231 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C232 0CK104CK56A 0				
C214 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 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 0.01UF 1608 50V 10% R/TP X/R C231 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C232 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C234 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C350 0CK103CK51A 0.0				
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 C224 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 X/R C231 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C232 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C251 0CK103CK51A 0.1UF 1608 50V 10% R/TP X/R C504 0CH8106F611 0.01UF 1608 50V 10% R/TP X/R C505 0CK103CK51A 0.0		I		•
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 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 C226 0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C226 0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C231 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C232 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C240 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C251 0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C503 0CK103CK51A 0.01UF 1608 50V 10% R/TP NP C504 0CK103CK51A 0.01				•
C217 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C218 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C219 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C220 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C221 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C222 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C223 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C224 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C225 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C226 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C230 OCK104CK56A 0.1UF 1608 50V 10% R/TP B(Y C231 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/R C232 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/R C233 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/R C251 OCK103CK51A 0.1UF 1608 50V 10% R/TP X/R C503 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C504 OCH8106F611 OCH8106F611 C505 OCC13CK61A O.01UF 1608 50V 10% R/T				•
C218 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C229 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C221 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C221 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C222 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C224 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C224 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C225 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C226 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C226 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C230 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/R C231 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/R C232 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/R C251 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/R C251 OCK103CK51A 0.01UF 1608 50V 10% R/TP X/R C504 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C505 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C701 OCK103CK51A 0.01		I		•
C219 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C220 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C221 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C222 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C223 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C224 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C225 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C226 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C226 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C230 OCK104CK56A 0.01UF 1608 50V 10% R/TP X/R C231 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/R C232 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/R C240 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/R C251 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C503 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C504 OCH8106F611 0.01UF 1608 50V 10% R/TP B(Y C505 OCC180CK41A 0.01UF 1608 50V 5% R/TP NP0 C506 OCC103CK51A 0.01				•
C220 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C221 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C222 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C224 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C225 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C226 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C226 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C226 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C230 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/R C231 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/R C232 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/R C233 OCK104CK56A 0.1UF 1608 50V 10% R/TP X/R C240 OCK103CK51A 0.1UF 1608 50V 10% R/TP X/R C503 OCK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C504 OCH8106F611 0.01UF 1608 50V 10% R/TP B(Y C505 OCC180CK41A 0.01UF 1608 50V 10% R/TP B(Y C506 OCC30CK61A 0.01UF 1608 50V 10% R/TP B(Y C701 OCK105CD56A 0.01UF				•
C221 0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C222 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 C226 0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C226 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C231 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C232 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C233 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C240 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C503 0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C504 0CH8106F611 10UF 1608 50V 10% R/TP B(Y C505 0CC30CK01A 3PF 1608 50V 0.25 PF R/TP NP C506 0CC30CK41A 18PF 1608 50V 5% R/TP NP0 C507 0CC680CK41A 0.01UF 1608 50V 10% R/TP X/R C707 0CC680CK41A 68PF 1608 50V 5% R/TP NP0 C708 0CK103CK51A 0.01UF 1608 50V				•
C222 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 C226 0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C226 0CK104CK56A 0.01UF 1608 50V 10% R/TP X/TR C230 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C231 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C232 0CK104CK56A 0.1UF 1608 50V 10% R/TP X/R C240 0CK103CK51A 0.01UF 1608 50V 10% R/TP X/R C503 0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C504 0CH8106F611 10UF 160 50V 10% R/TP B(Y C505 0CC30CK01A 3PF 1608 50V 0.25 PF R/TP NP C506 0CC30CK41A 0.01UF 1608 50V 10% R/TP B(Y C507 0CC180CK41A 0.01UF 1608 50V 10% R/TP NP0 C508 0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C701 0CK105CD56A 1UF 1608 50V 10% R/TP B(Y C707 0CC680CK41A 0.01UF 160				•
C223		-		•
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C732		C718	0CC101CK41A	100PF 1608 50V 5% R/TP NP0
C733		C727	0CK105CD56A	1UF 1608 10V 10% R/TP X7R
C734		C732	0CK103CK51A	,
C735		C733	0CK104CK56A	*****
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-L1732S C809 0CK103CK51A 0.01UF 1608 50V 10% R/TP KMF B(Y C812 0CE107EF610 "100UF KMG,RD 16V 20% FL BULK" C814 0CE107EF610 "100UF KMG,RD 16V 20% FL BULK" C817 0CK105CD56A 1UF 1608 10V 10% R/TP X7R-L1932S C818 0CC102CK41A 1000PF 1608 50V 5% R/TP NP0-L1932S		C734		
C803		I		
C805				
C809 0CK103CK51A 0.01UF 1608 50V 10% R/TP B(Y C812 0CE107EF610 "100UF KMG,RD 16V 20% FL BULK" C814 0CE107EF610 "100UF KMG,RD 16V 20% FL BULK" C817 0CK105CD56A 1UF 1608 10V 10% R/TP X7R-L1932S C818 0CC102CK41A 1000PF 1608 50V 5% R/TP NP0-L1932S				•
C812		I		
C814 0CE107EF610 "100UF KMG,RD 16V 20% FL BULK" C817 0CK105CD56A 1UF 1608 10V 10% R/TP X7R-L1932S C818 0CC102CK41A 1000PF 1608 50V 5% R/TP NP0-L1932S				,
C817				•
C818 0CC102CK41A 1000PF 1608 50V 5% R/TP NP0- L1932S		1		•
C819 UCK105CD56A 1UF 1608 10V 10% R/TP X7R				
		C819	UCK105CD56A	1UF 1608 10V 10% R/TP X7R

DIODES		l l		DATE: 2005. 11. 02
D701 ODSIH00018A TENKMC2837-T112,LF ISAHAYA R/" D702 ODSIH00018A TENKMC2837-T112,LF ISAHAYA R/" TENTMC2F050009GB TEXT52C5V6S-(F),LF DIODES R/T" TENTMC2F050009GB TEXT52C5V6S-(F),LF DIODES R/T" TENTMC2F050009GB TEXT52C5V6S-(F),LF DIODES R/T"	'S		PART NO.	DESCRIPTION / SPECIFICATION
D702 DSIH00018A "ENKMC2837-T112,LF ISAHAYA R/" D706 ODSIH00018A "ENKMC2837-T112,LF ISAHAYA R/" "ENKMC2837-T112,LF ISAHAYA R/" "ENKMC2837-T112,LF ISAHAYA R/" "BZT52C5V6S-(F),LF DIODES R/T" DZ560009GB "BZT52C5V6S-(F),LF DIODES R/T" DDZ560009GB TZ52C5V6S-(F),LF DIODES R/T" TZ52C5V6S		DIODEs		
D702 DSIH00018A "ENKMC2837-T112,LF ISAHAYA R/" D706 ODSIH00018A "ENKMC2837-T112,LF ISAHAYA R/" "ENKMC2837-T112,LF ISAHAYA R/" "ENKMC2837-T112,LF ISAHAYA R/" "BZT52C5V6S-(F),LF DIODES R/T" DZ560009GB "BZT52C5V6S-(F),LF DIODES R/T" DDZ560009GB TZ52C5V6S-(F),LF DIODES R/T" TZ52C5V6S			00000000	#5\###################################
D706				·
ZD701				, -
ZD702				
ZD703		ZD701	0DZ560009GB	"BZT52C5V6S-(F),LF DIODES R/T"
ZD704		ZD702	0DZ560009GB	"BZT52C5V6S-(F),LF DIODES R/T"
ZD711		ZD703	0DZ560009GB	"BZT52C5V6S-(F),LF DIODES R/T"
ICS		ZD704	0DZ560009GB	"BZT52C5V6S-(F),LF DIODES R/T"
ICS		ZD711	0DZ560009GB	"BZT52C5V6S-(F),LF DIODES R/T"
Q502 0IKE704200H U201 0IPRPM3017B F2040-LF(TSU16AWL) MSTAR 10 U501 0IZZ9H0047A MTV412PMV MYSON PLCC 44PIN F-L173 MTV412PMV MYSON PLCC 44PIN F-L193 U502 0ICS240813B "CAT24WC08J-TE13 8P,SOIC R/TP" KIA78D33F KEC DPAK R/TP 3.3V-L1932 TRANSISTOR U802 0TFVI80067A Q503 0TRIH80001A "RT1C3904-T112,LF ISAHAYA R/T" FAIRCHILD KST3906-MTF TP SOT Q704 0TR390609FA FAIRCHILD KST3906-MTF TP SOT Q801 0TR127309AA KTA1273 TP KEC TO92 -Y(KTA96-L173: AR202 0RJ0682D677 R203 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R204 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R205 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R206 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R207 0RJ0900D677 G8 OHM 1/10 W 5% 1608 R/TP R208 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R209 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R209 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R210 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R210 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R210 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R210 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R210 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R210 0RJ060D677 G8 OHM 1/10 W 5% 1608 R/TP R210 0RJ000D677 G8 OHM 1/10 W 5% 1608 R/TP R210 0RJ000D677 G8 OHM 1/10 W 5% 1608 R/TP R210 0RJ000D677 G8 OHM 1/10 W 5% 1608 R/TP R210 0RJ000D677 G8 OHM 1/10 W 5% 1608 R/TP R210 0RJ000D677 G8 OHM 1/10 W 5% 1608 R/TP R210 0RJ000D677 H24 ORJ1001D677 H250 ORJ4701D677 H260 ORJ4701D677 H270 OR		ZD712	0DZ560009GB	"BZT52C5V6S-(F),LF DIODES R/T"
U201		ICs		
U201				
U501		Q502	0IKE704200H	KIA7042AP TO-92 TP 4.2 VOLT.
U501		U201	0IPRPM3017B	FE2040-LF(TSU16AWL) MSTAR 10
U502 0ICS240813B 0IPMGKE011A KIA78D33F KEC DPAK R/TP 3.3V-L1932 TRANSISTOR U802 0TFVI80067A SI3865BDV(E3) VISHAY R/TP TS Q503 0TRIH80001A "RT1C3904-T112,LF ISAHAYA R/T" Q504 0TRIH80001A "RT1C3904-T112,LF ISAHAYA R/T" Q505 0TRIH80001A "RT1C3904-T112,LF ISAHAYA R/T" Q703 0TR390609FA GAIRCHILD KST3906-MTF TP SOT Q704 0TR390609FA GAIRCHILD KST3906-MTF TP SOT G801 0TR127309AA KTA1273 TP KEC T092 -Y(KTA96-L173: Q802 0TRIH80001A "RT1C3904-T112,LF ISAHAYA R/T"-L17: Q803 0TR390609FA KTA1273 TP KEC T092 -Y(KTA96-L173: Q803 0TR127309AA KTA1273 TP KEC T092 -Y(KTA96-L173: Q803 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP Q803 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP Q804 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP Q809 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP Q809 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP Q810 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP Q810 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP Q810 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP Q810 0RJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP Q810 0RJ0692D677 G8 OHM 1/10 W 5% 1608 R/TP Q810 0RJ000D677 OOHM 1/10 W 5% 1608 R/TP Q810 0RJ000D677 OOHM 1/10 W 5% 1608 R/TP Q810 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q820 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q840 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q850 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q850 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q850 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q850 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q850 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q850 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q850 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q850 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q850 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q850 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q850 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q850 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q850 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q850 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q850 0RJ4701D677 4		U501	0IZZ9H0047A	MTV412PMV MYSON PLCC 44PIN F-L1732S
TRANSISTOR U802 0TFVI80067A		U501	0IZZ9H0048A	MTV412PMV MYSON LQFP 44PIN F- L1932S
TRANSISTOR U802 0TFVI80067A SI3865BDV(E3) VISHAY R/TP TS Q503 0TRIH80001A "RT1C3904-T112,LF ISAHAYA R/T" Q504 0TRIH80001A "RT1C3904-T112,LF ISAHAYA R/T" Q505 0TRIH80001A "RT1C3904-T112,LF ISAHAYA R/T" Q703 0TR390609FA FAIRCHILD KST3906-MTF TP SOT Q704 0TR390609FA FAIRCHILD KST3906-MTF TP SOT Q801 0TR127309AA KTA1273 TP KEC TO92 -Y(KTA96-L173; Q802 0TRIH80001A "RT1C3904-T112,LF ISAHAYA R/T"-L17; Q803 0TR127309AA KTA1273 TP KEC TO92 -Y(KTA96-L173; C804 0TR127309AA KTA1273 TP KEC TO92 -Y(KTA96-L173; C805 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP C806 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP C807 0RJ3900D677 68 OHM 1/10 W 5% 1608 R/TP C808 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP C809 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP C810 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP C810 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP C810 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP C810 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP C810 0RJ0600D677 0 OHM 1/10 W 5% 1608 R/TP C811 0RJ0000D677 0 OHM 1/10 W 5% 1608 R/TP C820 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C820 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C8503 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C8506 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP C8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP		U502	0ICS240813B	"CAT24WC08J-TE13 8P,SOIC R/TP"
U802 0TFVI80067A SI3865BDV(E3) VISHAY R/TP TS Q503 0TRIH80001A "RT1C3904-T112,LF ISAHAYA R/T" Q504 0TRIH80001A "RT1C3904-T112,LF ISAHAYA R/T" Q505 0TRIH80001A "RT1C3904-T112,LF ISAHAYA R/T" Q703 0TR390609FA FAIRCHILD KST3906-MTF TP SOT FAIRCHILD KST3906-MTF TP SOT FAIRCHILD KST3906-MTF TP SOT FAIRCHILD KST3906-MTF TP SOT KT127309AA KTA1273 TP KEC T092 -Y(KTA96-L173: Q802 0TRIH80001A "RT1C3904-T112,LF ISAHAYA R/T"-L17: Q803 0TR127309AA KTA1273 TP KEC T092 -Y(KTA96-L173: RESISTORS R201		U801	0IPMGKE011A	KIA78D33F KEC DPAK R/TP 3.3V- L1932S
Q503 0TRIH80001A "RT1C3904-T112,LF ISAHAYA R/T" Q504 0TRIH80001A "RT1C3904-T112,LF ISAHAYA R/T" Q505 0TRIH80001A "RT1C3904-T112,LF ISAHAYA R/T" Q703 0TR390609FA FAIRCHILD KST3906-MTF TP SOT Q704 0TR390609FA FAIRCHILD KST3906-MTF TP SOT Q801 0TR127309AA KTA1273 TP KEC T092 -Y(KTA96-L173: Q802 0TRIH80001A "RT1C3904-T112,LF ISAHAYA R/T"-L17: Q803 0TR127309AA KTA1273 TP KEC T092 -Y(KTA96-L173: Q804 0TR127309AA "RT1C3904-T112,LF ISAHAYA R/T"-L17: Q805 0TR127309AA "RT1C3904-T112,LF ISAHAYA R/T"-L17: Q806 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP Q807 0RJ3900D677 68 OHM 1/10 W 5% 1608 R/TP Q808 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP Q809 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP Q809 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP Q809 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP Q810 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP Q810 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP Q810 0RJ000D677 0 OHM 1/10 W 5% 1608 R/TP Q811 0RJ000D677 0 OHM 1/10 W 5% 1608 R/TP Q812 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q820 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q830 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q840 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP Q8508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP		TRANSIST	OR	
Q503				
Q504 QTRIH80001A "RT1C3904-T112,LF ISAHAYA R/T" Q505 QTRIH80001A "RT1C3904-T112,LF ISAHAYA R/T" Q703 QTR390609FA FAIRCHILD KST3906-MTF TP SOT KTA1273 TP KEC TO92 -Y(KTA96-L173: Q802 QTRIH80001A "RT1C3904-T112,LF ISAHAYA R/T"-L17: Q803 QTR127309AA KTA1273 TP KEC TO92 -Y(KTA96 KTA1		U802	0TFVI80067A	· · ·
Q505 OTRIH80001A "RT1C3904-T112,LF ISAHAYA R/T" FAIRCHILD KST3906-MTF TP SOT KT47309AA KTA1273 TP KEC TO92 -Y(KTA96-L173: Q802 OTRIH80001A "RT1C3904-T112,LF ISAHAYA R/T"-L17: Q803 OTR127309AA KTA1273 TP KEC TO92 -Y(KTA96-L173: C803 ORJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R202 ORJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R203 ORJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R207 ORJ3900D677 390 OHM 1/10 W 5% 1608 R/TP R208 ORJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R209 ORJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R210 ORJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R210 ORJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R210 ORJ0682D677 G8 OHM 1/10 W 5% 1608 R/TP R210 ORJ0600D677 OOHM 1/10 W 5% 1608 R/TP R217 ORJ0000D677 OOHM 1/10 W 5% 1608 R/TP R220 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R501 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R503 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R506 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R506 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R506 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R506 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP A/TK OHM 1/10		Q503	0TRIH80001A	"RT1C3904-T112,LF ISAHAYA R/T"
Q703		Q504	0TRIH80001A	"RT1C3904-T112,LF ISAHAYA R/T"
Q704 QTR390609FA GAIRCHILD KST3906-MTF TP SOT KTA1273 TP KEC TO92 -Y(KTA96-L173:		Q505	0TRIH80001A	"RT1C3904-T112,LF ISAHAYA R/T"
Q801 0TR127309AA		Q703	0TR390609FA	FAIRCHILD KST3906-MTF TP SOT
RESISTORS RESISTORS RESISTORS R201		Q704	0TR390609FA	FAIRCHILD KST3906-MTF TP SOT
RESISTORS R201		Q801	0TR127309AA	KTA1273 TP KEC TO92 -Y(KTA96-L1732S
RESISTORS R201		Q802	0TRIH80001A	"RT1C3904-T112,LF ISAHAYA R/T"- L1732
R201 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R202 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R203 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R207 0RJ3900D677 390 OHM 1/10 W 5% 1608 R/TP R208 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R209 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R210 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R210 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R210 0RJ000D677 0 OHM 1/10 W 5% 1608 R/TP R217 0RJ0000D677 0 OHM 1/10 W 5% 1608 R/TP R220 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R240 0RJ1001D677 1K OHM 1/10 W 5% 1608 R/TP R501 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R503 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R506 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP		Q803	0TR127309AA	KTA1273 TP KEC TO92 -Y(KTA96
R201 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R202 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R203 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R207 0RJ3900D677 390 OHM 1/10 W 5% 1608 R/TP R208 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R209 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R210 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R210 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R210 0RJ000D677 0 OHM 1/10 W 5% 1608 R/TP R217 0RJ0000D677 0 OHM 1/10 W 5% 1608 R/TP R220 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R240 0RJ1001D677 HX OHM 1/10 W 5% 1608 R/TP R501 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R503 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R506 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP		DECICEOE)_	
R202 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R203 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R207 0RJ3900D677 390 OHM 1/10 W 5% 1608 R/TP R208 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R209 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R210 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R216 0RJ0000D677 0 OHM 1/10 W 5% 1608 R/TP R217 0RJ0000D677 0 OHM 1/10 W 5% 1608 R/TP R220 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R240 0RJ1001D677 1K OHM 1/10 W 5% 1608 R/TP R501 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R503 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R506 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP		RESISTOR	35	
R203 ORJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R207 ORJ3900D677 390 OHM 1/10 W 5% 1608 R/TP R208 ORJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R209 ORJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R210 ORJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R216 ORJ000D677 0 OHM 1/10 W 5% 1608 R/TP R217 ORJ000D677 0 OHM 1/10 W 5% 1608 R/TP R220 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R240 ORJ1001D677 HX OHM 1/10 W 5% 1608 R/TP R501 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R503 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R506 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP		R201	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
R207 0RJ3900D677 390 OHM 1/10 W 5% 1608 R/TP R208 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R209 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R210 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R216 0RJ0000D677 0 OHM 1/10 W 5% 1608 R/TP R217 0RJ0000D677 0 OHM 1/10 W 5% 1608 R/TP R220 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R240 0RJ1001D677 1K OHM 1/10 W 5% 1608 R/TP R501 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R503 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R506 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP		R202	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
R208 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R209 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R210 0RJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R216 0RJ0000D677 0 OHM 1/10 W 5% 1608 R/TP R217 0RJ0000D677 0 OHM 1/10 W 5% 1608 R/TP R220 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R240 0RJ1001D677 1K OHM 1/10 W 5% 1608 R/TP R501 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R503 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R506 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP		R203	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
R208 ORJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R209 ORJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R210 ORJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R216 ORJ0000D677 0 OHM 1/10 W 5% 1608 R/TP R217 ORJ0000D677 0 OHM 1/10 W 5% 1608 R/TP R220 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R240 ORJ1001D677 1K OHM 1/10 W 5% 1608 R/TP R501 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R503 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R506 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP		R207	0RJ3900D677	390 OHM 1/10 W 5% 1608 R/TP
R209 ORJ0682D677 R210 ORJ0682D677 R216 ORJ000D677 R217 ORJ000D677 R217 ORJ000D677 R220 ORJ4701D677 R240 ORJ1001D677 R501 ORJ4701D677 R503 ORJ4701D677 R506 ORJ4701D677 R508 ORJ4701D677		R208	0RJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
R210 ORJ0682D677 68 OHM 1/10 W 5% 1608 R/TP R216 ORJ0000D677 0 OHM 1/10 W 5% 1608 R/TP R217 ORJ0000D677 0 OHM 1/10 W 5% 1608 R/TP R220 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R240 ORJ1001D677 1K OHM 1/10 W 5% 1608 R/TP R501 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R503 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R506 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP			0RJ0682D677	
R216 ORJ0000D677 O OHM 1/10 W 5% 1608 R/TP R217 ORJ0000D677 O OHM 1/10 W 5% 1608 R/TP R220 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R240 ORJ1001D677 1K OHM 1/10 W 5% 1608 R/TP R501 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R503 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R506 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP				
R217 0RJ0000D677 0 OHM 1/10 W 5% 1608 R/TP R220 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R240 0RJ1001D677 1K OHM 1/10 W 5% 1608 R/TP R501 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R503 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R506 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP				
R220 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R240 ORJ1001D677 1K OHM 1/10 W 5% 1608 R/TP R501 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R503 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R506 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 ORJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP				
R240 ORJ1001D677 1K OHM 1/10 W 5% 1608 R/TP R501 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R503 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R506 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP				
R501 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R503 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R506 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP				
R503 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R506 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP				
R506 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP R508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP				
R508 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP				
K5∠U UKJ4/U1D6// 4./K OHM 1/10 W 5% 1608 R/TP				
R521 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP				
R522 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP				
R523 0RJ4701D677 4.7K OHM 1/10 W 5% 1608 R/TP				
R530 0RJ1002D677 10K OHM 1/10 W 5% 1608 R/TP		R530	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP

*0	*^1	100 10	DARTNO	DATE: 2005. 11. 02.
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R534	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R535	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
		R537	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
		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- L1732S
		R560	0RJ4702D677	47000 OHM 1/10 W 5% 1608 R/T- L1932S
		R701	0RJ0752D677	75 OHM 1/10 W 5% 1608 R/TP
		R702 R703	0RJ2001D677 0RJ0752D677	2K OHM 1/10 W 5% 1608 R/TP 75 OHM 1/10 W 5% 1608 R/TP
		R703	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP
		R704	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 R747	0RJ4701D677 0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP 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- L1732S
		R805	0RH2000D622	200 OHM 1 / 10 W 5% D R/TP- L1732S
		R806	0RH2000D622	200 OHM 1 / 10 W 5% D R/TP- L1732S
		R808	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R814 R815	0RJ2202D677 0RJ5600D677	22K OHM 1/10 W 5% 1608 R/TP- L1932S 560 OHM 1/10 W 5% 1608 R/TP- L1932S
		R816	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP-L19325
		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
		THERs		
		X501	6212AA2004A	HC-49U TXC 12.0MHZ +/- 30 PP
	С	ONTROL	BOARD	
		SW1	140-058E	SKHV10910B LGEC NON 12V 20A
		SW2	140-058E	SKHV10910B LGEC NON 12V 20A
		SW3	140-058E	SKHV10910B LGEC NON 12V 20A
		SW4	140-058E	SKHV10910B LGEC NON 12V 20A

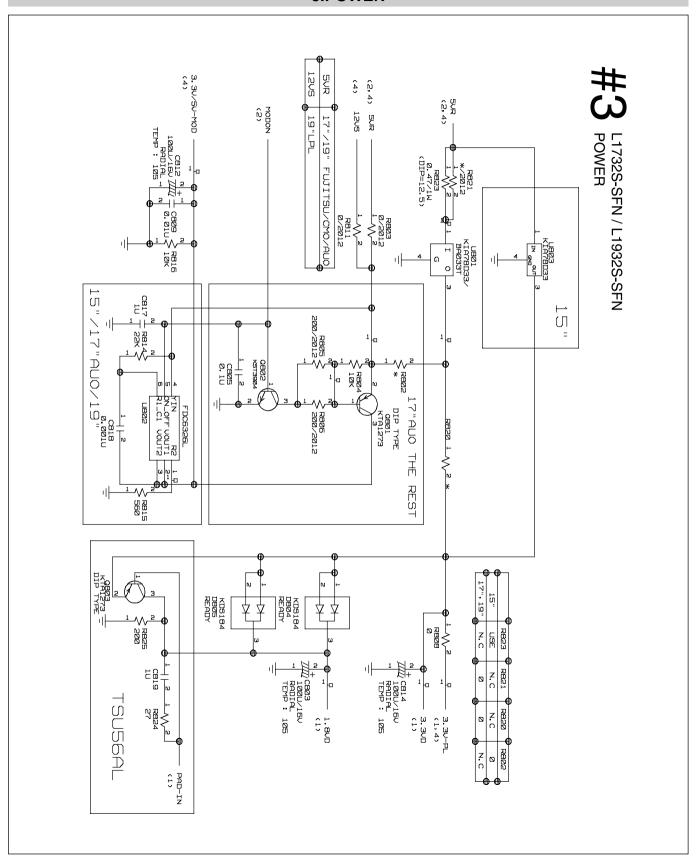
				DATE: 2005. 11. 02.
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		SW5 C1 C2 D1 D2 Q1 Q2 R1 R2 R3 R4 R5 R6 R7 R8 R9 ZD1	140-058E 0CK104CK56A 0CK104CK56A 0DLBE0168AA 0DLBE0168AA 0TRKE80046A 0TRKE80046A 0RJ4701D677 0RJ2001D677 0RJ2001D677 0RJ7500D677 0RJ7500D677 0RJ3300D677 0DZ560009GB	SKHV10910B LGEC NON 12V 20A 0.1UF 1608 50V 10% R/TP X7R 0.1UF 1608 50V 10% R/TP X7R BRIGHT LED ELECTRONICS BL-HB BRIGHT LED ELECTRONICS BL-HB 2N3904S KEC R/TP SOT23 60V 2 4.7K OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP 2K OHM 1/10 W 5% 1608 R/TP 2K OHM 1/10 W 5% 1608 R/TP 4.7K OHM 1/10 W 5% 1608 R/TP 750 OHM 1/10 W 5% 1608 R/TP 750 OHM 1/10 W 5% 1608 R/TP 330 OHM 1/10 W 5% 1608 R/TP 330 OHM 1/10 W 5% 1608 R/TP "BZT52C5V6S-(F),LF DIODES R/T"

SCHEMATIC DIAGRAM

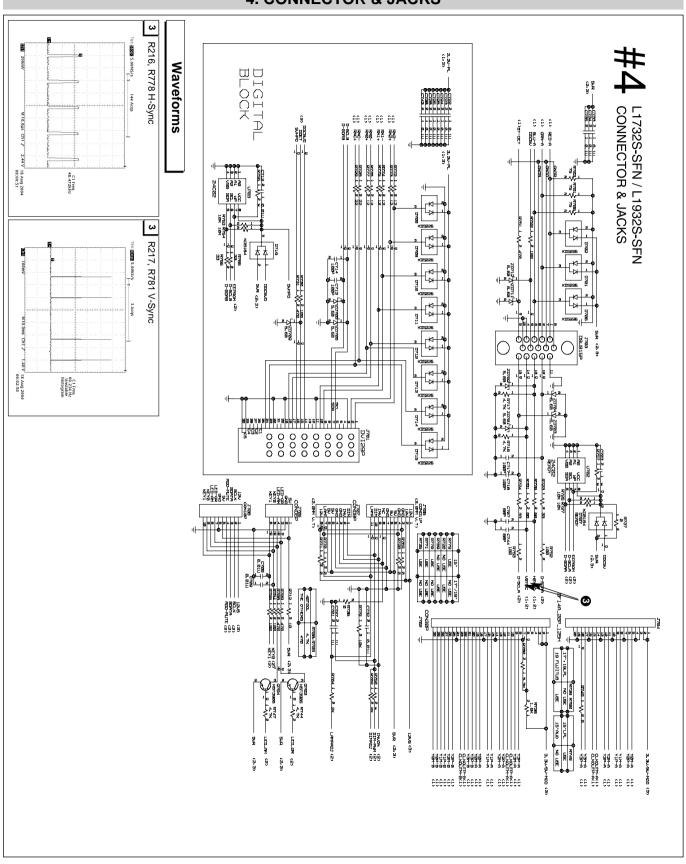


2. MICOM 2 (3, 4) U501-#43 H-SYNC (3, 4) (4) DIM-PWM Waveforms SC N L1732S-SFN / L1932S-SFN MICOM R545 - W-- 3.83 - 3.33 1 \R547 478 9 18 Aug 2004 09:00:51 C1 Freq 48.472KHz î X-H C507 2 ANALOG NO USE DIGITAL USE U501-#44 V-SYNC 6. 810 C283 NH CSB4 IMIV312PLCC MTV312PLCC 18 Aug 2004 09:02:50 C1 Freq 60.234 Hz Unstable histogram R544 ADO-MUTE (4) SUR (3,4) INUON (4) ΣĀ 44 P R555 L W 2 100 42 P R557 L W 2 100 42 P R557 L W 2 100 41 P 0000 (S) E) 4 15"/19"/17"AU 47K 24L CØ8B U5Ø2 8438 C588 $\frac{2}{8501} \cdot \frac{1}{1} \cdot \frac{2}{1} \cdot \frac{4.7K}{2}$ 28 AC SCLK (4) SUR (3) USYNC (1,4) HSYNC (1,4) HSYNC (1,4) DDET (4,4) DIMADJ (1,4) LAMPADJ (4) MODON 332332323 ŝ

3.POWER



4. CONNECTOR & JACKS





Nov. 2005 P/NO : 38289S0009Q Printed in Korea