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# LCD TV

# SERVICE MANUAL

CHASSIS : ML-051A

MODEL : 42LP1R-ME

## CAUTION

BEFORE SERVICING THE CHASSIS,  
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.

Datasheet.Directory



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# SAFETY PRECAUTIONS

## IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by  $\triangle$  in the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

### General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

### Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

### Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between  $1M\Omega$  and  $5.2M\Omega$ .

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

### Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

### Do not use a line Isolation Transformer during this check.

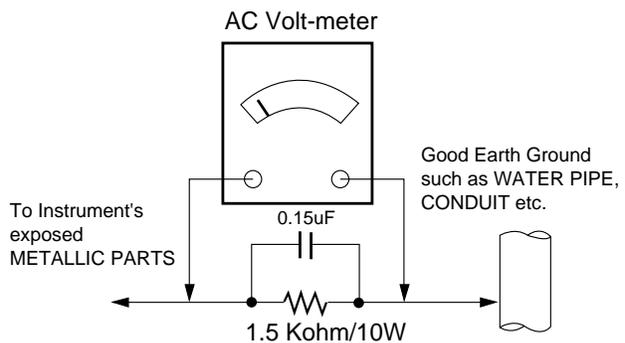
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

### 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.

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. Do not spray chemicals on or near this receiver or any of its assemblies.

4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)

**CAUTION:** This is a flammable mixture.

Unless specified otherwise in this service manual, lubrication of contacts is not required.

5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
6. 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.
7. 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.

8. 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.

# SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

## 1. Application range

This specification is applied to ML-051A chassis.

## 2. Requirement for Test

Testing for standard of each part must be followed in below condition.

- (1) Temperature: 25°C ± 2°C
- (2) Humidity: 65% ± 10%
- (3) Power: Standard input voltage (AC 100-240V, 50/60Hz)
- (4) Measurement must be performed after heat-run more than 30min.
- (5) Adjusting standard for this chassis is followed a special standard.

## 3.General Specification(TV)

No	Item	Specification	Remark
1.	Video input applicable system	PAL-D/K, B/G, I, NTSC-M, SECAM NTSC 4.43	
2.	Receivable Broadcasting System	1) PAL/SECAM BG 2) PAL/SECAM DK 3) PAL I/I 4) SECAM L/L'	(ZE/TE) EU/Non-EU (PAL Market) 4) Only ZE
		5) PAL-N/M 6) NTSC M	5),6) South America Market 7) Except South America NTSC Market (ME)
3.	RF Input Channel	VHF : E2 ~ E12 UHF : E21 ~ E69 CATV : S1 ~ S20 HYPER : S21~ S47	PAL
		L/L' : B, C, D	FRANCE
		VHF : 2~13 UHF : 14~69 CATV : 1~125	NTSC
		VHF Low : 1 ~ M10 VHF High : 4~S22 UHF : S23~62	JAPAN
4.	Input Voltage	AC 100 ~ 240 V/50Hz, 60Hz	
5.	Market	Worldwide	
6.	Picture Size	1067.308mm	42.02 inch
7.	Tuning System	FVS 100 program	PAL,200 PR.(Option)
		FS	NTSC
8.	Operating Environment	1) Temp : 0 ~ 40 deg 2) Humidity : 10~90 %RH	
		3) Temp : -20 ~ 50 deg 4) Humidity : 10~90 %RH	
9.	Storage Environment	3) Temp : -20 ~ 50 deg 4) Humidity : 10~90 %RH	
10.	Display	LCD Module	LPL

#### 4. General Specification

No	Item	Specification			Unit	Remark	
1	Panel	42" TFT WXGA LCD					
2	Frequency range	H : 31 ~ 61Khz V : 56 ~ 75Hz				PC Input	
3	Control Function	1) Contrast/Brightness 2) H-Position / V-Position 3) Tracking : Clock / Phase 4) Auto Configure 5) Reset					
4	Component Jack	1 : Y 3 : Pb 5 : Pr 7 : Line1 Ready 9 : LINE2 11: LINE3 13: Line3 Ready				ZE(SIDE) TE/ME(REAR, SIDE)  480i, 480p 720p, 1080i	
	D4 Jack (525i,525p,750p,1125i)	2 : Y GND 4 : Pb GND 6 : Pr GND 8 : LINE1 10:Line2 Ready 12:SWITCH GND 14: SWITCH				JAPAN Only	
5		H/V-Sync	Video	Power consumption		LED	
	Power ON	-	-	≤ max 230W	W	Green	
	Stand by	-	-	≤ 3.0W	W	Red	
	DPMS Mode	ON/OFF	OFF	≤ 30W	W	Green	
	Power off	-	-	-	W	*	
6	LCD Module	Type Size	LPL	1006 x 610 x 56	mm	(H) x (V) x (D)	
		Pixel Pitch	LPL	0.227 x 0.681 x RGB	μm		
		Pixel Format	1366 horiz. By 768 vert. Pixels RGB strip arrangement				
		Coating	Hard coating(3H), Anti-glare treatment of the front polarizer,				
		Back Light	LPL	20CCFL			

## 5.Optical Feature(LCD Module)

No	Item	Specification			Remark		
			Min	Typ		Max	
1	Viewing Angle <CR>10>	R/L, U/D		178,178			
2	Luminance	Luminance (cd/m2)		500	Typical		
		Variation			1.3 MAX / MIN		
3	Contrast Ratio (All white/All Black)	CR	300	400	All white / All black		
		CR <sub>D</sub> (With AI)	700	1000			
4	CIE Color Coordinates	White	Wx	Typ. -0.03	0.285	Typ. +0.03	LPL
			Wy		0.293		
		RED	Xr		0.640		
			Yr		0.341		
		Green	Xg		0.287		
			Yg		0.610		
		Blue	Xb		0.146		
			Yb		0.069		

## 6.Component Video Input (Y, P<sub>B</sub>, P<sub>R</sub>)

No	Specification			Proposed
	Resolution	H-freq(kHz)	V-freq(Hz)	
1.	640x480	15.73	60	SDTV, DVD 480i TE, ME
2.	640x480	15.63	59.94	SDTV, DVD 480i TE, ME
3.	720x480	31.47	59.94	480p TE, ME
4.	720x576	15.625	50.00	SDTV, DVD 625 Line TE, ME
5.	720x576	31.25	50.00	HDTV 576p TE, ME
6.	1280x720	45.00	60.00	HDTV 720p TE, ME
7.	1280x720	44.96	59.94	HDTV 720p TE, ME
8.	1920x1080	31.25	50.00	HDTV 1080i TE, ME
9.	1920x1080	33.75	60.00	HDTV 1080i TE, ME
10.	1920x1080	33.72	59.94	HDTV 1080i TE, ME

## 7. PC INPUT Mode Table

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
Analog RGB, Digital RGB					
1	720x400	31.468	70.8	28.321	
2	640x480	31.469	59.94	25.17	VESA
		37.684	75.00	31.5	VESA
3	800x600	37.879	60.31	40.00	VESA
		46.875	75	49.5	VESA
4	832x624	49.725	74.55	57.283	
5	1024x768	48.363	60.00	65.00	VESA(XGA)
		56.47	70.00	75.00	VESA(XGA)
		60.123	75.029	78.75	VESA(XGA)
6	1280x768	47.776	59.870	79.50	VESA(WXGA)
7	1360x768	47.720	59.799	84.75	VESA(WXGA)
8	1366x768	47.720	59.799	84.75	Supported
9	720x576	31.25	50.00	HDTV 576p	ZE, TE
10	1280x720	45.00	50.00	HDTV 720p	ZE, TE
11	1280x720	44.96	59.94	HDTV 720p	TE, ME
12	1920x1080	31.25	50.00	HDTV 1080i	ZE, TE
13	1920x1080	33.75	60.00	HDTV 1080i	TE, ME
14	1920x1080	33.72	59.94	HDTV 1080i	TE, ME

## 8. HDMI INPUT Mode Table

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed
	Analog RGB, Digital RGB				
1	720x400	31.468	70.8	28.321	
2	640x480	31.469	59.94	25.17	VESA
		37.684	75.00	31.5	VESA
3	800x600	37.879	60.31	40.00	VESA
		46.875	75	49.5	VESA
4	832x624	49.725	74.55	57.283	
5	1024x768	48.363	60.00	65.00	VESA(XGA)
		56.47	70.00	75.00	VESA(XGA)
		60.123	75.029	78.75	VESA(XGA)
6	1280x768	47.776	59.870	79.50	VESA(WXGA)
7	1360x768	47.720	59.799	84.75	VESA(WXGA)
8	1366x768	47.720	59.799	84.75	Supported
9	720x576	31.25	50.00	HDTV 576p(HDCP)	ZE, TE
10	1280x720	45.00	50.00	HDTV 720p(HDCP)	ZE, TE
11	1280x720	44.96	59.94	HDTV 720p(HDCP)	TE, ME
12	1920x1080	31.25	50.00	HDTV 1080i(HDCP)	ZE, TE
13	1920x1080	33.75	60.00	HDTV 1080i(HDCP)	TE, ME
14	1920x1080	33.72	59.94	HDTV 1080i(HDCP)	TE, ME

## 9. Mechanical specification

<Table 1> Scart Arrangement 1.(Full Scart)

Pin	Signal	Signal Level	Impedance
1	Audio Output B (right)	0.5 Vrms	< 1 K $\Omega$
2	Audio Input B (right)	0.5 Vrms	> 10 K $\Omega$
3	Audio Output A (left)	0.5 Vrms	< 1 K $\Omega$
4	Ground (audio)	-	-
5	Ground (blue)	-	-
6	Audio input A (left)	0.5 Vrms	> 10 K $\Omega$
7	Blue input	0.7 V	75 $\Omega$
8	Function Select (AV control)	High (9.5 - 12V) - AV Mode Mid (5 - 8V) - Wide Screen Low (0 - 2V) - TV Mode	> 10 K $\Omega$
9	Ground (Green)	-	-
10	Comms Data 2		
11	Green input	0.7 V	75 $\Omega$
12	Comms Data 1		
13	Ground (Red)	-	-
14	Ground (Blanking)	-	-
15	Red input	0.7 V	75 $\Omega$
16	RGB Switching Control	High (1 - 3V) - RGB Low (0 - 0.4V) - Composite	75 $\Omega$
17	Ground (Video input & Output)	-	-
18	Ground (RGB Switching Control)	-	-
19	Video output (Composite)	1V including sync	75 $\Omega$
20	Video input (Composite)	1V including sync	75 $\Omega$
21	Common ground (Shield)	-	-

<Table 2> Scart Arrangement 2.(Half Scart)

Pin	Signal	Signal Level	Impedance
1	Audio Output B (right)	0.5 Vrms	< 1 k $\Omega$
2	Audio Input B (right)	0.5 Vrms	> 10 k $\Omega$
3	Audio Output A (left)	0.5 Vrms	< 1 k $\Omega$
4	Ground (audio)	-	-
5	Ground (blue)	-	-
6	Audio input A (left)	0.5 Vrms	> 10 k $\Omega$
7	-	-	-
8	Function Select (AV control)	High (9.5 - 12V) - AV Mode Mid (5 - 8V) - Wide Screen Low (0 - 2V) - TV Mode	> 10 k $\Omega$
9	Ground (Green)	-	-
10	Comms Data 2		
11	-	-	-
12	Comms Data 1		
13	Ground (Red)	-	-
14	Ground (Blanking)	-	-
15	Red input		
16	-	-	-
17	Ground (Video input & Output)	-	-
18	-	-	-
19	Video output (Composite)	1V including sync	75 $\Omega$
20	Video input (Composite)	1V including sync	75 $\Omega$
21	Common ground (Shield)	-	-

# ADJUSTMENT INSTRUCTION

## 1. Application Range

This spec. sheet is applied to all of the ML-051A chassis (TORNADO) manufactured at LG TV Plant

## 2. Specification.

- 2.1 Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help to protect test instruments.
- 2.2 Adjustment must be done in the correct sequence.
- 2.3 The adjustment must be performed at 25±5°C temperature and 65±10% relative humidity if there is no specified designation.
- 2.4 The input voltage of the receiver must be kept between 100~220V, 50/60Hz.
- 2.5 Before adjustment, execute Heat-Run for 30 minutes at RF no signal.

## 3. EDID

\* Caution

- Use the proper signal cable for EDID Download  
Analog EDID: Pin3 exists  
Digital EDID: Pin3 exists  
**Caution: - Never connect HDMI & DVI-D & DVI-A Cable at the same time.**  
**- Use the proper cables below for EDID Writing**

No	Item	Content	Hexadecimal
1	Manufacturer ID	GSM	1E6D
2	Version	Digital 1	01
3	Revision	Digital 3	03

### 3.1 Data

#### 3.1.1 ANALOG(128Bytes)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	<b>a</b>	<b>b</b>				
10	<b>c</b>	01	03	01	46	27	78	EA	D9	B0	A3	57	49	9C	25	
20	11	49	4B	A5	6E	80	31	40	01	01	01	01	45	40	01	01
30	61	40	01	01	01	01	1B	21	50	A0	51	00	1E	30	48	88
40	35	00	BC	88	21	00	00	1C	4E	1F	00	80	51	00	1E	30
50	40	80	37	00	BC	88	21	00	00	18	00	00	00	FD	00	38
60	4B	1F	3D	09	00	0A	20	20	20	20	20	20	00	00	00	FC
70	<b>d</b>										0A	20	20	20	00	<b>e</b>

#### 3.2.2 DIGITAL(128Bytes)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	<b>a</b>	<b>b</b>					
10	<b>c</b>	01	03	80	46	27	78	EA	D9	B0	A3	57	49	9C	25		
20	11	49	4B	A5	6E	80	31	40	01	01	01	01	45	40	01	01	
30	61	40	01	01	01	01	1B	21	50	A0	51	00	1E	30	48	88	
40	35	00	BC	88	21	00	00	1C	4E	1F	00	80	51	00	1E	30	
50	40	80	37	00	BC	88	21	00	00	18	00	00	00	FC	00	33	
60	<b>d</b>										0A	20	20	20	00	00	FD
70	00	38	4B	1F	3D	09	00	0A	20	20	20	20	20	20	00	<b>e</b>	

#### 3.2.3 EDID FOR HDMI(256Bytes)

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F	
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	<b>a</b>	<b>b</b>					
10	<b>c</b>	01	03	80	46	27	78	EA	D9	B0	A3	57	49	9C	25		
20	11	49	4B	A5	6E	80	31	40	01	01	01	01	45	40	01	01	
30	61	40	01	01	01	01	1B	21	50	A0	51	00	1E	30	48	88	
40	35	00	BC	88	21	00	00	1C	4E	1F	00	80	51	00	1E	30	
50	40	80	37	00	BC	88	21	00	00	18	00	00	00	FC	00	33	
60	<b>d</b>										0A	20	20	20	00	00	FD
70	00	38	4B	1F	3D	09	00	0A	20	20	20	20	20	20	01	<b>e</b>	

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	02	03	21	D1	46	85	04	02	01	03	00	23	09	07	07	23
10	09	07	07	23	09	07	07	83	01	00	00	65	03	0C	00	10
20	00	01	1D	00	80	51	D0	1C	20	40	80	35	00	BC	88	21
30	00	00	1E	8C	0A	D0	8A	20	E0	2D	10	10	3E	96	00	13
40	8E	21	00	00	18	2A	12	00	10	41	43	17	20	28	60	35
50	00	00	00	32	00	00	1C	01	1D	80	18	71	1C	16	20	58
60	2C	25	00	C4	8E	21	00	00	9E	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	DB

#### 3.2.4 Detail EDID Options are below(a, b, c, d, e)

##### a. Product ID

Model name	Product ID	Product ID		
		Dec	Hex	EDID Table
26LX2R	22039(A)	22039(A)	5617	1756
	22040(A)	22040(D)	5618	1856
26LX1R	22043(A)	22043(A)	561B	1B56
	22044(A)	22044(D)	561C	1c56
32LX2R	30041(A)	30041(A)	7559	5975
	30042(D)	30055(D)	755A	5A75
32LX1R	30055(A)	30056(A)	7567	5975
	30056(D)	30042(D)	7568	5875
32LP1R	30039(A)	30039(A)	7557	5775
	30040(D)	30040(D)	7558	5875
37LP1R	30043(A)	30043(A)	755B	5B75
	30044(D)	30044(D)	755C	5C75
42LP1R	40013(A)	40013(A)	9C4D	4D9C
	40014(D)	40014(D)	9C4E	4E9C

- b. Serial No : Controlled on production line
- c. Month, Year : Controlled on production line
- d. Model Name(Hex) :

Model Name	Model Name(HEX)
26LX2R-ZE	32364C5832522D5A45
26LX2R-TE	32364C5832522D5445
26LX2R-ME	32364C5832522D4D45
26LX1R-ZE	32364C5831522D5A45
26LX1R-TE	32364C5831522D5445
26LX1R-ME	32364C5831522D4D45
32LX2R-ZE	33324C5832522D5A45
32LX2R-TE	33324C5832522D5445
32LX2R-ME	33324C5832522D4D45
32LX1R-ZE	33324C5831522D5A45
32LX1R-TE	33324C5831522D5445
32LP1R-ZE	33324C5031522D5A45
32LP1R-TE	33324C5031522D5445
37LP1R-ZE	33374C5031522D5A45
37LP1R-TE	33374C5031522D5445
37LP1R-ME	33374C5031522D4D45
42LP1R-ZE	34324C5031522D5A45
42LP1R-TE	34324C5031522D5445
42LP1R-ME	34324C5031522D4D45

e. Checksum: ChangeSable by total EDID data

## 4. ADC Calibration

ADC	RF/AV/S-VIDEO		Component	DVI(RGB)
MSPG925F	PAL		Model:215(720p)	Model:39
	Input	AV3-ZE	Pattern:33	(1024x768 75Hz)
	Select	AV1-TE	*720p 100% Color Bar	Pattern:18
	Model:202(Pal-BGDHI)	Model:207(NTSC-J)		*1/2 W, B Horizontal
	Pattern:32	Pattern:32		
	*Pal 75% Color Bar	*NTSC 75% Color Bar		

**#Caution : System control RS-232 Host should be "PC" for adjustment.**  
**Before AV ADC Calibration, execute the "Panel size selection"**  
**For DVI ADC calibration, Have to use the cable D-Sub to DVI-I shown in FIG.A**

### 4.1 Adjustment of RF/AV/S-VIDEO

#### \* Required Equipments

- Remote controller for adjustment
  - MSPG-925F Pattern Generator(Which has Video Signal : 75% Color Bar Pattern shown in Fig.1)
- => Model:202 / Pattern:32(PAL:ZE, TE)  
 Model:207 / Pattern :32(NTSC-J:ME)

#### 4.1.1 Method of Auto RF/AV/S-Video Color Balance

- 1) Input the Video Signal : 75% Color Bar signal into AV3(ZE), AV1(TE), VIDEO1(ME)
- 2) Set the PSM to Standard mode in the Picture menu.

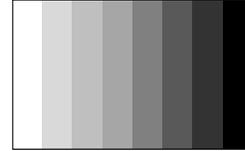
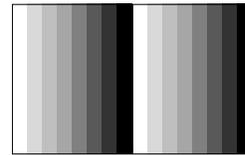


Fig. 1

- 3) Press ADJ key on R/C for adjustment.



- 4) Press the ► (Vol. +) key to operate the set, then it becomes automatically.
- 5) Auto-RGB OK means the adjustment is completed.

### 4-2 Adjustment of Component.

#### \* Required Equipments

- Remote controller for adjustment
  - MSPG-925F Pattern Generator => Model:215 / Pattern:33
- (Which has 720p YPbPr output Pattern shown in Fig.2)

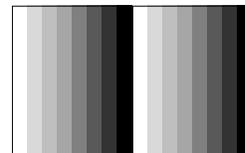
#### 4.2.1 Method of Auto Component Color Balance

- 1) Input the Component 720p 100% Color Bar(MSPG-925F model:215 pattern:33) signal into Component.
- (ZE:Component, TE/ME:Component 1or 2)
- 2) Set the PSM to Standard mode in the Picture menu.



Fig. 2

- 3) Press the ADJ key on R/C for adjustment.
- 4) Press the ► (Vol. +) key to operate the set, then it becomes automatically.



- 5)Auto-RGB OK means the adjustment is completed.

4-3 Adjustment of RGB.

**\* Required Equipments**

- Remote controller for adjustment
- MSPG-925F Pattern Generator  
(Which has XGA [1024x768] 75Hz PC Format output with 1/2 W,B Horizontal Pattern shown in Fig. 3)

4.3.1 Method of Auto RGB Color Balance

- 1) Input the PC 1024x768@75Hz 1/2 Black&White Pattern (MSPG-925F model:39, pattern:18) into RGB.  
(using D-sub to DVI-I cable)
- 2) Set the PSM to Standard mode in Picture menu.
- 3) Press the ADJ key on R/C for adjustment.

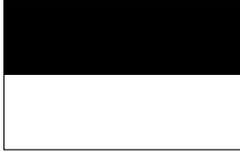


Fig. 3

- 4) Press the ► (Vol. +) key operate to set, then it becomes automatically.



- 5) Auto-RGB OK means adjustment is completed.

**Before White-balance, the AV ADC should be done.  
(ZE: AV3, TE : AV, ME: VIDEO)**

*Notice : Before White-balance, change input mode  
- Move to AV3(ZE) or AV(TE) or VIDEO(ME) by using Remote controller.*

## 5. White Balance.

White Balance		ZE(AV3). TE(AV1)	ME(VIDEO1)
MSPG925F		Model:202	Model:207
	High	Pattern:47	Pattern:47
	*239Gray	*Pal Video	*NTSC Video

*Caution : - System control RS-232 Host should be "PC" for adjustment.  
- AV ADC(ZE: AV3, TE : AV1, ME: VIDEO1) should be done before White-balance.*

**\* Required Equipments**

- Color Analyzer ( CA-110)
- PC (for communication through RS-232C) ->
- UART Baud rate : 115200
- Pattern Generator (MSPG-925F)

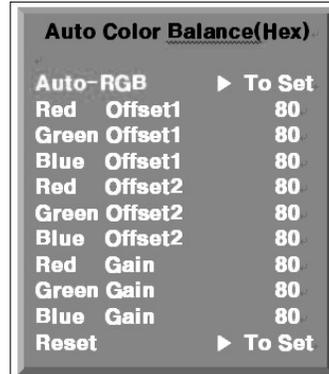
**\* Target Value** [PSM: Standard(ZE/TE), Optimum(ME), CSM: Normal]

- Normal(9300K) - x:283±0.003, y: 298±0.003
- Luminance(Y) - AV/COMP: Less then 250 Cd/m<sup>2</sup>  
(Typ: 300 Cd/m<sup>2</sup>)
- PC : Less then 300 Cd/m<sup>2</sup>  
(Typ: 350 Cd/m<sup>2</sup>)

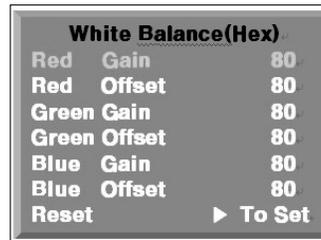
- => Reference Value(Automatically fixed)
- Cool(11000K): x:0.274±0.003, y: 0.286±0.003
  - Warm(7200K) : x:0.303±0.003, y: 0.319±0.003

5-1. Manual white Balance (AV)

- 1) Execute CA-110 Zero Calibration.
- 2) Execute the SET Heat Run for 30minutes
- 3) Push the ADJ Button then you can see the OSD



- 4) Push the ADJ Button again for White Balance mode



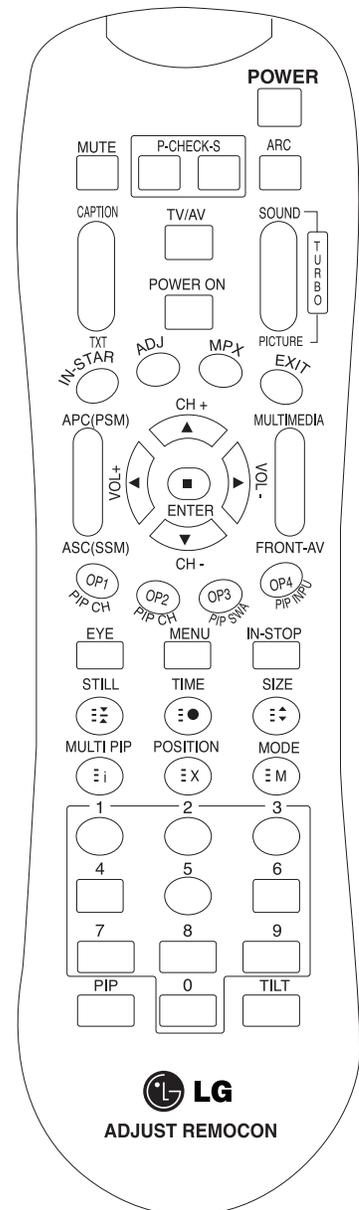
- 5) Adjust High light with R/B Gain/Offset(G Gain fix, G Offset fix)  
# If B is max, adjust R/G additionally.

## 6. Shipping Conditions

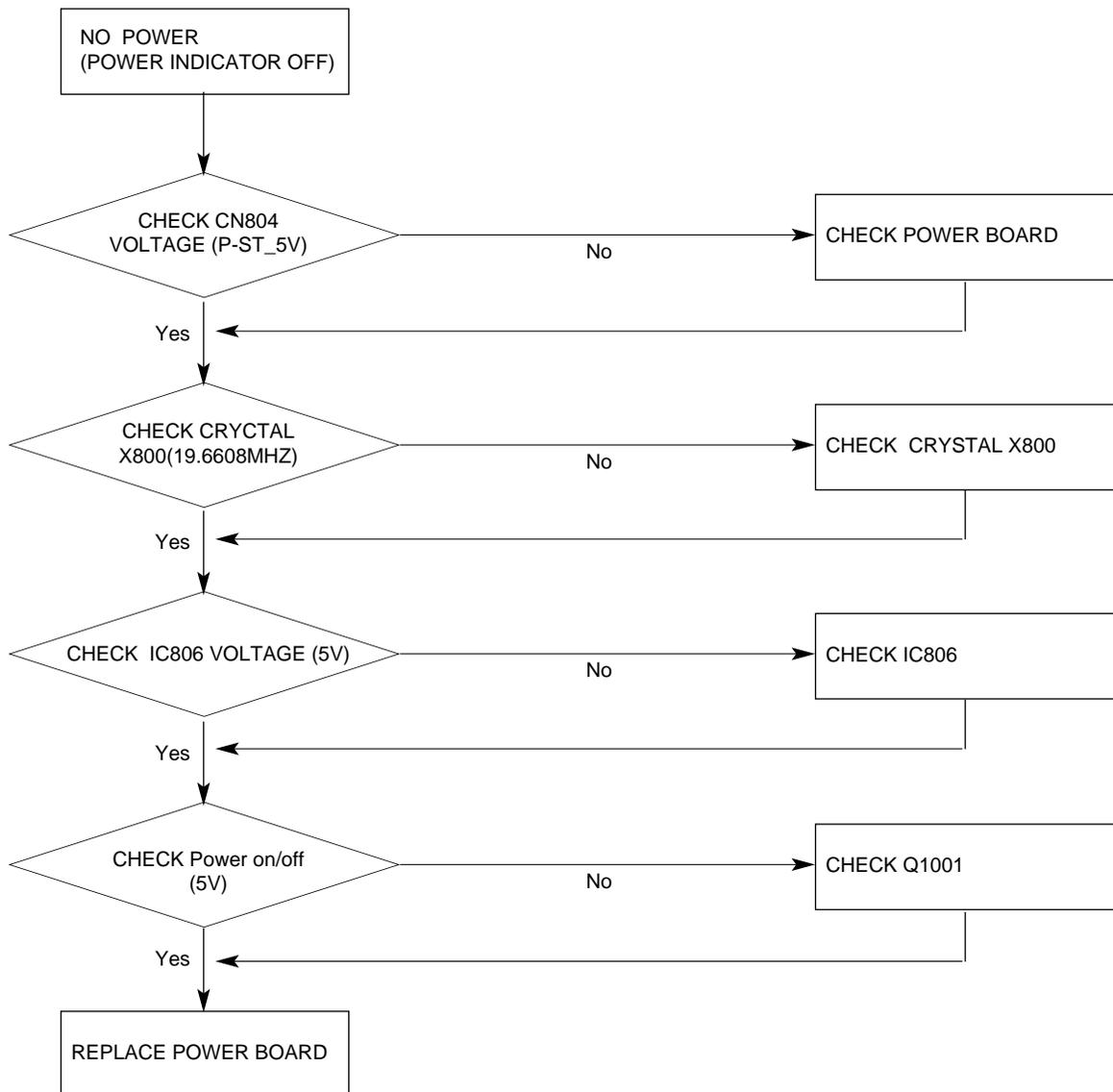
No	Item		Condition	Remark	
1	Power		Off		
2	Volume Level		30		
3	Main Picture Input		TV		
4	Main Last Channel		2ch		
5	Mute		Off		
6	ARC		Wide		
7	Station	Auto Program			
		Manual Program			
		Favorite Program	None		
8	Picture	EZ Picture	Clear		
		Clear	Contrast	100	
			Brightness	45	
			Colour	50	
			Sharpness	50	
		Tint	0	Activate depend on Color sys.	
		ACC	Cool		
		XD	On		
		ACM	Fleshtone : 1		
Greentone : 1					
Bluetone : 1					
9	Sound	EZ Sound	Flat		
		SRS WOW	Off		
		AVL	Off		
		Balance	0		
		Treble	50		
		Bass	50		
		TV Speaker	On		
10	Timer	Clock	Off		
		Off time	Off		
		On time	Off		
		Auto sleep	Off		
11	Special	Input	TV		
		Language	English		
		Key Lock	Off		
		Set ID	1		
		Caption/Text	Off		
		XD Demo	To Start		
		Logo light	On		
		Index	On		
12	Screen	Auto config	Variable by each mode		
		Manual config			
		XGA Mode			
		ARC			
		Zoom +/-			
		Position			
		Cinema			
		NR			
		Reset			
13	PIP/DW	Input	TV		
		DW	Off		
		PIP	Off		
		PIP Input		Active when pip On	
		Win. Size			
		Win. Position			
		Win. Transparency			

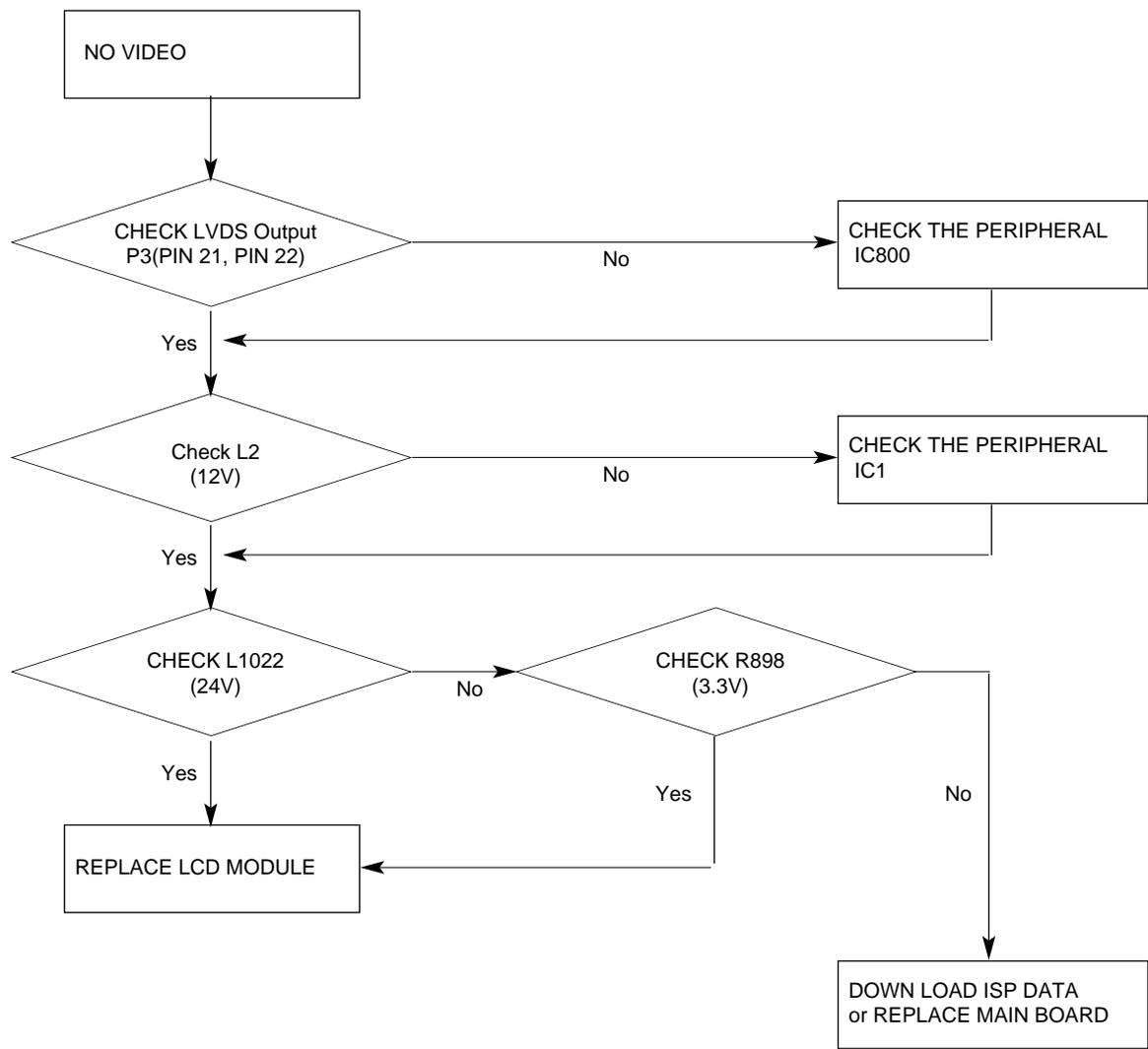
# SVC REMOCON

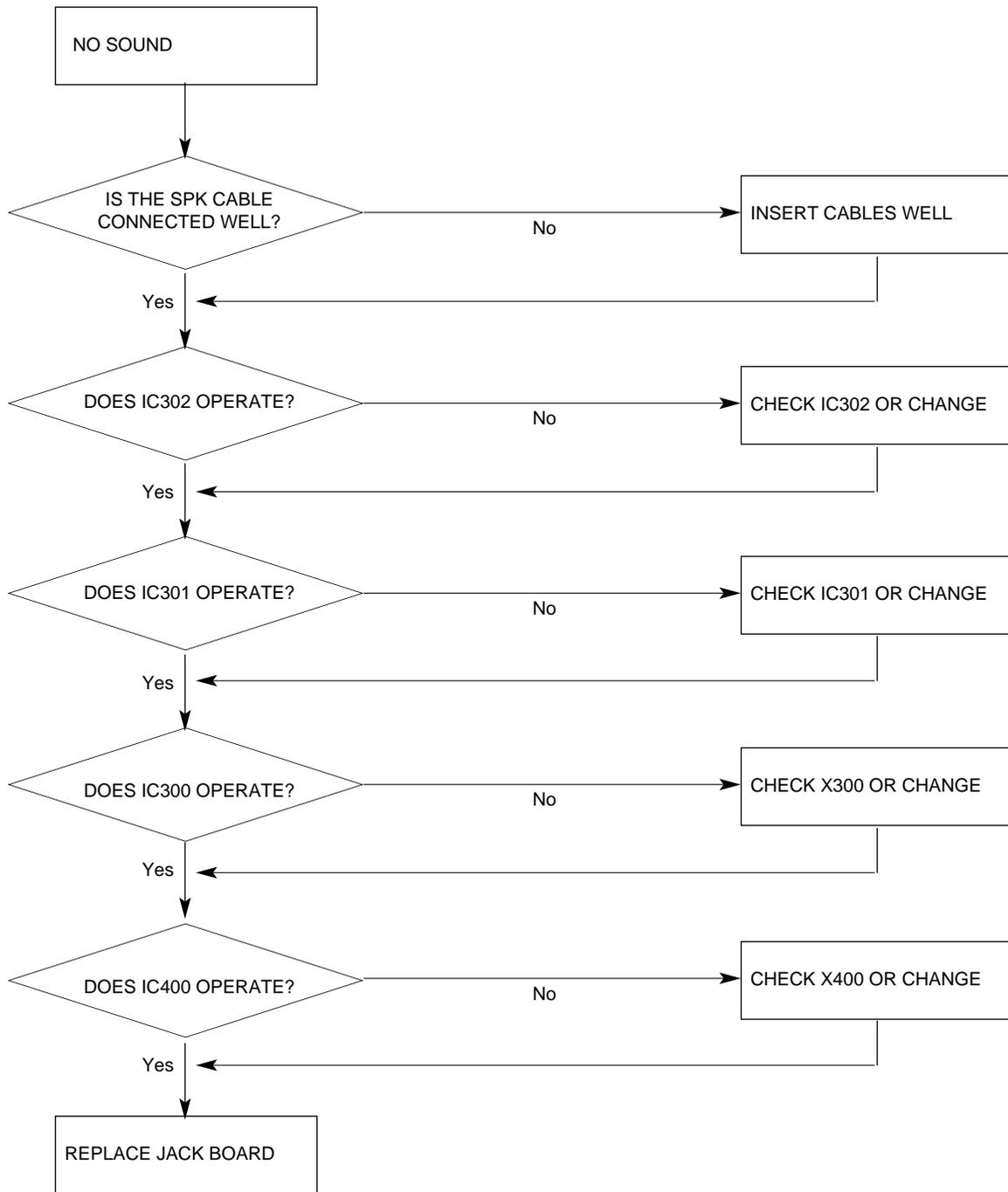
NO	KEY	FUNTION	REAMARK
1	POWER	To turn the TV on or off	
2	POWER ON	To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.	
3	MUTE	To activate the mute function.	
4	P-CHECK	To check TV screen image easily.	Shortcut keys
5	S-CHECK	To check TV screen sound easily	Shortcut keys
6	ARC	To select size of the main screen (Normal, Spectacle, Wide or Zoom)	Shortcut keys
7	CAPTION	Switch to closed caption broadcasting	
8	TXT	To toggle on/off the teletext mode	
9	TV/AV	To select an external input for the TV screen	
10	TURBO SOUND	To start turbo sound	
11	TURBO PICTURE	To start turbo picture	
12	IN-START	To enter adjustment mode when manufacturing the TV sets. To adjust the screen voltage (automatic): In-start → mute → Adjust → AV(Enter into W/B adjustment mode) W/B adjustment (automatic): After adjusting the screen →W/B adjustment →Exit two times (Adjustment completed)	Use the AV key to enter the screen W/B adjustment mode.
13	ADJ	To enter into the adjustment mode. To adjust horizontal line and sub-brightness.	
14	MPX	To select the multiple sound mode (Mono, Stereo or Foreign language)	
15	EXIT	To release the adjustment mode	
16	APC(PSM)	To easily adjust the screen according to surrounding brightness	
17	ASC(SSM)	To easily adjust sound according to the program type	
18	MULTIMEDIA	To check component input	Shortcut keys
19	FRONT-AV	To check the front AV	Shortcut keys
20	CH ±	To move channel up/down or to select a function displayed on the screen.	
21	VOL ±	To adjust the volume or accurately control a specific function.	
22	ENTER	To set a specific function or complete setting.	
23	PIP CH-(OP1)	To move the channel down in the PIP screen. To use as a red key in the teletext mode	
24	PIP CH+(OP2)	To move the channel in the PIP screen To use as a green key in the teletext mode	
25	PIP SWAP(OP3)	To switch between the main and sub screens To use as a yellow key in the teletext mode	
26	PIP INPUT(OP4)	To select the input status in the PIP screen To use as a blue key in the teletext mode	
27	EYE	To set a function that will automatically adjust screen status to match the surrounding brightness so natural color can be displayed.	
28	MENU	To select the functions such as video, voice, function or channel.	
29	IN-STOP	To set the delivery condition status after manufacturing the TV set.	
30	STILL	To halt the main screen in the normal mode, or the sub screen at the PIP screen. Used as a hold key in the teletext mode (Page updating is stopped.)	
31	TIME	Displays the teletext time in the normal mode Enables to select the sub code in the teletext mode	
32	SIZE	Used as the size key in the PIP screen in the normal mode Used as the size key in the teletext mode	
33	MULTI PIP	Used as the index key in the teletext mode (Top index will be displayed if it is the top text.)	
34	POSITION	To select the position of the PIP screen in the normal mode Used as the update key in the teletext mode (Text will be displayed if the current page is updated.)	
35	MODE	Used as Mode in the teletext mode	
36	PIP	To select the simultaneous screen	
37	TILT	To adjust screen tilt	Shortcut keys
38	0~9	To manually select the channel.	



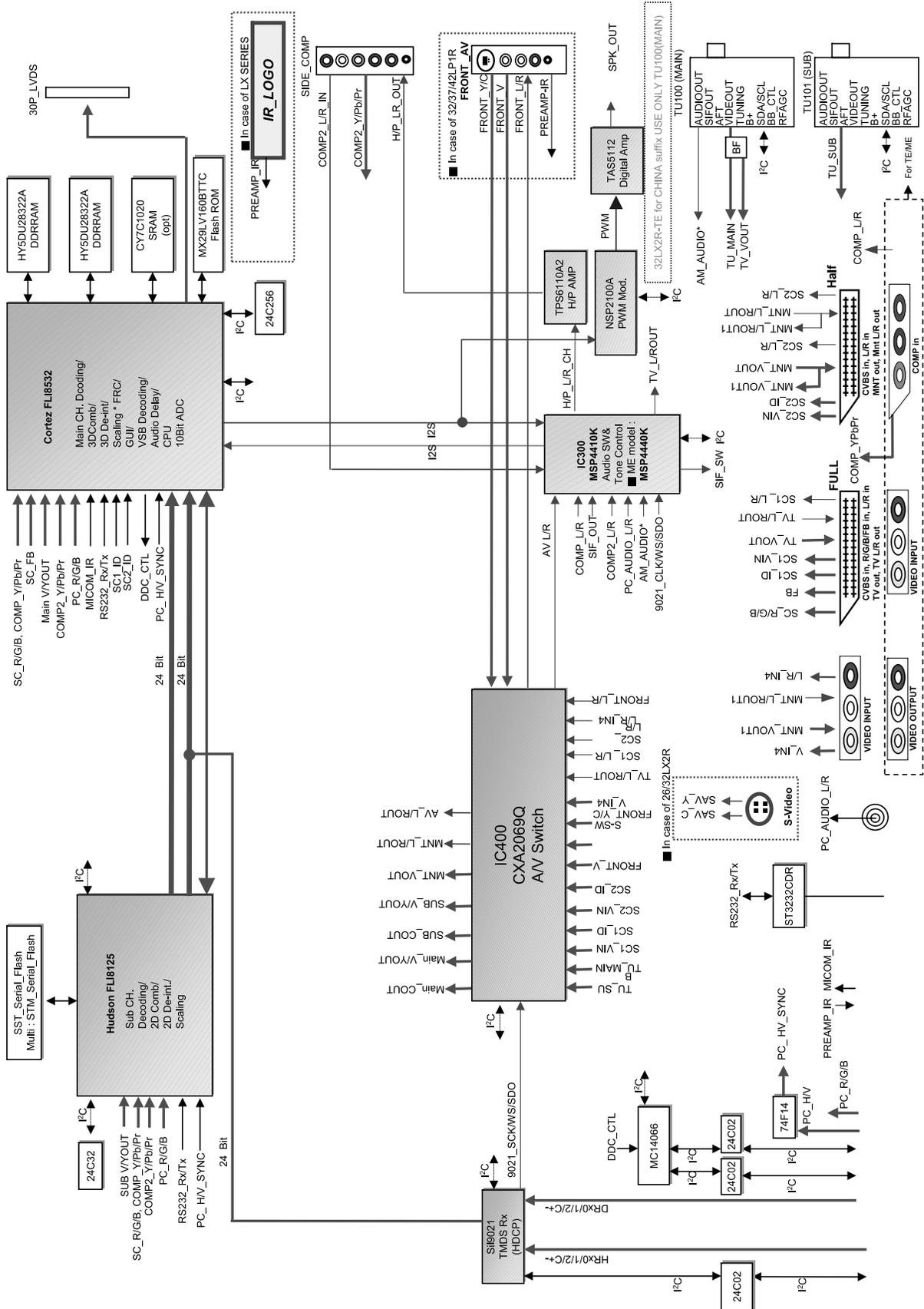
# TROUBLESHOOTING



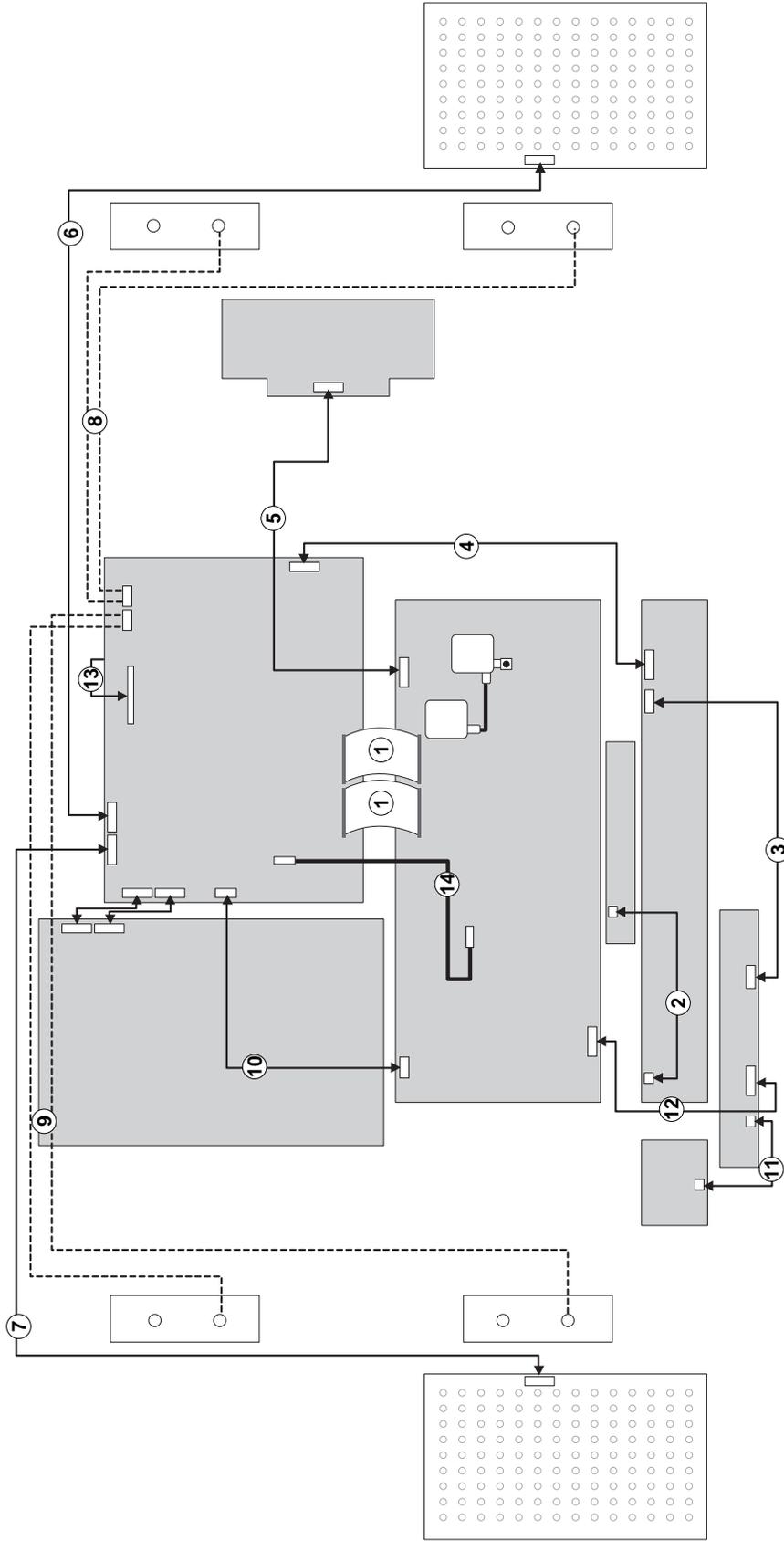




# BLOCK DIAGRAM

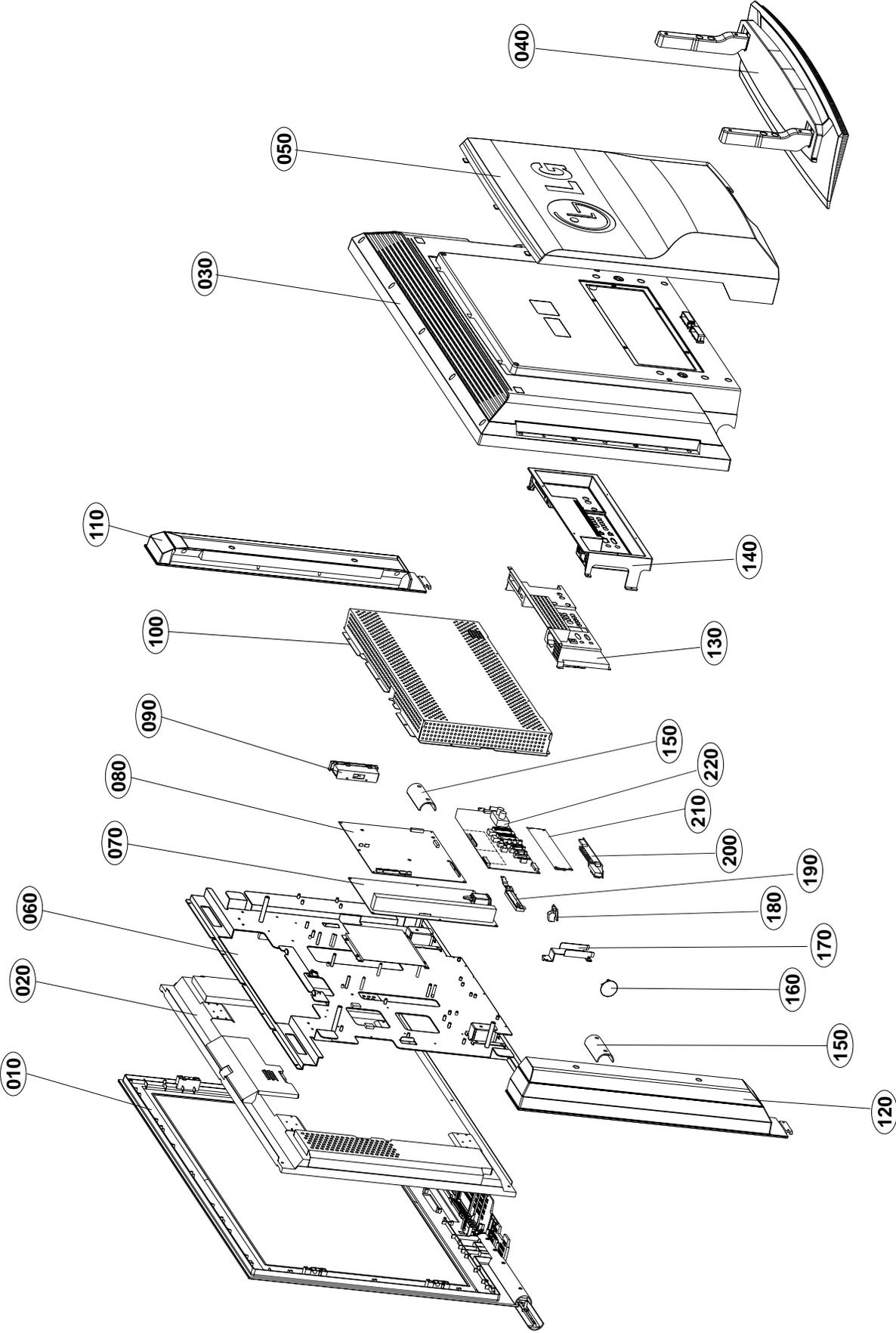


# WIRING DIAGRAM



NO.	PART NO.	NO.	PART NO.	NO.	PART NO.
1	6631V10004A	6	6631T20032H	11	6631T20033D
2	6631T12006Q	7	6631T20032N	12	6631T20034U
3	6631T20028V	8	6631T25026D	13	6631T11020Z
4	6631T20036G	9	6631T25026E	14	6631T11023D
5	6631T20039B	10	6631T25023G		

**EXPLODED VIEW**



## EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
010	3091TKE031K	CABINET ASSEMBLY, 42LP10 BRAND 3090TKE023A (ME)
020	6304FLP295A	LCD(LIQUID CRYSTAL DISPLAY), LC420W02-B6K1 LG PHILIPS TFT COLOR B6+STATUS PIN
	or 6304FLP286A	LCD(LIQUID CRYSTAL DISPLAY), LC420W02-B4K4 LG PHILIPS TFT COLOR B4K3 REV.
	or 6304FLP208A	LCD(LIQUID CRYSTAL DISPLAY), LC420W02-B6 LG PHILIPS TFT COLOR MINI LVDS, P6
	or 6304FLP353A	LCD(LIQUID CRYSTAL DISPLAY), LC420W02-B6K2 LG PHILIPS TFT COLOR BDF P6
030	3809TKE028B	BACK COVER ASSEMBLY, 42LP10 3808TKE023 (NO SERVICE LABEL)
040	3043TKK238A	TILT SWIVEL ASSEMBLY, 42LP1D . STAND(EA, NA, TORNADO)
050	3550TKK812A	COVER, 42LP10 REAR (DECO)
060	4951TKS210D	METAL ASSEMBLY, FRAME (42LP10,ZE)
070	6871TPT315B	PWB(PCB) ASSEMBLY,POWER, 37-42 TORNADO POWER TOTAL BRAND KNPOWERTEK
080	3313TL4012C	MAIN TOTAL ASSEMBLY, 37,42LP1R-ME BRAND ML-051A
090	6871TSTA45F	PWB(PCB) ASSEMBLY,SUB, SUB T.T ML051A 42LP1R-ME SIDE
100	4814TKK324A	SHIELD, REAR, MAIN(42LP10)
110	3551TKS061F	COVER ASSEMBLY, 42LP1D SPEAKER . LEFT(ME,BLACK,XD ENGINE,IF)
120	3551TKS062F	COVER ASSEMBLY, 42LP1D SPEAKER . RIGHT(ME,BLACK,XD ENGINE,IF)
130	4951TKK276M	METAL ASSEMBLY, SHIELD AV ASSY, 42LP1R-ME
140	3551TKK597F	COVER ASSEMBLY, 42LP1D REAR . A/V COVER(ME)
150	4950TKA189A	METAL, FIX AL DECO REAR PIECE
160	4810TKK260A	BRACKET, 55LP10 SPEAKER SIDE DECO
170	4950TKA184A	METAL, STAND FIX BOTTOM(42LP10)
180	6871TST948A	PWB(PCB) ASSEMBLY,SUB, 32LP1P-ZA(TORNADO) ETC TOTAL BRAND IR
190	6871TSTB32A	PWB(PCB) ASSEMBLY,SUB, 42LP1D-UA LOGO ETC TOTAL BRAND .
200	6871TSTA44A	PWB(PCB) ASSEMBLY,SUB, 32LP1R-ZE(TORNADO) ETC TOTAL BRAND FRONT AV
210	68719ST007A	PWB(PCB) ASSEMBLY,SUB, SUB T.T ML051A 37LP1R-ME TOTAL INDEX ASSY
220	6871TSTB74C	PWB(PCB) ASSEMBLY,SUB, T.T ML051A 42LP1R-ME BRAND JACK BD

# REPLACEMENT PARTS LIST

For Capacitor & Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN, CH : Ceramic  
 CQ : Polyester  
 CE : Electrolytic  
 CF : Fixed Film

RD : Carbon Film  
 RS : Metal Oxide Film  
 RN : Metal Film  
 RH : CHIP, Metal Glazed(Chip)  
 RR : Drawing

DATE: 2005. 11. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
<b>CAPACITOR</b>				
		C1008	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1010	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1011	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1014	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1015	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1016	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1017	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1020	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1021	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1022	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1024	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1026	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1027	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1028	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1029	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1031	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1032	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1033	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1034	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1041	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1043	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1046	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1047	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1050	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1051	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1052	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1053	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1056	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1057	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1058	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1059	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1062	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1063	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1065	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1066	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1067	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1068	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1071	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1072	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1074	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1076	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1079	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1080	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1086	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1087	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1088	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1089	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1092	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1093	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1094	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1095	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1098	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1099	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1102	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1103	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1104	0CH3103K516	10000PF 50V 10% B(Y5P) 2012

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION	
			C1108	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1109	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
			C1111	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1113	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1116	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1118	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1119	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1120	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1121	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1122	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1123	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
			C1124	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
			C1125	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
			C1126	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
			C1127	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
			C1133	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1135	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1137	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
			C1138	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1139	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
			C1143	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1146	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1147	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1149	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1150	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
			C1153	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
			C1154	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1155	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1156	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
			C1159	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
			C1160	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1162	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
			C1163	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1173	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1175	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1176	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1177	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1179	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1180	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1181	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1182	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1183	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1184	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1185	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1186	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1187	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1188	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1192	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1194	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1196	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1198	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1199	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1201	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
			C1203	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP





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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C831	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C832	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C833	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C834	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C835	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C836	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C837	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C306	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C358	0CH2333K516	33000PF 50V 10% B(Y5P) 2012
		C359	0CH2333K516	33000PF 50V 10% B(Y5P) 2012
		C360	0CH2333K516	33000PF 50V 10% B(Y5P) 2012
		C361	0CH2333K516	33000PF 50V 10% B(Y5P) 2012
		C437	0CH6151K416	150PF 2012 50V 5% NPO -
		C601	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C605	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C606	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C607	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C608	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C613	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C614	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C620	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C621	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C622	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C631	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C632	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C633	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C634	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C635	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C636	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C637	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C650	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C700	0CH6220K416	22PF 2012 50V 5% NPO -
		C701	0CH6220K416	22PF 2012 50V 5% NPO -
		C727	0CH6221K416	220PF 2012 50V 5% NPO -
		C816	0CH6151K416	150PF 2012 50V 5% NPO -
		C821	0CH6220K416	22PF 2012 50V 5% NPO -
		C822	0CH6220K416	22PF 2012 50V 5% NPO -
		C838	0CH6080K116	8PF 2012 50V 0.5 PF C0G R/T
		C839	0CH6080K116	8PF 2012 50V 0.5 PF C0G R/T
		C312	0CH6101K416	100PF 50V 5% NPO 2012 R/TP
		C313	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C441	OCC821DK41A	820PF 2012 50V 5% NPO R/TP
		C651	0CH6180K416	18PF 2012 50V 5% NPO R/TP
		C652	0CH6180K416	18PF 2012 50V 5% NPO R/TP
		C352	OCE108EJK18	"1000UF KMG,RD 35V 20%,-20%"
		C374	OCE108EJK18	"1000UF KMG,RD 35V 20%,-20%"
		C1002	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1004	OCE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1007	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1009	OCE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1012	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1013	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1018	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1019	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1023	OCE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1025	OCE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1030	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1035	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1037	OCE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1040	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1042	OCE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1045	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1048	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1049	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1054	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1055	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1060	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1061	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1064	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1069	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1070	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1073	OCE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1075	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1078	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1085	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1090	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1091	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1096	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1097	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1110	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1112	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1114	OCE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1117	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1128	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1129	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1130	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1131	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1132	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1134	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1136	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1140	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1142	OCE107WK6DC	100UF MVK 50V 20% R/TP(SMD)
		C1144	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1148	OCE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1151	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1152	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1157	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1158	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1161	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1168	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1174	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1178	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1189	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1190	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1191	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1193	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1195	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1197	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1200	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1202	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1204	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1206	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1207	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1208	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1214	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1230	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1231	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1264	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1265	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1266	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1268	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1273	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1275	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1283	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1285	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1296	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1297	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C1299	0CE107WH6DC	100UF MVK 25V 20% R/TP(SMD)
		C1305	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1307	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1309	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1314	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1405	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1406	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1408	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) S
		C1411	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) S
		C1412	0CE476VK6DC	47UF MV 50V 20% R/TP(SMD) S
		C3	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C301	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C307	0CH8106F691	10UF 16V 20% 105STD (CYL) R
		C311	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C338	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C341	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C378	0CE475WJ6DC	4.7UF MVK 35V 20% R/TP(SMD)
		C436	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C438	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C443	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C604	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C612	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C624	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C626	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C627	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C641	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C642	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C646	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C653	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C904	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C905	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C952	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C955	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C362	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE N
		C363	0CF4741L438	0.47UF D 63V 5% TP 5 M/PE N
<b>DIODES</b>				
		D1003	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1009	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1014	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1001	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1002	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1004	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1006	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		ZD1400	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
<b>IC</b>				
		IC900	0IZZTSA123C	"MX29LV160BTTC-70G,LF MACRON"
		IC301	0ILNR00015A	"NSP-2100A,LF NEOFIDELITY TQ"
		IC701	0IMMRSG036D	"M24C32-WMNM6TPW,LF SGS-THOMS"
		IC702	0IMMR00004C	"SST25VF040-20-4C-S2AE,LF SS"
		IC804	0IAL242561B	AT24C256W-10SU-2.7V ATMEL 8
		IC901	0IMMRHY052C	"HY5DU281622ETP-5,PB FREE HY"
		IC902	0IMMRHY052C	"HY5DU281622ETP-5,PB FREE HY"
		IC302	0IMCRTI028C	"TAS5122DCARG4,LF TEXAS INS"
		IC700	0IMCR02006A	FLI8125BB-LF GENESIS 208P/P
		IC800	0IMCR02005A	FLI8532BD-LF GENESIS 416P/P

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		IC600	0IPRPS5006A	SIL9021CTU(PB FREE) SILICON
		IC802	0ISA721700C	LA7217M MFP14 TP SYNC SEPAR
		IC1001	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1002	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1003	0IPMGSG018D	LD1086DT18TR-LF SGS-THOMSON
		IC1004	0IPRPM001A	MIC39100 MICREL 3P SOT223 R
		IC1005	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1006	0IPMGSG018D	LD1086DT18TR-LF SGS-THOMSON
		IC1007	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1009	0IPMGSG018D	LD1086DT18TR-LF SGS-THOMSON
		IC1010	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1011	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1012	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC1013	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC303	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VO
		IC801	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VO
		IC806	0IKE704200J	KIA7042AF SOT-89 TP 4.2V VO
		IC401	0IPH741400E	74HC14D 14SOP TP SHITTER TR
<b>COIL &amp; CORE &amp; INDUCTOR</b>				
		L303	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L304	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L305	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L306	6140VB0022A	CPS-0810 GET 22UH 21.5TURNS
		L1102	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L1103	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L1104	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L1105	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L1106	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L1107	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L1108	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L1109	6210TCE001L	HB-1T2012-102JT CERATECH 20
		AB601	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AB602	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AB603	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AB604	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AB605	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AB606	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AB607	6210TCE002B	HB-4M3216-121JT CERATECH 32
		L1100	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L1101	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L1000	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1001	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1003	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1004	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1005	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1006	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1007	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1008	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1009	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1010	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1011	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1012	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1013	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1014	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1015	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1016	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1017	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1018	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1019	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1020	6210TCE001G	HH-1M3216-501 CERATEC 3216M

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		L1022	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1025	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1026	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1028	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1029	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1034	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1036	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1037	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1038	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1039	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1040	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1042	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1043	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1044	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1045	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1046	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1047	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1048	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1049	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1050	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1401	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1402	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1403	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L301	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L308	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L309	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L314	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L315	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L316	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L603	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L604	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L605	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L607	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L608	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L609	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L610	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L611	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L612	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1002	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1021	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1031	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1035	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1404	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L2	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L307	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L310	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L311	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L312	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L313	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L601	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L602	6210TCE001G	HH-1M3216-501 CERATEC 3216M
<b>TRANSISTOR</b>				
		Q1001	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q403	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q1	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		IC1	0TF492509AA	SI4925DY TP TEMIC 30V 6.1A
<b>RESISTORS</b>				
		R627	0RH1004D422	1M OHM 1 / 10 W 1% D R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
			AR606	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			AR700	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			AR701	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			AR702	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			AR703	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			AR704	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			AR705	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			AR801	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			AR802	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			AR803	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			AR804	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			AR806	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			AR807	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			AR808	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			AR809	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			AR810	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			AR811	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			AR812	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			AR813	0RHZTCZ001D RCA SMART 220HM 1/16 W 5% 3
			R1004	0RH1801D622 1.8K OHM 1 / 10 W 2012 5.00
			R1010	0RH0222D622 22 OHM 1 / 10 W 2012 5.00%
			R1012	0RH4701D622 4.7K OHM 1 / 10 W 2012 5.00
			R1014	0RH4701D622 4.7K OHM 1 / 10 W 2012 5.00
			R1401	0RH6800D622 680 OHM 1 / 10 W 5% D R/TP
			R1402	0RH1001D622 1K OHM 1 / 10 W 2012 5.00%
			R1801	0RH0332D622 33 OHM 1 / 10 W 2012 5.00%
			R1802	0RH0332D622 33 OHM 1 / 10 W 2012 5.00%
			R1807	0RH4700D622 470 OHM 1 / 10 W 2012 5.00%
			R301	0RH1002D622 10K OHM 1 / 10 W 2012 5.00%
			R303	0RH1000D622 100 OHM 1 / 10 W 2012 5.00%
			R304	0RH1000D622 100 OHM 1 / 10 W 2012 5.00%
			R305	0RH1000D622 100 OHM 1 / 10 W 2012 5.00%
			R306	0RH0102D622 10 OHM 1 / 10 W 2012 5.00%
			R328	0RH0471D622 4.7 OHM 1 / 10 W 2012 5.00%
			R329	0RH0000D622 0 OHM 1 / 10 W 2012 5.00% D
			R330	0RH0000D622 0 OHM 1 / 10 W 2012 5.00% D
			R331	0RH0000D622 0 OHM 1 / 10 W 2012 5.00% D
			R334	0RH1002D622 10K OHM 1 / 10 W 2012 5.00%
			R335	0RH0000D622 0 OHM 1 / 10 W 2012 5.00% D
			R338	0RH1002D622 10K OHM 1 / 10 W 2012 5.00%
			R346	0RH1000D622 100 OHM 1 / 10 W 2012 5.00%
			R348	0RH0331D622 3.3 OHM 1 / 10 W 2012 5.00%
			R350	0RH0221D622 2.2 OHM 1 / 10 W 2012 5.00%
			R352	0RH0221D622 2.2 OHM 1 / 10 W 2012 5.00%
			R353	0RH0221D622 2.2 OHM 1 / 10 W 2012 5.00%
			R354	0RH0221D622 2.2 OHM 1 / 10 W 2012 5.00%
			R359	0RH1002D622 10K OHM 1 / 10 W 2012 5.00%
			R360	0RH1002D622 10K OHM 1 / 10 W 2012 5.00%
			R361	0RH1002D622 10K OHM 1 / 10 W 2012 5.00%
			R362	0RH0221D622 2.2 OHM 1 / 10 W 2012 5.00%
			R363	0RH0101D622 1.0 1/10W 5 TA
			R364	0RH0101D622 1.0 1/10W 5 TA
			R365	0RH0101D622 1.0 1/10W 5 TA
			R379	0RH0331D622 3.3 OHM 1 / 10 W 2012 5.00%
			R391	0RH0221D622 2.2 OHM 1 / 10 W 2012 5.00%
			R392	0RH0221D622 2.2 OHM 1 / 10 W 2012 5.00%
			R393	0RH0221D622 2.2 OHM 1 / 10 W 2012 5.00%
			R394	0RH1002D622 10K OHM 1 / 10 W 2012 5.00%
			R397	0RH0101D622 1.0 1/10W 5 TA
			R456	0RH1000D622 100 OHM 1 / 10 W 2012 5.00%
			R457	0RH2200D622 220 OHM 1 / 10 W 2012 5.00%
			R458	0RH0000D622 0 OHM 1 / 10 W 2012 5.00% D

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R459	ORH1503D622	150K OHM 1 / 10 W 2012 5.00
		R462	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R465	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R466	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R468	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R629	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R715	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R716	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R717	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R726	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R727	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R729	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R734	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R739	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R744	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R784	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R785	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R786	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R802	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R809	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R814	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R829	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R842	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R843	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R844	ORH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R865	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R884	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R885	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R886	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R887	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R890	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R891	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R894	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R896	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R897	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R898	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R899	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R903	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R905	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R906	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R908	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R909	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R910	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R911	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R913	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R920	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R921	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R931	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R941	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R942	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R945	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R947	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		L402	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1000	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1001	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1002	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1003	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1007	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R11	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1804	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1805	ORH2702D622	27K OHM 1 / 10 W 2012 5.00%
		R1808	ORH2701D622	2.7K OHM 1 / 10 W 2012 5.00

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1809	ORH2701D622	2.7K OHM 1 / 10 W 2012 5.00
		R1812	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1813	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1815	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R302	ORH2702D622	27K OHM 1 / 10 W 2012 5.00%
		R307	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R308	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R309	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R310	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R311	ORH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R336	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R337	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R344	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R345	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R369	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R370	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R375	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R460	ORH5600D622	560 OHM 1 / 10 W 2012 5.00%
		R461	ORH0472D622	47 OHM 1 / 10 W 2012 5.00%
		R463	ORH3901D622	3.9K OHM 1 / 10 W 2012 5.00
		R464	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R6	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R620	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R621	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R622	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R624	ORH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R626	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R628	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R630	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R631	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R632	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R633	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R634	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R696	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R698	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R7	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R701	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R711	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R712	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R713	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R714	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R719	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R720	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R721	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R722	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R723	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R724	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R725	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R730	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R731	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R733	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R735	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R736	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R737	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R740	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R741	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R742	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R745	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R747	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R748	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R749	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R750	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R751	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R752	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R754	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R755	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R756	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R762	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R763	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R765	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R776	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R777	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R778	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R779	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R780	ORH2701D622	2.7K OHM 1 / 10 W 2012 5.00
		R781	ORH2701D622	2.7K OHM 1 / 10 W 2012 5.00
		R782	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R783	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R799	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R800	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R801	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R803	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R805	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R808	ORH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R812	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R813	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R815	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R816	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R817	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R818	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R819	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R820	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R821	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R822	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R823	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R824	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R825	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R826	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R827	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R830	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R831	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R832	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R833	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R834	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R835	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R836	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R837	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R838	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R839	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R840	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R841	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R846	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R849	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R850	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R851	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R852	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R861	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R863	ORH2702D622	27K OHM 1 / 10 W 2012 5.00%
		R864	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R867	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R888	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R889	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R892	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R893	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%

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		R900	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R901	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R902	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R914	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R915	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R929	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R930	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R932	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R933	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R934	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
<b>OTHERS</b>				
		LED3	0DL233309AC	SAM2333 TP KWANG GREEN/RED
		X401	166-E02F	CSBLA500KECF09-B0 CSB500F9
		X600	156-A02X	HC49U SUNNY RADIAL 27.000MH
		X700	6212AB2015G	HC-49/SM BUBANG 19.6608MHZ
		X800	6212AB2015G	HC-49/SM BUBANG 19.6608MHZ
<b>IR BOARD</b>				
		C1000	OCN1010K519	100PF D 50V 10% B(Y5P) TA52
		C1001	OCE476DF618	47UF STD 16V 20% FL TP 5
		L1000	0LA0102K119	10UH 10% A 2.3 X 3.4 TA52 -
		R1000	971-0016	TIN HDC 0.60H NON NON
		PA1000	6726VV0006J	TSOP2238MQ1 VISHAY 38KHZ MC
<b>INDEX BOARD</b>				
		C1210	OCE3363F618	"33UF SRE,SE 16V 20% FL TP 5"
		C1211	OCE3363F618	"33UF SRE,SE 16V 20% FL TP 5"
		C1212	OCE3363F618	"33UF SRE,SE 16V 20% FL TP 5"
		L1202	0LA0102K119	10UH 10% A 2.3 X 3.4 TA52 -
		L1207	0LA0102K119	10UH 10% A 2.3 X 3.4 TA52 -
		L1210	0LA0102K119	10UH 10% A 2.3 X 3.4 TA52 -
		R1272	0RD1000F609	100 OHM 1/6 W 5% TA52
		C1201	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1202	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1203	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1204	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1205	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1206	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1207	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		IC1201	0IPRP00533A	"UPD16311GC-AB6-A,LF NEC 52P"
		IC1202	0IKE657830B	KID65783AF 20PIN SOP TRAY T
		Q1201	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1202	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1203	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1204	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1205	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1206	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1207	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1208	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1210	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1211	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1212	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R1202	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1203	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1205	ORH0392D622	39 OHM 1 / 10 W 2012 5.00%
		R1206	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1207	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1208	ORH5100D622	510 OHM 1 / 10 W 2012 5.00%

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		R1211	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R1214	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1215	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1216	0RH0392D622	39 OHM 1 / 10 W 2012 5.00%
		R1217	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1221	0RH0392D622	39 OHM 1 / 10 W 2012 5.00%
		R1222	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1227	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1228	0RH0392D622	39 OHM 1 / 10 W 2012 5.00%
		R1230	0RH0392D622	39 OHM 1 / 10 W 2012 5.00%
		R1231	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1232	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1235	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1236	0RH0392D622	39 OHM 1 / 10 W 2012 5.00%
		R1237	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1238	0RH1500D622	150 OHM 1 / 10 W 2012 5.00%
		R1239	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1240	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1241	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1242	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1243	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1244	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1245	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1246	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1247	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1248	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1249	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1250	0RH0392D622	39 OHM 1 / 10 W 2012 5.00%
		R1251	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1252	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1253	0RH0392D622	39 OHM 1 / 10 W 2012 5.00%
		R1254	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1255	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1256	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1257	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1258	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1259	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1260	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1261	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1262	0RH1500D622	150 OHM 1 / 10 W 2012 5.00%
		R1263	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1265	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1266	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1267	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1268	0RH1500D622	150 OHM 1 / 10 W 2012 5.00%
		R1271	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1275	0RH3302D622	33K OHM 1 / 10 W 2012 5.00%
		R1279	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1280	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1281	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1282	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1283	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1284	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1285	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1286	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1288	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
<b>FRONT A/V BOARD</b>				
		SW1201	6600R00001B	JTP1289 JEIL 12V DC 1MA VER
		SW1202	6600R00001B	JTP1289 JEIL 12V DC 1MA VER
		SW1203	6600R00001B	JTP1289 JEIL 12V DC 1MA VER

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		SW1204	6600R00001B	JTP1289 JEIL 12V DC 1MA VER
		SW1205	6600R00001B	JTP1289 JEIL 12V DC 1MA VER
		SW1206	6600R00001B	JTP1289 JEIL 12V DC 1MA VER
		SW1207	6600R00001B	JTP1289 JEIL 12V DC 1MA VER
		SW1208	6600R00001B	JTP1289 JEIL 12V DC 1MA VER
		C2103	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C2107	0CH6471K416	470PF 2012 50V 5% NP0 R/TP
		C2108	0CH6471K416	470PF 2012 50V 5% NP0 R/TP
		L2101	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L2102	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L2104	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		L2105	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R2101	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2102	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R2103	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2104	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R2105	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R2107	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R2110	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R2111	0RH3001D622	3K OHM 1 / 10 W 2012 5.00%
		R2112	0RH3001D622	3K OHM 1 / 10 W 2012 5.00%
		R2113	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R2114	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R2115	0RH1301D622	1.3K OHM 1 / 10 W 2012 5.00
		R2116	0RH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R2117	0RH1301D622	1.3K OHM 1 / 10 W 2012 5.00
		R2118	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R2119	0RH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R2120	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		ZD2101	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
		ZD2102	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
		ZD2103	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
<b>SIDE BOARD</b>				
		C3103	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C3104	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		L3108	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L3109	6210TCE001A	HB-1S2012-080JT CERATEC 201
		R3100	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3101	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R3102	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R3103	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3104	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3111	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R3113	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R3115	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R3117	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R3119	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R3123	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3124	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3160	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		ZD3100	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
		ZD3101	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
		ZD3105	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
		ZD3106	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
		ZD3107	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
<b>JACK BOARD</b>				
		C100	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1001	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

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		C103	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C104	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C105	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1102	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1146	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1147	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C115	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C116	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1169	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C117	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C1171	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1172	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C118	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C119	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C120	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C122	0CK273DK51A	27000PF 2012 50V 10% B(Y5P)
		C123	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C126	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C128	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C129	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1297	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C1306	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C1308	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C1309	0CH3822K516	8200PF 2012 50V 10% B(Y5P)
		C131	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1310	0CH3822K516	8200PF 2012 50V 10% B(Y5P)
		C1314	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C1315	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C1330	0CK225DH94A	"2.2UF 2012 25V 80%,-20% F(Y"
		C135	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C204	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C205	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C220	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C222	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C223	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C224	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C237	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C240	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C241	0CH6010K116	1PF 2012 50V 0.5 PF NP0 R/T
		C242	0CH6010K116	1PF 2012 50V 0.5 PF NP0 R/T
		C244	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C301	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C304	0CH6010K116	1PF 2012 50V 0.5 PF NP0 R/T
		C305	0CH6010K116	1PF 2012 50V 0.5 PF NP0 R/T
		C306	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C307	0CH6560K416	56PF 2012 50V 5% NP0 -
		C308	0CH6560K416	56PF 2012 50V 5% NP0 -
		C309	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C311	0CH3223K516	22000PF 2012 50V 10% B(Y5P)
		C313	0CH3223K516	22000PF 2012 50V 10% B(Y5P)
		C314	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C316	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C324	0CH6471K416	470PF 2012 50V 5% NP0 R/TP
		C326	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C330	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C332	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C333	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C335	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C344	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C345	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C375	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C390	0CH3103K516	10000PF 50V 10% B(Y5P) 2012

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C401	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C402	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C407	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C408	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C409	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C410	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C412	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C415	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C427	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C428	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C654	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C655	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C656	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C658	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C659	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C660	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C663	0CH6120K416	12PF 2012 50V 5% NP0 -
		C664	0CH6120K416	12PF 2012 50V 5% NP0 -
		C669	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		D1003	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D601	0DD184009AA	KDS184 TP KEC - 85V - - - 3
		L100	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1001	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L101	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L102	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1023	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1024	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L104	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L105	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L202	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L203	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L206	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L207	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L208	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L209	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L211	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L212	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L216	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L217	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L299	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L302	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L400	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L401	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		Q102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q103	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q105	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q107	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q108	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q113	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q210	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q211	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q213	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q301	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q302	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q303	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q304	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q305	0TR102008AA	KRA102S R/TP KEC SOT23 CHIP
		Q306	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q307	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q308	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q309	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q400	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		Q401	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q402	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q405	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q406	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R101	0RH2700D622	270 OHM 1 / 10 W 2012 5.00%
		R1011	0RH1003D622	100K OHM 1 / 10 W 2012 5.00
		R104	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R105	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R107	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R109	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R110	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R111	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R112	0RH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R114	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R115	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R116	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R117	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R119	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R121	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R122	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R123	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R124	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R125	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R126	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R129	0RH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R130	0RH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R1304	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1305	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R142	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R143	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R144	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R145	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R151	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R157	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R206	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R207	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R212	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R213	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R214	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R215	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R217	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R219	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R221	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R222	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R223	0RH2702D622	27K OHM 1 / 10 W 2012 5.00%
		R224	0RH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R225	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R226	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R227	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R228	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R229	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R230	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R231	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R232	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R233	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R234	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R235	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R236	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R237	0RH0682D622	68 OHM 1 / 10 W 2012 5.00%
		R239	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R252	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R255	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R256	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R257	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R259	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R260	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R261	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R262	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R263	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R264	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R266	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R267	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R268	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R269	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R270	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R271	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R272	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R277	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R279	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R280	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R281	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R282	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R283	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R284	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R285	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R286	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R288	0RH1200D622	120 OHM 1 / 10 W 2012 5.00%
		R290	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R291	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R292	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R293	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R294	6210TCE001S	HU-1M2012-121 CERATECH 2012
		R295	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R296	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R297	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R302	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R303	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R304	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R305	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R306	0RH0432D622	43 OHM 1 / 10 W 2012 5.00%
		R307	0RH0432D622	43 OHM 1 / 10 W 2012 5.00%
		R309	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R315	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R317	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R318	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R319	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R320	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R321	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R322	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R323	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R326	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R327	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R328	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R329	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R330	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R331	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R332	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R342	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R343	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R349	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R351	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R355	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R358	0RH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R372	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R381	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R382	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R395	0RH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R396	0RH4703D622	470K OHM 1 / 10 W 2012 5.00
		R398	0RH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R401	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R403	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R406	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R407	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R408	0RH3300D622	330 OHM 1 / 10 W 2012 5.00%
		R410	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R415	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R416	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R417	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R420	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R423	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R426	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R428	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R430	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R444	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R447	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R448	0RH1003D622	100K OHM 1 / 10 W 2012 5.00
		R643	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R644	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R645	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R651	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R652	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R653	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R654	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R664	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R665	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R667	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R668	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R670	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R671	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R678	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		ZD213	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
		ZD214	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
		ZD215	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
		ZD216	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
		ZD300	0DZKE00048A	KDZ8.2V USC KEC R/TP NON
		ZD400	0DR050008AA	SD05.TC R/TP SEMTECH SOD323
		ZD401	0DR050008AA	SD05.TC R/TP SEMTECH SOD323
		ZD604	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
		ZD605	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
		ZD607	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
		ZD608	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
		ZD609	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
		TU100	6700NF0020A	TAUM-H101P LGIT NTSC FS PHO
		TU101	6700NF0020B	TAFM-H102P LGIT NTSC FS PHO
		ZD1401	0DZ330009DF	MTZJ33B TP ROHM-K DO34 0.5W
		C101	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C102	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C106	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C108	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C110	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1101	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1103	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1104	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1105	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C111	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C112	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C113	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C114	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C1148	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1170	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C121	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C127	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C130	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1300	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C1302	0CE107WH6DC	100UF MVK 25V 20% R/TP(SMD)
		C1304	0CE106VK6DC	10UF MV 50V 20% R/TP(SMD) S
		C1305	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C1307	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C1311	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C1312	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1313	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C134	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C201	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C213	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C215	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C216	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C219	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C221	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C229	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C230	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C232	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C233	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C236	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C245	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C246	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C247	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C248	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C249	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C252	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C253	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM
		C302	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C303	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C312	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C319	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C323	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C325	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD)
		C327	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C328	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C329	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C331	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C334	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C347	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C351	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C372	0CE335VK6DC	3.3UF MV 50V 20% R/TP(SMD)
		C381	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C382	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C383	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C384	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C386	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C387	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C388	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C389	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C396	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C400	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C404	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C406	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C411	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C416	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7

DATE: 2005. 11. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C417	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C418	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C419	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C420	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C421	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C422	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C423	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C424	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C425	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C426	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C429	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C430	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C434	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C657	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C661	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C662	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C665	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C666	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		D100	0DS226009AA	KDS226 TP KEC - 80V -- 4NS
		D101	0DS226009AA	KDS226 TP KEC - 80V -- 4NS
		D602	0DD184009AA	KDS184 TP KEC - 85V --- 3
		D603	0DS226009AA	KDS226 TP KEC - 80V -- 4NS
		D604	0DS226009AA	KDS226 TP KEC - 80V -- 4NS
		D605	0DD184009AA	KDS184 TP KEC - 85V --- 3
		IC1000	0IMCRFA010A	"KA7809R, FAIRCHILD 2P D-PAK"
		IC1001	0IMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC201	0IMCRSG010A	ST3232CDR SGS-THOMSON SOP16
		IC300	0IMCRMN027D	MSP4440K MICRONAS 80P PQFP
		IC304	0IPRPT1034B	"TPA6110A2DGNRG4,LF TEXAS IN"
		IC400	0ISO206900A	CXA2069Q QFP64 BK I2C BUS A
		IC601	0DRSE00018B	"SRV05-4.TCT, SEMTECH R/TP S"
		IC602	0DRSE00018B	"SRV05-4.TCT, SEMTECH R/TP S"
		IC603	0DRSE00018B	"SRV05-4.TCT, SEMTECH R/TP S"
		IC604	0DRSE00018B	"SRV05-4.TCT, SEMTECH R/TP S"
		IC605	0ICS240213A	CAT24W(F)C02J-TE13 8P SOP
		IC606	0ICS240213A	CAT24W(F)C02J-TE13 8P SOP
		IC607	0ISTL00031A	"MC74HC4066ADR2G,LF ON SEMI"
		IC608	0ISTLFA058A	"74F14SCX FAIRCHILD 14P,SOIC"
		IC609	0ICS240213A	CAT24W(F)C02J-TE13 8P SOP
		L1002	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L103	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L218	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L219	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L300	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L301	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L606	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		P203	6630VE00731	10022HS-31A02 YEONHO 31P 1.
		P204	6630VE00731	10022HS-31A02 YEONHO 31P 1.
		P205	6602T12007D	GT121-31P-TD LGC 31P 1.25MM
		Q100	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q110	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q111	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q601	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q602	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q603	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q604	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q606	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q607	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R100	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R1002	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R102	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1300	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%

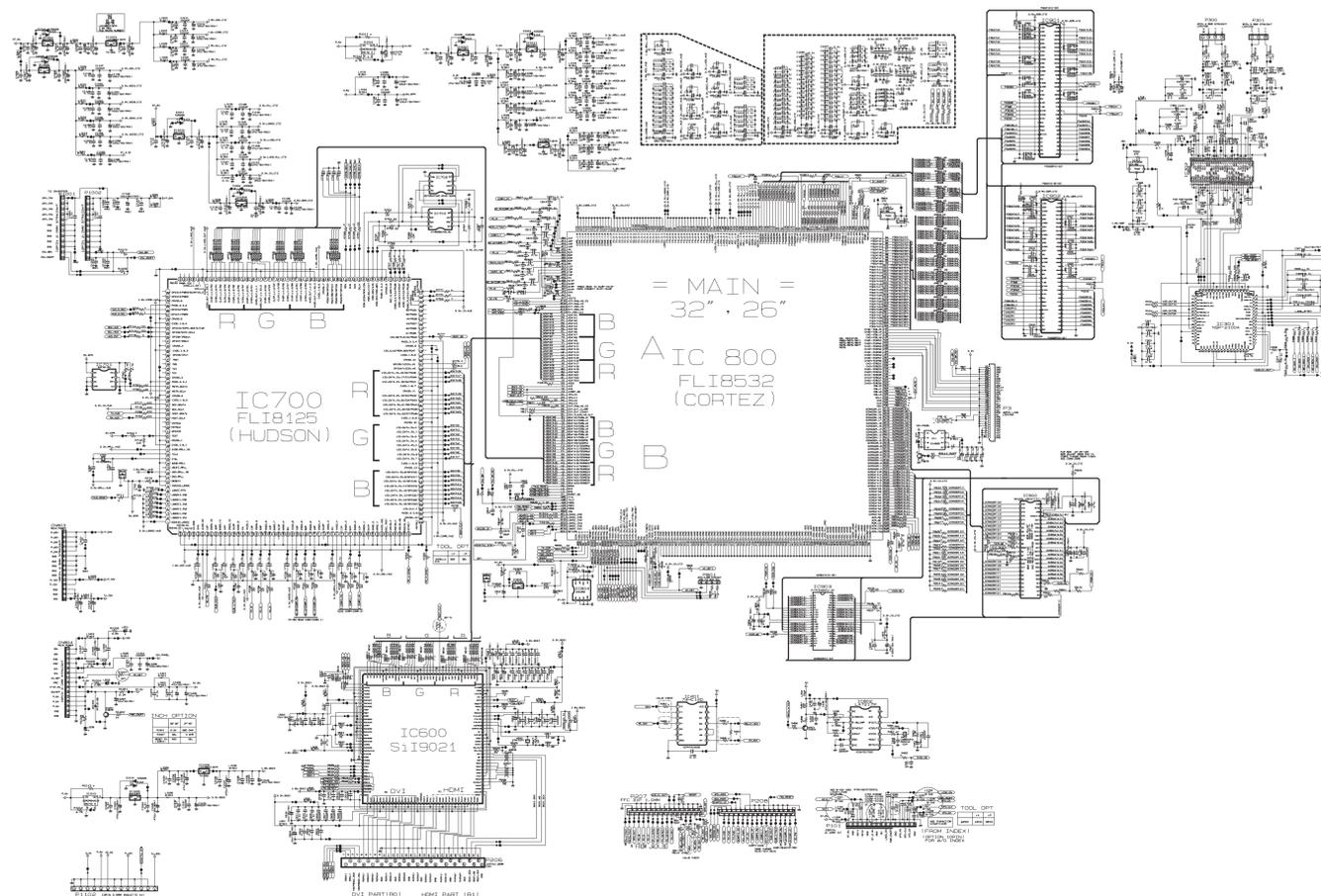
DATE: 2005. 11. 10.				
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		R1301	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1302	0RH2002D622	20K OHM 1 / 10 W 2012 5.00%
		R1303	0RH2002D622	20K OHM 1 / 10 W 2012 5.00%
		R273	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R274	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R275	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R276	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R298	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R299	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R310	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R311	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R312	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R313	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R314	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R316	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R373	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R374	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R377	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R411	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R412	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R418	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R419	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R425	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R427	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R429	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R433	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R434	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R435	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R436	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R437	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R438	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R439	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R440	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R441	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R442	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R443	0RH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R445	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R446	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R449	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R450	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R451	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R605	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R606	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R655	0RH1202D622	12K OHM 1 / 10 W 2012 5.00%
		R656	0RH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R657	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R658	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R659	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R660	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R663	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R666	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R669	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R672	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R673	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R674	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R675	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R679	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R680	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R681	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R682	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R683	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R684	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%

DATE: 2005. 11. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R685	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R690	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R691	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R692	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R693	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R694	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R695	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		X300	6202VDT002H	SX-1 SUNNY 18.432000MHZ +/-
		ZD603	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
		ZD606	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -
		ZD610	0DZ510009EE	UDZ S 5.1B TP ROHM SOD323 -

**LOGO BOARD**

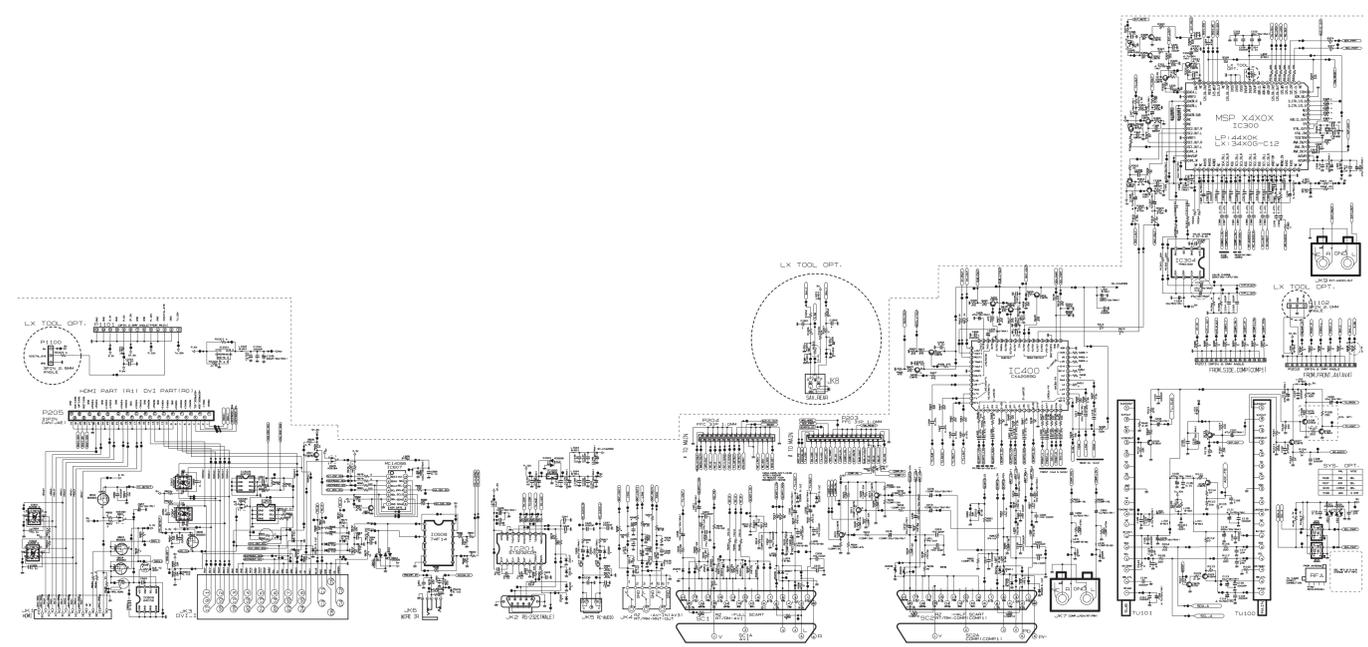
		LED801	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED802	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED803	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED804	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED805	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED806	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED807	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED808	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED809	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED810	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED811	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED812	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED813	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED814	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED815	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		LED816	0DLNC0058AA	NICHIA NSCW215T R/TP WHITE
		C3100	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD)
		C3101	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD)
		C3102	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD)
		C3103	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD)
		C3104	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD)
		C3105	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD)
		C3106	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD)
		C3107	0CE106SF6DC	10UF MVG 16V 20% R/TP(SMD)
		C3108	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3109	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3110	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3111	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3112	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3113	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3114	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3115	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		P3000	6602T12005B	12505WR-03A00 YEONHO 3P 1.2
		Q3101	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3103	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3104	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3105	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3106	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3107	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3108	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R3101	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R3102	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R3103	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R3104	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R3105	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R3106	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R3107	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP

DATE: 2005. 11. 10.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R3108	0RJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R3109	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3110	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3111	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3112	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3113	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3114	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3115	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3116	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R3120	0RJ2001D677	2K OHM 1/10 W 5% 1608 R/TP



= INITIAL (32" ) =  
JACK\_BD  
MP DATA (8-1DR)

APPLIED MODEL  
32LX2R, 32LP1R, 37LP1R, 42LP1R

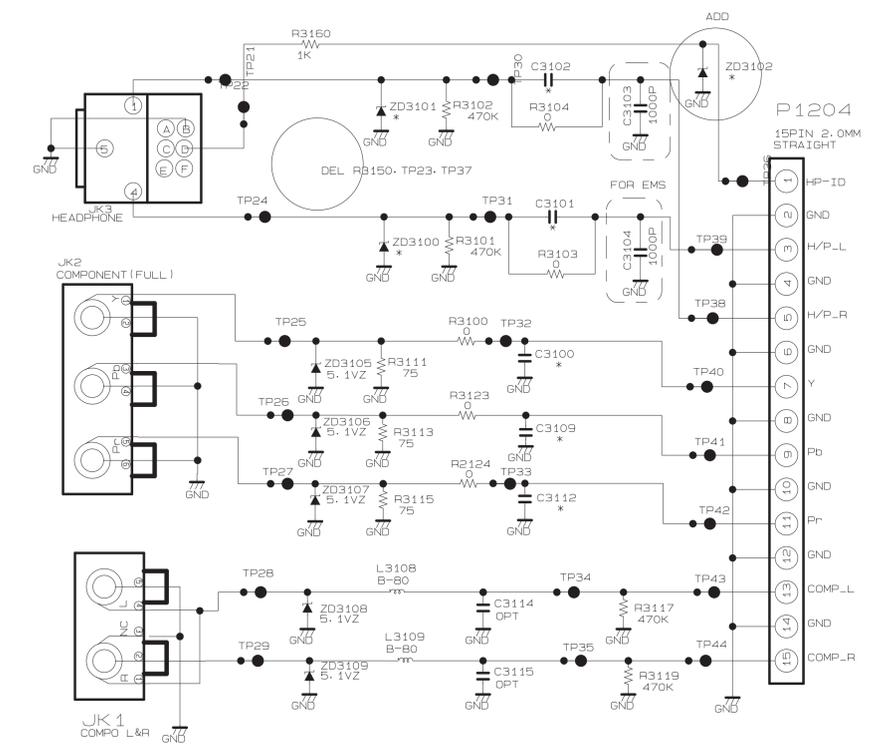
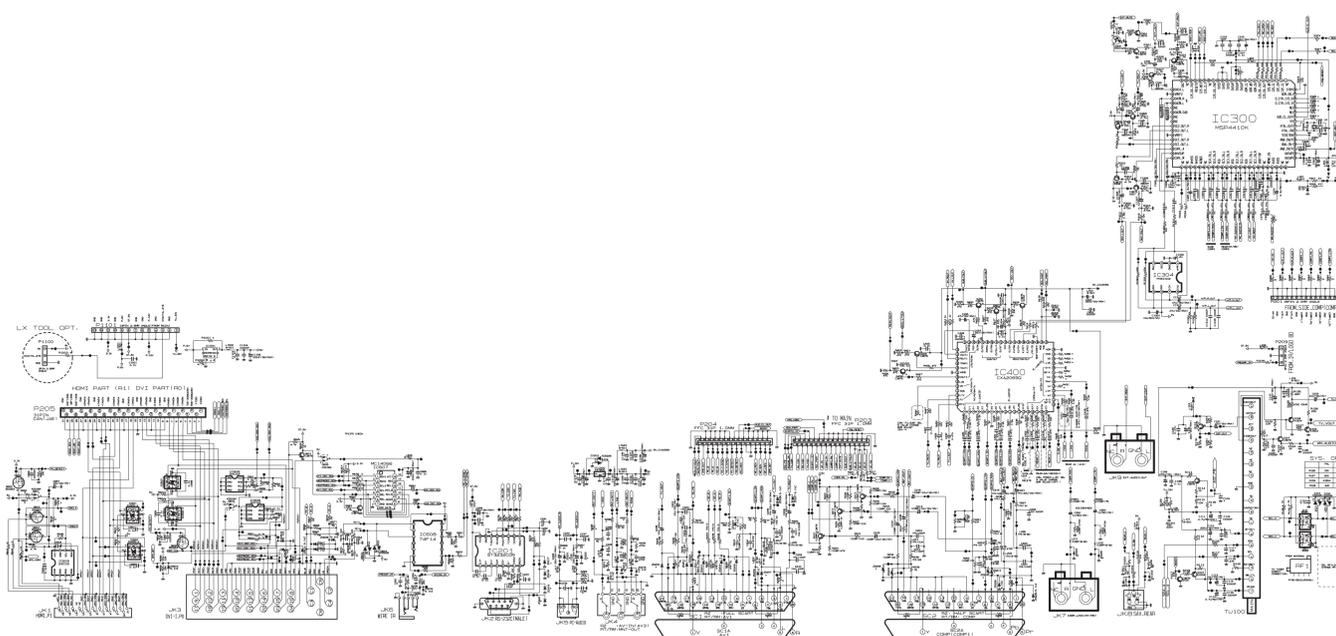


= JACK\_BD =  
26" ONLY  
LP & MP PCB DATA

SIDE\_COMP

TORNADO  
INITIAL-32  
LX TOOL ALSO  
USE THIS CIRCUIT

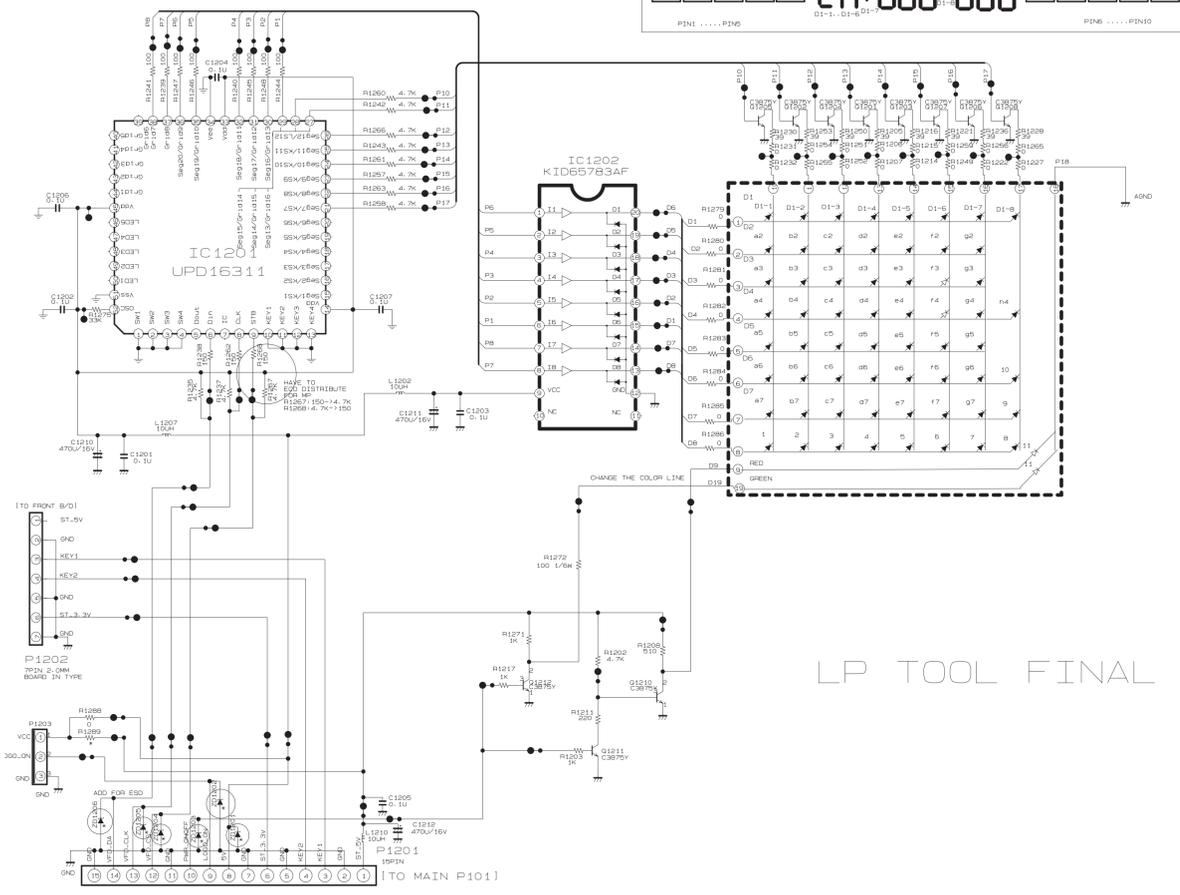
LP TOOL FINAL



INDEX

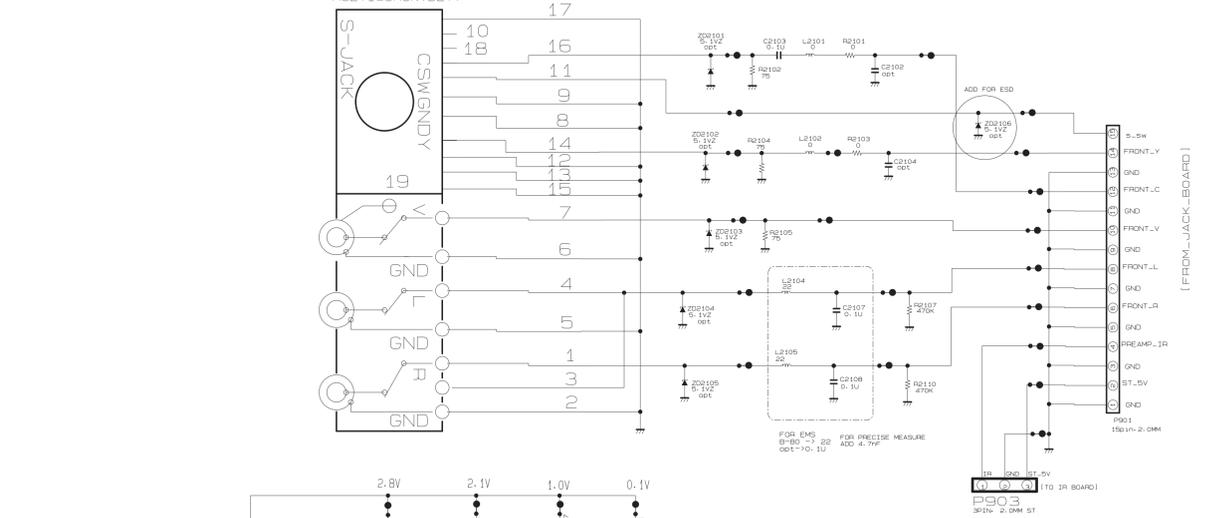
TORNADO 32INCH  
32LP1R-ZE

LED ASSY



KEY\_FRONT

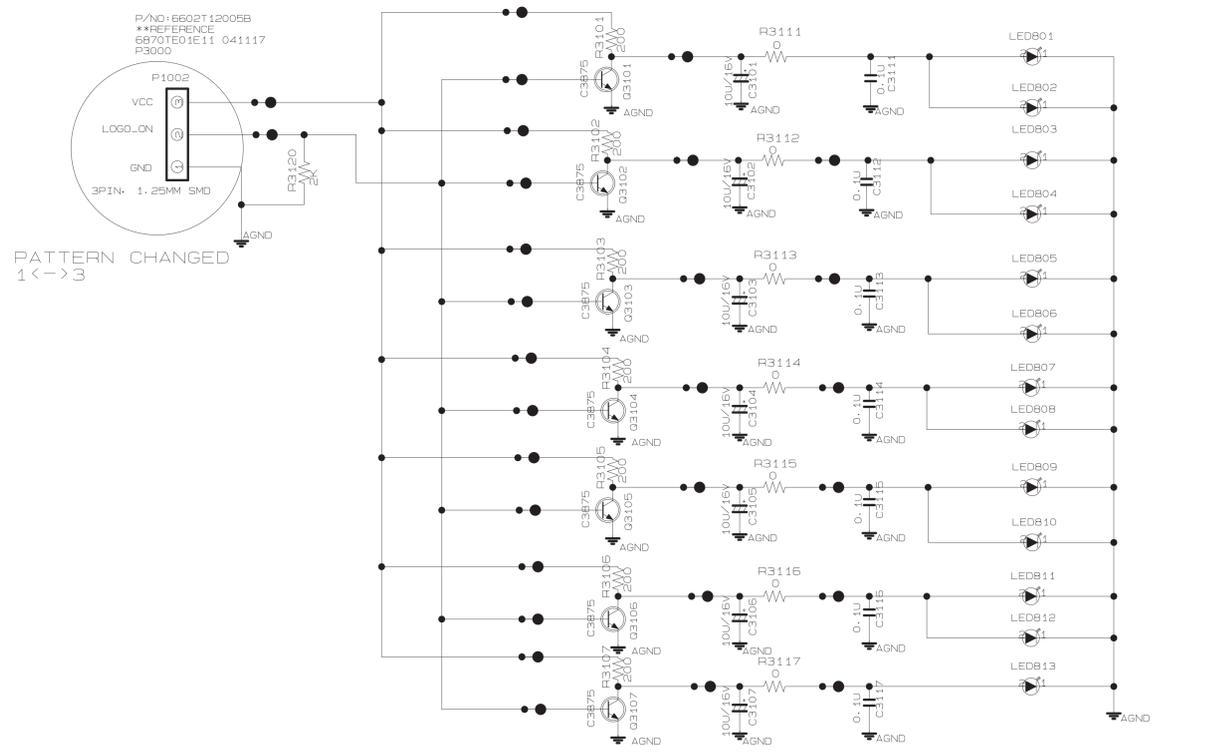
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INITIAL\_32INCH



LP TOOL FINAL

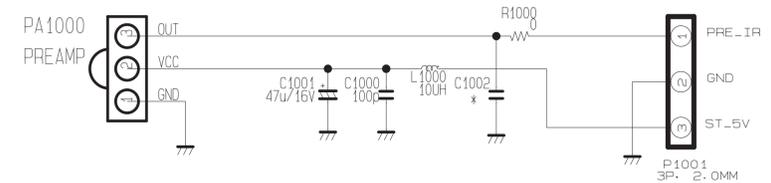
LOGO BD

FOR TORNADO  
32INCH



IR BOARD

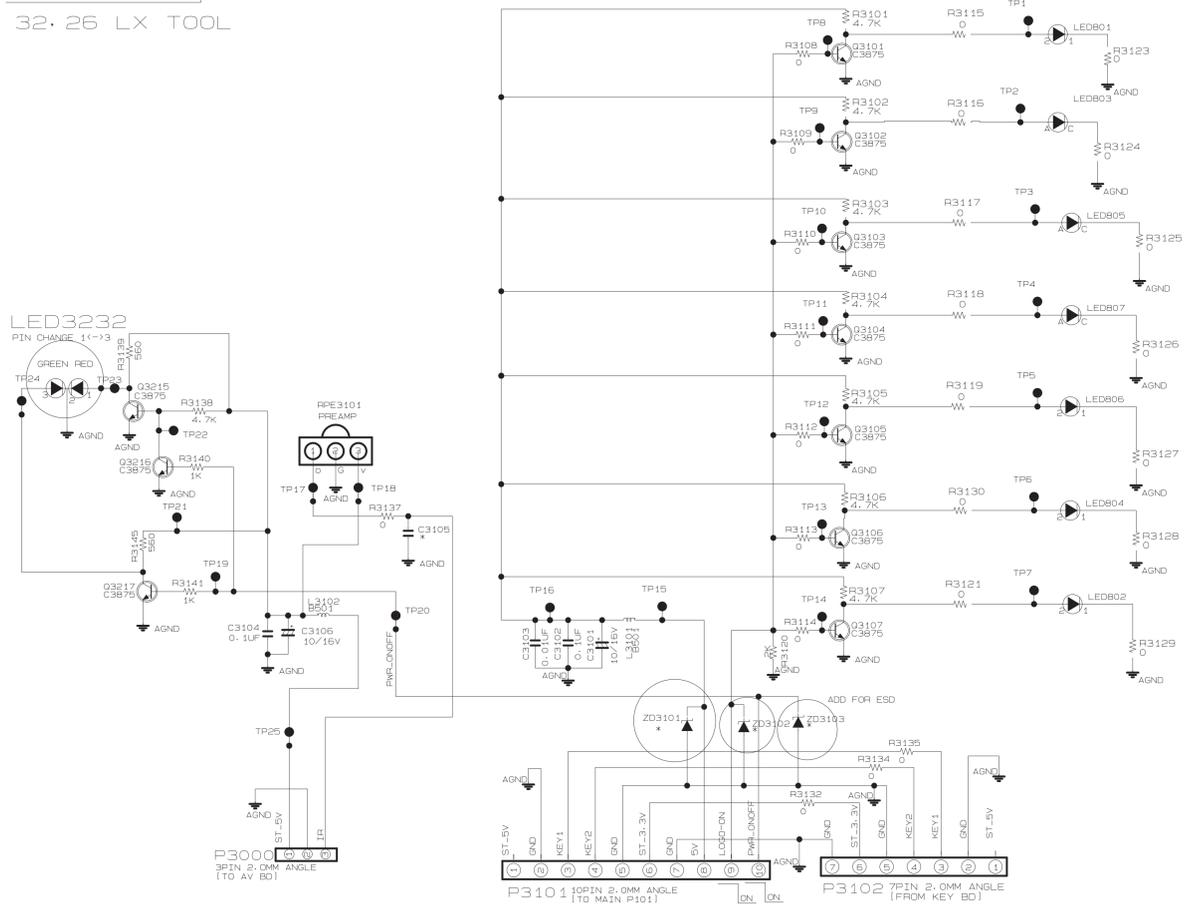
32LP1R-ZE  
TORNADO



IR-LOGO BD  
FOR TORNADO

32.26 LX TOOL

MODIFY FOR LP

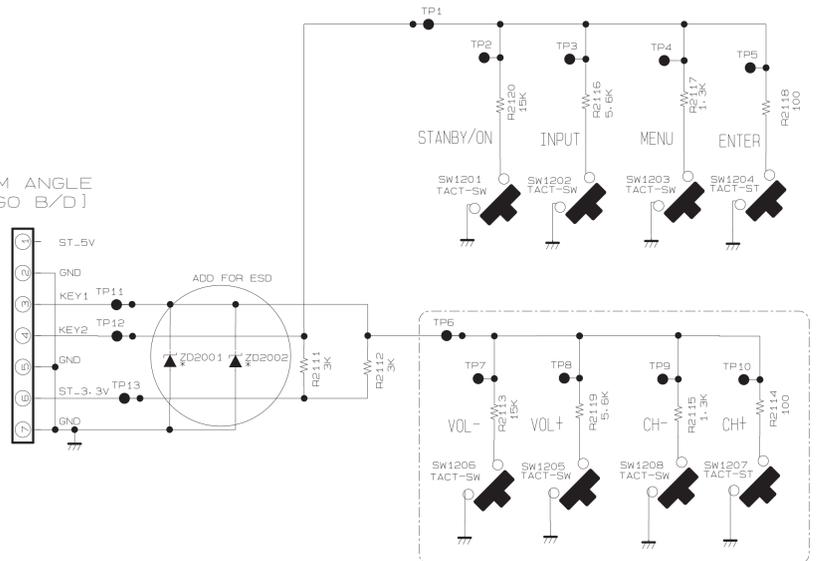


KEY BD  
FOR TORNADO

32.26 LX TOOL

MODIFY FOR LP

P1202  
7PIN 2.0MM ANGLE  
(TO IR-LOGO B/D)





P/NO : 38289S0043A

Nov., 2005  
Printed in Korea