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LCD TV

SERVICE MANUAL

CHASSIS : ML-051A

MODEL : 26LX2R-TE

CAUTION

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



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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.

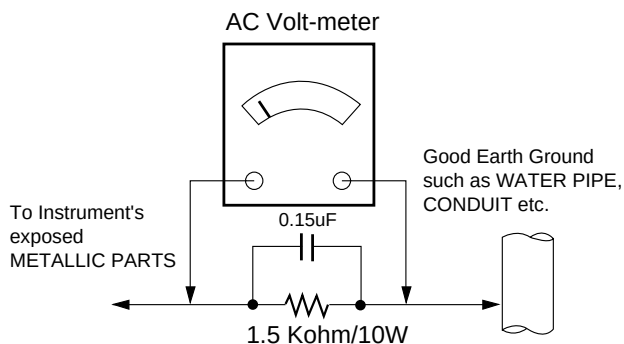
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

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' 5) NTSC M	(ZE/TE) EU/Non-EU (PAL Market)
		6) PAL-N/M 7) NTSC M	6),7) 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~ S41	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	600.53 mm (diagona)	26.005 inch
7.	Tuning System	FVS 100 program FS	PAL, 200 PR.(Option) NTSC
8.	Operating Environment	1) Temp : 0 ~ 40 deg 2) Humidity : 10~90 %	
9.	Storage Environment	3) Temp : -20 ~ 50 deg 4) Humidity : 10~90 %	
10.	Display	LCD Module	LPL(LC260W02)

4. General Specification

No	Item	Specification			Unit	Remark
1	Panel	26" 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	ON/ON	Active	≤ max 115W	W	Green
	Stand by	OFF/ON	OFF	≤ 3.0W	W	Red
	DPMS Mode	ON/OFF	OFF	≤ typ. 30W	W	Green
	Power off	-	-	-	W	*
6	LCD Module	Type Size	LPL	626.0x 373.0 x 44.1	mm	(H) x (V) x (D)
		Pixel Pitch	LPL	147.5x 421.5 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	18EEFL		

5.Optical Feature(LCD Module)

No.	Item	Specification				Remark
			Min	Typ	Max	
1	Viewing Angle (CR>10)	R/L, U/D		178, 178	178, 178	
2	Luminance	Luminance(cd/ m^2)		500		Typical
		Variation			1.3	MAX/MIN
3	Contrast Ratio		450/900	600/1200	500	ALL white/All back
4	CIE Color Coordinates (CIE 1931)	WHITE	W_X	Typ.	0.275	Typ. +0.03
			W_Y	Typ.	0.279	
		RED	R_X	Typ.	0.640	
			R_Y	Typ.	0.340	
		GREEN	G_X	Typ.	0.282	
			G_Y	Typ.	0.607	
		BLUE	B_X	Typ.	0.145	
			B_Y	Typ.	0.066	

6.Component Video Input (Y, P_B, P_R)

No	Specification				Proposed
	Resolution	H-freq(kHz)	V-freq(Hz)		
1.	640x480	15.73	60	SDTV, DVD 480i	ZE, TE, ME
2.	640x480	15.63	59.94	SDTV, DVD 480i	ZE, TE, ME
3.	704x480	31.47	59.94	EDTV 480p	TE, ME
4.	720x576	15.625	50.00	SDTV, DVD 625 Line	ZE, 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 50Hz (AU Ver.)	TE, ME
9.	1920x1080	33.75	60.00	HDTV 1080i 60Hz (ATSC)	TE, ME
10.	1920x1080	33.72	59.94	HDTV 1080i 59.94Hz	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	1920x1080	33.75	60.00	86.375	HDCP DVI Digital 1080i
10	1280x720	45.00	60.00	74.375	HDCP DVI Digital 720p

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 37.684	59.94 75.00	25.17 31.5	VESA VESA
3	800x600	37.879 46.875	60.31 75	40.00 49.5	VESA VESA
4	832x624	49.725	74.55	57.283	
5	1024x768	48.363 56.47 60.123	60.00 70.00 75.029	65.00 75.00 78.75	VESA(XGA) VESA(XGA) 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	1920x1080	33.75	60.00	86.375	HDCP DVI Digital 1080i
10	1280x720	45.00	60.00	74.375	HDCP DVI Digital 720p

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 Ω
2	Audio Input B (right)	0.5 Vrms	> 10 K Ω
3	Audio Output A (left)	0.5 Vrms	< 1 K Ω
4	Ground (audio)	-	-
5	Ground (blue)	-	-
6	Audio input A (left)	0.5 Vrms	> 10 K Ω
7	Blue input	0.7 V	75 Ω
8	Function Select (AV control)	High (9.5 - 12V) - AV Mode Mid (5 - 8V) - Wide Screen Low (0 - 2V) - TV Mode	> 10 K Ω
9	Ground (Green)	-	-
10	Comms Data 2		
11	Green input	0.7 V	75 Ω
12	Comms Data 1		
13	Ground (Red)	-	-
14	Ground (Blanking)	-	-
15	Red input	0.7 V	75 Ω
16	RGB Switching Control	High (1 - 3V) - RGB Low (0 - 0.4V) - Composite	75 Ω
17	Ground (Video input & Output)	-	-
18	Ground (RGB Switching Control)	-	-
19	Video output (Composite)	1V including sync	75 Ω
20	Video input (Composite)	1V including sync	75 Ω
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 Ω
2	Audio Input B (right)	0.5 Vrms	> 10 K Ω
3	Audio Output A (left)	0.5 Vrms	< 1 K Ω
4	Ground (audio)	-	-
5	Ground (blue)	-	-
6	Audio input A (left)	0.5 Vrms	> 10 K Ω
7	-	-	-
8	Function Select (AV control)	High (9.5 - 12V) - AV Mode Mid (5 - 8V) - Wide Screen Low (0 - 2V) - TV Mode	> 10 K Ω
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 Ω
20	Video input (Composite)	1V including sync	75 Ω
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 $25 \pm 5^{\circ}\text{C}$ temperature and $65 \pm 10\%$ 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	a	b				
10	c	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	FD	00	38
60	4B	1F	3D	09	00	0A	20	20	20	20	20	20	00	00	00	FC
70																e

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	a	b				
10	c	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																d
70	00	38	4B	1F	3D	09	00	0A	20	20	20	20	20	20	00	e

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	a	b				
10	c	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																d
70	00	38	4B	1F	3D	09	00	0A	20	20	20	20	20	20	01	e

	00	01	02	03	04	05	06	07	08	09	0A	0B	0C	0D	0E	0F
00	02	03	21	1C	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	00	00	00	00	00	00	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	1E

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
32LX2R	30041(A)	30041(A)	7559	5975
	30042(D)	30042(D)	755A	5A75
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
32LX2R-ZE	33324C5832522D5A45
32LP1R-ZE	33324C5031522D5A45
37LP1R-ZE	33374C5031522D5A45
42LP1R-ZE	34324C5031522D5A45

e. Checksum: ChangeCable by total EDID data

4. ADC Calibration

4.1 Adjustment of RF/AV/SAV

* Test Equipment

- Remote controller for adjustment
- MSPG-925F Pattern Generator->Model: 202 / Pattern: 32

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.
- 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

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 1 or 2)
- 2) Set the PSM to Standard mode in the Picture menu.
- 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

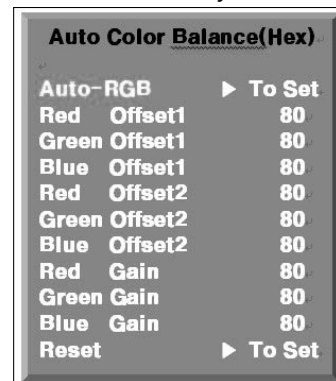
4.3.1 Method of Auto RGB Color Balance

- 1) Input the PC 1024x768@60Hz 1/2 Black & White Pattern(MSPG-925F model:37, 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.
- 4) Press the ►(Vol. +) key operate To set , then it becomes automatically.
- 5) Auto-RGB OK means adjustment is completed.

5. white Balance

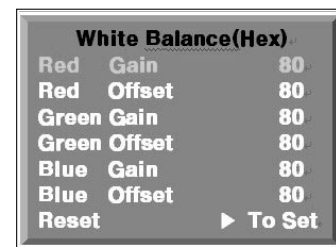
5.1 Manual white Balance (AV)

- 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



Auto Color Balance(Hex)		
Auto-RGB	► To Set	
Red Offset1		80
Green Offset1		80
Blue Offset1		80
Red Offset2		80
Green Offset2		80
Blue Offset2		80
Red Gain		80
Green Gain		80
Blue Gain		80
Reset	► To Set	

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



White Balance(Hex)		
Red Gain		80
Red Offset		80
Green Gain		80
Green Offset		80
Blue Gain		80
Blue Offset		80
Reset	► To Set	

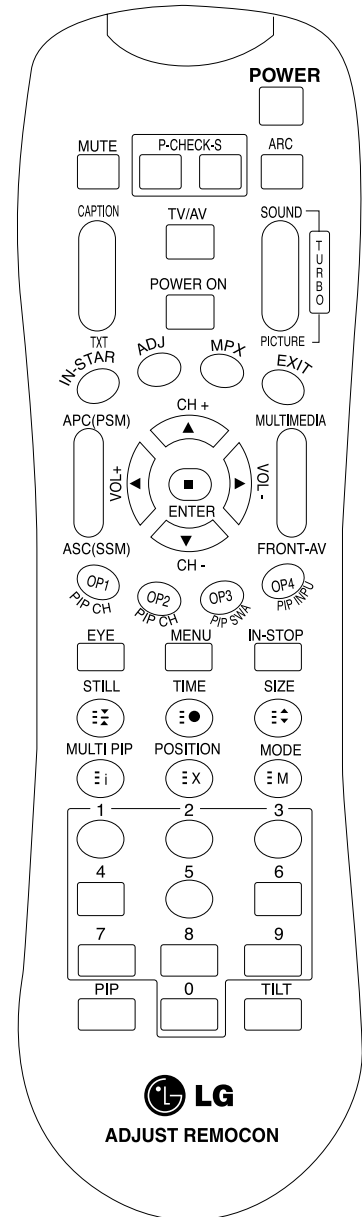
- 5) Adjust High light with R/B Gain/Offset(G Gain fix, G Offset fix)

6. Shipping Conditions

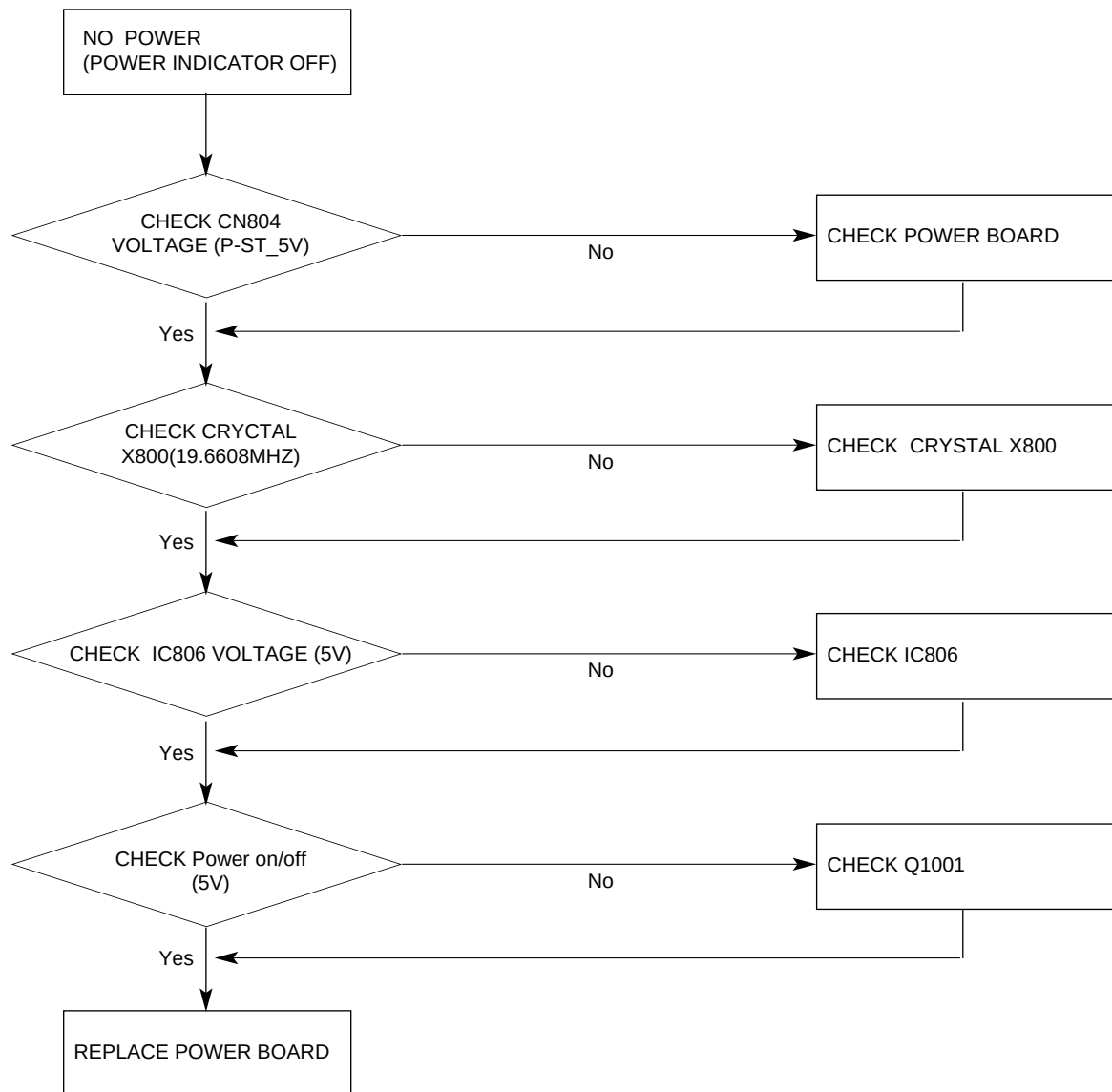
No	Item			Condition	Remark
1	Power			Off	
2	Volume Level			30	
3	Main Picture Input			TV	
4	Main Last Channel			Pr 01	
5	Mute			Off	
6	ARC			16 : 9	
7	Station	Auto Program			
		Manual Program			
		Program Edit			
		Favorite Program		None	
8	Picture	PSM		Dynamic	
		Dynamic	Contrast	100	
			Brightness	45	
			Colour	50	
			Sharpness	50	
9	Sound	SSM		Flat	
		AVL		Off	
		Balance		0	
10	Special	Input		TV	
		Child Lock		Off	
		Auto sleep		Off	
		Language		English(Area Management)	
11	PC	H-Position		Variable by each mode	
		V-Position			
		Clock			
		Phase			
		Auto Configure			

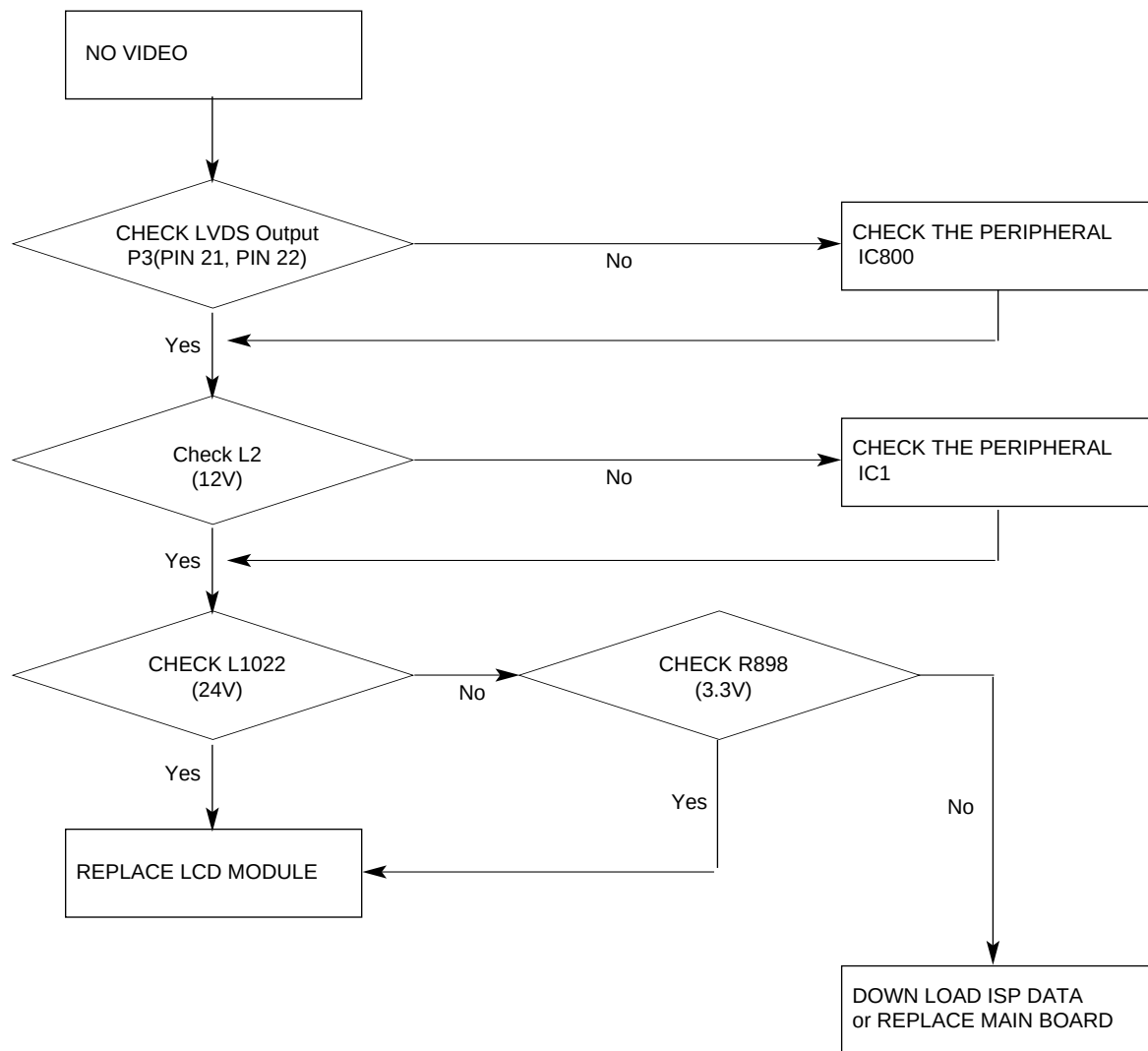
SVC REMOCON

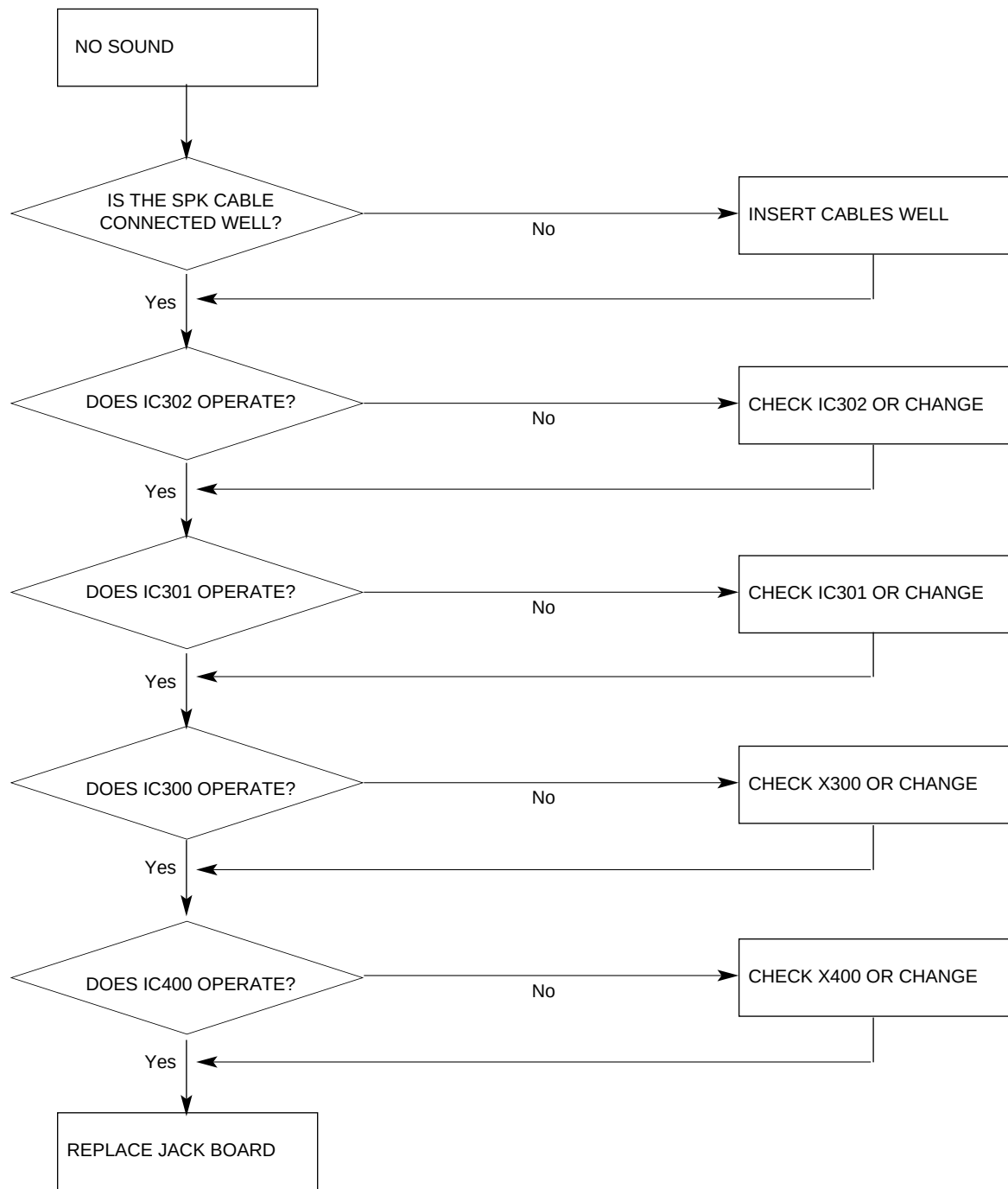
NO	KEY	FUNTION	REMARK
1	POWER	To turn the TV on or off	
2	POWER ON	To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.	
3	MUTE	To activate the mute function.	
4	P-CHECK	To check TV screen image easily.	Shortcut 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.	Use the AV key to enter the screen W/B adjustment mode.
		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)	
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.	



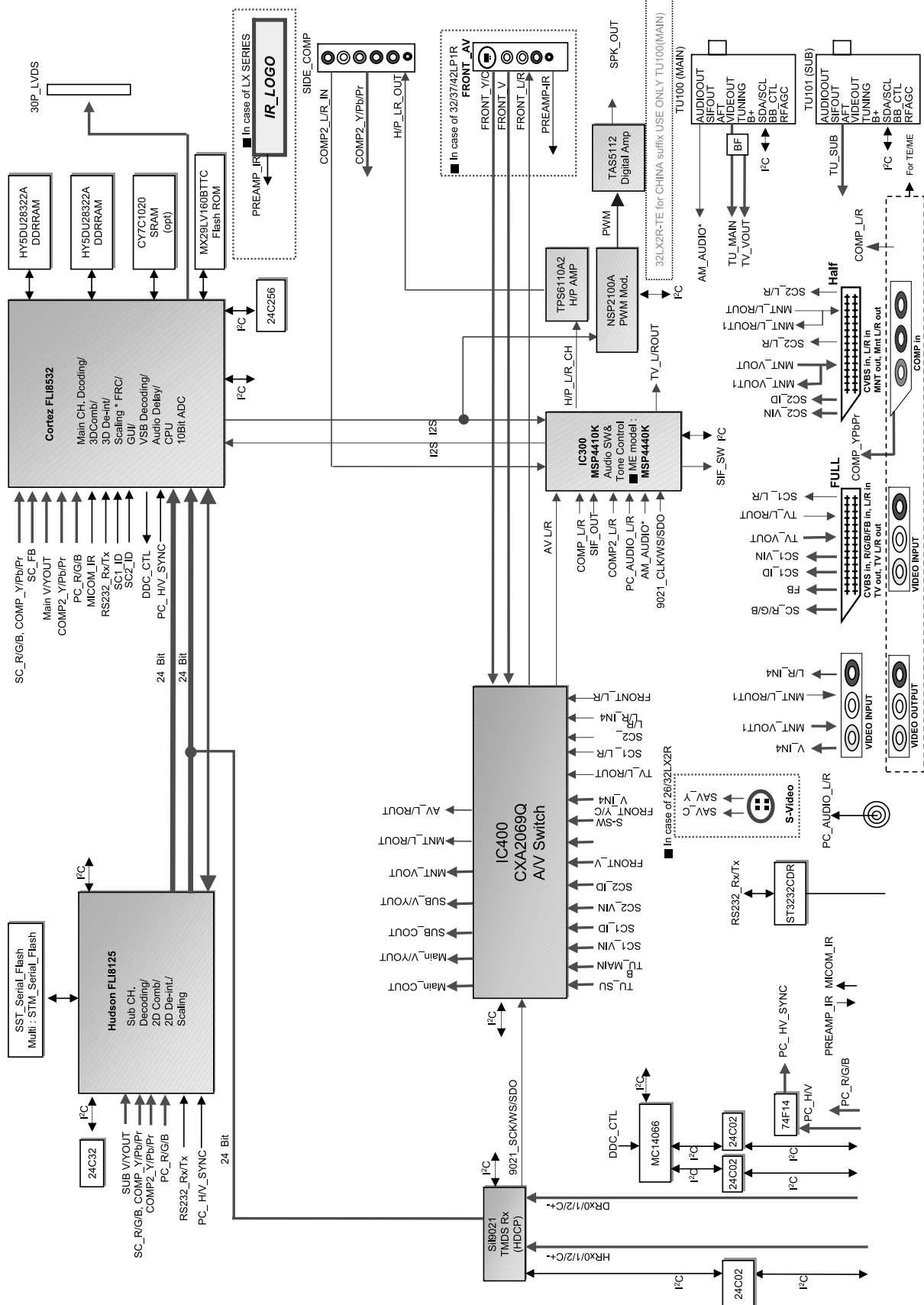
TROUBLESHOOTING



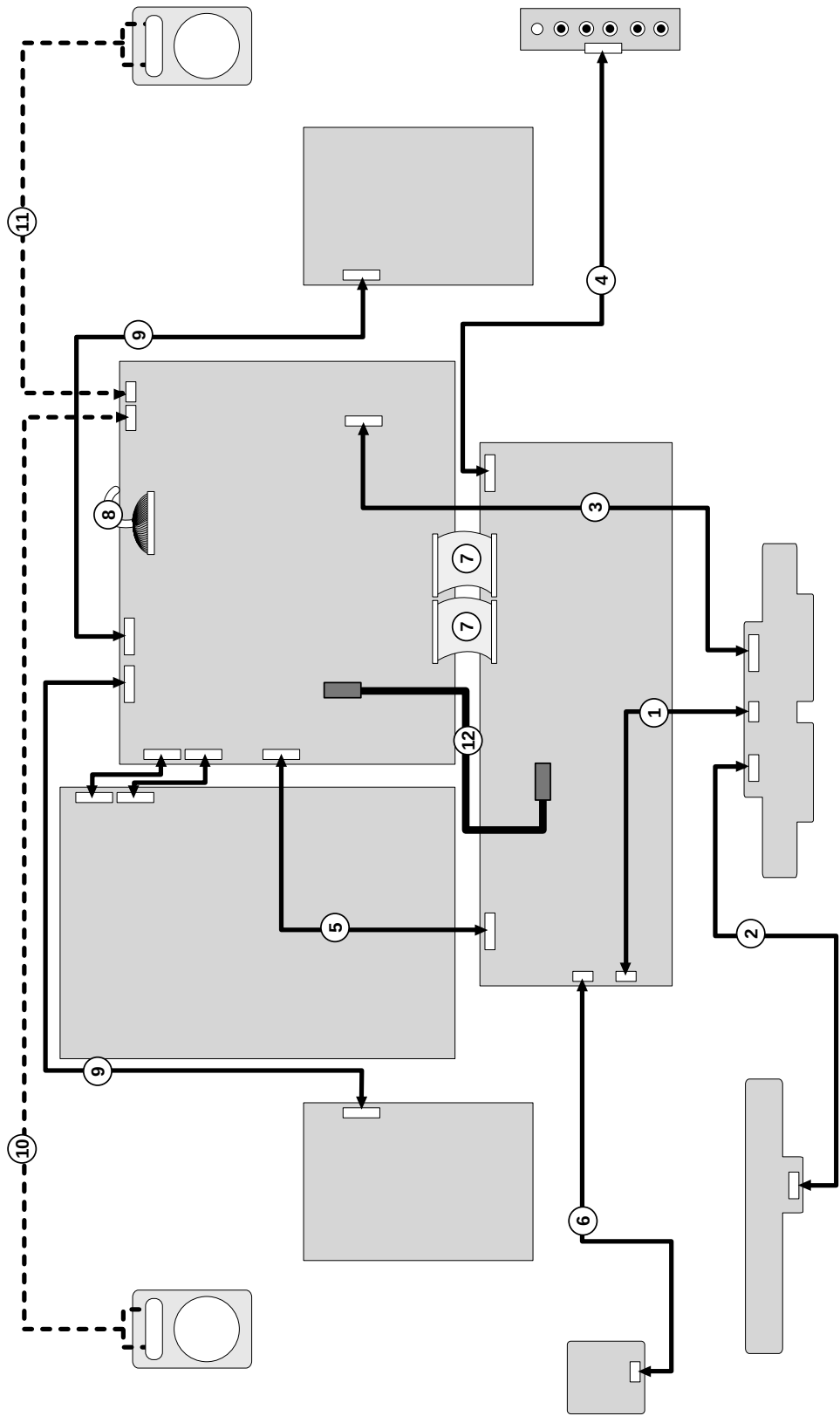




BLOCK DIAGRAM

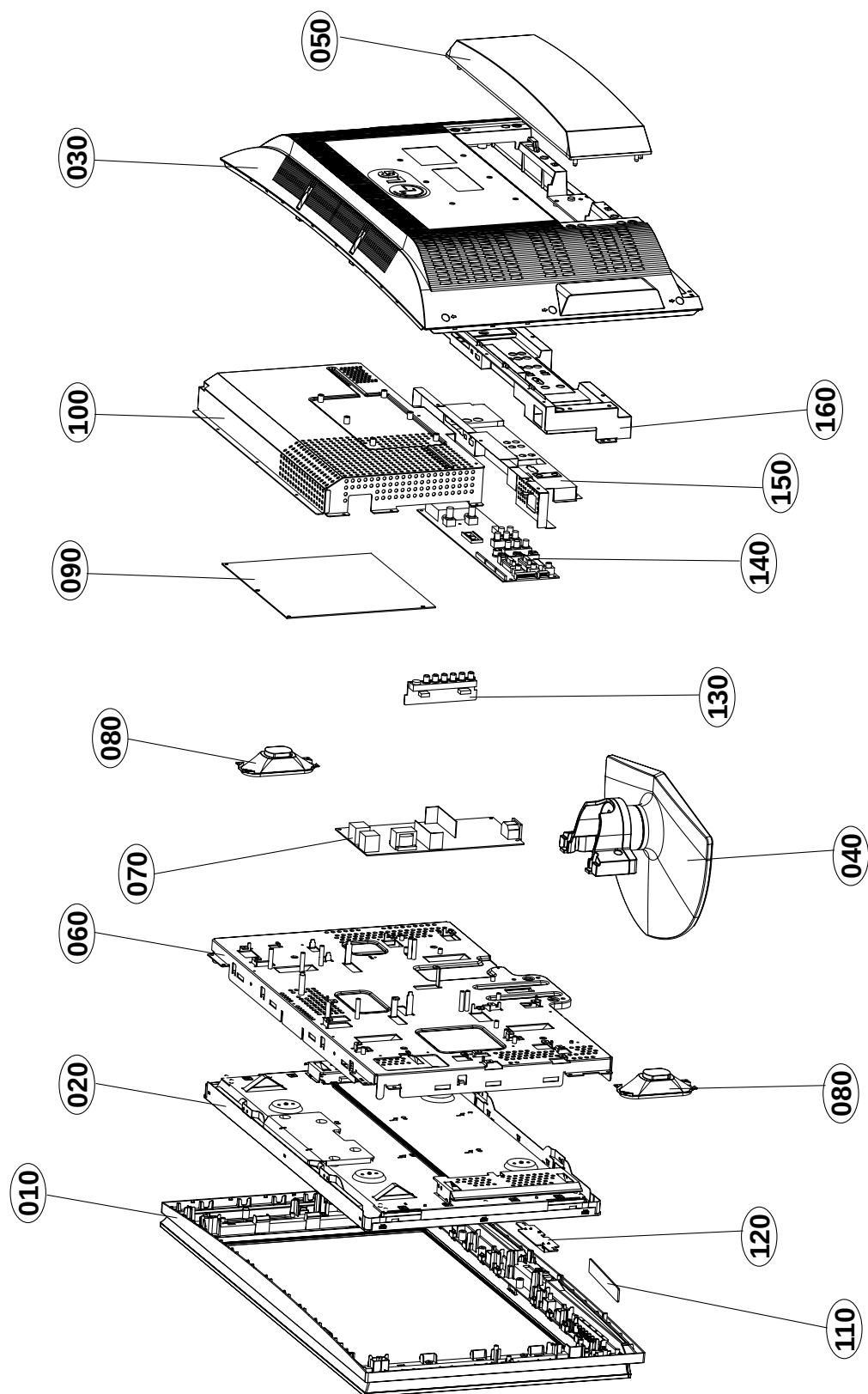


WIRING DIAGRAM



NO.	PART NO.	NO.	PART NO.	NO.	PART NO.
1	6631T20033D	5	6631T25023G	9	6631T20032H
2	6631T20037N	6	6631T25024Z	10	6631T25026C
3	6631T20037X	7	6631V10004A	11	6631T25026A
4	6631T20034V	8	6631T11020Z	12	6631T11023D

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
010	3091TKE039A	CABINET ASSEMBLY, 26LX2R BRAND 3090TKE024 26LX2D
	3091TKE039D	CABINET ASSEMBLY, 26LX2R-ZE BRAND TORNADO C/SKD
020	6304FLP190A	LCD(LIQUID CRYSTAL DISPLAY), LC260WX2-SL03 LG PHILPS TFT COLOR IPS WIDE(16-9)
030	3809TKE029N	BACK COVER ASSEMBLY, 26LX2R-TE NON NO SPRAY
	3809TKE029P	BACK COVER ASSEMBLY, 26LX2R-TE NON NO SPRAY, C/SKD
040	3043TKK248A	TILT SWIVEL ASSEMBLY, 26LX2D STAND ASSY
	3043TKK248E	TILT SWIVEL ASSEMBLY, 26LX2R-ZE STAND ASSY NT LOCAL
	3043TKK248D	TILT SWIVEL ASSEMBLY, 26LX2R-ZE STAND ASSY C/SKD
050	3550TKK875B	COVER, 26LX2D REAR A/V NO SPRAY
060	4951TKS211B	METAL ASSEMBLY, FRAME MAIN ASSY, 26LX2R-ZE
	4951TKS211D	METAL ASSEMBLY, FRAME MAIN ASSY, 26LX2R-ZE C/SKD
070	6871TPT316B	PWB(PCB) ASSEMBLY,POWER, 26LX2R-ZE POWER TOTAL BRAND TORNADO 26-32
080	6400GESF01A	SPEAKER,FULLRANGE, C112A02K1450 ESTEC FULL-RANGE(GENERAL) 8OHM 10/15W .DB 110 32LG10
090	3313TL2047B	MAIN TOTAL ASSEMBLY, 26LX2R-TE BRAND ML-051A
100	4950TKA191A	METAL, REAR SHIELD, DU-26LG10
110	6871TSTA53B	PWB(PCB) ASSEMBLY,SUB, SUB T.T ML051A 26LX2R-ZE CONTROL KEY
120	6871TSTA52A	PWB(PCB) ASSEMBLY,SUB, 26LX2R-ZE ETC TOTAL BRAND IR & LOGO
130	6871TSTA80A	PWB(PCB) ASSEMBLY,SUB, 26LX2R-ZE(TORNADO) SUB TOTAL BRAND SIDE
140	6871TSTA21B	PWB(PCB) ASSEMBLY,SUB, 26LX2R-TE SUB TOTAL BRAND JACK BD
150	4951TKK258C	METAL ASSEMBLY, SHIELD 26LX2R-TE
	4951TKK258F	METAL ASSEMBLY, SHIELD 26LX2R-TE C/SKD
160	3551TKK572J	COVER ASSEMBLY, 26LX2R-TE REAR ML-051A A/V ASSY NO SPRAY

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. 09. 04.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
CAPACITOR				
		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
		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
		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

DATE: 2005. 09. 04.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		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
		C1205	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1209	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1210	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1211	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1212	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1213	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1215	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1216	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1217	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1218	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1219	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1220	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1221	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1222	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1223	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1224	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1225	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1226	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1227	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1228	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1229	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1232	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1233	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1234	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1235	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1236	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1237	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1238	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1239	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1240	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1241	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1242	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1243	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1244	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1245	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1246	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1247	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1248	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1249	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1250	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1251	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1252	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1253	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1254	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1255	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1256	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1257	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1258	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1259	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1260	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1261	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1262	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1263	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1267	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1269	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1270	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1271	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1272	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1274	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1276	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1277	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1278	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1279	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1280	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1281	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1282	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1284	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1286	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1287	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1288	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1289	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1290	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1291	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1292	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1293	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1294	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1295	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1301	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1303	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1308	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1310	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1315	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1316	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1317	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1318	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1319	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1320	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1321	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1322	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1323	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1324	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1325	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1326	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1327	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1328	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1329	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C907	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C908	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C909	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C910	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C911	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C912	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C913	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C914	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C915	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C916	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C917	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C918	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C919	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C920	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C921	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C922	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C923	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C924	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C925	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C926	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C927	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C928	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C929	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C931	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C932	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C933	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C934	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C935	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C936	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C937	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C938	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C939	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C940	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C941	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C942	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C950	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C951	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1001	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1003	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1005	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1006	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1036	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1038	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1039	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1100	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1101	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1167	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1169	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1306	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C201	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C314	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C339	OCK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C346	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C373	OCK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C435	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C444	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C603	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C704	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C705	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C709	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C710	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C711	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C714	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C715	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C717	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C723	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C724	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C725	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C803	OCK105DH56A	1UF 2012 25V 10% X7R R/TP
		C815	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C818	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C820	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C823	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C825	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C826	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C827	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C828	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C829	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C830	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		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% NP0 -
		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% NP0 -
		C701	0CH6220K416	22PF 2012 50V 5% NP0 -
		C727	0CH6221K416	220PF 2012 50V 5% NP0 -
		C816	0CH6151K416	150PF 2012 50V 5% NP0 -
		C821	0CH6220K416	22PF 2012 50V 5% NP0 -
		C822	0CH6220K416	22PF 2012 50V 5% NP0 -
		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% NP0 2012 R/TP
		C313	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C441	0CC821DK41A	820PF 2012 50V 5% NP0 R/TP
		C651	0CH6180K416	18PF 2012 50V 5% NP0 R/TP
		C652	0CH6180K416	18PF 2012 50V 5% NP0 R/TP
		C352	0CE108CJ618	"1000UF SHL,SD 35V 20% FL TP"
		C374	0CE108CJ618	"1000UF SHL,SD 35V 20% FL TP"
		C1002	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1004	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1007	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1009	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1012	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1013	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1018	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1019	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1023	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1025	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1030	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1035	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1037	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1040	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1042	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1045	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1048	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1049	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1054	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1055	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1060	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1061	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1064	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1069	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1070	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1073	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1075	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1078	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1085	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1090	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1091	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1096	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1097	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1110	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1112	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1114	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1117	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1128	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1129	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1130	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1131	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1132	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1134	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1136	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1140	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1142	0CE107WK6DC	100UF MVK 50V 20% R/TP(SMD)
		C1144	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1148	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1151	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1152	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1157	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1158	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1161	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1168	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1174	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1178	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1189	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1190	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1191	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1193	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1195	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1197	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1200	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1202	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1204	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1206	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1207	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1208	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1214	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1230	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1231	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1264	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1265	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1266	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1268	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1273	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1275	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1283	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1285	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1296	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1297	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		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	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		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)

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		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
DIODEs				
		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
IC				
		IC900	0IZZTSA121B	"MX29LV160BTTT-70G,LF MACRON"
		IC301	0ILNR00015A	"NSP-2100A,LF NEOFIDELITY TQ"
		IC701	0IMMRSG036D	"M24C32-WMN6T(P),LF SGS-THOM"
		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
		IC600	0IPRPS5006A	SIL9021CTU(PB FREE) SILICON
		IC1003	0IPMGSG018D	LD1086DT18TR-LF SGS-THOMSON
		IC1004	0IPRPM001A	MIC39100 MICREL 3P SOT223 R
		IC1006	0IPMGSG018D	LD1086DT18TR-LF SGS-THOMSON
		IC1009	0IPMGSG018D	LD1086DT18TR-LF SGS-THOMSON
		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
		IC1001	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1002	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1005	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1007	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1010	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC1011	0IRH033200A	BA033FP-E2 MOLD-3 TP REGULA
		IC802	0ISA721700C	LA7217M MFP14 TP SYNC SEPAR
		IC401	0IPH741400E	74HC14D 14SOP TP SHITTER TR
COIL & CORE & INDUCTOR				
		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
		L1109	6210TCE001L	HB-1T2012-102JT CERATECH 20
		AB601	6210TCE002B	HB-4M3216-121JT CERATECH 32

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		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
		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

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		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
TRANSISTOR				
		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
RESISTORS				
		R627	0RH1004D422	1M OHM 1 / 10 W 1% D R/TP
		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	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00%
		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%

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		R397	ORH0101D622	1.0 1/10W 5 TA
		R456	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R457	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R458	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		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
		R866	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%
		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
		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%
		R1818	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1820	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R1821	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R302	ORH2702D622	27K OHM 1 / 10 W 2012 5.00%

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		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%
		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

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		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%
		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%
OTHERs				
		LED3	0DL233309AC	SAM2333 TP KWANG GREEN/RED
		X401	166-E02F	CSBLA500KECZF09-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
CONTROL BOARD				
		SW1201	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1202	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1203	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1204	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1205	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1206	140-313B	TACT 2LEAD 160G(TA) LG C&D
		SW1207	140-313B	TACT 2LEAD 160G(TA) LG C&D

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		SW1208	140-313B	TACT 2LEAD 160G(TA) LG C&D
		R2111	ORH3001D622	3K OHM 1 / 10 W 2012 5.00%
		R2112	ORH3001D622	3K OHM 1 / 10 W 2012 5.00%
		R2113	ORH1502D622	15K OHM 1 / 10 W 2012 5.00%
		R2114	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R2115	ORH1301D622	1.3K OHM 1 / 10 W 2012 5.00
		R2116	ORH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R2117	ORH1301D622	1.3K OHM 1 / 10 W 2012 5.00
		R2118	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R2119	ORH5601D622	5.6K OHM 1 / 10 W 2012 5.00
		R2120	ORH1502D622	15K OHM 1 / 10 W 2012 5.00%
JACK BOARD				
		C1001	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1102	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1103	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1104	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
		C118	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C120	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C122	0CK273DK51A	27000PF 2012 50V 10% B(Y5P)
		C123	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	0CK225DFK4A	"2.2UF 2012 16V 20%, -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
		C247	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C248	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 -
		C314	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C316	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C319	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		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)
		C396	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		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
		C409	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C410	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

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		C412	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C415	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C427	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C429	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C430	OCK474DH56A	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
		C661	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C662	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C663	0CH6120K416	12PF 2012 50V 5% NP0 -
		C664	0CH6120K416	12PF 2012 50V 5% NP0 -
		C666	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C669	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		D100	ODS226009AA	KDS226 TP KEC - 80V -- 4NS
		D101	ODS226009AA	KDS226 TP KEC - 80V -- 4NS
		D601	ODD184009AA	KDS184 TP KEC - 85V --- 3
		D602	ODD184009AA	KDS184 TP KEC - 85V --- 3
		D603	ODS226009AA	KDS226 TP KEC - 80V -- 4NS
		D604	ODS226009AA	KDS226 TP KEC - 80V -- 4NS
		D605	ODD184009AA	KDS184 TP KEC - 85V --- 3
		L1001	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1002	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L101	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1023	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1024	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L103	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
		L219	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		L299	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L300	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L301	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L302	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L400	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L401	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L606	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		Q105	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q107	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q108	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q109	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 -
		Q405	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q406	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q601	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q607	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R1002	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1003	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1011	0RH1003D622	100K OHM 1 / 10 W 2012 5.00

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R110	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R111	0RH0222D622	22 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%
		R1201	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R1202	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1204	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1205	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R121	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1219	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		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%
		R127	0RH2000D622	200 OHM 1 / 10 W 5% D R/TP
		R128	0RH1500D622	150 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
		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	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R219	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R221	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		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%
		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%
		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
		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

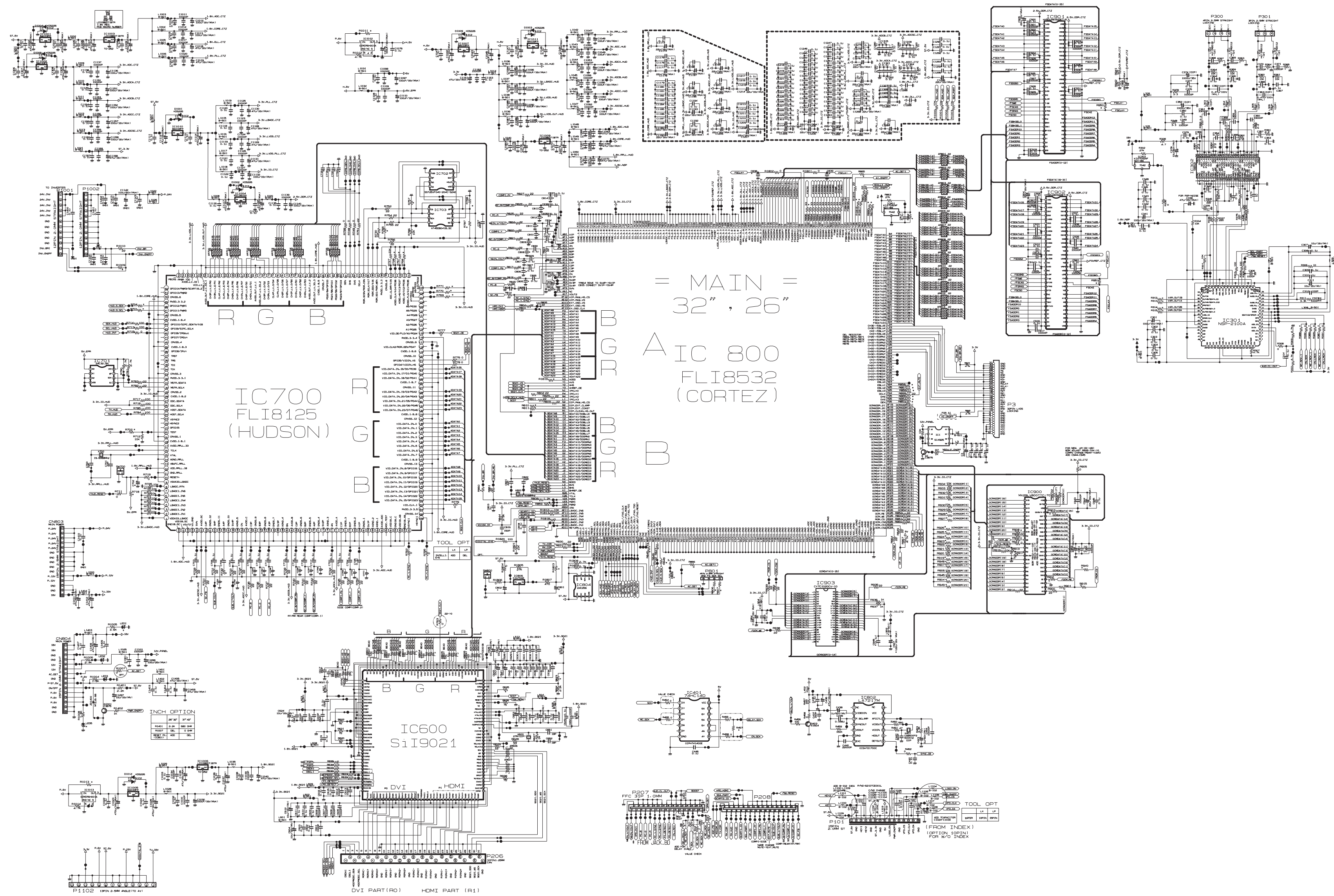
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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R283	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R284	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R285	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R286	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R288	0RH1200D622	120 OHM 1 / 10 W 2012 5.00%
		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%
		R304	0RH4701D622	4.7K 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%
		R317	0RH4701D622	4.7K 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%
		R326	0RH1002D622	10K 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%
		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
		R373	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R380	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		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%
		R411	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R412	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R423	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R425	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R426	0RH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R427	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
		R447	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R448	0RH1003D622	100K 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%
		R643	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R644	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		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%
		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%
		R664	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R665	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R666	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R667	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R668	0RH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R669	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%
		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%

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R684	0RH1000D622	100 OHM 1 / 10 W 2012 5.00%
		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%
		ZD213	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD214	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD215	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD300	0DZKE00048A	KDZ8.2V USC KEC R/TP NON
		ZD603	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD606	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD607	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD608	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD609	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		TU100	6700MF0012C	TAFM-W103P LGIT MULTI FS PH
		ZD1401	0DZ330009DF	MTZJ33B TP ROHM-K DO34 0.5W
		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)
		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)
		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)
		C1172	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C121	0CE476WF6DC	47UF MVK 16V 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)
		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)
		C233	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C236	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		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
		C245	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C246	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)
		C309	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C311	0CH3223K516	22000PF 2012 50V 10% B(Y5P)
		C312	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C313	0CH3223K516	22000PF 2012 50V 10% B(Y5P)
		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)
		C375	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C381	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C382	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C383	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C384	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C386	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C387	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C388	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C389	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C390	OCH3103K516	10000PF 50V 10% B(Y5P) 2012
		C400	OCE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C404	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C406	OCE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C408	OCH3103K516	10000PF 50V 10% B(Y5P) 2012
		C411	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C416	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C417	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C419	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C420	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C422	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C423	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C424	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C425	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C426	OCK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C434	OCE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C657	OCE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C665	OCE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		D1003	ODS226009AA	KDS226 TP KEC - 80V - - 4NS
		IC1000	OIMCRFA010A	"KA7809R, FAIRCHILD 2P D-PAK"
		IC1001	OIMCRSH001A	"PQ05DZ1U SHARP 5, SMD TYPE"
		IC201	OIMCRSG010A	ST3232CDR SGS-THOMSON SOP16
		IC300	OIMCRMN028B	MSP4410K MICRONAS 80P/PQFP
		IC304	OIPRPTI034B	"TPA6110A2DGNRG4,LF TEXAS IN"
		IC400	OISO206900A	CXA2069Q QFP64 BK I2C BUS A
		IC601	ODRSE00018B	"SRV05-4.TCT, SEMTECH R/TP S"
		IC602	ODRSE00018B	"SRV05-4.TCT, SEMTECH R/TP S"
		IC603	ODRSE00018B	"SRV05-4.TCT, SEMTECH R/TP S"
		IC604	ODRSE00018B	"SRV05-4.TCT, SEMTECH R/TP S"
		IC605	OICS240213A	CAT24W(F)C02J-TE13 8P SOP
		IC606	OICS240213A	CAT24W(F)C02J-TE13 8P SOP
		IC607	OISTL00031A	"MC74HC4066ADR2G,LF ON SEMI"
		IC608	OISTLFA058A	"74F14SCX FAIRCHILD 14P,SOIC"
		IC609	OICS240213A	CAT24W(F)C02J-TE13 8P SOP
		JK1	6612B00015B	"DC1R019WDH JAE 0.5MM,19PIN+"
		L102	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L218	0LC1032101A	10UH 10% 3216 R/TC FI-C3216
		P203	6630VE00731	10022HS-31A02 YEONHO 31P 1.
		P204	6630VE00731	10022HS-31A02 YEONHO 31P 1.
		P205	6602T12007D	GT121-31P-TD LGC 31P 1.25MM
		Q110	OTR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q111	OTR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q400	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q401	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q402	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q602	OTR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q603	OTR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q604	OTR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q606	OTR830009BA	BSS83 TP PHILIPS NON N-CHAN
		R1218	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1300	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1301	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1302	ORH2002D622	20K OHM 1 / 10 W 2012 5.00%
		R1303	ORH2002D622	20K OHM 1 / 10 W 2012 5.00%
		R271	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R272	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R273	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R274	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R275	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R276	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R298	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R299	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R303	ORH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R305	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R310	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R311	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%

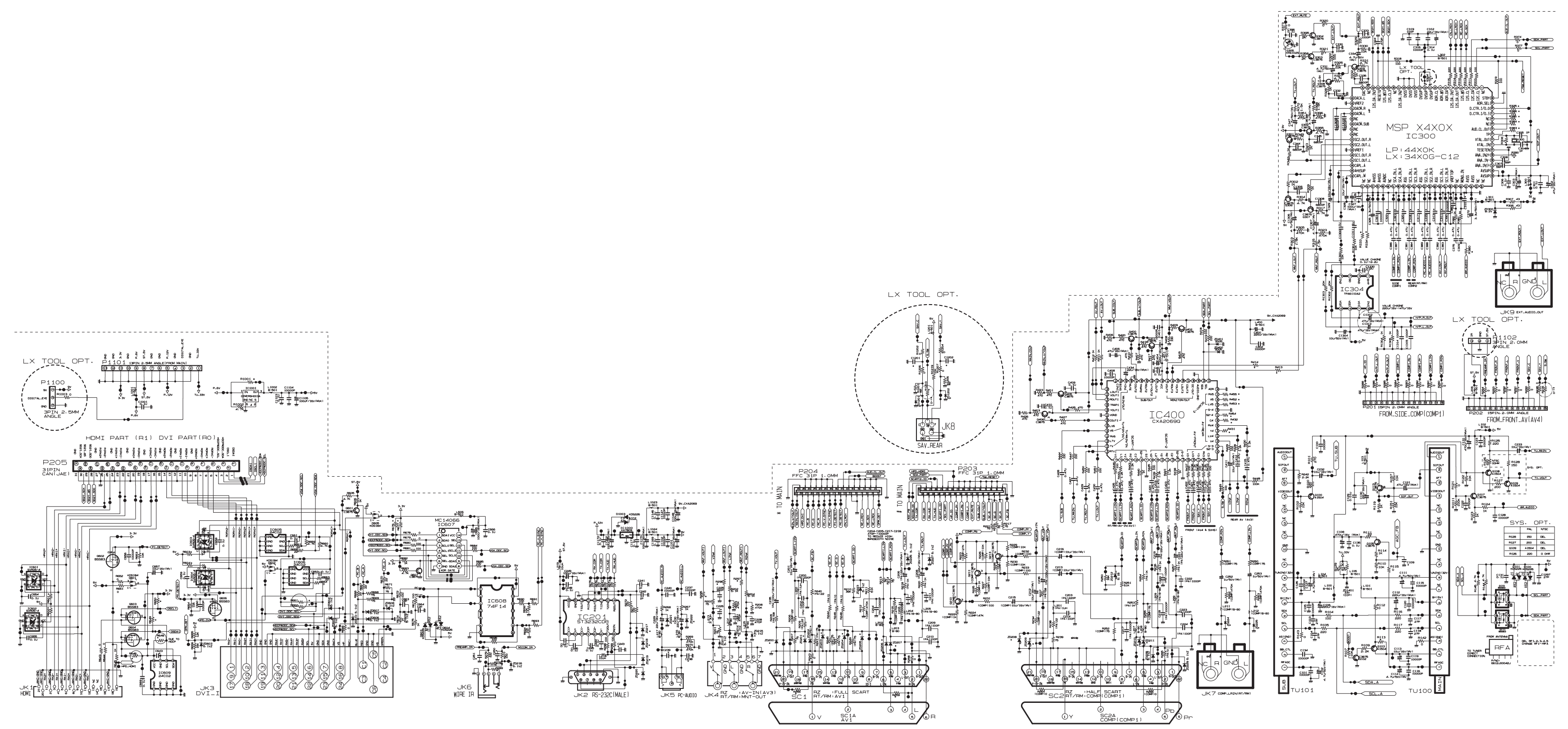
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		R312	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R313	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R314	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R315	ORH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R316	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R318	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R319	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R323	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R327	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R328	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R331	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R374	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R377	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R381	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R382	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R406	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R407	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R408	ORH3300D622	330 OHM 1 / 10 W 2012 5.00%
		R409	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R410	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R415	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R416	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R417	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R418	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R419	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R420	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R429	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R433	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R435	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R437	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R438	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R439	ORH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R440	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R441	ORH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R442	ORH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R443	ORH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R445	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R446	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R449	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R645	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R678	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R679	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R680	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R681	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R682	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R683	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		X300	6202VDT002H	SX-1 SUNNY 18.432000MHZ +/-
		ZD216	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD400	0DR050008AA	SD05.TC R/TP SEMTECH SOD323
		ZD401	0DR050008AA	SD05.TC R/TP SEMTECH SOD323
		ZD604	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD605	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
IR&LOGO BOARD				
		C3102	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C3103	OCH3103K516	10000PF 50V 10% B(Y5P) 2012
		C3104	OCH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		L3101	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L3102	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		Q3101	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3102	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3103	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3104	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3105	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3106	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3107	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3215	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3216	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3217	OTR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R3101	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3102	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3103	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3104	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00

DATE: 2005. 09. 04.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R3105	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3106	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3107	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3108	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3109	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3110	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3111	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3112	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3113	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3114	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3115	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3116	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3117	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3118	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3119	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3120	0RH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R3121	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3123	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3124	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3125	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3126	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3127	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3128	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3129	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3130	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3132	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3134	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3135	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3137	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3138	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3139	0RH5600D622	560 OHM 1 / 10 W 2012 5.00%
		R3140	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R3141	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R3145	0RH5600D622	560 OHM 1 / 10 W 2012 5.00%
		LED3232	0DL200000CA	SAM5670(DL-2LRG) BK Y-GREEN
		C3101	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C3106	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		LED801	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-H
		LED802	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-H
		LED803	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-H
		LED804	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-H
		LED805	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-H
		LED806	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-H
		LED807	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-H
SIDE BOARD				
		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%
		ZD3105	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD3106	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD3107	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323



= INITIAL (32") =
JACK_BD
MP DATA (8-1DR)

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

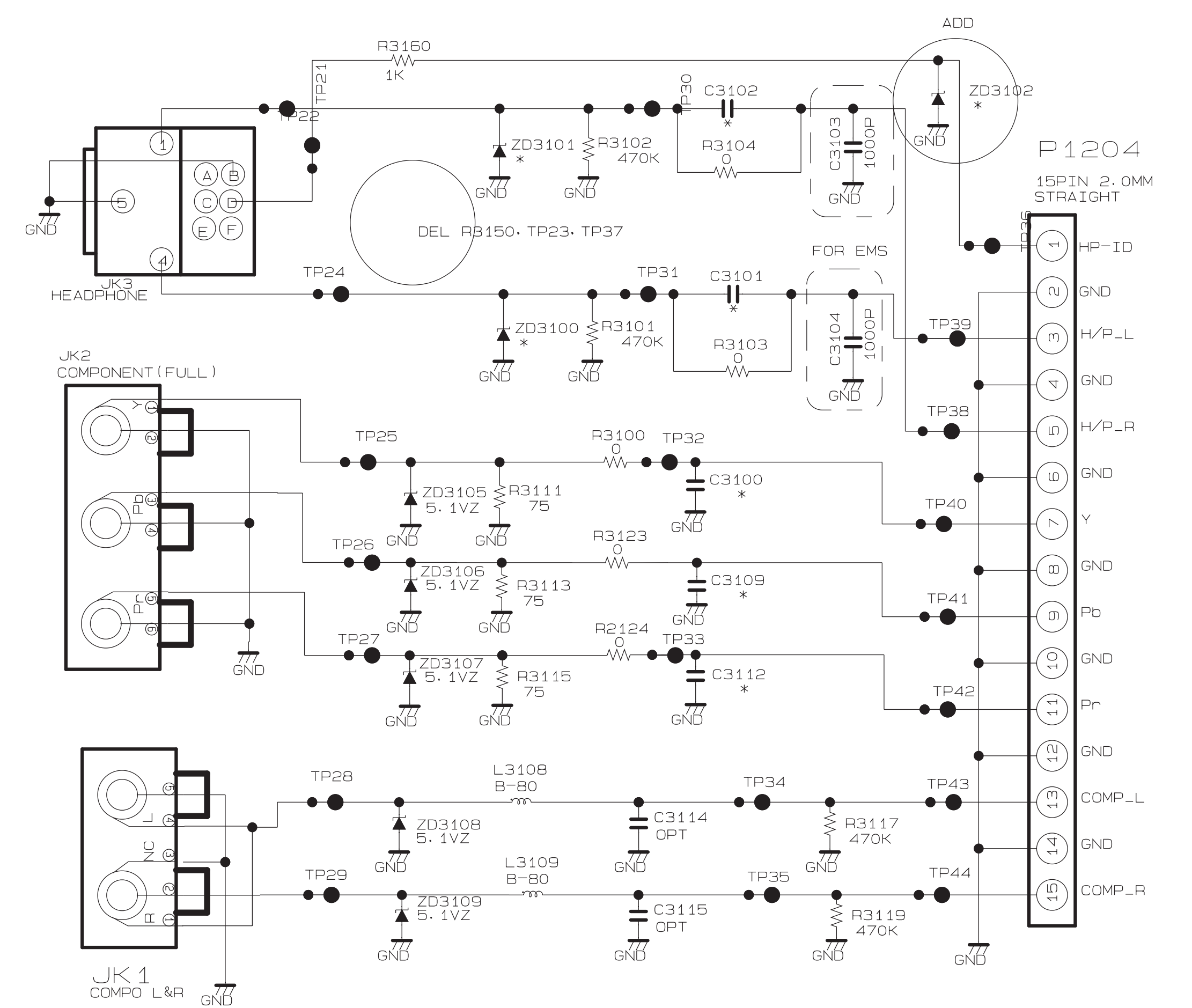
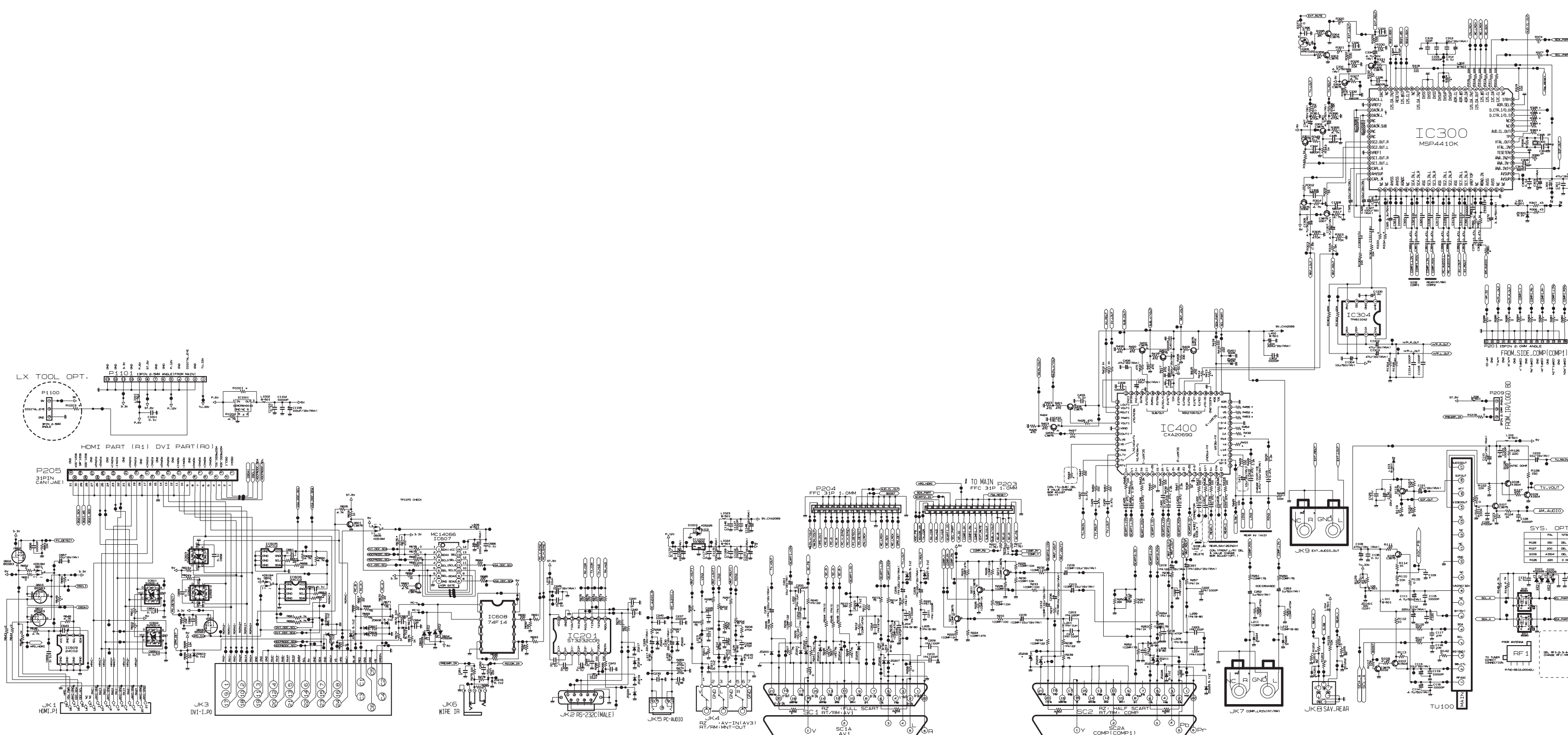


= JACK_BD =
26" ONLY
LP & MP PCB DATA

SIDE_COMP

TORNADO
INITIAL-32
LX TOOL ALSO
USE THIS CIRCUIT

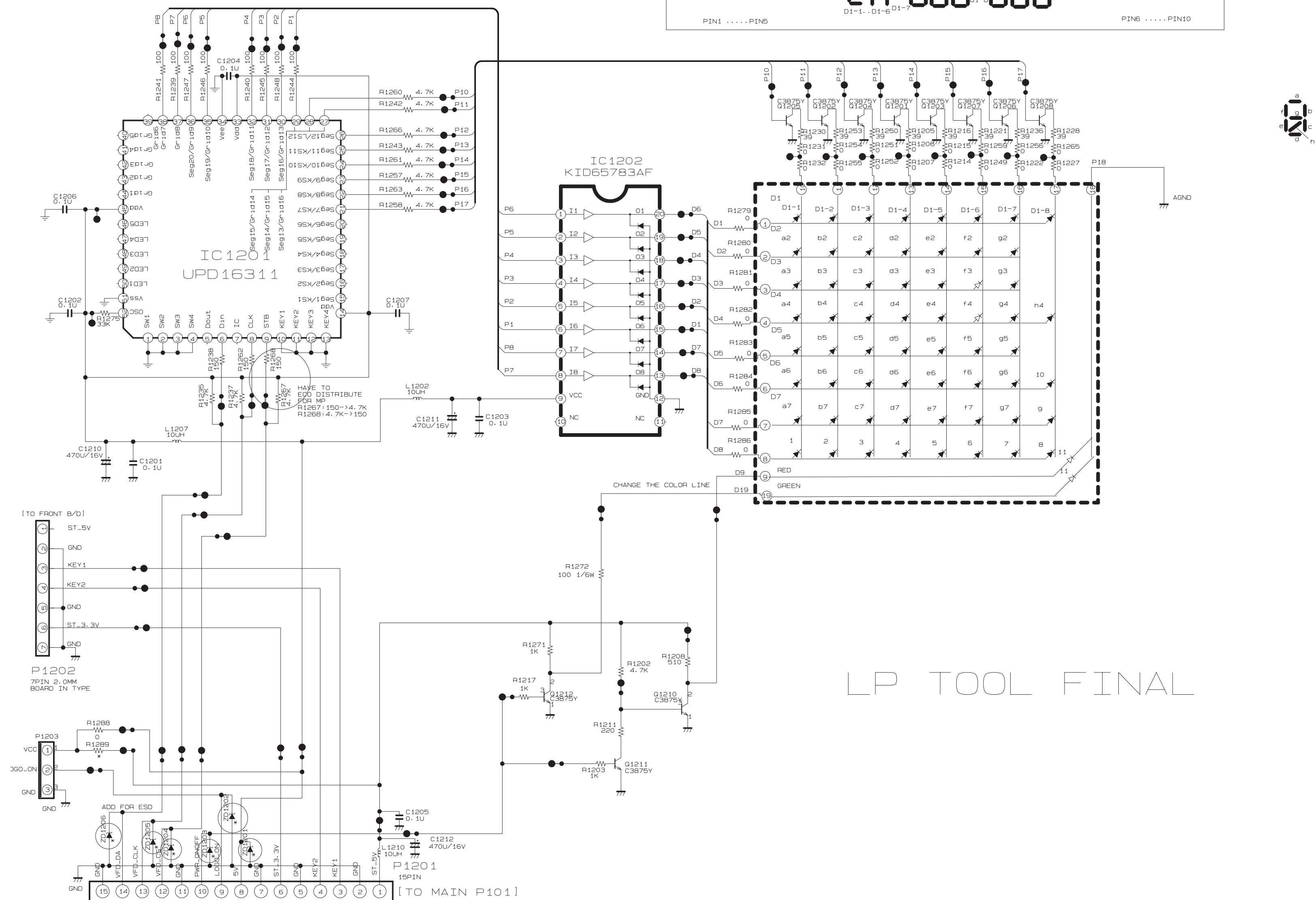
LP TOOL FINAL



INDEX

TORNADO 1ML-051A1
35LP1R-ZE

LED ASSY





P/NO : 38289S0004X

Sep., 2005
Printed in Korea