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LCD TV

SERVICE MANUAL

CHASSIS : ML-051B

MODEL : RZ/RT-37LZ55

CAUTION

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



CONTENTS

CONTENTS	2
PRODUCT SAFETY	3
SPECIFICATION	6
ADJUSTMENT INSTRUCTION.....	11
TROUBLE SHOOTING	15
BLOCK DIAGRAM.....	18
WIRING DIAGRAM	19
EXPLODED VIEW	20
REPLACEMENT PARTS LIST	23
SVC. SHEET	

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.

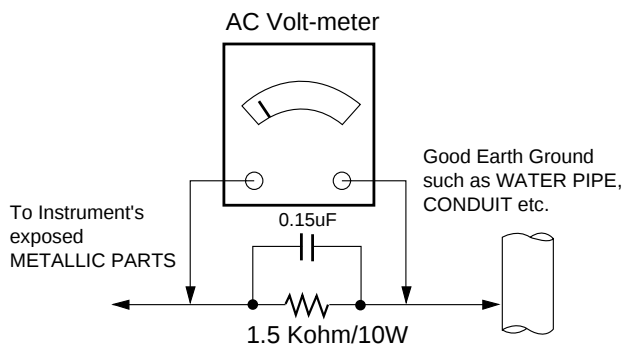
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

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.General Specification(TV)

No	Item	Specification	Remark
1.	Video input applicable system	PAL-D/K, B/G, I, NTSC-M, SECAM NTSC 4.43	
2.	Receivable Broadcasting System	1) PAL/SECAM BG 2) PAL/SECAM DK 3) PAL I/I 4) SECAM L/L'	(ZE/TE) EU/Non-EU (PAL Market) 4) Only RZ
		5) PAL-N/M 6) NTSC M	6),7) South America Market 7) Except South America NTSC Market (RM)
3.	RF Input Channel	VHF : E2 ~ E12 UHF : E21 ~ E69 CATV : S1 ~ S20 HYPER : S21~ S47	PAL
		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	940.3mm	37.02 inch
7.	Tuning System	FVS 100 program	PAL, 200 PR.(Option)
		FS	NTSC
8.	Operating Environment	1) Temp : 0 ~ 40 deg 2) Humidity : 10~90 %	
9.	Storage Environment	3) Temp : -20 ~ 50 deg 4) Humidity : 10~90 %	
10.	Display	LCD Module	LPL

2. General Specification

No	Item	Specification			Unit	Remark
1	Panel	37" 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				Middle east / NTSC Area
	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 180W	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	877.0 x 516.8 x 55.5	mm	(H) x (V) x (D)
		Pixel Pitch	LPL	0.200 x 0.600 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	16CCFL		

3.Optical Feature(LCD Module)

No.	Item	Specification				Remark		
				Min	Typ	Max		
1	Viewing Angle<CR ≥10>	R/L, U/D			176, 176			
2	Luminance	Luminance(cd/㎡)			500			
		Variation				1.3	Typical	
3	Contrast Ratio	CR		400	600		MAX/MIN	
		CR _D (With AI)		800	1200		ALL white/All back	
4	CIE Color Coordinates	WHITE	W _x	Typ.	Typ. -0.03	0.285	Typ. +0.03	LPL
			W _y	Typ.		0.293		
		RED	R	Typ.		0.640		
			R _y	Typ.		0.341		
		GREEN	G _x	Typ.		0.287		
			G _y	Typ.		0.610		
		BLUE	B _x	Typ.		0.146		
			B _y	Typ.		0.069		

4.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	
2.	640x480	15.63	59.94	SDTV, DVD 480i	
3.	704x480	31.47	59.94	EDTV 480p	
4.	720x576	15.625	50.00	SDTV, DVD 625 Line	
5.	720x576	31.25	50.00	HDTV 576p	
6.	1280x720	45.00	60.00	HDTV 720p	
7.	1280x720	44.96	59.94	HDTV 720p	
8.	1920x1080	31.25	50.00	HDTV 1080i 50Hz (AU Ver.)	
9.	1920x1080	33.75	60.00	HDTV 1080i 60Hz (ATSC)	
10.	1920x1080	33.72	59.94	HDTV 1080i 59.94Hz	

5. 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

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)	-	-

No,	Item		Content			Remark
1	Product Dimenson		Width(W)	Length(D)	Height(H)	
		Before Packing	1061	675	269	With Stand
		After Packing	1160	800	348	
2	Product Weight	Only SET	28.9Kg			With Stand
		With Box	33.8kg			

ADJUSTMENT INSTRUCTION

1. Application Range

This spec. sheet is applied to all of the ML-051B 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

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)

3.1.2 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	01	46	27	78	EA	D9	B0	A3	57	49	9C	25	
20	11	49	4B	A5	6E	80	31	40	01	01	01	01	45	40	01	01
30	61	40	01	01	01	01	1B	21	50	A0	51	00	1E	30	48	88
40	35	00	BC	88	21	00	00	1C	4E	1F	00	80	51	00	1E	30
50	40	80	37	00	BC	88	21	00	00	18	00	00	00	FD	00	38
60	4B	1F	3D	09	00	0A	20	20	20	20	20	20	00	00	00	FC
70	d										0A	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	52
60	d										0A	20	20	20	00	FD
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	D1	46	85	04	02	01	03	00	23	09	07	07	23
10	09	07	07	23	09	07	07	83	01	00	00	65	03	0C	00	10
20	00	01	1D	00	80	51	D0	1C	20	40	80	35	00	BC	88	21
30	00	00	1E	8C	0A	D0	8A	20	E0	2D	10	10	3E	96	00	13
40	8E	21	00	00	18	2A	12	00	10	41	43	17	20	28	60	35
50	00	00	00	32	00	00	1C	01	1D	80	18	71	1C	16	20	58
60	2C	25	00	C4	8E	21	00	00	00	9E	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	DB

=> Detail EDID Options are below(a, b, c, d, e)

a. Product ID

Model name	Product ID	Product ID		
		Dec	Hex	EDID Table
RZ-37LZ55	30045(A)	30045(A)	755D	5D75
	30046(A)	30046(D)	755E	5E75
RT-37LZ55	30051(A)	30051(A)	7563	6375
	30052(D)	30052(D)	7564	6475
RM-37LZ55	30053(A)	30053(A)	7565	6575
	30054(D)	30054(D)	7566	6675

b. Serial No : Controlled on production line

c. Month, Year : Controlled on production line

d. Model Name(Hex) :

Model Name	Model Name(HEX)
RZ-37LZ55	525A2D33374C5A3535
RT-37LZ55	52542D33374C5A3535
RM-37LZ55	524D2D33374C5A3535

e. Checksum: ChangeSable 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 (RZ), AV1(RT), VIDEO1(RM)
- 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. (RZ : component , RT/RM : 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@75Hz 1/2 Black & White Pattern(MSPG-925F model:39, pattern:18) into RGB. (using D-sub to DVI-I cable)
- 2) Set the PSM to Standard mode in Picture menu.
- 3) Press the ADJ key on R/C for adjustment.
- 4) Press the ►(Vol. +) key operate To set , then it becomes automatically.
- 5) Auto-RGB OK means adjustment is completed.

=> Before White-Balance, the AV ADC should be done.

(RZ : AV, RT : AV1, RM : VIDEO1)

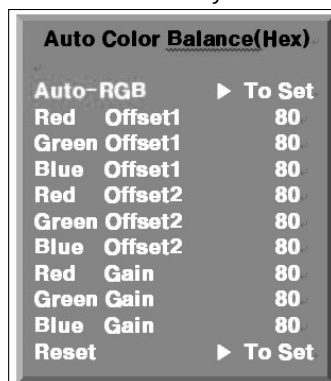
Notice : Before White-Balance, change input mode

- Move to AV3(RZ) or AV(RT) or VIDEO(RM) by using Remote controller.

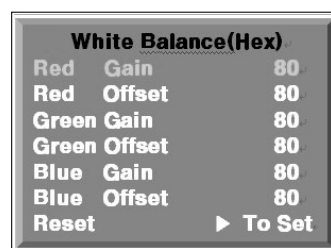
5. white Balance

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



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



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

5.2 Auto White Balance(AV)

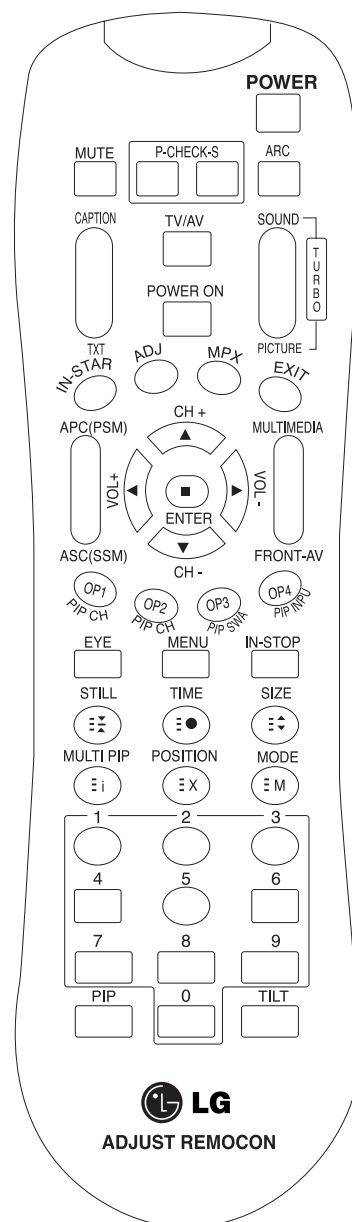
	Command1	Command2	Set ID	Data		Default Value			
				26	32	37	42		
		Min	Max						
Input Select	XB	B	00	00h	90h				
R-Gain	J	A	00	00h	E0h	CE	D6	B8	D0
G-Gain	J	B	00	00h	E0h	BD	BD	B1	BD
B-Gain	J	C	00	00h	E0h	B1	C5	BA	B4
R-Offset	J	D	00	00h	90h	81	81	80	80
G-Offset	J	E	00	00h	90h	80	80	80	80
B-Offset	J	F	00	00h	90h	7F	7F	7F	7E

6. Shipping Conditions

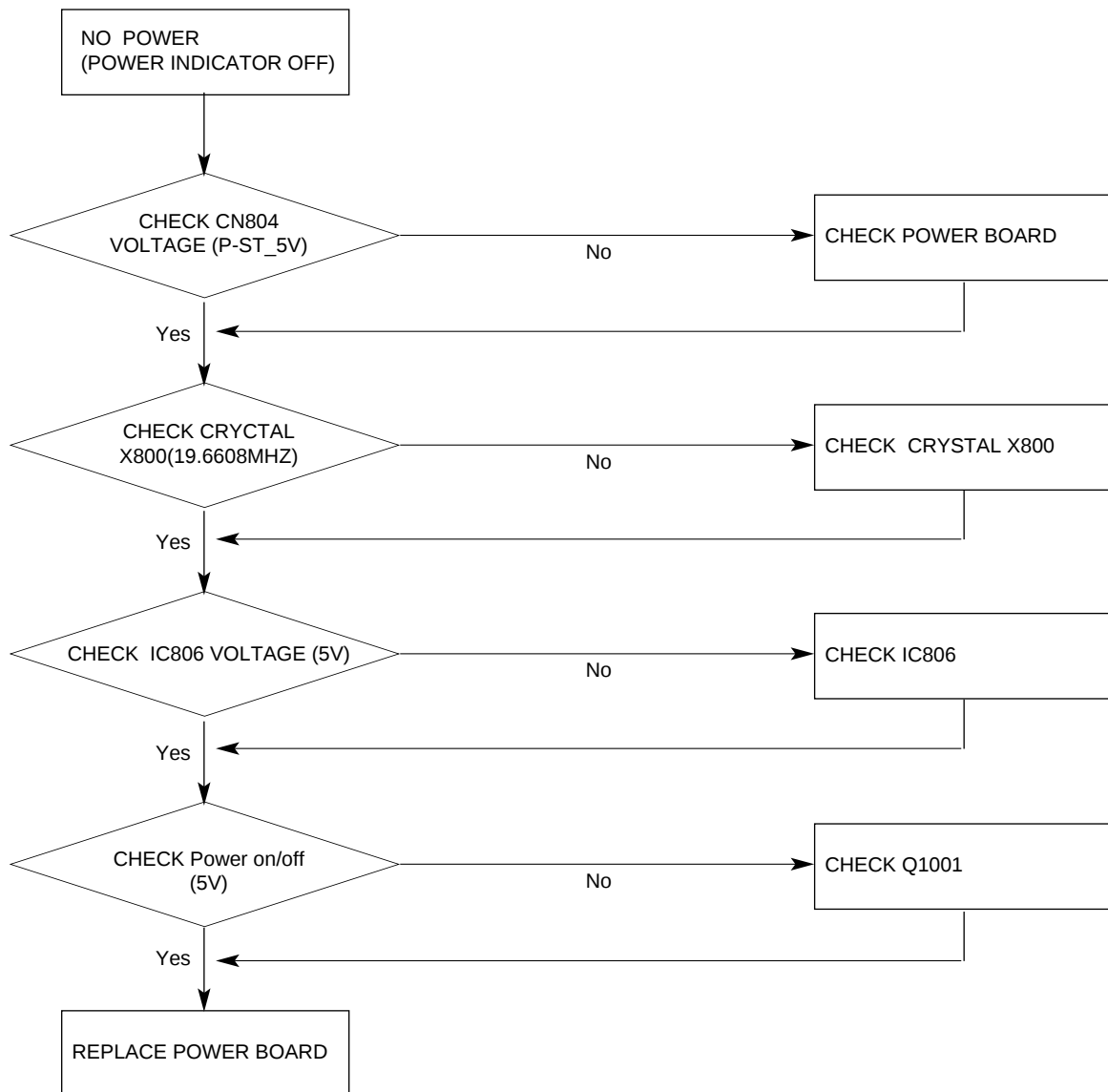
No	Item			Condition	Remark
1	Power			Off	
2	Volume Level			30	
3	Main Picture Input			TV	
4	Main Last Channel			Pr 01	
5	Mute			Off	
6	ARC			16 : 9	
7	Station	Auto Program			
		Manual Program			
		Program Edit			
		Favorite Program		None	
8	Picture	PSM		Dynamic	
		Dynamic	Contrast	100	
			Brightness	45	
			Colour	50	
			Sharpness	50	
		CSM		Normal(Cool)	RZ(RT)
		XD		On	
		ACM		Fleshtone : 1	
				Greentone : 1	
				Bluetone : 1	
9	Sound	SSM		Flat	
		SRS WOW		Off	
		AVL		Off	
		Balance		0	
		Treble		50	
		Bass		50	
		TV Speaker		On	
10	Time	Clock		-- : --	User control
		Off time		Off	
		On time		Off	
		Auto sleep		Off	
11	Special	Input		TV	
		Language		English	Area Management
		Child Lock		Off	
		Set ID		1	
		XD Demo		To Start	
12	Screen	Auto config		Variable by each mode	
		Manual config			
		XGA Mode			
		ARC			
		Zoom +/-			
		Position			
		Cinema			
		NR			
		Reset			

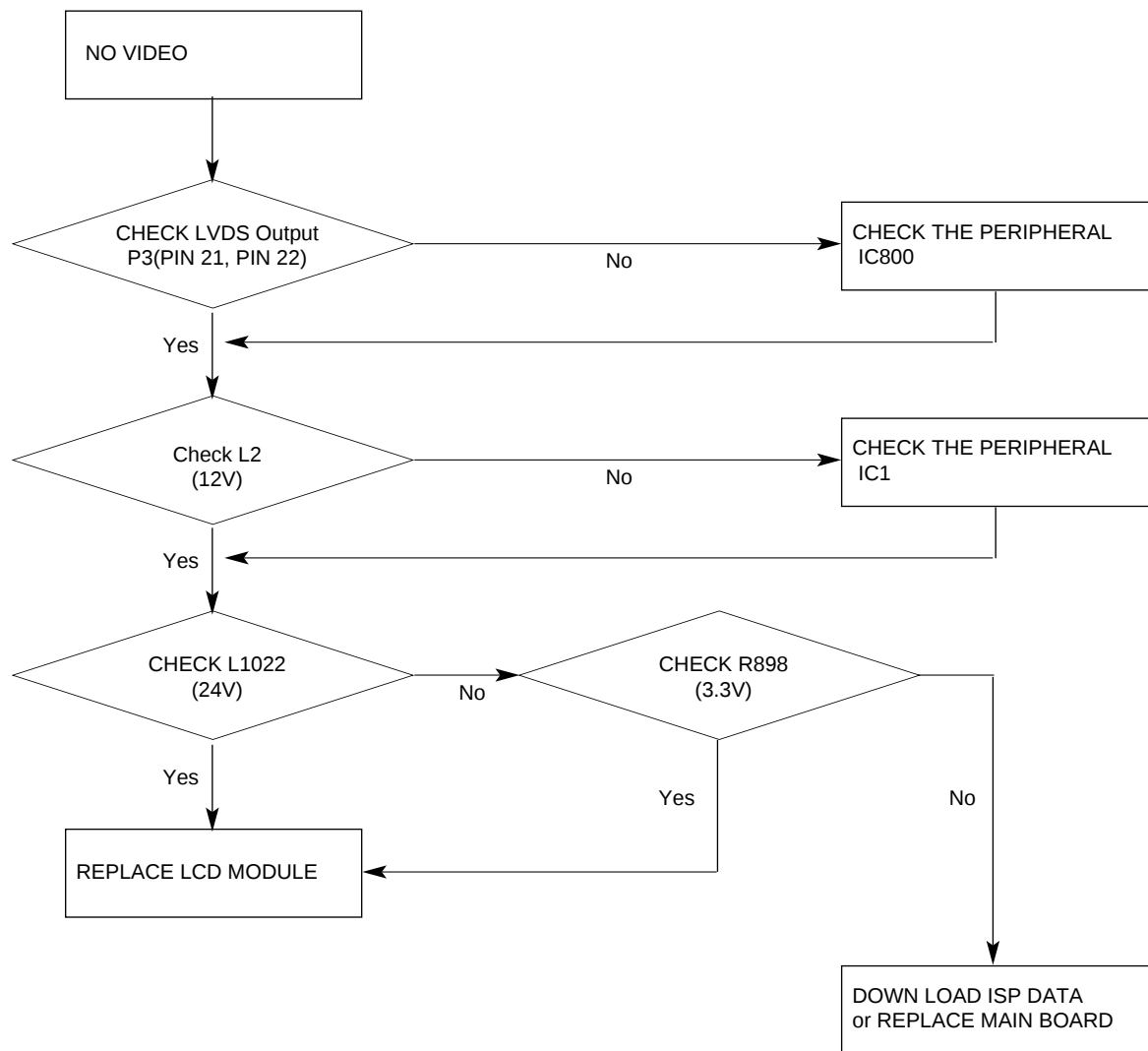
SVC REMOCON

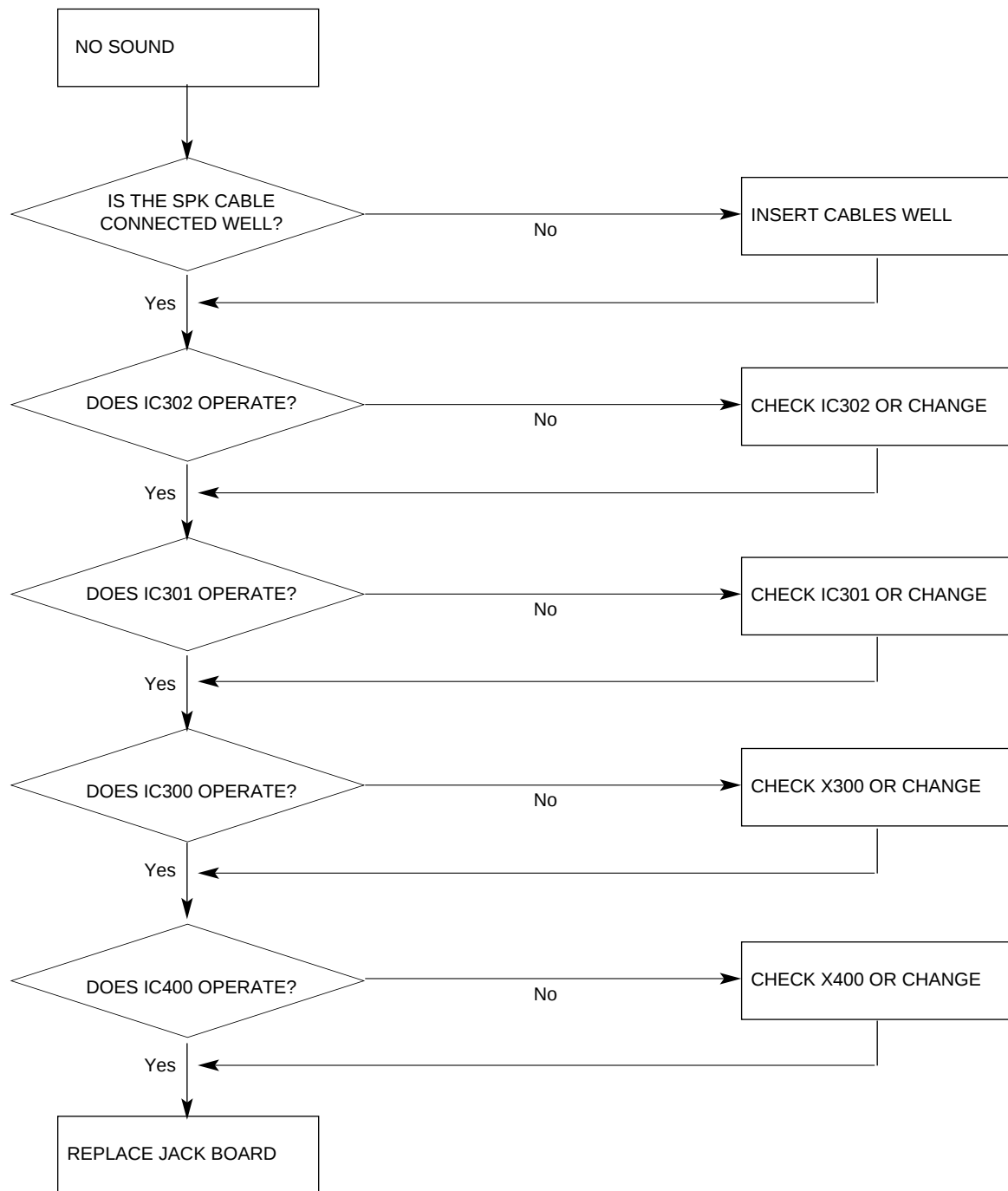
NO	KEY	FUNTION	REMARK
1	POWER	To turn the TV on or off	
2	POWER ON	To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.	
3	MUTE	To activate the mute function.	
4	P-CHECK	To check TV screen image easily.	Shortcut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



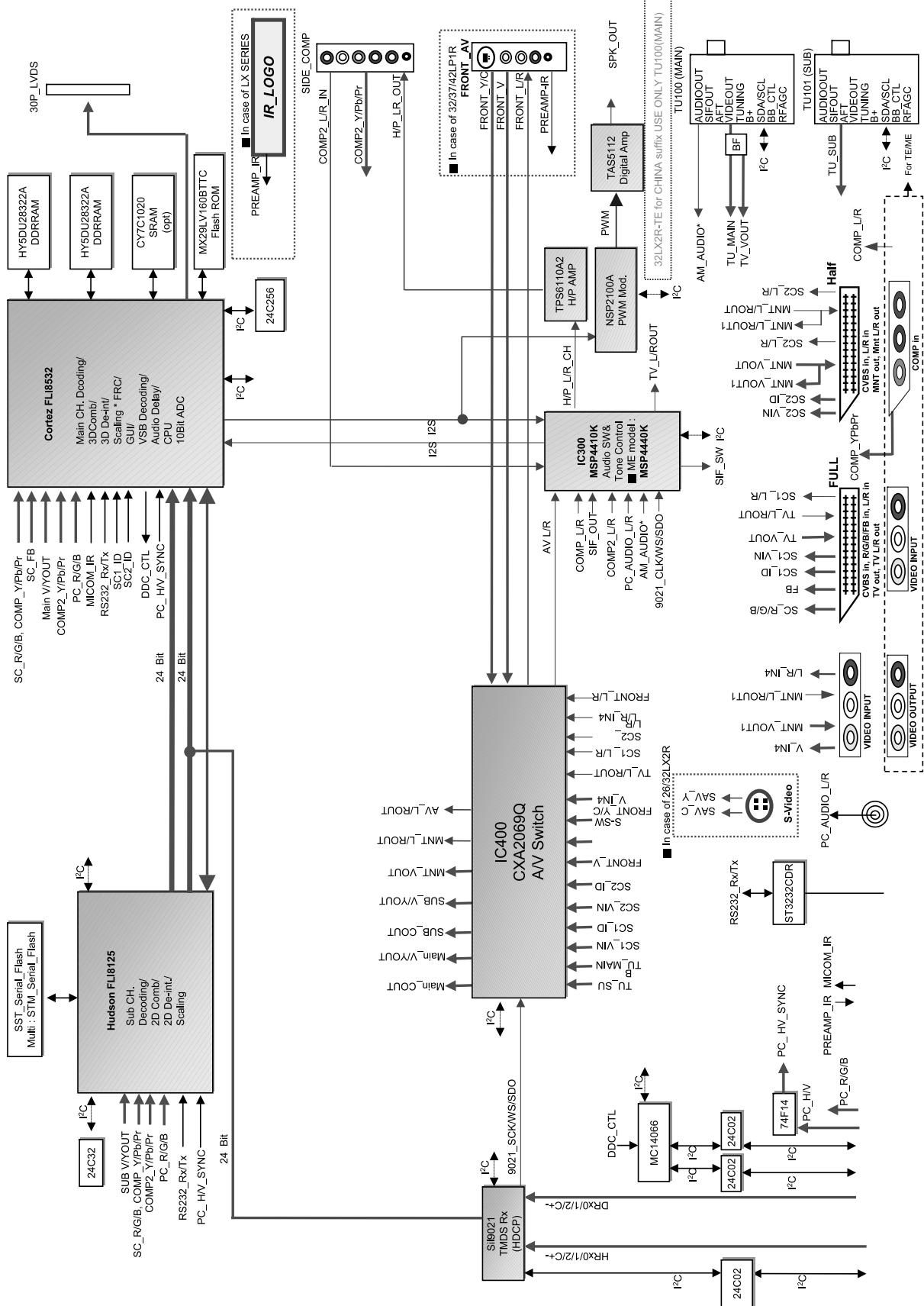
TROUBLESHOOTING



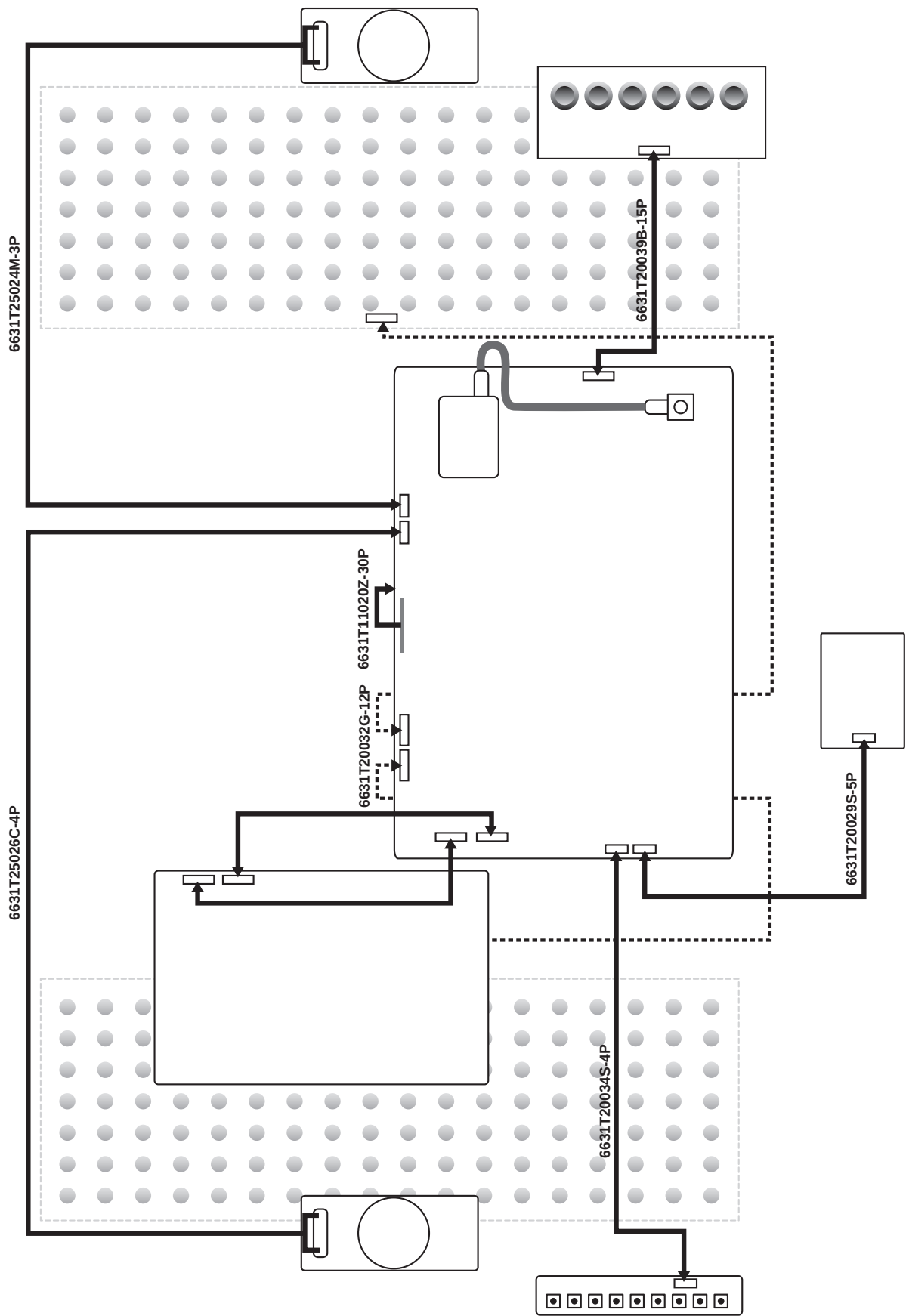




BLOCK DIAGRAM



WIRING DIAGRAM



This exploded view diagram illustrates the assembly of a vehicle navigation system. The components are labeled as follows:

- 010**: The main navigation unit, shown in an exploded view relative to the rear panel (070) and the front bezel (020).
- 020**: The front bezel or display frame.
- 030**: The rear panel or mounting bracket.
- 040**: A small electronic component, likely a sensor or antenna.
- 050**: A small electronic component, likely a sensor or antenna.
- 060**: Two circular components, likely speakers or microphones.
- 070**: The rear panel or mounting bracket.
- 080**: A small electronic component, likely a sensor or antenna.
- 090**: A small electronic component, likely a sensor or antenna.
- 100**: A small electronic component, likely a sensor or antenna.
- 110**: A small electronic component, likely a sensor or antenna.
- 120**: A small electronic component, likely a sensor or antenna.
- 130**: A small electronic component, likely a sensor or antenna.
- 140**: A small electronic component, likely a sensor or antenna.
- 150**: A coiled cable with a connector.

EXPLODED VIEW PARTS LIST(RZ-37LZ55)

No.	PART NO.	DESCRIPTION
010	30919K0001D	CABINET ASSEMBLY, RZ-37LZ55 BRAND 3090TKE030A C/SKD
020	6304FLP291A	LCD(LIQUID CRYSTAL DISPLAY), LC370W01-C6K1 LG PHILPS TFT COLOR ODC
	or 6304FLP178A	LCD(LIQUID CRYSTAL DISPLAY), LC370W01-C6 LG PHILPS TFT COLOR P6 PLANT, ODC
	6304FLP289A	LCD(LIQUID CRYSTAL DISPLAY), LC370WX1-SL01 LG PHILPS TFT COLOR WXGA AIODC SPEC UP LEAD FREE
030	3809900001D	BACK COVER ASSEMBLY, RZ-37LZ55 NON C/SKD
040	3043900001F	TILT SWIVEL ASSEMBLY, RZ-37LZ55 3043900001D .
050	3550TKK975A	COVER, 37LZ50 REAR AV
060	6400GESF01A	SPEAKER,FULLRANGE, C112A02K1450 ESTEC FULL-RANGE(GENERAL) 8OHM 10/15W .DB 110 32LG10
070	68719ST071A	PWB(PCB) ASSEMBLY,SUB, SUB T.T ML051A RZ-37LZ55 KEY
080	68719ST072A	PWB(PCB) ASSEMBLY,SUB, SUB T.T ML051A RZ-37LZ55 IR & LOGO
090	6871TSTA80C	PWB(PCB) ASSEMBLY,SUB, SUB T.T ML051B RZ-37LZ55 SIDE
100	49509K0023B	METAL, SIDE SUPPORTER RIGHT FOR 37LZ55(C/SKD)
101	49509K0024B	METAL, SIDE SUPPORTER LEFT FOR 37LZ55(C/SKD)
110	4950TKA361D	METAL, FRAME, MAIN RZ-37LZ55(C/SKD)
120	6709900002A	POWER SUPPLY ASSEMBLY, FREE TORNADO 37 LCD KN/HE/YY
130	33139P3004A	MAIN TOTAL ASSEMBLY, RZ-37LZ55 BRAND ML-051B(TORNADO)
140	4950TKA362B	METAL, SHIELD, MAIN PLUS ANALOG AV 37LZ55(CKD)
150	6410TEW010A	POWER CORD, LP34A+LS60 LONGWELL VDE/SEMKO 1870MM WALL CD/PB FREE BLACK
	6410TEW011A	POWER CORD, LP22+LS60 LONGWELL IMQ 1870MM WALL CD/PB FREE BLACK- For Italy
	6410TBW004A	POWER CORD, LP-61+LS-60 LONGWELL BSI 1870MM WALL CD/PB FREE BLACK- For U.K
	6410TPW003A	POWER CORD, LP-33+LS-60 LONGWELL PCT 1870MM WALL CD/PB FREE BLACK- FOR RUSSIA

EXPLODED VIEW PARTS LIST(RT-37LZ55)

No.	PART NO.	DESCRIPTION
010	30919K0001G	CABINET ASSEMBLY, RT-37LZ55 FOR LGEAP BRAND 3090TKE030A SET(40AF)
	30919K0001B	CABINET ASSEMBLY, RZ-37LZ55 BRAND 3090TKE030A .-For Singapore
	30919K0001D	CABINET ASSEMBLY, RZ-37LZ55 BRAND 3090TKE030A C/SKD
020	6304FLP289A	LCD(LIQUID CRYSTAL DISPLAY), LC370WX1-SL01 LG PHILPS TFT COLOR WXGA AIODC SPEC UP LEAD FREE
030	3809900001G	BACK COVER ASSEMBLY, RT-37LZ55 FOR LGEAP NON SET(40AF)
	3809900001E	BACK COVER ASSEMBLY, RM-37LZ55 NON NON-For Singapore
	3809900001H	BACK COVER ASSEMBLY, RT/RM-37LZ55 NON SKD
040	3043900001B	TILT SWIVEL ASSEMBLY, RZ-37LZ55 4950TKA360A .
	3043900001F	TILT SWIVEL ASSEMBLY, RZ-37LZ55 3043900001D .- For China, NT LOCAL
050	3550TKK975A	COVER, 37LZ50 REAR AV
060	6400GESF01A	SPEAKER,FULLRANGE, C112A02K1450 ESTEC FULL-RANGE(GENERAL) 8OHM 10/15W .DB 110 32LG10
070	68719ST071A	PWB(PCB) ASSEMBLY,SUB, SUB T.T ML051A RZ-37LZ55 KEY
080	68719ST072A	PWB(PCB) ASSEMBLY,SUB, SUB T.T ML051A RZ-37LZ55 IR & LOGO
090	6871TSTA80C	PWB(PCB) ASSEMBLY,SUB, SUB T.T ML051B RZ-37LZ55 SIDE
100	49509K0023A	METAL, SIDE SUPPORTER RIGHT FOR 37LZ55
	49509K0023B	METAL, SIDE SUPPORTER RIGHT FOR 37LZ55(C/SKD)
101	49509K0024A	METAL, SIDE SUPPORTER LEFT FOR 37LZ55.
	49509K0024B	METAL, SIDE SUPPORTER LEFT FOR 37LZ55(C/SKD)
110	4950TKA361B	METAL, FRAME, MAIN RZ-37LZ55
	4950TKA361D	METAL, FRAME, MAIN RZ-37LZ55(C/SKD)
120	6709900002A	POWER SUPPLY ASSEMBLY, FREE TORNADO 37 LCD KN/HE/YY
130	33139P3004B	MAIN TOTAL ASSEMBLY, RT-37LZ55 BRAND ML-051B(TORNADO)
140	4950TKA362C	METAL, SHIELD, MAIN PLUS ANALOG AV(RT-37LZ55)SET
	4950TKA362E	METAL, SHIELD, MAIN PLUS ANALOG AV(RT-37LZ55) SKD
150	6410TSW003A	POWER CORD, LP-23A+LS-13 LONGWELL SAA 1870MM WALL CD/PB FREE BLACK
	6410TBW004A	POWER CORD, LP-61+LS-60 LONGWELL BSI 1870MM WALL CD/PB FREE BLACK-For Singapore

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. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
CAPACITOR				
		C1010	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1011	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1014	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1015	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1016	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1017	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1020	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1021	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1022	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1024	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1026	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1027	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1029	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1031	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1032	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		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
		C1041	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1043	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1044	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1074	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1076	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1077	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
		C1082	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1083	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
		C1104	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1106	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1113	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1116	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1118	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1119	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1120	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1121	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1122	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1123	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1124	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1125	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1126	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1127	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1133	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1135	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1137	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1138	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1139	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1143	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1149	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C115	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		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

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
			C1155	0CH3104K566
			C1156	0CH3103K516
			C1159	0CH3103K516
			C116	0CH3103K516
			C1160	0CH3104K566
			C1162	0CH3103K516
			C1163	0CH3104K566
			C1165	0CH3103K516
			C1166	0CH3103K516
			C1167	0CH3104K566
			C1169	0CH3103K516
			C1171	0CH3104K566
			C1172	0CH3104K566
			C120	0CH3103K516
			C1218	0CH3104K566
			C1219	0CH3104K566
			C122	0CK273DK51A
			C1220	0CH3104K566
			C1221	0CH3104K566
			C1222	0CH3104K566
			C1223	0CH3104K566
			C1224	0CH3104K566
			C1225	0CH3104K566
			C1226	0CH3104K566
			C1227	0CH3104K566
			C1228	0CH3104K566
			C1229	0CH3104K566
			C123	0CH3103K516
			C1232	0CH3104K566
			C1234	0CH3104K566
			C1235	0CH3104K566
			C1236	0CH3104K566
			C1237	0CH3104K566
			C1238	0CH3104K566
			C1239	0CH3104K566
			C1240	0CH3104K566
			C1241	0CH3104K566
			C1242	0CH3104K566
			C1243	0CH3104K566
			C1244	0CH3104K566
			C1245	0CH3104K566
			C1246	0CH3104K566
			C1247	0CH3104K566
			C1248	0CH3104K566
			C1249	0CH3104K566
			C1250	0CH3104K566
			C1251	0CH3104K566
			C1252	0CH3104K566
			C1253	0CH3104K566
			C1254	0CH3104K566
			C1255	0CH3104K566
			C1256	0CH3104K566
			C1257	0CH3104K566
			C1258	0CH3104K566

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1259	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C126	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		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
		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
		C128	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		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
		C129	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		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
		C1300	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C1303	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1306	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		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)
		C1311	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		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
		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
		C1329	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1331	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C1336	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1337	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1340	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1341	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C135	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1400	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1401	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1402	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1410	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1413	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1414	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C204	0CH3103K516	10000PF 50V 10% B(Y5P) 2012-RZ-37LZ55
		C205	0CH3103K516	10000PF 50V 10% B(Y5P) 2012-RZ-37LZ55
		C247	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C248	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C256	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C301	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C306	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C309	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C312	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C316	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C326	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C336	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C340	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C342	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C343	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C344	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C345	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C348	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C349	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C350	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C353	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C354	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C355	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C356	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C357	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C364	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C365	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C366	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C367	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C368	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C369	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C370	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C371	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C375	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C376	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C377	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C379	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C385	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C386	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C387	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C397	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C398	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C4	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C402	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C407	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C412	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C415	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C427	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C428	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C435	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C439	0CH3563K516	56000PF 2012 50V 10% - R/TP
		C440	0CH3223K516	22000PF 2012 50V 10% B(Y5P)
		C442	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C5	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C6	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C601	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C602	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C603	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C604	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C612	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C613	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C614	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C615	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C630	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C632	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C638	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C639	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C647	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C648	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C649	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C650	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C651	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C652	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C657	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C658	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C659	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C660	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C661	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C662	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C664	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C7	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C817	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C906	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		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
		C1005	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1006	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1033	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1034	0CH3103K516	10000PF 50V 10% B(Y5P) 2012

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C107	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
		C1111	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1164	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C119	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1233	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C124	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C125	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1301	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1308	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C132	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1321	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1328	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1330	0CK225DH94A	"2.2UF 2012 25V 80%,-20% F(Y"
		C1338	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1339	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C138	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C139	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C140	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1403	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1404	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1407	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C1409	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C217	0CH3103K516	10000PF 50V 10% B(Y5P) 2012-RZ-37LZ55
		C218	0CH3103K516	10000PF 50V 10% B(Y5P) 2012-RZ-37LZ55
		C237	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C240	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		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
		C311	0CH3223K516	22000PF 2012 50V 10% B(Y5P)
		C313	0CH3223K516	22000PF 2012 50V 10% B(Y5P)
		C323	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C332	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C335	0CH3682K516	6800PF 2012 50V 10% B(Y5P)
		C339	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C346	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C373	0CK105DF64A	1UF 2012 16V 20% F(Y5V) R/T
		C381	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C382	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C383	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C384	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C388	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C389	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C390	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C391	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C396	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C401	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C408	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C409	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C410	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C416	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C417	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C418	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C419	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C420	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C421	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C422	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C423	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C424	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C425	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C426	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C429	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C430	0CK474DH56A	0.47UF 2012 25V 10% R/TP X7
		C444	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C446	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C654	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C663	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C803	0CK105DH56A	1UF 2012 25V 10% X7R R/TP
		C815	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
		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
		C838	0CH5080K116	8PF 2012 50V 0.5 PF NP0 R/T
		C839	0CH5080K116	8PF 2012 50V 0.5 PF NP0 R/T
		C117	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C118	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C1297	0CC270DK41A	27PF 2012 50V 5% NP0 R/TP
		C200	0CH6221K416	220PF 2012 50V 5% NP0 -RZ-37LZ55
		C202	0CH6101K416	100PF 50V 5% NP0 2012 R/TP-RZ-37LZ55
		C207	0CH6102K406	1000PF 50V 5% SL 2012 R/TP-RZ-37LZ55
		C209	0CH6101K416	100PF 50V 5% NP0 2012 R/TP-RZ-37LZ55
		C210	0CH6101K416	100PF 50V 5% NP0 2012 R/TP-RZ-37LZ55
		C211	0CH6102K406	1000PF 50V 5% SL 2012 R/TP-RZ-37LZ55
		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
		C225	0CH6391K416	390PF 2012 50V 5% NP0 R/TP
		C227	0CH6471K416	470PF 2012 50V 5% NP0 R/TP
		C228	0CH6471K416	470PF 2012 50V 5% NP0 R/TP
		C307	0CH6560K416	56PF 2012 50V 5% NP0 -
		C319	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C330	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C333	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
		C392	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C395	0CH6101K416	100PF 50V 5% NP0 2012 R/TP
		C399	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
		C609	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C610	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C616	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C617	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C618	0CH6102K406	1000PF 50V 5% SL 2012 R/TP

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C619	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
		C623	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C624	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C631	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
		C643	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C644	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C816	0CH6151K416	150PF 2012 50V 5% NP0 -
		C821	0CH6220K416	22PF 2012 50V 5% NP0 -
		C822	0CH6220K416	22PF 2012 50V 5% NP0 -
		C1081	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C1333	0CH6102K406	1000PF 50V 5% SL 2012 R/TP
		C203	0CH6221K416	220PF 2012 50V 5% NP0 --RZ-37LZ55
		C214	0CH6101K416	100PF 50V 5% NP0 2012 R/TP-RZ-37LZ55
		C215	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S-RT-37LZ55
		C216	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S-RT-37LZ55
		C241	0CH6010K116	1PF 2012 50V 0.5 PF NP0 R/T
		C242	0CH6010K116	1PF 2012 50V 0.5 PF NP0 R/T
		C304	0CH6010K116	1PF 2012 50V 0.5 PF NP0 R/T
		C305	0CH6010K116	1PF 2012 50V 0.5 PF NP0 R/T
		C308	0CH6560K416	56PF 2012 50V 5% NP0 -
		C324	0CH6471K416	470PF 2012 50V 5% NP0 R/TP
		C437	0CH6151K416	150PF 2012 50V 5% NP0 -
		C441	0CC821DK41A	820PF 2012 50V 5% NP0 R/TP
		C645	0CH6180K416	18PF 2012 50V 5% NP0 R/TP
		C646	0CH6180K416	18PF 2012 50V 5% NP0 R/TP
		C655	0CH6120K416	12PF 2012 50V 5% NP0 -
		C656	0CH6120K416	12PF 2012 50V 5% NP0 -
		C352	0CE108CJ618	"1000UF SHL,SD 35V 20% FL TP"
		C374	0CE108CJ618	"1000UF SHL,SD 35V 20% FL TP"
		C1007	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		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(
		C1028	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)
		C106	0CE227WF6DC	220UF 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)
		C108	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1084	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1097	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C110	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1105	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1107	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C111	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C1112	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1114	0CE477WF6DC	470UF MVK 16V 20% SMD R/TP(
		C1117	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C112	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C1128	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1129	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C113	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		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)
		C114	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C1140	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1142	0CE107WK6DC	100UF MVK 50V 20% R/TP(SMD)
		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)
		C1170	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C121	0CE476WF6DC	47UF 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)
		C1299	0CE107WH6DC	100UF MVK 25V 20% R/TP(SMD)
		C130	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1302	0CE107WH6DC	100UF MVK 25V 20% R/TP(SMD)
		C1304	0CE106VK6DC	10UF MV 50V 20% R/TP(SMD) S
		C1305	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1307	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1312	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1313	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C1314	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C1332	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1334	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C1335	0CE475VK6DC	4.7UF MV 50V 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
		C1415	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C201	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S-RZ-37LZ55
		C206	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)-RZ-37LZ55
		C208	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)-RZ-37LZ55
		C212	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S-RZ-37LZ55
		C213	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S-RZ-37LZ55
		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
		C235	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)-RZ-37LZ55
		C236	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C249	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C252	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM-RT-37LZ55
		C253	0CE105VK6DC	1UF MV 50V 20% R/TP(SMD) SM-RT-37LZ55
		C255	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP-RT-37LZ55
		C3	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C302	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C303	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		C314	0CE226WF6DC	22UF MVK 16V 20% R/TP(SMD)
		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)
		C337	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)
		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)
		C378	0CE475WJ6DC	4.7UF MVK 35V 20% R/TP(SMD)
		C393	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD)
		C394	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C400	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C404	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C406	0CE476WF6DC	47UF MVK 16V 20% R/TP(SMD)
		C411	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C434	0CE226WF6DC	22UF MVK 16V 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
		C611	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C625	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C633	0CE106VF6DC	10UF MV 16V 20% R/TP(SMD) S
		C640	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				
		ZD400	0DR050008AA	SD05.TC R/TP SEMTECH SOD323
		ZD401	0DR050008AA	SD05.TC R/TP SEMTECH SOD323
		D100	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1001	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1002	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1005	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1006	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1009	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D101	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D1014	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D601	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D602	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D603	0DD184009AA	KDS184 TP KEC - 85V - - 3
		D1004	0DS226009AA	KDS226 TP KEC - 80V - - 4NS
		D604	0DD184009AA	KDS184 TP KEC - 85V - - 3
		ZD1201	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1202	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		ZD200	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-RZ-37LZ55
		ZD201	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-RZ-37LZ55
		ZD212	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-RZ-37LZ55
		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
		ZD216	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD223	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-RZ-37LZ55
		ZD226	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-RZ-37LZ55
		ZD227	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-RZ-37LZ55
		ZD228	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-RZ-37LZ55
		ZD229	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-RZ-37LZ55
		ZD604	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD208	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-RZ-37LZ55
		ZD209	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323-RT-37LZ55
		ZD221	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD222	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD601	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD602	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD603	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD609	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD1400	0DZ560009DA	UDZ S 5.6B TP ROHM-K SOD323
		ZD300	0DZKE00048A	KDZ8.2V USC KEC R/TP NON
		ZD1401	0DZ330009DF	MTZJ33B TP ROHM-K DO34 0.5W
IC				
		IC900	0IZZ9H0062A	"MX29LV160BTTTC-70G,LF MACRO-RZ-37LZ55
		IC301	0ILNR00015A	"NSP-2100A,LF NEOFIDELITY TQ"
		IC602	0ICS240213A	CAT24W(F)C02J-TE13 8P SOP
		IC603	0ICS240213A	CAT24W(F)C02J-TE13 8P SOP
		IC804	0IAL242561B	AT24C256W-10SU-2.7V ATMEL 8
		IC901	0IMMRHY052C	"HY5DU281622ETP-5,PB FREE HY"
		IC902	0IMMRHY052C	"HY5DU281622ETP-5,PB FREE HY"
		IC201	0IMCRSG010A	ST3232CDR SGS-THOMSON SOP16
		IC300	0IMCRMN028B	MSP4410K MICRONAS 80P/PQFP
		IC302	0IMCRTI028C	"TAS5122DCARG4,LF TEXAS INS"
		IC400	0ISO206900A	CXA2069Q QFP64 BK I2C BUS A
		IC800	0IMCR02005A	FLI8532BD-LF GENESIS 416P/P
		IC304	0IPRPTI034B	"TPA6110A2DGNRG4,LF TEXAS IN"
		IC600	0IPRPS5005A	SIH9011CLU(PB FREE) SILICON
		IC601	0IPRP00623A	CM2021-00TR CAMD TSSOP-38 R
		IC802	0ISA721700C	LA7217M MFP14 TP SYNC SEPAR
		IC1000	0IMCRFA010A	"KA7809R, FAIRCHILD 2P D-PAK"
		IC1003	0IPMGSG018D	LD1086DT18TR-LF SGS-THOMSON
		IC1004	0IPRPM0101A	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"
		IC1014	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
		IC401	0IPH741400E	74HC14D 14SOP TP SHITTER TR
		IC604	0ISTLFA058A	"74F14SCX FAIRCHILD 14P,SOIC"

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
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
		L110	6210TCE001L	HB-1T2012-102JT CERATECH 20
		AR601	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AR602	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AR603	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AR604	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AR605	6210TCE002B	HB-4M3216-121JT CERATECH 32
		AR606	6210TCE002B	HB-4M3216-121JT CERATECH 32
		L106	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L107	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L108	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L109	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L111	6210TCE001L	HB-1T2012-102JT CERATECH 20
		L115	6210TCE001L	HB-1T2012-102JT CERATECH 20
		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
		L1008	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1009	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L101	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
		L102	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1020	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1021	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1022	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1023	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1024	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1026	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1027	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1028	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L103	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1031	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1035	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L105	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1201	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L202	6210TCE001A	HB-1S2012-080JT CERATEC 201-RZ-37LZ55
		L203	6210TCE001A	HB-1S2012-080JT CERATEC 201-RZ-37LZ55
		L204	6210TCE001A	HB-1S2012-080JT CERATEC 201-RZ-37LZ55
		L205	6210TCE001A	HB-1S2012-080JT CERATEC 201-RZ-37LZ55
		L206	6210TCE001A	HB-1S2012-080JT CERATEC 201-RZ-37LZ55
		L209	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L210	6210TCE001A	HB-1S2012-080JT CERATEC 201-RT-37LZ55
		L211	6210TCE001A	HB-1S2012-080JT CERATEC 201-RT-37LZ55
		L212	6210TCE001A	HB-1S2012-080JT CERATEC 201-RT-37LZ55
		L214	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L215	6210TCE001A	HB-1S2012-080JT CERATEC 201
		L216	6210TCE001A	HB-1S2012-080JT CERATEC 201

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		L217	6210TCE001A	HB-1S2012-080JT CERATEC 201
		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
		L309	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L315	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L316	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L317	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L400	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L601	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L602	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
		L606	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L607	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
		L1000	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1002	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1007	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1025	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1029	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1030	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L1040	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L116	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
		L1404	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L2	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L207	6210TCE001A	HB-1S2012-080JT CERATEC 201- RZ-37LZ55
		L208	6210TCE001A	HB-1S2012-080JT CERATEC 201- RZ-37LZ55
		L307	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L308	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L310	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L311	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L312	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L313	6210TCE001S	HU-1M2012-121 CERATECH 2012
		L314	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L318	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L401	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L608	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		L200	OLC1020101A	1UH 10% 2012 R/TC FI-B2012- RZ-37LZ55
		L213	OLC0233002A	3.3UH CERATECH R/TP
		L218	OLC1032101A	10UH 10% 3216 R/TC FI-C3216
		L219	OLC1032101A	10UH 10% 3216 R/TC FI-C3216
		L220	6210TCE001G	HH-1M3216-501 CERATEC 3216M- RT-37LZ55
		L402	OLC1032101A	10UH 10% 3216 R/TC FI-C3216
		L201	OLC1020101A	1UH 10% 2012 R/TC FI-B2012- RZ-37LZ55
TRANSISTOR				
		Q1001	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q103	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q105	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q107	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q108	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		Q109	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q113	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q210	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - RT-37LZ55
		Q211	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - RT-37LZ55
		Q213	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC - RT-37LZ55
		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 -
		Q309	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q402	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q110	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q111	0TR830009BA	BSS83 TP PHILIPS NON N-CHAN
		Q308	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q400	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q401	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q403	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q405	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q406	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		IC1	0TF492509AA	SI4925DY TP TEMIC 30V 6.1A
RESISTORS				
		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
		R1005	0RH3601D622	3.6K OHM 1 / 10 W 2012 5.00
		R1006	0RH2401D622	2.4K OHM 1 / 10 W 2012 5.00
		R1007	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1008	0RH1801D622	1.8K 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
		R107	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R109	0RH2201D622	2.2K OHM 1 / 10 W 2012 5.00
		R110	0RH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R111	0RH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R112	0RH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R114	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R115	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R116	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R117	0RH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R119	0RH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R120	0RH1003D622	100K OHM 1 / 10 W 2012 5.00
		R1201	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R1202	0RH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1204	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1205	0RH0822D622	82 OHM 1 / 10 W 2012 5.00%
		R1206	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R1207	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R121	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R122	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R123	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R124	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R125	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R126	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R127	ORH2000D622	200 OHM 1 / 10 W 5% D R/TP
		R128	ORH1500D622	150 OHM 1 / 10 W 2012 5.00%
		R129	ORH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R130	ORH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R1300	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1301	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1309	ORH0471D622	4.7 OHM 1 / 10 W 2012 5.00%
		R1401	ORH6800D622	680 OHM 1 / 10 W 5% D R/TP
		R1402	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R142	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R151	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R157	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1801	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R1802	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R1804	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1807	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R200	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R201	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R202	ORH5101D622	5.1K OHM 1 / 10 W 2012 5.00
		R203	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R204	ORH5101D622	5.1K OHM 1 / 10 W 2012 5.00
		R205	ORH0682D622	68 OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R207	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R208	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R209	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R210	ORH3902D622	39K OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R211	ORH5102D622	51K OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R212	ORH4703D622	470K OHM 1 / 10 W 2012 5.00-RZ-37LZ55
		R213	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R214	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R215	ORH4703D622	470K OHM 1 / 10 W 2012 5.00-RZ-37LZ55
		R216	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%-RT-37LZ55
		R217	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%-RT-37LZ55
		R218	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R220	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R222	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%-RT-37LZ55
		R223	ORH2702D622	27K OHM 1 / 10 W 2012 5.00%-RT-37LZ55
		R224	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%-RT-37LZ55
		R225	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%-RT-37LZ55
		R226	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%-RT-37LZ55
		R227	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%-RT-37LZ55
		R228	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%-RT-37LZ55
		R229	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%-RT-37LZ55
		R230	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%-RT-37LZ55
		R231	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%-RT-37LZ55
		R232	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%-RT-37LZ55
		R233	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%-RT-37LZ55
		R234	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%-RT-37LZ55
		R236	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R237	ORH0682D622	68 OHM 1 / 10 W 2012 5.00%
		R240	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R241	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R243	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D-RZ-37LZ55
		R243	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%-RT-37LZ55
		R244	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D-RZ-37LZ55

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R245	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R246	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D-RZ-37LZ55
		R247	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R248	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D-RZ-37LZ55
		R249	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R250	ORH3902D622	39K OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R251	ORH5102D622	51K OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R257	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R269	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R270	ORH4703D622	470K 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%
		R277	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R279	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R287	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R288	ORH1200D622	120 OHM 1 / 10 W 2012 5.00%
		R301	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R304	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R306	ORH0432D622	43 OHM 1 / 10 W 2012 5.00%
		R307	ORH0432D622	43 OHM 1 / 10 W 2012 5.00%
		R309	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R317	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R319	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R320	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R321	ORH0000D622	0 OHM 1 / 10 W 2012 5.00%
		R322	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R323	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R326	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R329	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R330	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R331	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R338	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R341	ORH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R342	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R343	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R346	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R348	ORH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R349	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R350	ORH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R351	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R352	ORH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R353	ORH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R354	ORH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R355	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R356	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R358	ORH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R359	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R360	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R361	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R362	ORH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R363	ORH0101D622	1.0 1/10W 5 TA
		R364	ORH0101D622	1.0 1/10W 5 TA
		R365	ORH0101D622	1.0 1/10W 5 TA
		R366	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R367	ORH0102D622	10 OHM 1 / 10 W 2012 5.00%
		R372	ORH1501D622	1.5K OHM 1 / 10 W 2012 5.00
		R376	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R379	ORH0331D622	3.3 OHM 1 / 10 W 2012 5.00%
		R380	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%
		R389	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R391	ORH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R392	ORH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R393	ORH0221D622	2.2 OHM 1 / 10 W 2012 5.00%
		R394	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R395	ORH2001D622	2K OHM 1 / 10 W 2012 5.00%
		R396	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R397	ORH0101D622	1.0 1/10W 5 TA
		R398	ORH1501D622	1.5K 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
		R411	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R412	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R415	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R428	ORH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R430	ORH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R444	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R447	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R448	ORH1003D622	100K OHM 1 / 10 W 2012 5.00
		R449	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R459	ORH1503D622	150K OHM 1 / 10 W 2012 5.00
		R462	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
		R603	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R604	ORH2001D622	2K OHM 1 / 10 W 2012 5.00%
		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
		R635	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R636	ORH4702D622	47K OHM 1 / 10 W 2012 5.00%
		R637	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R638	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R639	ORH0512D622	51 OHM 1 / 10 W 2012 5.00%
		R640	ORH0512D622	51 OHM 1 / 10 W 2012 5.00%
		R651	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R657	ORH1202D622	12K OHM 1 / 10 W 2012 5.00%
		R658	ORH1502D622	15K 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%
		R844	ORH3301D622	3.3K OHM 1 / 10 W 2012 5.00
		R865	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R867	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		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

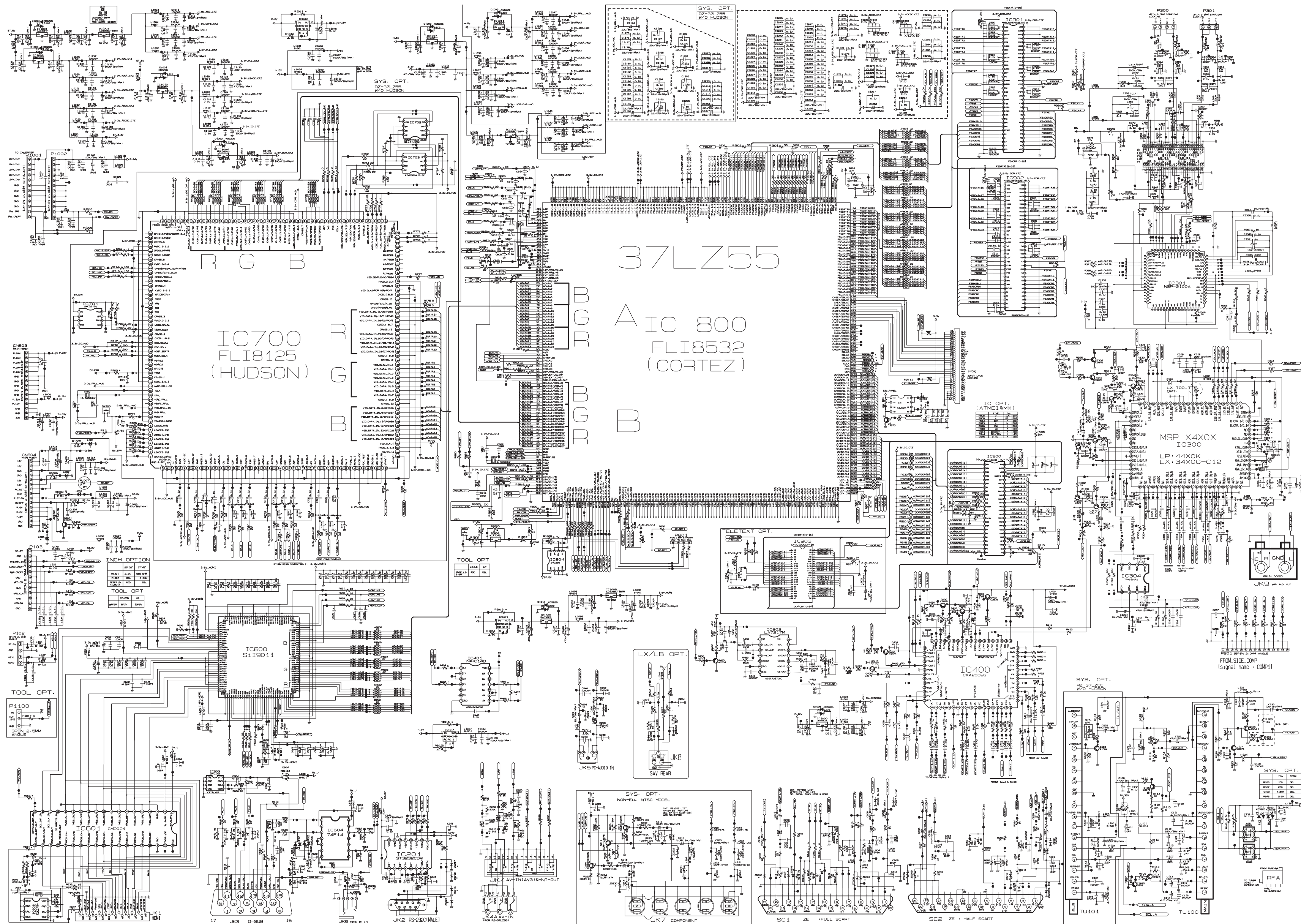
DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R913	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R920	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R921	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R931	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R936	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R937	ORH1001D622	1K 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%
		R1	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%
		R1010	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R1016	ORH4701D622	4.7K 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%
		R1304	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1305	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R1306	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1307	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R1308	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R144	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R145	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		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%
		R2	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R238	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R239	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R252	ORH4703D622	470K OHM 1 / 10 W 2012 5.00-RZ-37LZ55
		R253	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R254	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%-RZ-37LZ55
		R255	ORH4703D622	470K OHM 1 / 10 W 2012 5.00-RZ-37LZ55
		R260	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%-RT-37LZ55
		R261	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%-RT-37LZ55
		R262	ORH4703D622	470K OHM 1 / 10 W 2012 5.00-RT-37LZ55
		R263	ORH4703D622	470K OHM 1 / 10 W 2012 5.00-RT-37LZ55
		R267	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R268	ORH1001D622	1K 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%
		R280	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R281	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R282	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R283	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R284	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R285	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R286	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R295	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D-RT-37LZ55
		R296	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D-RT-37LZ55
		R297	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D-RT-37LZ55
		R298	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R299	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R3	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R302	ORH1001D622	1K 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%
		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%
		R327	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R328	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R332	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R335	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R336	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R337	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R340	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R344	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R345	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R347	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R357	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R368	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R369	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R370	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R373	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R374	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R375	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R377	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R378	ORH2702D622	27K OHM 1 / 10 W 2012 5.00%
		R4	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R401	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R403	ORH4700D622	470 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%
		R410	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%
		R423	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R425	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R426	ORH4700D622	470 OHM 1 / 10 W 2012 5.00%
		R427	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%
		R434	ORH1201D622	1.2K OHM 1 / 10 W 2012 5.00
		R435	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R436	ORH1201D622	1.2K 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%
		R450	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R451	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R456	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%

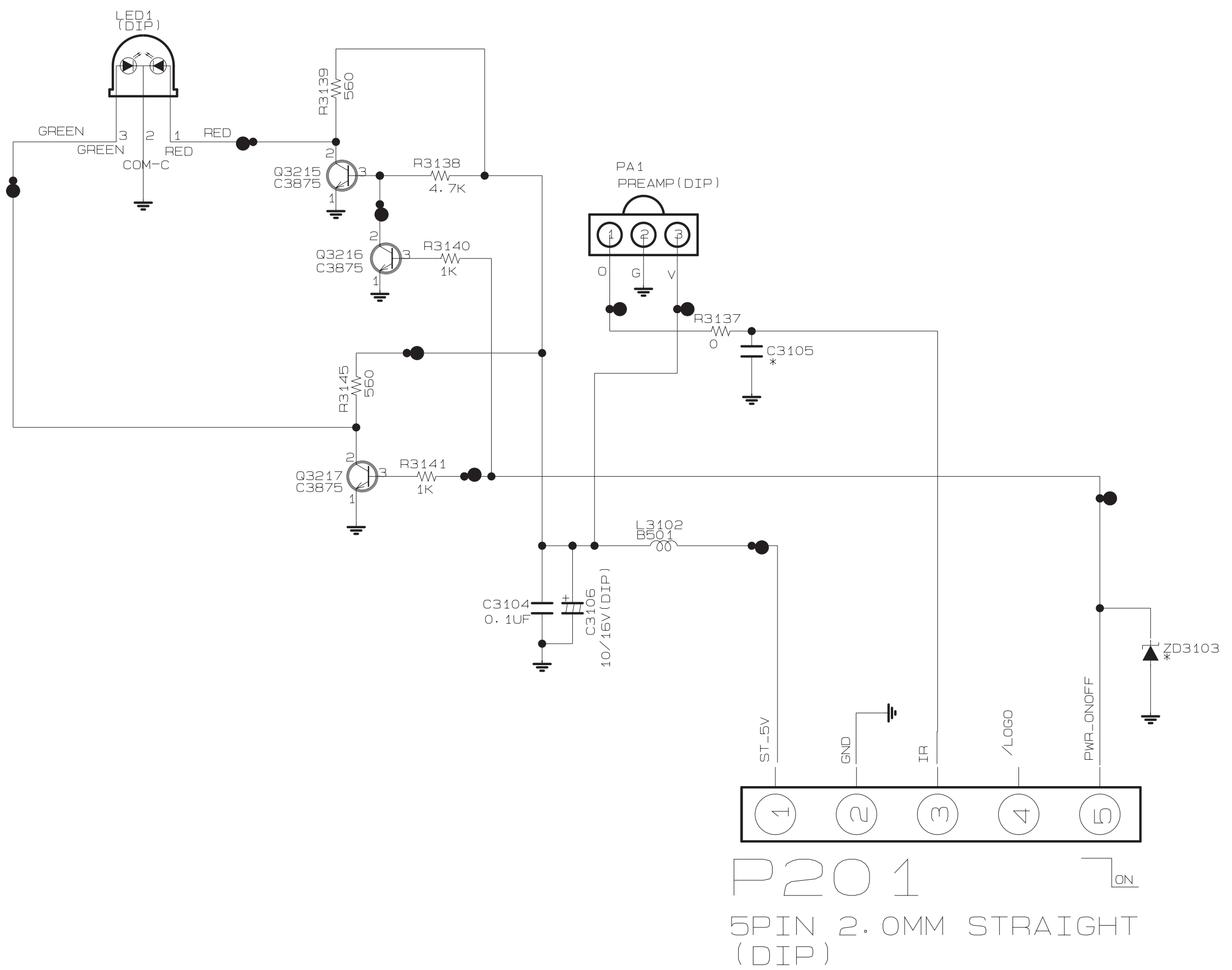
DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R457	ORH2200D622	220 OHM 1 / 10 W 2012 5.00%
		R458	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R460	ORH5600D622	560 OHM 1 / 10 W 2012 5.00%
		R461	ORH0472D622	47 OHM 1 / 10 W 2012 5.00%
		R463	ORH3901D622	3.9K OHM 1 / 10 W 2012 5.00
		R464	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R465	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R5	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R6	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R606	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R607	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R608	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R609	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R610	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R619	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R620	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R621	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R622	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R623	ORH0332D622	33 OHM 1 / 10 W 2012 5.00%
		R624	ORH1004D622	1M OHM 1 / 10 W 2012 5.00%
		R625	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R626	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R627	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R628	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R629	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R630	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R631	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R641	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R642	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R643	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R644	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R645	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R646	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R647	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R648	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R649	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R650	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R652	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R653	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R654	ORH1000D622	100 OHM 1 / 10 W 2012 5.00%
		R655	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R656	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R659	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R660	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R661	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R662	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R663	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R7	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		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%

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		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%
		R842	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R843	ORH4701D622	4.7K 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	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R852	ORH0222D622	22 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%
		R868	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D-RT-37LZ55
		R869	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D-RT-37LZ55
		R870	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D-RT-37LZ55
		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%
		R935	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R938	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R939	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
		R952	ORH0222D622	22 OHM 1 / 10 W 2012 5.00%
OTHERs				
		LED3	ODL233309AC	SAM2333 TP KWANG GREEN/RED
		X401	166-E02F	CSBLA500KECF09-B0 CSB500F9
		X300	6202VDT002H	SX-1 SUNNY 18.432000MHZ +/-
		X600	6212AB2845A	ABLS-27.000MHZ-16-B-4Y-F-T
		X800	6212AB2015G	HC-49/SM BUBANG 19.6608MHZ
		TU100	6700MF0012C	TAFM-W103P LGIT MULTI FS PH
KEY BOARD				
		SW1201	140-313B	TACT 2LEAD 160G(TA) LG C&D

DATE: 2005. 09. 21.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		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
		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%
IR&LOGO BOARD				
		C3104	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		L3102	6210TCE001G	HH-1M3216-501 CERATEC 3216M
		Q3215	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3216	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3217	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R3137	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3138	ORH4701D622	4.7K OHM 1 / 10 W 2012 5.00
		R3139	ORH5600D622	560 OHM 1 / 10 W 2012 5.00%
		R3140	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R3141	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		R3145	ORH5600D622	560 OHM 1 / 10 W 2012 5.00%
		C3106	0CE1063F618	"10UF SRE,SE 16V 20% FL TP 5"
		LED1	0DL200000CA	SAM5670(DL-2LRG) BK Y-GREEN
		PA1	6726TV0001A	TSOP4838SQ1 VISHAY 38.0KHZ
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	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3101	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R3102	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R3103	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3104	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3111	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R3113	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R3115	ORH0752D622	75 OHM 1 / 10 W 2012 5.00%
		R3117	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R3119	ORH4703D622	470K OHM 1 / 10 W 2012 5.00
		R3123	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3124	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R3160	ORH1001D622	1K OHM 1 / 10 W 2012 5.00%
		ZD3100	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD3101	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		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

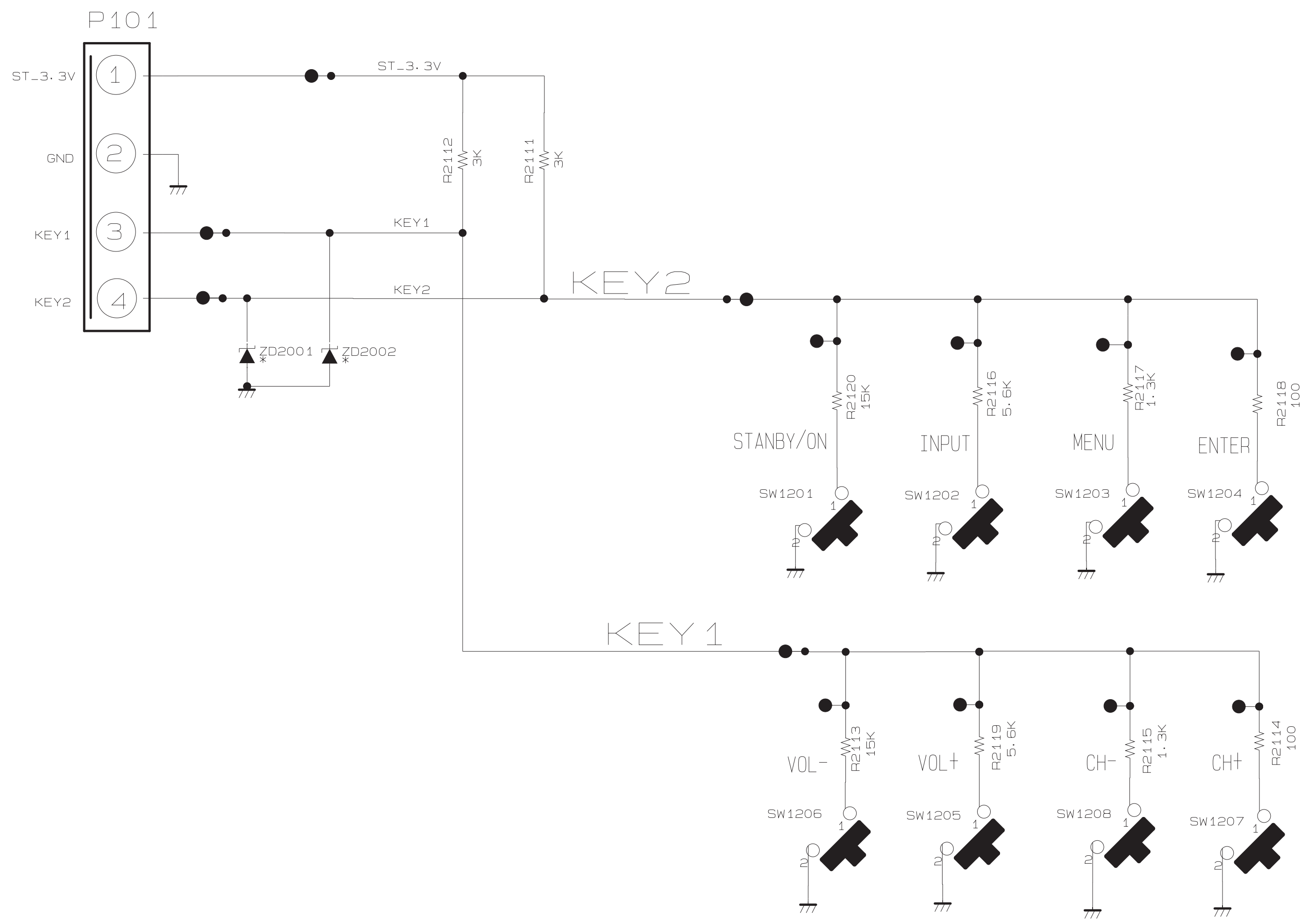
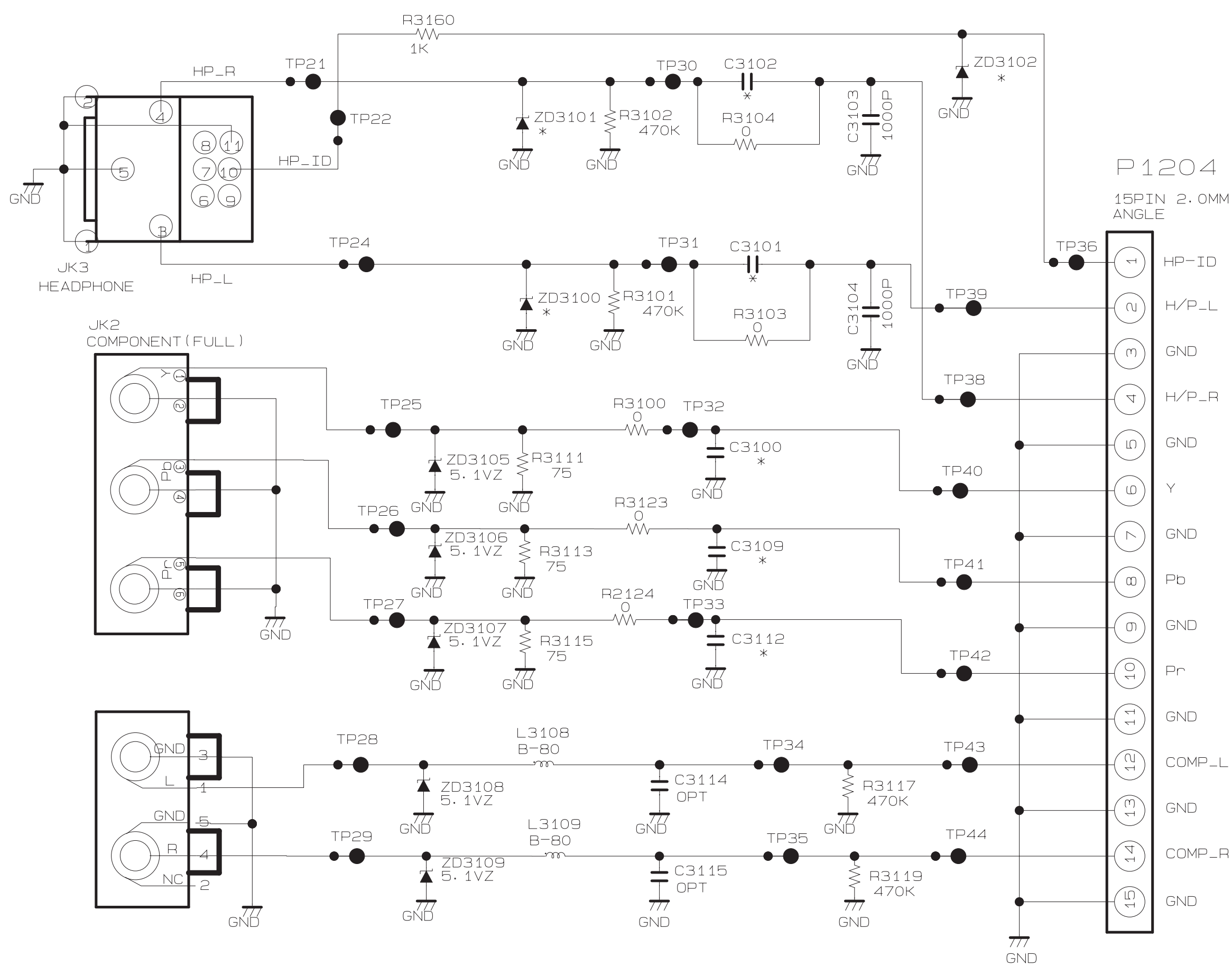


IR LED
TORNADO



SIDE_COMP

KEY BD
FOR TORNADO





P/NO : 38289S0022F

Sep., 2005
Printed in Korea