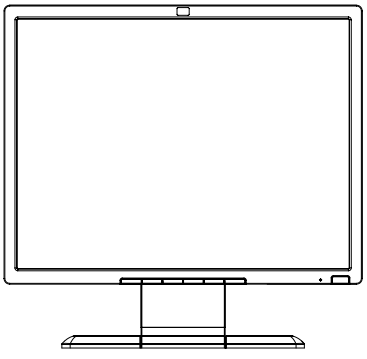
COLOR MONITOR
SERVICE MANUAL

CHASSIS NO. : CL-96
MODEL: LP2065

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



CONTENTS

SPECIFICATIONS

1. LCD CHARACTERISTICS

Type	: TFT Color LCD Module
Active Display Area	: 20.1inch diagonal
Pixel Pitch	: 0.255 (per one triad) x 0.255
Size	: 432(W) x 331.5(H) x 25.0(D)
Color Depth	:16.7M colors
Electrical Interface	: LVDS
Surface Treatment	: Hard Coating(3H), Anti-Glare treatment of the front polarizer
Operating Mode	: Normally Black
Backlight Unit	: 6-CCFL

2. OPTICAL CHARACTERISTICS

2-1. Viewing Angle by Contrast Ratio ≥ 10

Left : -178 Typ Right : +178 Typ
Top : +178 Typ Bottom : -178 Typ

2-2. Luminance : 250(min), 300(Typ)

2-3. Contrast Ratio : 800 : 1 (Typ)

3. SIGNAL (Refer to the Timing Chart)

3-1. Sync Signal
- Type : Separate Sync, Digital, SOG

3-2. Video Input Signal

1) Type	: R, G, B Analog
2) Voltage Level	: 0~0.7 V
a) Color 0, 0	: 0 Vp-p
b) Color 7, 0	: 0.35 Vp-p
c) Color 15, 0	: 0.7 Vp-p
3) Input Impedance	: 75 Ω

3-3. Operating Frequency

Horizontal(Analog)	: 30 ~ 94kHz
Horizontal(Digital)	: 30 ~ 91.2kHz
Vertical	: 48 ~ 85Hz

4. MAX. RESOLUTION

D-sub Analog	: 1600 x 1200@75Hz
DVI Digital	: 1600 x 1200@60Hz

5. POWER SUPPLY

5-1. Power Adaptor(Built-in Power)
Input : 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 70 W	GREEN
STAND-BY	OFF/ON	OFF	less than 2 W	AMBER
SUSPEND	ON/OFF	OFF	less than 2 W	AMBER
DPMS OFF	OFF/OFF	OFF	less than 2 W	AMBER
POWER S/W OFF	-	-	less than 1W	OFF

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	: 40,000 Hours(Min)

7. DIMENSIONS (with TILT/SWIVEL)

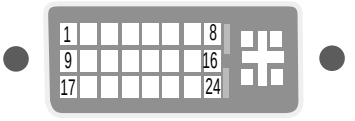
Width	: 442 mm (17.40")
Depth	: 277.5 mm (10.93")
Height	: 426 mm (16.77")

8. WEIGHT (with TILT/SWIVEL)

Net. Weight	: 9.9 kg (21.83 lbs)
Gross Weight	: 12.89 kg (28.42 lbs)

Signal Connector Pin Assignment

• DVI-I Connector (Digital/Analog)



Pin	Signal (DVI-I)	Pin	Signal (DVI-I)
1	T. M. D. S. Data2-	16	Hot Plug Detect
2	T. M. D. S. Data2+	17	T. M. D. S. Data0-
3	T. M. D. S. Data2/4 Shield	18	T. M. D. S. Data0+
4	T. M. D. S. Data4-	19	T. M. D. S. Data0/5 Shield
5	T. M. D. S. Data4+	20	T. M. D. S. Data5-
6	DDC Clock	21	T. M. D. S. Data5+
7	DDC Data	22	T. M. D. S. Clock Shield
8	Analog Vertical Sync.	23	T. M. D. S. Clock+
9	T. M. D. S. Data1-	24	T. M. D. S. Clock-
10	T. M. D. S. Data1+	C1	Analog Red
11	T. M. D. S. Data1/3 Shield	C2	Analog Green
12	T. M. D. S. Data3-	C3	Analog Blue
13	T. M. D. S. Data3+	C4	Analog H. Sync.
14	+5V Power	C5	Analog Ground
15	Ground (return for +5V, H. Sync. and V. Sync.)		

T. M. D. S. (Transition Minimized Differential Signaling)

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

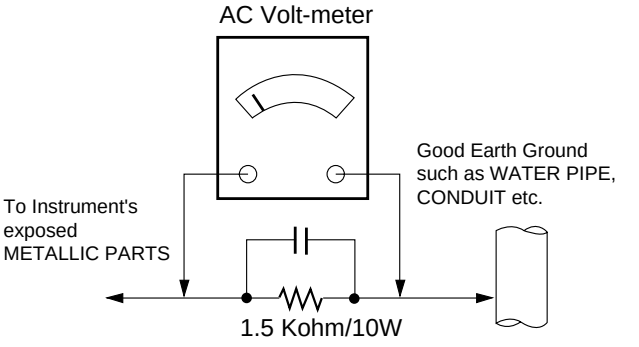
Please use only a plastic screwdriver to protect yourself from shock hazard during service operation.

⚠ 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

1. Always unplug the receiver AC power cord from the AC power source before;
   a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
   b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
      CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
   d. Discharging the picture tube anode.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe.
   Do not test high voltage by "drawing an arc".
3. Discharge the picture tube anode only by (a) first connecting one end of an insulated clip lead to the degaussing or kine aquadag grounding system shield at the point where the picture tube socket ground lead is connected, and then (b) touch the other end of the insulated clip lead to the picture tube anode button, using an insulating handle to avoid personal contact with high voltage.
4. Do not spray chemicals on or near this receiver or any of its assemblies.
5. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)
   CAUTION: This is a flammable mixture.
   Unless specified otherwise in this service manual, lubrication of contacts in not required.
6. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
7. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
8. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
   Always remove the test receiver ground lead last.
9. *Use with this receiver only the test fixtures specified in this service manual.*
   CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

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

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

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500˚F to 600˚F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a 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.
   c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
      CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach a normal temperature (500˚F to 600˚F)
   b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
      CAUTION: Work quickly to avoid overheating the circuit board printed foil.
   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

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

Removal

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

Replacement

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

"Small-Signal" Discrete Transistor Removal/Replacement

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

Power Output, Transistor Device Removal/Replacement

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

Diode Removal/Replacement

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

Fuse and Conventional Resistor Removal/Replacement

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

Circuit Board Foil Repair

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

At IC Connections

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

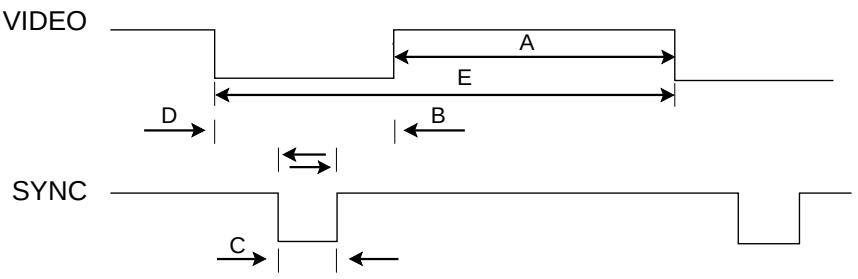
1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire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

At Other Connections

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

1. Remove the defective copper pattern with a sharp knife.
   Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.
   Carefully crimp and solder the connections.
   CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

TIMING CHART



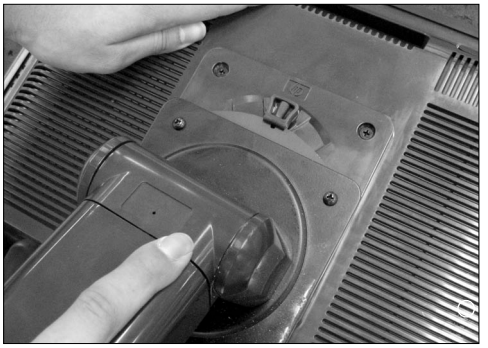
MODE	H / V	Sync Polarity	Dot Clock	Frequency	Total Period (E)	Total Period (E)	Video Active Time (A)	Front Porch (C)	Sync Duration (D)	Back Porch (F)	Resolution
1	H	-	28.35	31.500 KHz	900	720	180	108	54	18	720 x 400
	V	+		70.156 Hz	449	400	49	3	34	12	
2	H	-	25.175	31.469KHz	800	640	160	96	48	16	640 x 480
	V	-		59.940 Hz	525	480	45	2	33	10	
3	H	-	31.5	37.50KHz	840	640	200	64	120	16	640 x 480
	V	-		75.0 Hz	500	480	20	3	16	1	
4	H	-	36	43.269KHz	832	640	192	56	80	56	640 x 480
	V	-		85.008 Hz	509	480	29	3	25	1	
5	H	+	40	37.879 KHz	1056	800	256	128	88	40	800 x 600
	V	+		60.317 Hz	628	600	28	4	23	1	
6	H	+	56.25	53.670KHz	1048	800	248	64	152	32	800x600
	V	+		85.06 Hz	631	600	31	3	27	1	
7	H	-	57.285	49.727 KHz	1152	832	320	64	224	32	832 x 624
	V	-		74.553 Hz	667	624	43	3	37	3	(MAC16")
8	H	-	65	48.363 KHz	1344	1024	320	136	160	24	1024 x 768
	V	-		60.004 Hz	806	768	38	6	29	3	
9	H	+	78.75	60.023 KHz	1312	1024	288	96	176	16	1024 x 768
	V	+		75.029 Hz	800	768	32	3	28	1	
10	H	+	94.5	68.677 KHz	1376	1024	352	96	208	48	1024 x 768
	V	+		85 Hz	808	768	40	3	36	1	
11	H	-	100	68.681 KHz	1456	1152	304	128	144	32	1152 x 870
	V	-		75.062 Hz	915	870	45	3	39	3	(MAC 21)
12	H	-	92.94	61.795KHz	1504	1152	352	128	194	30	1152x900
	V	-		65.950Hz	937	900	37	4	31	2	
13	H	+	108	60.000 KHz	1800	1280	520	112	312	96	1280 x 960
	V	+		60.000 Hz	1000	960	40	3	36	1	
14	H	+	108	63.981 KHz	1688	1280	408	112	248	48	1280 x1024
	V	+		60.020 Hz	1066	1024	42	3	38	1	
15	H	+	135	79.976 KHz	1688	1280	408	144	248	16	1280 x 1024
	V	+		75.025 Hz	1066	1024	42	3	38	1	
16	H	+	157.5	91.146 KHz	1728	1280	448	160	224	64	1280 X 1024
	V	+		85.02 Hz	1072	1024	48	3	44	1	
17	H	+	162	75 KHz	2160	1600	560	192	304	64	1600x1200
	V	+		60 Hz	1250	1200	50	3	46	1	
18	H	+	202.5	93.75 KHz	2160	1600	560	192	304	64	1600x1200
	V	+		75 Hz	1250	1200	50	3	46	1	

DISASSEMBLY

 # 1

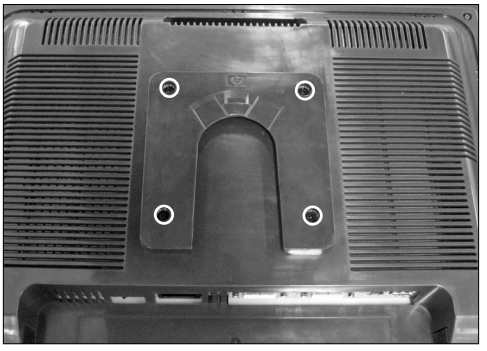
Like the picture move.

 # 2



Remove the stand.

 # 3



Remove the screws.

 # 4

Remove the screws.

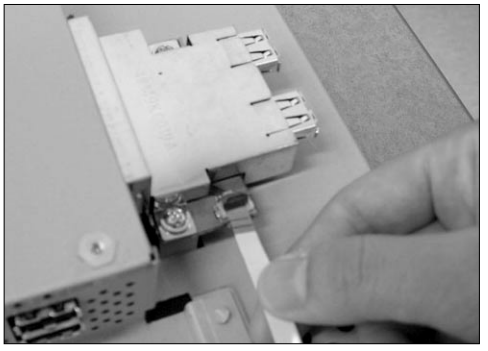
 # 5

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

 # 6

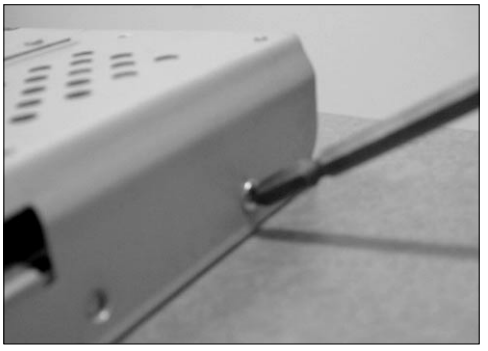
Disassemble back cover.

 # 7



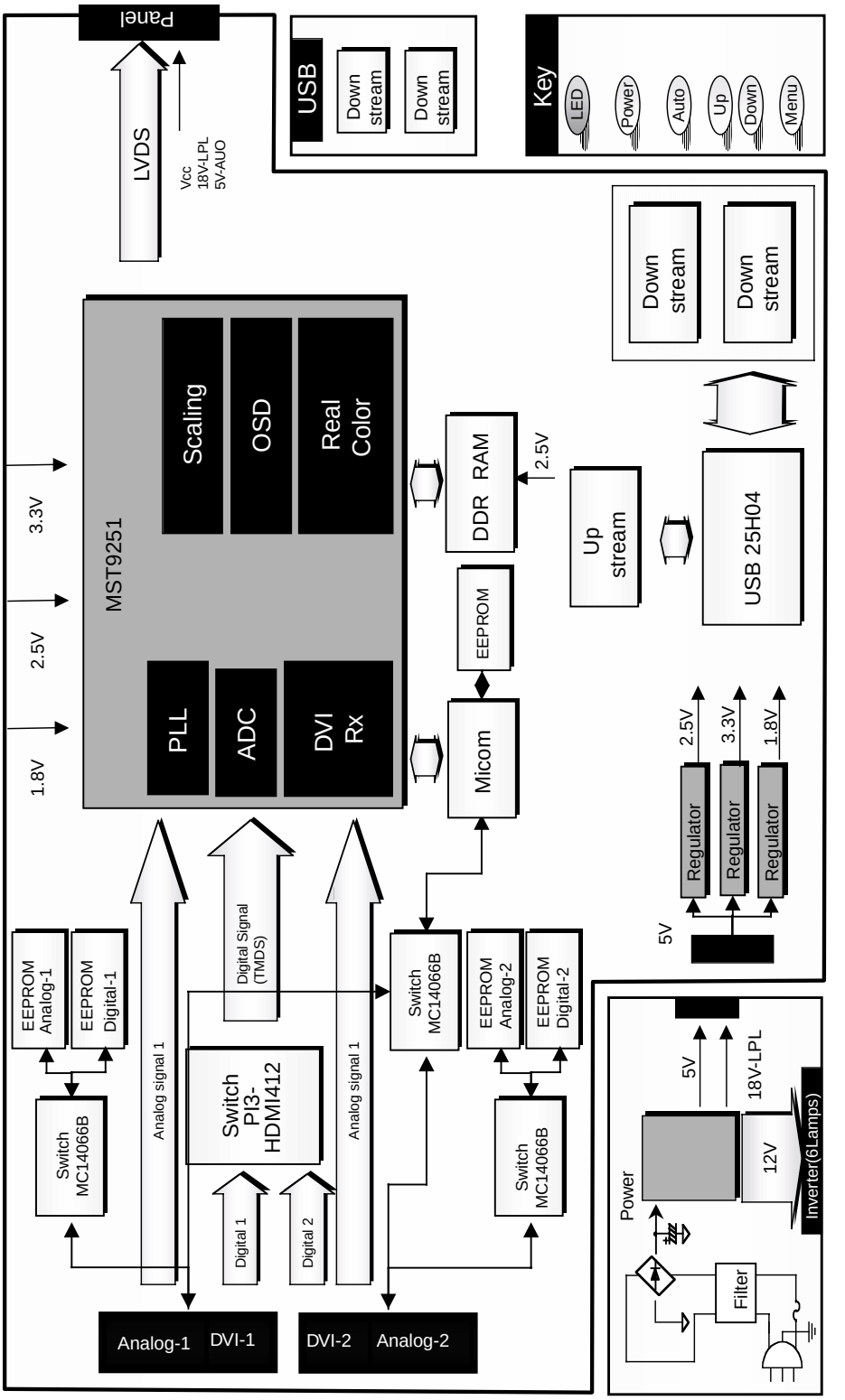
Pull out the usb pcb.

 # 8



Remove the 4 screws from each side of metal frame.

BLOCK DIAGRAM



DESCRIPTION OF BLOCK DIAGRAM

1. Video Controller Part & Display Data Transmitter Part.(MST9251A)

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 205MHz.
This part consists of the Scaler, DDR-RAM IC which stores program data, Reset IC.
The Scaler gets the video signal converted analog to digital, interpolates input to 1600 X 1200 resolution signal and outputs 8-bit R, G, B signal to transmitter.
Especially pre-amp / ADC / Video controller/ Transmitter are merged to one chip 'MST9251A' by M-star.
This part transmit digital signal from the Scaler to the receiver of module.

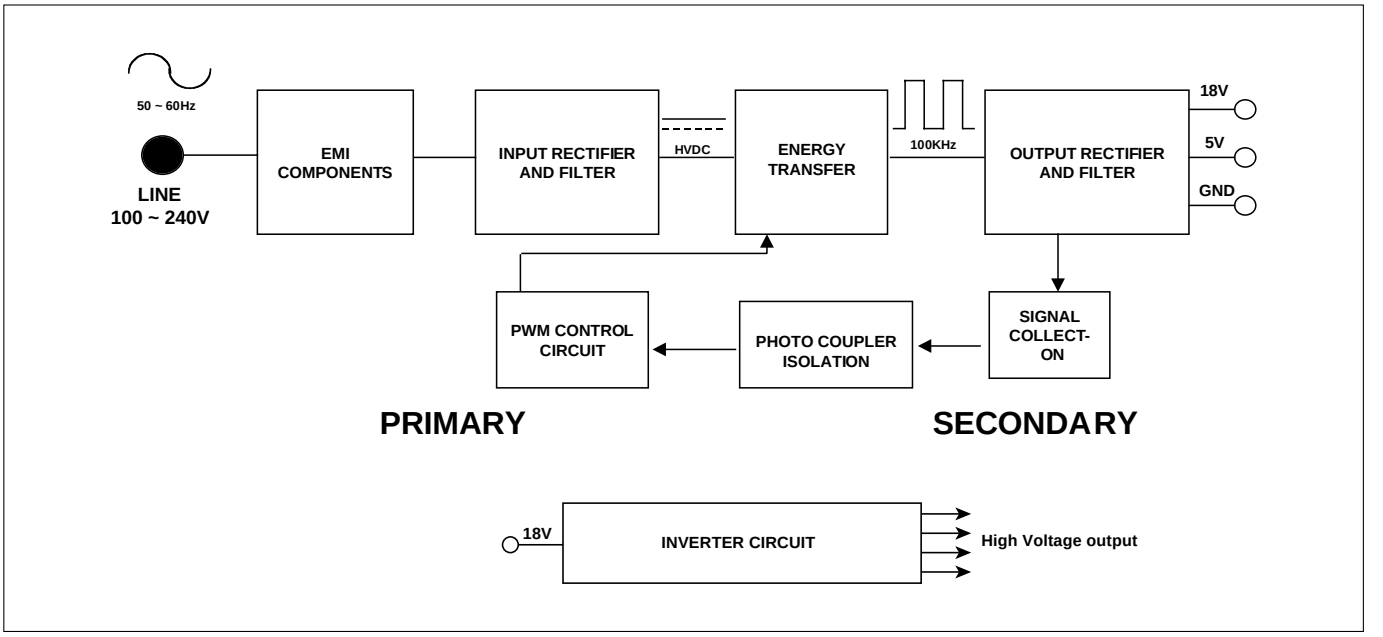
2. Power Part.

This part consists of the 3.3V, 2.5V and 1.8V regulators to convert power which is provided 5V in Power board.
18V is provided for LCD panel .
Also, 5V is converted 3.3V, 2.5V and 1.8V by regulator. Converted power is provided for IC in the main board.

3. MICOM Part.

This part consists of EEPROM IC which stores control data 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 for 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 achieve the dc output stabilized, 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.

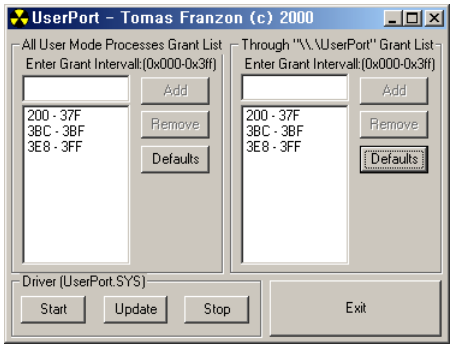
7. Inverter
The inverter converts from DC18V to AC 700V and operate back-light lamp of module.

ADJUSTMENT

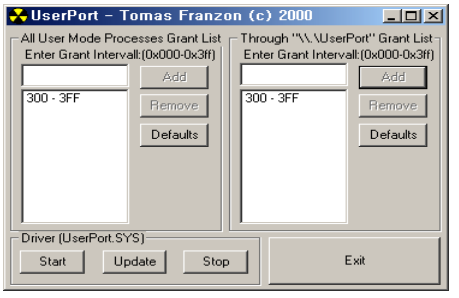
Windows EDID V1.0 User Manual

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

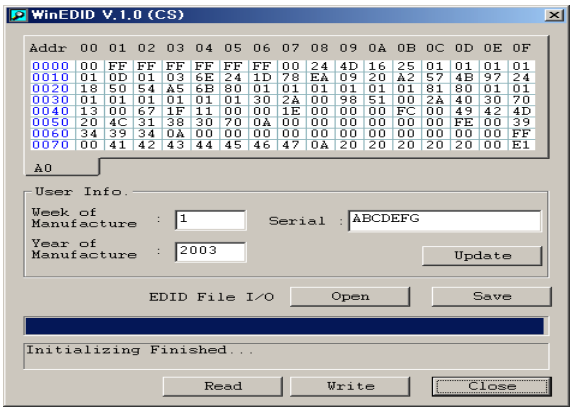


   c) Remove all default number
   d) Add 300-3FF

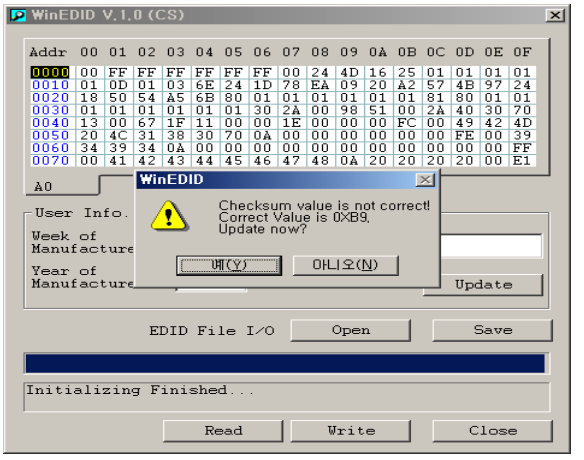


   e) Click Start button.
   f) Click Exit button.

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



   2) 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, MINUS and POWER switch with 1 second interval.

3) The SVC OSD menu contains additional menus that the User OSD menu as described below.

a) Exit
b) ADC CAL. : W/Balance and Automatically sets the gain and offset value.
c) Nvram Initial : EEPROM initialize.
d) AGING : Select Aging mode(on/off).
e) Module select : Select applied module.
f) EDID select : Select Analog/Digital EDID when Aging ON.
g) 9300K : Allows you to set the R/G/B-9300K value manually.
6500K : Allows you to set the R/G/B-6500K value manually.
Offset : Allows you to set the R/G/B-Offset value manually.
Gain : Allows you to set the R/G/B-Gain value manually.

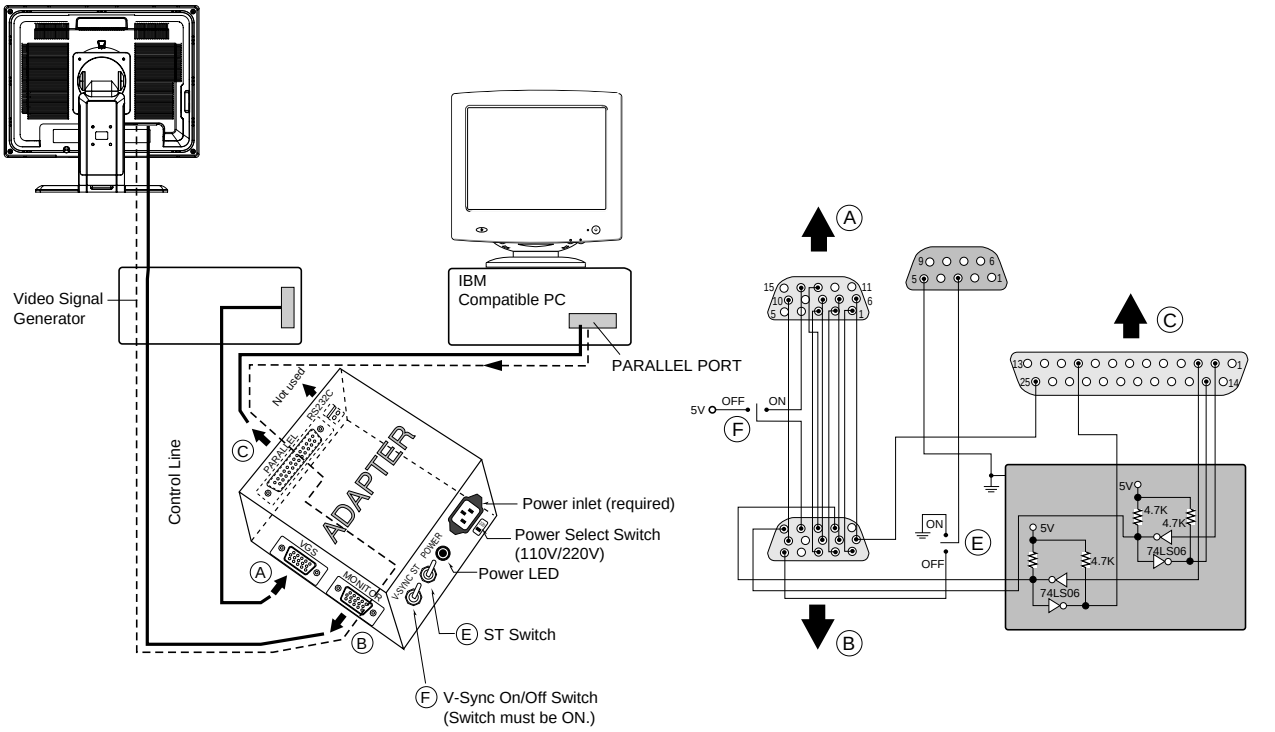
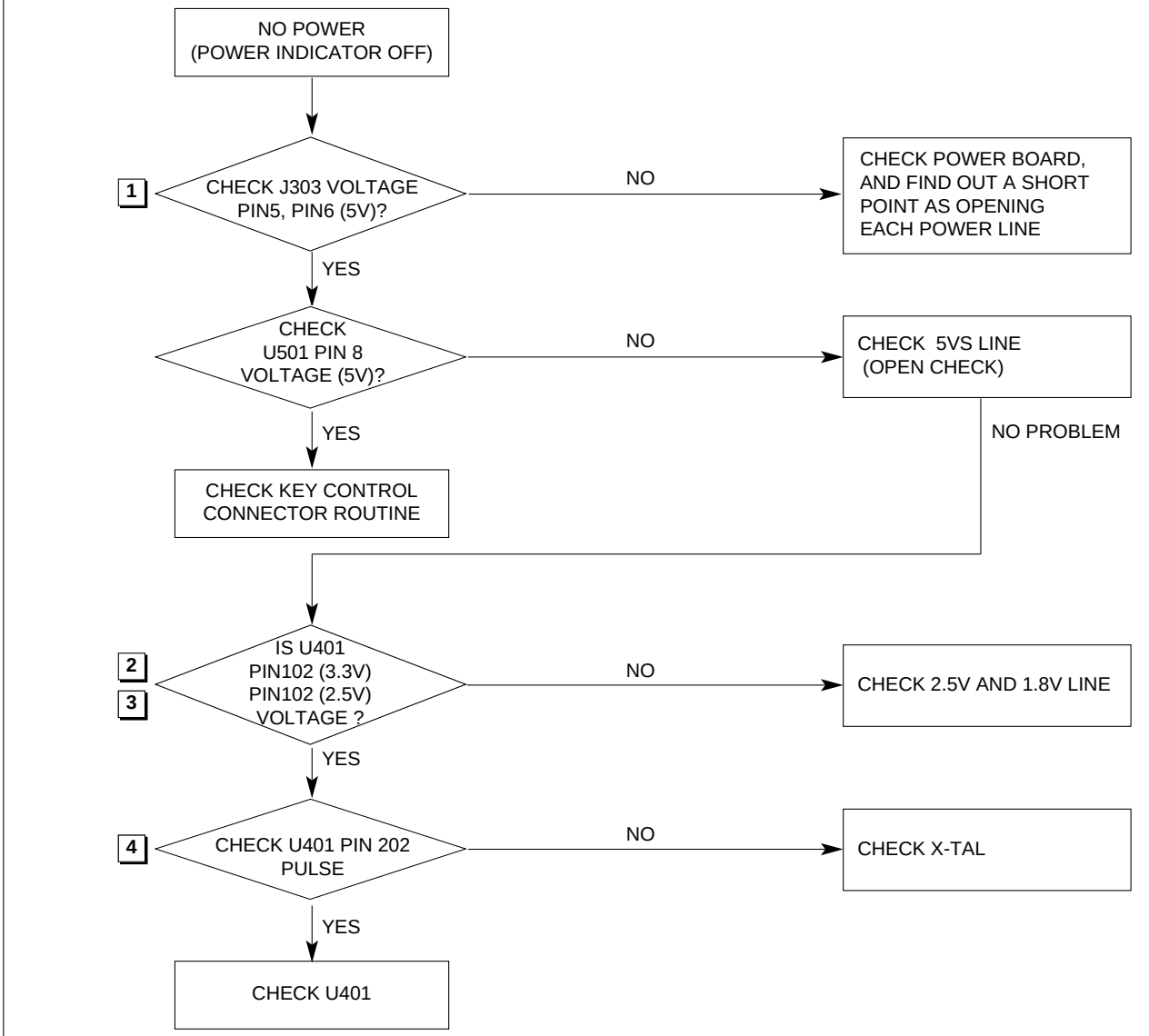


Figure 1. Cable Connection

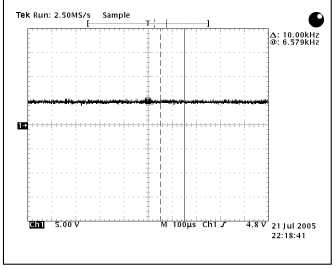
TROUBLESHOOTING GUIDE

1. NO POWER

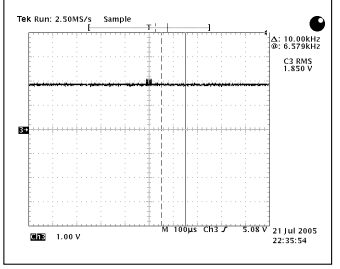


Waveforms

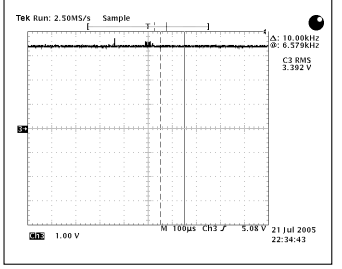
1 J303-#5,6 (5V)



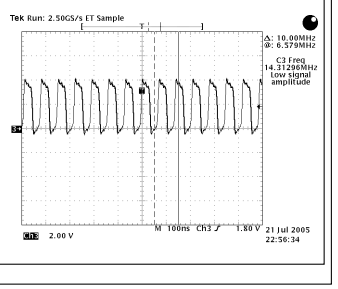
2 U401-#102(3.3V)



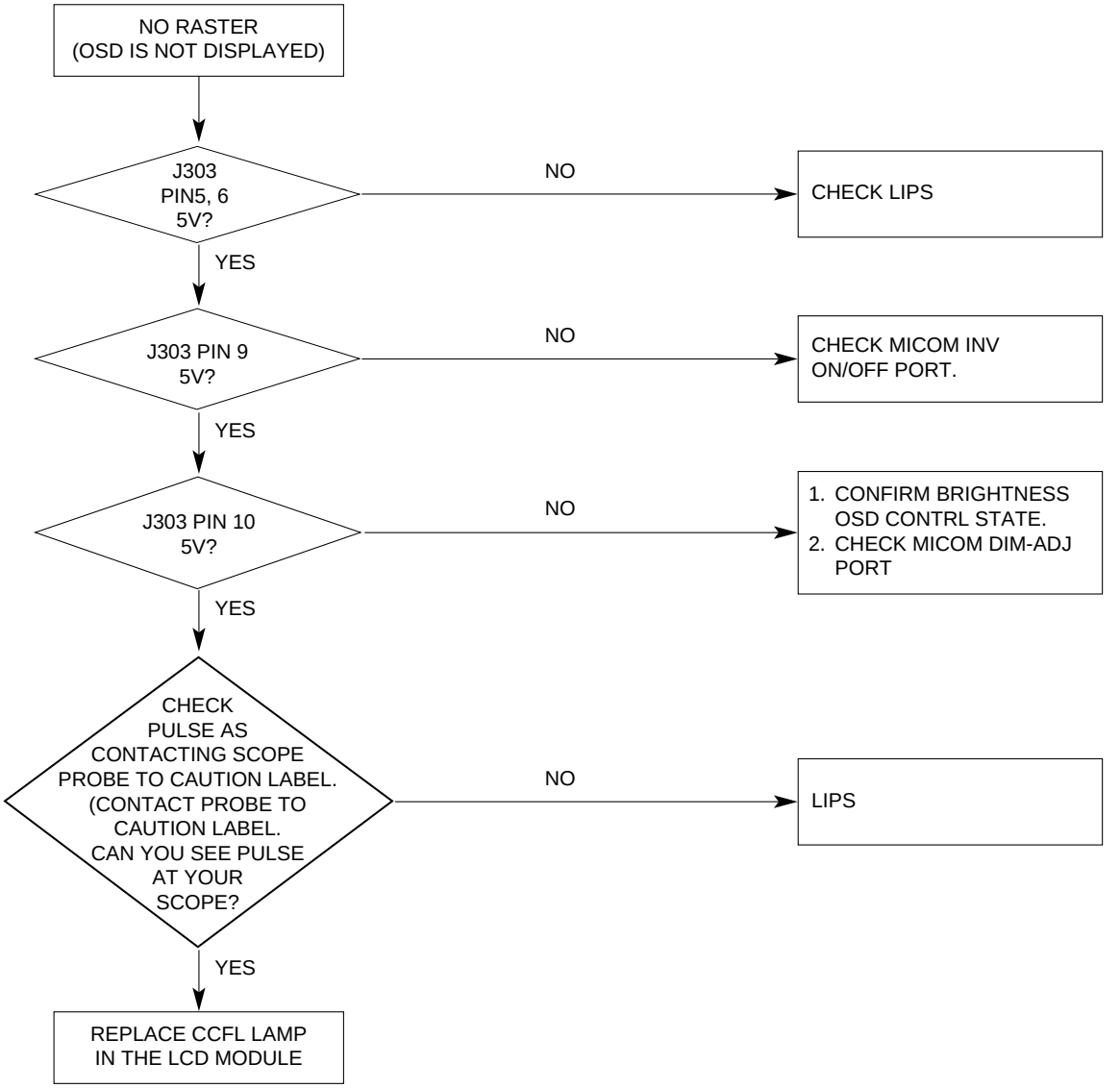
3 U401-#102(2.5V)



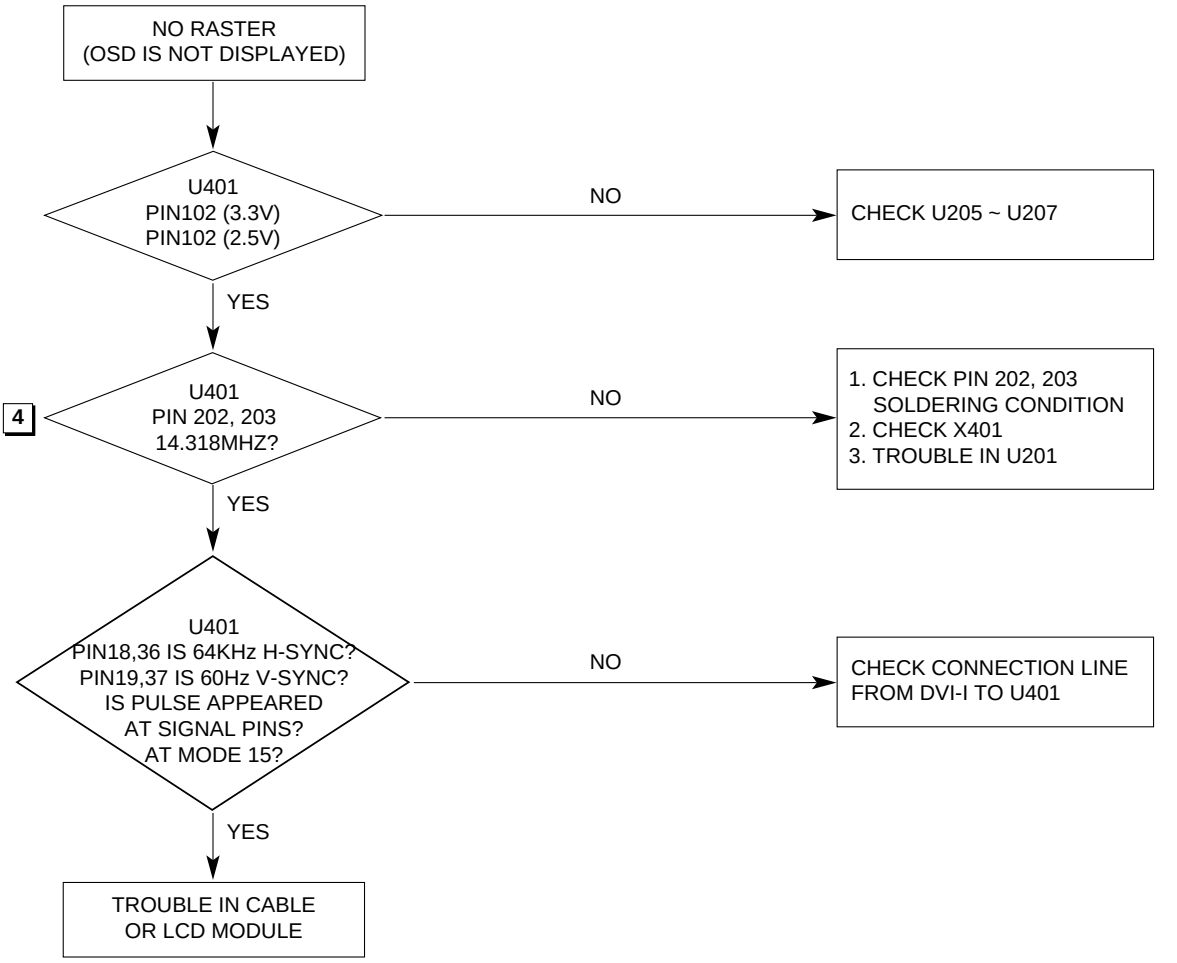
4 U401-#202



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

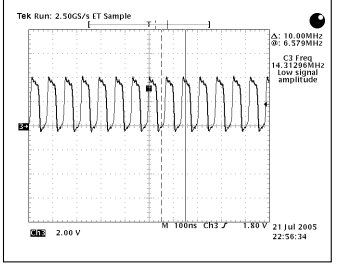


3. NO RASTER (OSD IS NOT DISPLAYED) - MAIN

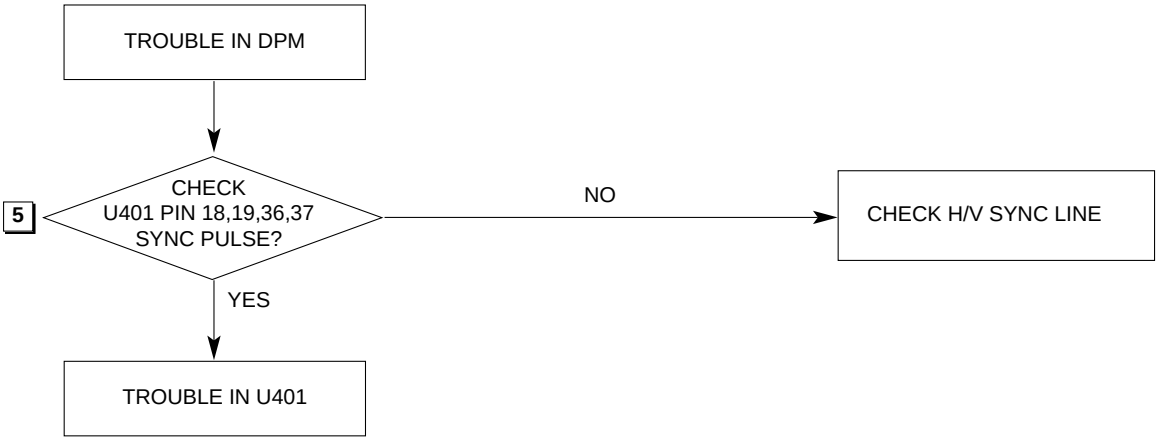


Waveforms

4 U401-#202, 203

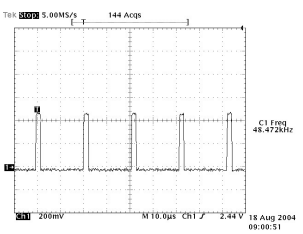


4. TROUBLE IN DPM

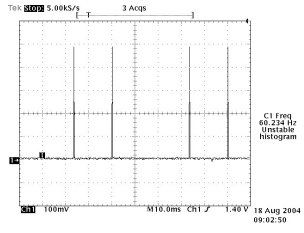


Waveforms

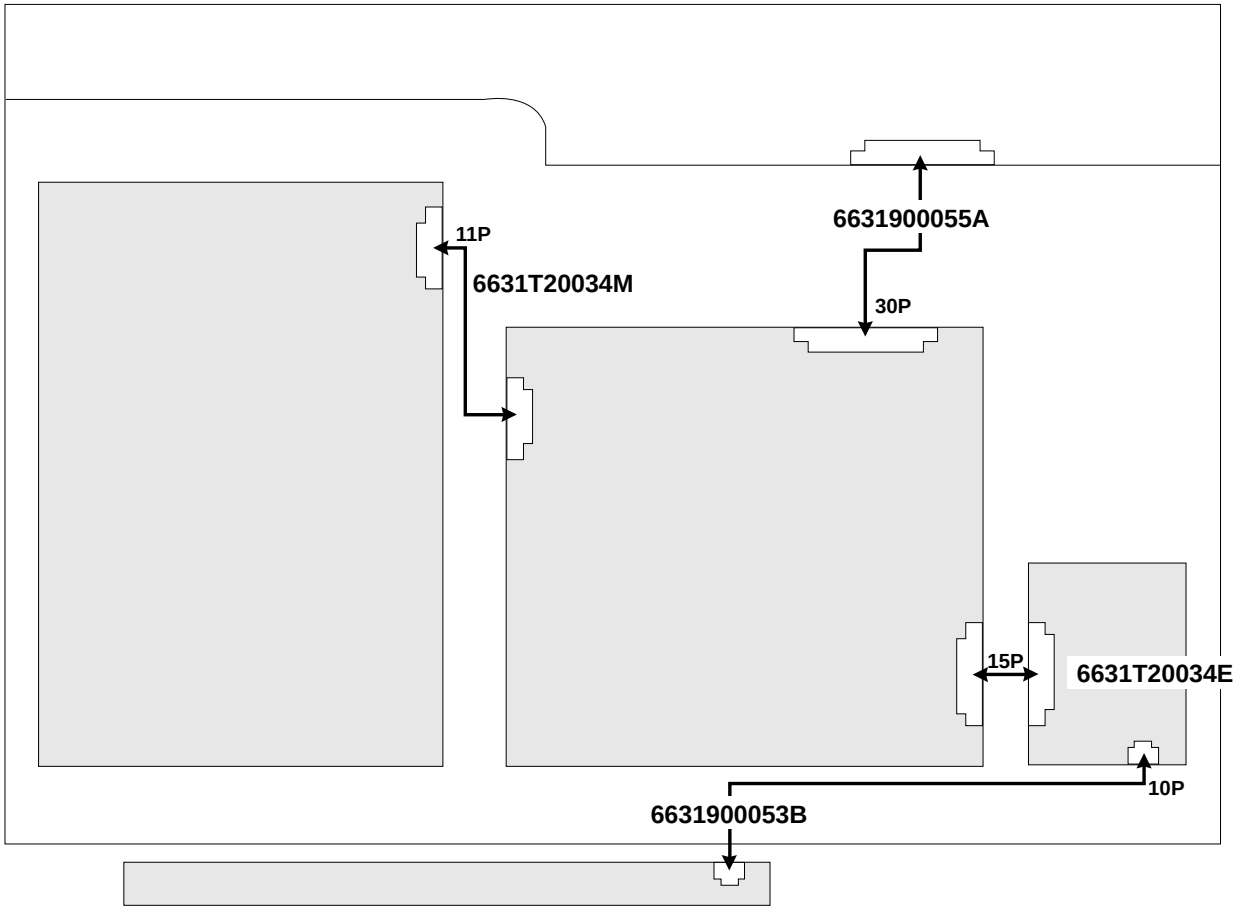
5 U401-#18,36 H-SYNC



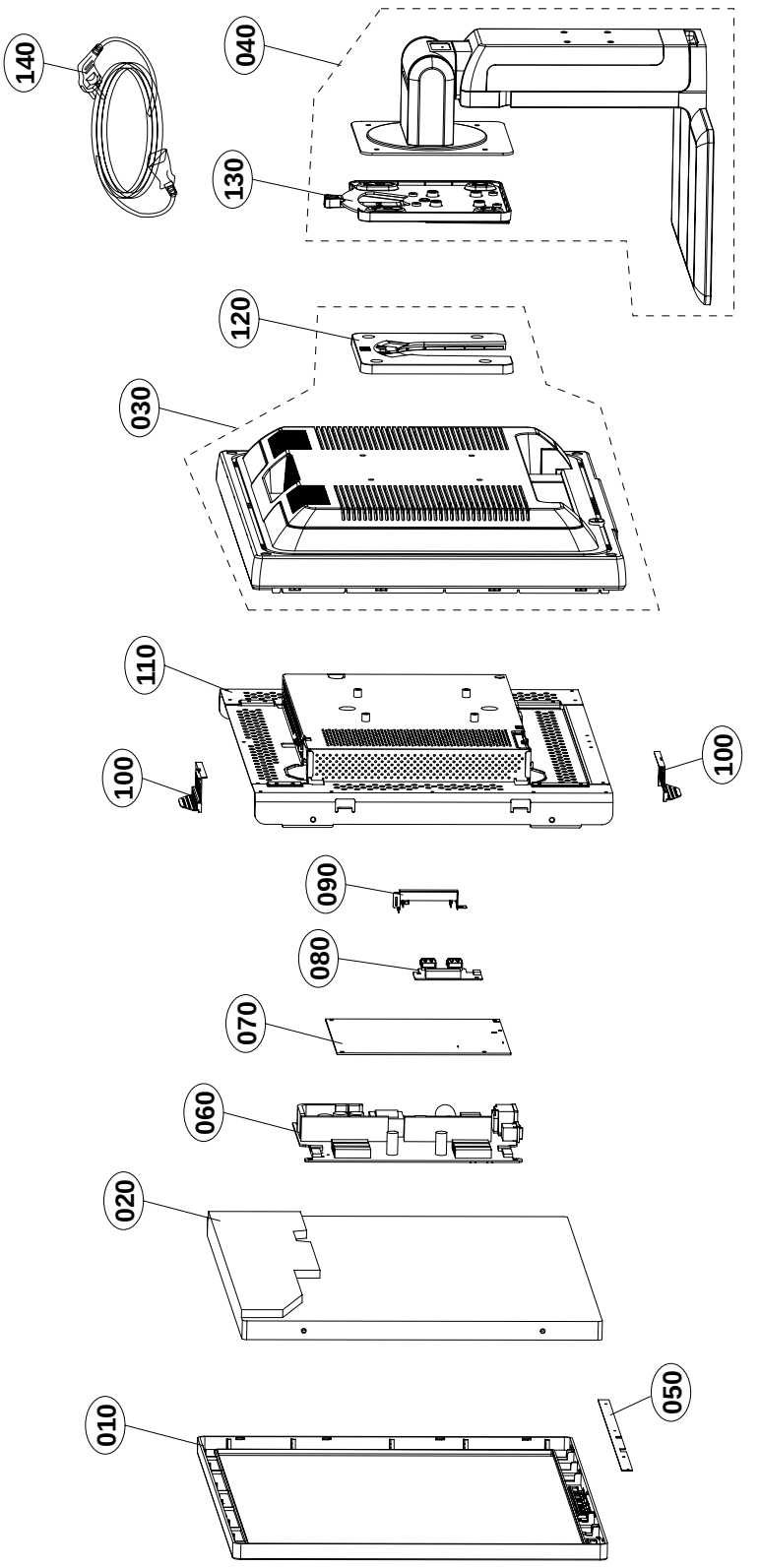
5 U401-#19,37 V-SYNC



WIRING DIAGRAM



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

*** Note:** Safety mark ⚠

Ref. No.		Part No.	Description
010	⚠	30919L0006A	Cover Assembly, LH2065N H/PACKARD 30909L0004A HP
020	⚠	6304FLP325B	LCD,Module-TFT, LM201U05-SLA3 DRIVER 20.1INCH 1600X1200 300CD COLOR 72% 4/3 800 VS. 1 8MS GTG, 178/178, 6LAMP, IMPROVED GHOST & IMAGE STICKING OF LM201U05-SLA1 LG PH
030	⚠	3809900115A	Cover Assembly, LH2065N NON HP
040	⚠	3043900007D	Base Assembly, BASE LHP2065N CL96 NT LOCAL STAND_LHP2065N
050		68719ST865A	PCB Assembly,Sub, SUB T.T CL96 LH2065N KLUSEPT -
060	⚠	6709900008A	SMPS,AC/DC, FSP060-3PI01 110.0VTO230.0V 60W 50TO60HZ - 20.1INCH LCD
070		33139L2008A	Main Total Assembly, LH2065N H/PACKARD CL-96.
080		68719ST864A	PCB Assembly,Sub, SUB T.T CL96 LH2065N KLUSEPT -
090		48149K0019A	Plate, PRESS SPTE T0.3 USB SHIELD LH2065N HP
100		4814TKK264A	Plate, PRESS SECC T0.3 INVERTER LL180PL SHIELD
110		49519S0015A	Plate Assembly, FRAME HP
120		49509K0278A	Plate, FIX HP QUICK RELEASE
130		35519K0008A	Cover Assembly, LH2065N REAR 35509K0151A QUICK RELEASE
140		6410TEW010A	Power Cord, CEE,LP-34A&H05VV-FX3C,LS-60_1.87M_BLK LP-34A LS-60 1.87M - 250V 16A H05VV-F 3X0.75MM2 BLACK VDE SEMKO N LONGWELL COMPANY-**For Europe**
		6410TSW003A	Power Cord, LP-23A+SAG18N<B10A&LS-13_1.87M_BLK LP-23A LS-13 1.87M - 250V 7.5A GFC-3R 3X0.75MM2 BLACK SAA N-**For Australia**
		6410TJW005A	Power Cord, PSE,LP-54 & VTF18OXC70A & LS-13J_1.87M_BLK LP-54 LS-13J 1.87M - 125V 7A VCTF 3X0.75MM2 BLACK PSE N-**For Japan**
		6410TUW008A	Power Cord, UL_CSA,LP-31 & SVT 18X3C, LS-13_1.87M_BLK LP-31 LS-13 1.87M - 125V 10A SVT 3XAWG18 BLACK UL CSA N-**For U.S.A**

REPLACEMENT PARTS LIST

CAUTION: BEFORE REPLACING ANY OF THESE COMPONENTS,
READ CAREFULLY THE **SAFETY PRECAUTIONS** IN THIS MANUAL.
* NOTE : **S** SAFETY Mark ⚠
AL ALTERNATIVE PARTS

DATE: 2006. 11. 20.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		MAIN BOARD		
		CAPACITORS		
		C202	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C203	JCE475EK638	KMG5.0TP50VB4.7M 4.7uF 20% 5
		C204	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C205	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C206	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C207	JCE477EF638	KMG5.0TP16VB470M 470uF 20% 1
		C208	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C209	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C210	JCE107EH638	KMG5.0TP25VB100M 100uF 20% 2
		C213	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C214	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C218	JCE227BF638	KME5.0TP16VB220M 220uF 20% 1
		C220	JCE107EF638	KMG5.0TP16VB100M 100uF 20% 1
		C221	0CK105DK94A	0805F105Z500CT 1uF -20TO+80%
		C223	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C224	JCE107EF638	KMG5.0TP16VB100M 100uF 20% 1
		C226	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C227	JCE107EF638	KMG5.0TP16VB100M 100uF 20% 1
		C228	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C229	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C236	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C250	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C251	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C252	JCE227BF638	KME5.0TP16VB220M 220uF 20% 1
		C301	JCE107EH638	KMG5.0TP25VB100M 100uF 20% 2
		C302	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C303	JCE107EF638	KMG5.0TP16VB100M 100uF 20% 1
		C304	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C305	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C306	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C308	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C310	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C311	0CK105DK94A	0805F105Z500CT 1uF -20TO+80%
		C313	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C314	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C316	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
		C318	0CC680CK41A	C1608C0G1H680JT 68pF 5% 50V
		C320	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C321	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C322	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C323	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C324	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C325	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C326	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C327	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C328	0CK224CF56A	0603B224K160CT 220nF 10% 16V
		C329	0CK474CH94A	0603F474Z250CT 470nF -20TO+8
		C330	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C331	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C332	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C333	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C334	0CK103CK51A	0603B103K500CT 10nF 10% 50V

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C335	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C336	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C337	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C338	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C341	0CC680CK41A	C1608C0G1H680JT 68pF 5% 50V
		C343	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
		C344	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
		C349	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C350	0CK224CF56A	0603B224K160CT 220nF 10% 16V
		C351	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C352	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C353	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C354	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C355	0CK474CH94A	0603F474Z250CT 470nF -20TO+8
		C356	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C357	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C358	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C359	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C360	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C361	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C362	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C363	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C364	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C365	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C366	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C367	0CK102CK56A	0603B102K500CT 1nF 10% 50V X
		C368	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C369	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
		C370	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
		C371	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
		C372	0CC680CK41A	C1608C0G1H680JT 68pF 5% 50V
		C373	0CC680CK41A	C1608C0G1H680JT 68pF 5% 50V
		C375	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C376	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C377	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C380	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C381	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C401	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C402	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C403	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C404	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C405	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C406	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C407	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C408	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C409	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C410	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C411	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C412	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C414	0CC270CK41A	C1608C0G1H270JT 27pF 5% 50V
		C415	0CC270CK41A	C1608C0G1H270JT 27pF 5% 50V
		C416	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C417	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C418	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C419	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C420	0CC100CK41A	C1608C0G1H100JT 10pF 5% 50V
		C421	0CC100CK41A	C1608C0G1H100JT 10pF 5% 50V
		C422	0CC100CK41A	C1608C0G1H100JT 10pF 5% 50V
		C423	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C428	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C429	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C430	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C431	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C433	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C440	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C441	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C450	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C451	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C452	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C453	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C456	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C457	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C458	0CK102CK56A	0603B102K500CT 1nF 10% 50V X
		C459	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C460	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C461	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C462	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C464	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C470	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C471	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C472	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C473	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C474	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C475	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C476	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C477	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C478	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C479	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C480	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C481	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C485	0CC100CK41A	C1608C0G1H100JT 10pF 5% 50V
		C486	0CC100CK41A	C1608C0G1H100JT 10pF 5% 50V
		C487	0CC100CK41A	C1608C0G1H100JT 10pF 5% 50V
		C490	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C491	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C492	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C495	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C496	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C497	0CK473CK56A	C1608X7R1H473KT 47nF 10% 50V
		C498	0CK102CK56A	0603B102K500CT 1nF 10% 50V X
		C500	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C501	JCE106EK638	KMG5.0TP50VB10M 10uF 20% 50V
		C502	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
		C503	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V
		C505	0CC680CK41A	C1608C0G1H680JT 68pF 5% 50V
		C506	0CC680CK41A	C1608C0G1H680JT 68pF 5% 50V
		C512	0CC330CK41A	C1608C0G1H330JT 33pF 5% 50V
		C513	0CC330CK41A	C1608C0G1H330JT 33pF 5% 50V
		C516	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C604	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V
		C605	0CK102CK56A	0603B102K500CT 1nF 10% 50V X
		C606	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C609	JCE106EK638	KMG5.0TP50VB10M 10uF 20% 50V
		C610	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C611	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V
		C612	0CC360CK41A	C1608C0G1H360JT 36pF 5% 50V

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C613	0CC360CK41A	C1608C0G1H360JT 36pF 5% 50V
		C614	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C615	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C616	0CK103CK51A	0603B103K500CT 10nF 10% 50V
		C618	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C619	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C620	JCE106EK638	KMG5.0TP50VB10M 10uF 20% 50V
		C621	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO+
		C622	JCE227BF638	KME5.0TP16VB220M 220uF 20% 1
		C624	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C625	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C626	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C627	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C628	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C629	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C630	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C631	JCE107EF638	KMG5.0TP16VB100M 100uF 20% 1
		C632	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C633	0CK472CK51A	C1608Y5P1H472KT 4.7nF 10% 50
		C634	JCE107EF638	KMG5.0TP16VB100M 100uF 20% 1
		C635	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C636	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C637	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V
		C638	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V
		DIODEs		
		D304	0DD184009AA	KDS184 KDS184 TP KEC - 85V -
		D317	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D318	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D319	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D320	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D321	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D322	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D323	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D324	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D325	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D326	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D327	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D332	0DSON00138A	MMBD301LT1G 600MV 30V - - 1.
		D334	0DSON00138A	MMBD301LT1G 600MV 30V - - 1.
		D335	0DSON00138A	MMBD301LT1G 600MV 30V - - 1.
		D340	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D341	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D342	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D343	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D344	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D345	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D346	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D347	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D348	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D349	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D350	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D355	0DD184009AA	KDS184 KDS184 TP KEC - 85V -
		D356	0DSON00138A	MMBD301LT1G 600MV 30V - - 1.
		D601	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D602	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D603	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D604	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D605	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D606	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		F201	0IPRP00682A	ICP-N70 50V 0 0V 2.5A 0W DIP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		ZD301	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD302	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD303	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD304	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD305	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD309	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD315	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD316	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD317	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD318	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD319	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD330	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD331	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD332	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD333	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD334	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD337	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD338	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD339	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD601	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD602	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
	ICs			
		Q503	0IKE704200H	KIA7042AP -0.3TO15V 4.2V 400
		U205	0IPMGFA003E	FAN1086-1.5A 4TO7V 2.5V - SO
		U206	0IPMGSG016A	LD1086D2T18TR 3.4TO30V 1.8V
		U207	0IRH033200A	BA033FP-E2 4.3TO25V 3.3V 1W
		U208	0IPMG00028A	AZ1117H-1.5TRE1 3TO10V 1.5V
		U303	0IMMR00014A	M24C02-RMN6TP 2KBIT 256X8BIT
		U304	0IMMR00014A	M24C02-RMN6TP 2KBIT 256X8BIT
		U330	0IMMR00014A	M24C02-RMN6TP 2KBIT 256X8BIT
		U331	0IMMR00014A	M24C02-RMN6TP 2KBIT 256X8BIT
		U332	0ISTL00031A	MC74HC4066ADR2G MC74HC4066AD
		U333	0ISTL00031A	MC74HC4066ADR2G MC74HC4066AD
		U334	0ISTL00031A	MC74HC4066ADR2G MC74HC4066AD
		U335	0IPRP00651A	PI3HDMI412ZHE 1.5TO2V - - 50
		U401	0IPRP00575B	"MST9251A-LF-205 3VTO3.6V,2.2"
		U402	0IMMRHY051B	HY5DU283222AQP-4 128MBIT 1MX
		U501	0IZZ9H0082A	MTV412PMV MTV412PMV128 MYSON
		U502	0IMMRSG036B	M24C16-WMN6TP 16KBIT 2KX8BIT
		U603	0ITI204200B	"TPS2042ADRG4,LF 2.7TO5.5V 20"
		U604	0ITI204200B	"TPS2042ADRG4,LF 2.7TO5.5V 20"
		U605	0IPRP00016A	USB2504-JT 2.97TO3.63V 1.62T
		U606	0IPMGFA003G	FAN1117AS33X 4.8TO10.3V 3.3V
	FILTERs			
		L201	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1
		L202	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1
		L402	6200J00005E	HH-1M2012-601JT 600OHM 2X1.2
		L403	6200J00005E	HH-1M2012-601JT 600OHM 2X1.2
		L405	6200J00005E	HH-1M2012-601JT 600OHM 2X1.2
		L406	6200J00005E	HH-1M2012-601JT 600OHM 2X1.2
		L407	6200J00005E	HH-1M2012-601JT 600OHM 2X1.2
		L409	6200J00005E	HH-1M2012-601JT 600OHM 2X1.2
		L601	6210TCE001S	HU-1M2012-121 120OHM 2X1.25X
		L604	6210TCE001Z	HH-1M2012-600JT 60OHM 2X1.25
		L605	6210TCE001Z	HH-1M2012-600JT 60OHM 2X1.25

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
	TRANSISTOR			
		Q201	0TR390409AE	KST3904 NPN 6V 60V 40V 200MA
		Q202	0TR390409AE	KST3904 NPN 6V 60V 40V 200MA
		Q301	0TR390609FA	KST3906-MTF PNP -5V -40V -40
		Q302	0TR390609FA	KST3906-MTF PNP -5V -40V -40
		Q305	0TR390409AE	KST3904 NPN 6V 60V 40V 200MA
		Q306	0TR390409AE	KST3904 NPN 6V 60V 40V 200MA
		Q320	0TR390409AE	KST3904 NPN 6V 60V 40V 200MA
		Q321	0TR390409AE	KST3904 NPN 6V 60V 40V 200MA
		Q322	0TR162309CA	KSC1623-Y(MTF) NPN 5V 60V 50
		Q323	0TR162309CA	KSC1623-Y(MTF) NPN 5V 60V 50
		Q324	0TR162309CA	KSC1623-Y(MTF) NPN 5V 60V 50
		Q502	0TR390409AE	KST3904 NPN 6V 60V 40V 200MA
		Q506	0TR390409AE	KST3904 NPN 6V 60V 40V 200MA
	RESISTORs			
		R201	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8W
		R202	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8W
		R203	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8W
		R204	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8W
		R205	0RH1002D622	MCR10EZHJ103 10KOHM 5% 1/8W
		R206	0RX0221K668	RSD02F4J2R20 2.2OHM 5% 2W 12
		R207	0RX0331K668	RSD02F4J3R30 3.3OHM 5% 2W 12
		R208	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10W
		R209	0RX0331K668	RSD02F4J3R30 3.3OHM 5% 2W 12
		R212	0RJ5600D677	MCR03EZPJ561 560OHM 5% 1/10W
		R222	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R223	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W
		R224	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W
		R225	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W
		R227	0RX0331K668	RSD02F4J3R30 3.3OHM 5% 2W 12
		R245	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 20
		R3001	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W
		R3002	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R3003	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W
		R3004	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W
		R3005	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W
		R3006	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W
		R3007	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W
		R3008	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W
		R3009	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W
		R301	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R3010	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W
		R3011	0RJ1501D677	MCR03EZPJ152 1.5KOHM 5% 1/10
		R3012	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W
		R3013	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W
		R3014	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W
		R3015	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W
		R3016	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W
		R3017	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W
		R3018	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W
		R3019	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W
		R302	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R3020	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3022	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R3023	0RJ1200D677	MCR03EZPJ121 120OHM 5% 1/10W
		R303	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R3030	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R3031	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R3032	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1
		R3033	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R3035	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10
		R304	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R305	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R306	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R307	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R308	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R309	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W
		R310	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R311	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W
		R312	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R313	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R314	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R315	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R316	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R317	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R318	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R320	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R322	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R324	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R325	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R328	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R330	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W
		R333	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R334	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R336	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R337	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R338	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R339	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R341	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R344	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R345	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R346	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R347	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R349	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R350	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R351	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R353	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R354	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R355	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R356	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R358	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R359	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R362	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W
		R363	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R364	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W
		R365	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R366	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R367	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R368	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R370	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W
		R371	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R372	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R373	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R375	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R376	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R377	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R378	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W
		R379	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W
		R380	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W
		R381	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 20
		R382	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R383	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R384	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R385	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R386	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R387	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R388	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R389	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R390	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R391	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R392	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R393	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R394	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R396	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R397	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R398	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R401	0RJ3900D677	MCR03EZPJ391 390OHM 5% 1/10W
		R402	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R403	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R416	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R417	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W
		R418	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W
		R419	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W
		R420	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R422	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R423	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W
		R426	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R427	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R450	0RJ1002D477	MCR03EZPF103 10KOHM 1% 1/10W
		R451	0RJ1002D477	MCR03EZPF103 10KOHM 1% 1/10W
		R452	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10W
		R453	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R454	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R455	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R456	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R459	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R460	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W
		R461	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R462	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W
		R463	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W
		R465	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W
		R466	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R467	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R468	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R472	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R473	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R502	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R503	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R504	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R505	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R507	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R508	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R511	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R512	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R514	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W
		R517	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R521	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R522	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R523	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R525	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R526	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R527	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R528	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R529	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R530	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R532	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10
		R533	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R534	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R535	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10
		R536	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R537	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R540	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R541	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R566	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R567	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R571	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R572	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R574	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R575	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R578	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10
		R579	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R580	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W
		R581	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W
		R585	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R586	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W
		R587	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R588	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R590	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R591	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R592	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R593	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R594	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R595	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R598	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R599	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W
		R601	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W
		R602	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10W
		R603	0RJ5600D677	MCR03EZPJ561 560OHM 5% 1/10W
		R606	0RJ1004D677	MCR03EZPJ105 1MOHM 5% 1/10W
		R607	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W
		R608	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10
		R609	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10
		R610	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W
		R615	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10
		R616	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W
		R617	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W
		R618	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W
		R621	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R622	0RJ1102D677	MCR03EZPJ113 11KOHM 5% 1/10W
		R623	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1
		R624	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 1
		R628	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W
		R629	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W
		R630	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W
		R631	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W
		R632	0RJ1004D677	MCR03EZPJ105 1MOHM 5% 1/10W
		R633	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10
		RA401	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RA402	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RA403	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RA404	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RA405	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RA406	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RA407	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RA408	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RA409	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W

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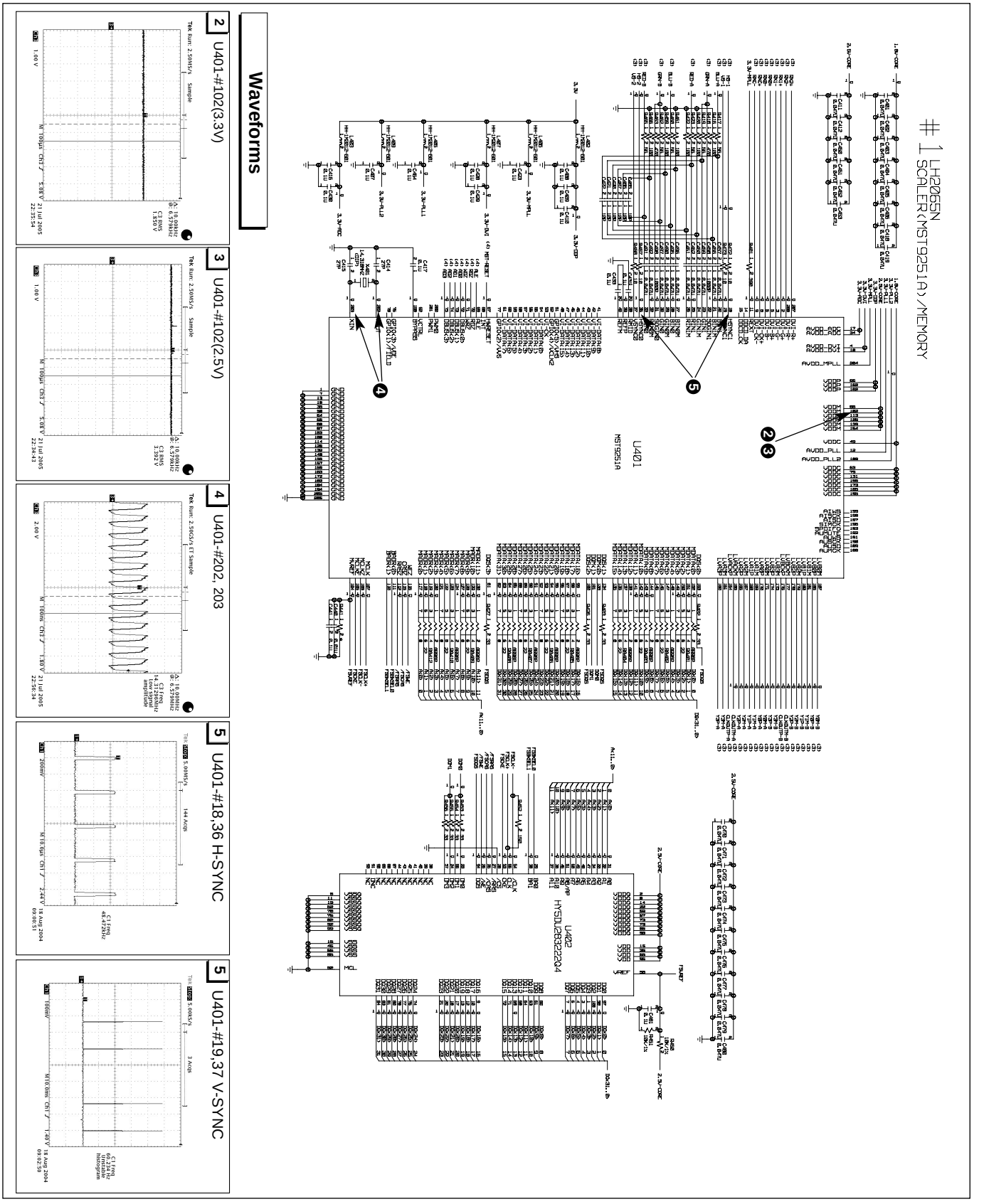
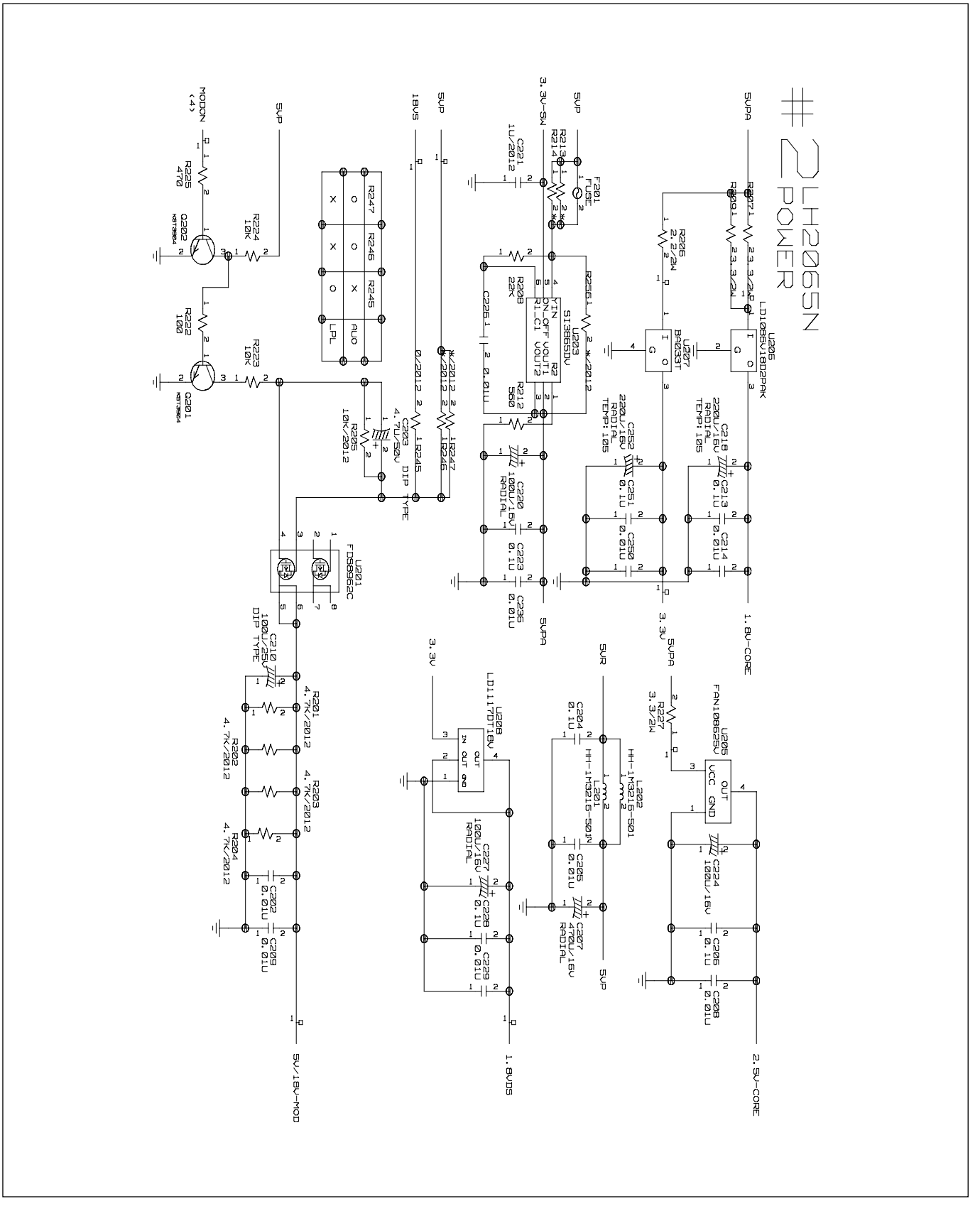
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		RA410	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		RA412	0RJ0222C687	RCA86TRJ22R0 22OHM 5% 1/16W
		OTHERs		
		U201	0TFFC80054A	FDS8962C N/P-CHANNEL 30V +-2
		U203	0TFVI80067A	SI3865BDV(E3) N-CHANNEL MOSF
		U601	0TFVI80067A	SI3865BDV(E3) N-CHANNEL MOSF
		X401	6212AA2004F	HC-49/U 14.31818MHZ 30PPM 14
		X501	6212AA2005C	HC-49/S 12MHZ 30PPM 12MHZ 30
		X601	6212AA2004C	HC-49/U 24MHZ 30PPM 24MHZ 30
		CONTROL BOARD		
		LED701	0DLLT0208AA	LTST-C155KGJSKT YELLOW/GREEN
		R701	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		R702	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10
		SW701	6600R00004C	JTP1127WEM 1C1P 15VDC 0.05A
		SW702	6600R00004C	JTP1127WEM 1C1P 15VDC 0.05A
		SW703	6600R00004C	JTP1127WEM 1C1P 15VDC 0.05A
		SW704	6600R00004C	JTP1127WEM 1C1P 15VDC 0.05A
		SW705	6600R00004C	JTP1127WEM 1C1P 15VDC 0.05A
		ZD701	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD702	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		USB BOARD		
		C801	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 1
		C802	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C803	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 1
		C804	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C805	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C806	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C807	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		C808	0CK104CK56A	0603B104K500CT 100nF 10% 50V
		D801	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D802	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D803	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		D804	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NS
		L801	6210TCE001Z	HH-1M2012-600JT 60OHM 2X1.25
		L802	6210TCE001Z	HH-1M2012-600JT 60OHM 2X1.25
		ZD501	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60
		ZD502	0DZ560009DA	UDZS5.6B 5.6V 5.49TO5.73V 60

SCHEMATIC DIAGRAM

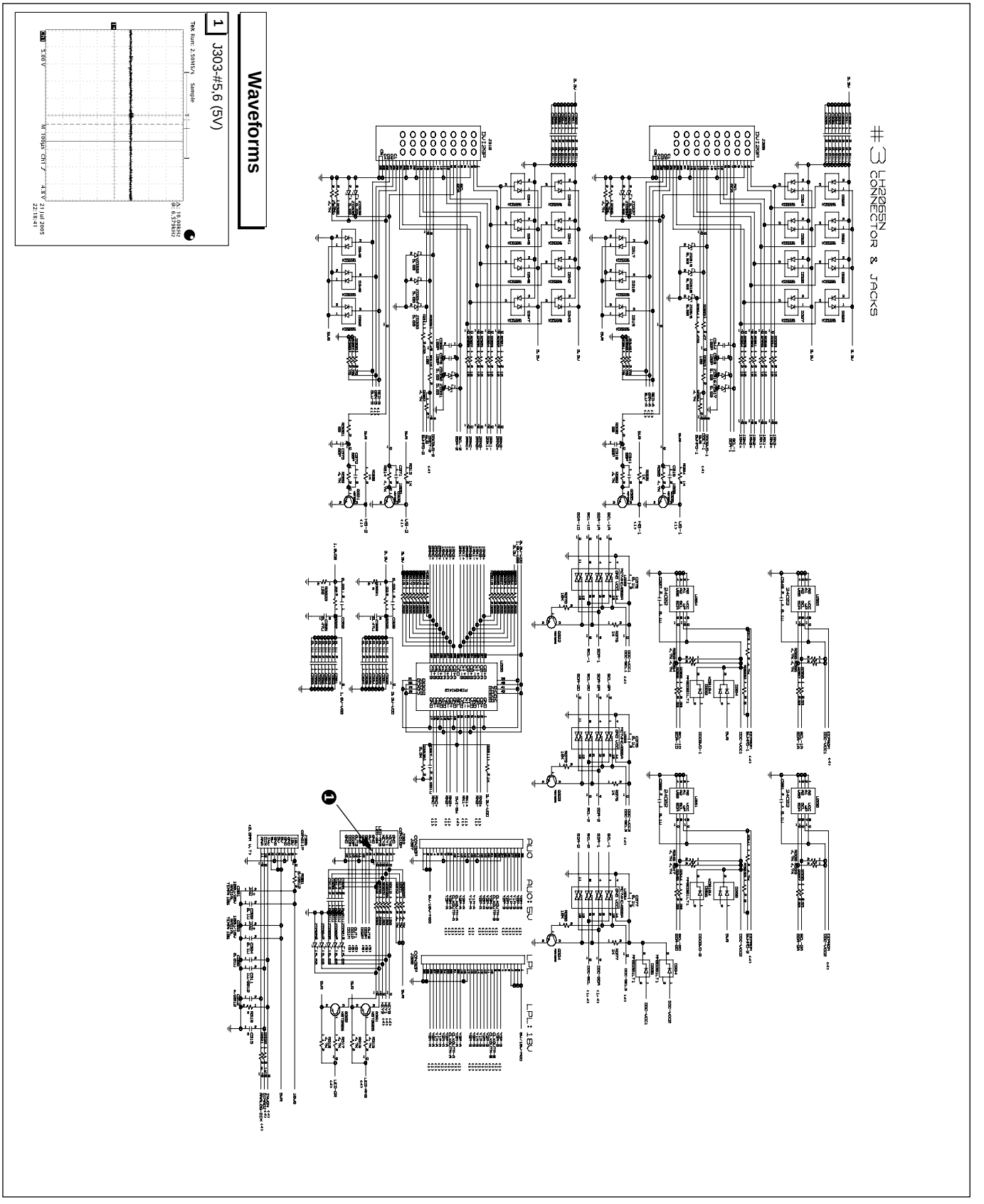
1. SCALER (MST9251A) / MEMORY



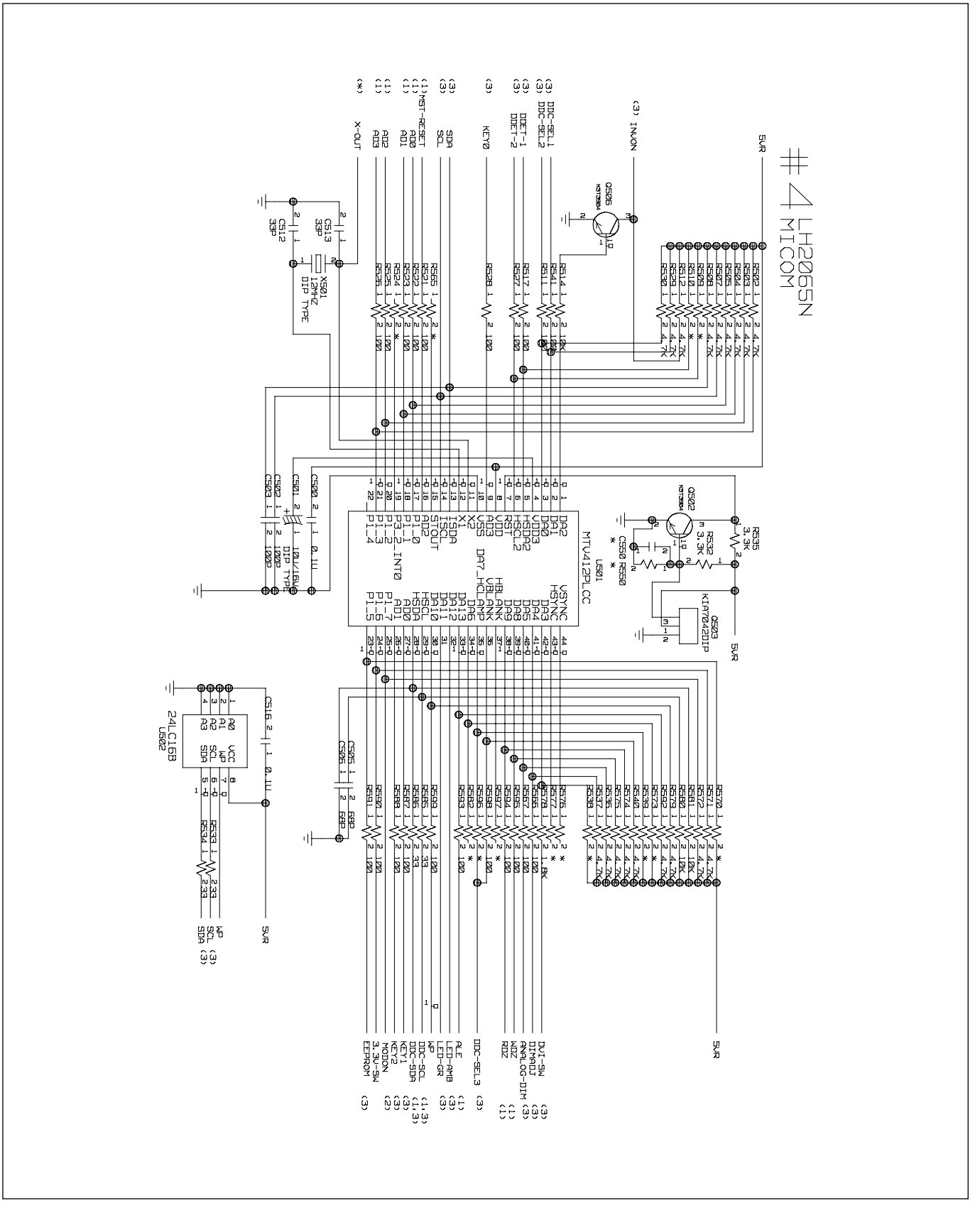
2. POWER



3.CONNECTOR & JACK



4. MICOM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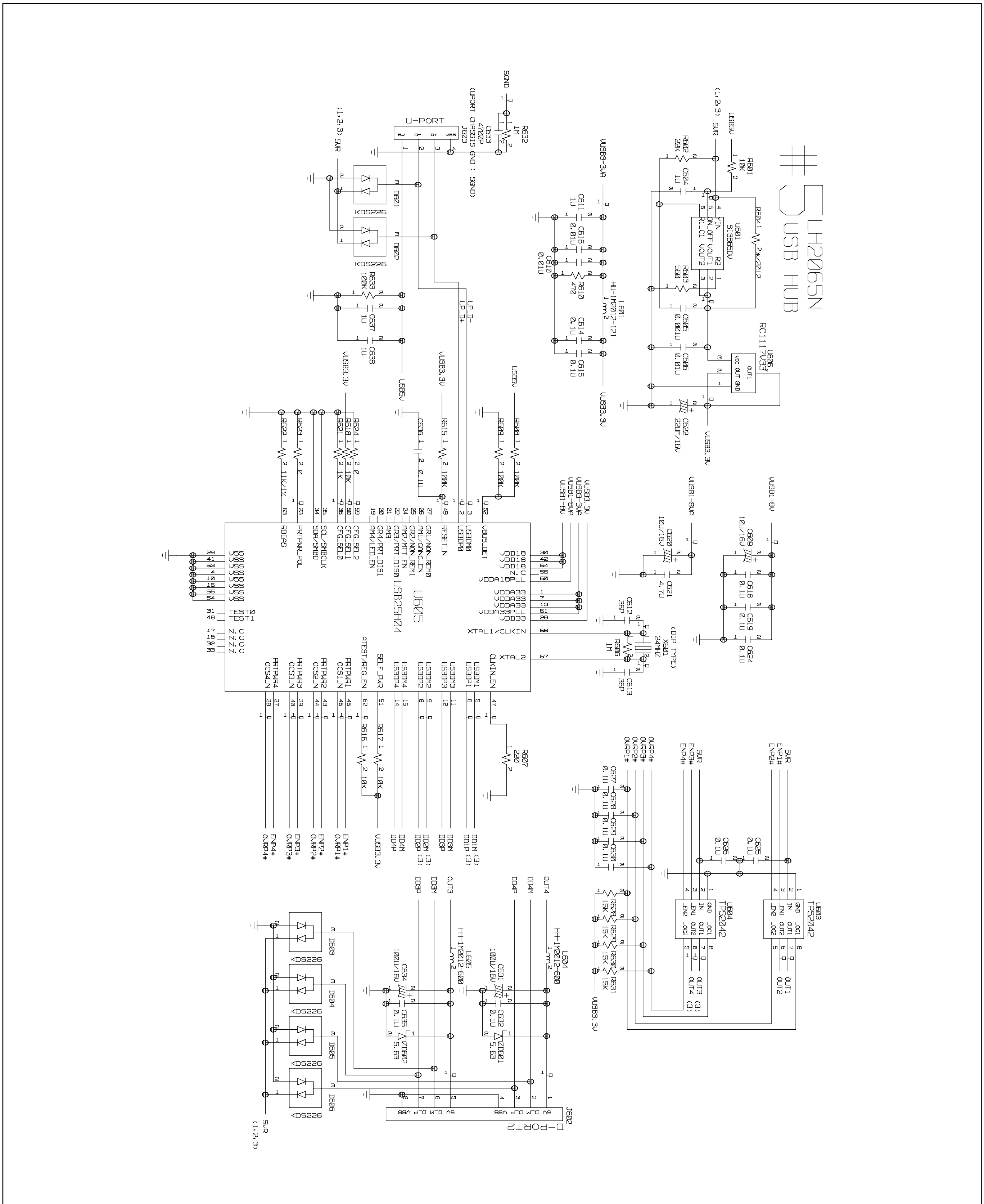
U501 MTV412PLC
U502 24LC16B
Q503 KIA7042AP
5VR
INVON
KEY0
SDA
SCL
X-OUT
DDC-SEL1
DDC-SEL2
DDET-1
DDET-2
MST-RESET
AD0
AD1
AD2
AD3
X501 12MHZ DIP TYPE
DIP TYPE
VSYNC
HSYNC
DAT_HCLAMP
HBLANK
VBLANK
INT0
ISDA
ISCL
HSDA
HSCL
DDC-SEL3
ALE
LED-AMB
LED-GR
WP
DDC-SCL
DDC-SDA
KEY1
KEY2
MODEL
3.3DV-SW
EEPROM
DVI-SW
DINADJ
ANALOG-DIM
ADZ
RDZ

5. USB HUB



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