



# TFT-LCD TV

Chassis  
VE15JO

Model  
LT15M23C

# *SERVICE* Manual

## TFT-LCD TV



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# 1 Precautions

Follow these safety, servicing and ESD precautions to prevent damage and to protect against potential hazards such as electrical shock.

## 1-1 Safety Precautions

### 1-1-1 Warnings

1. For continued safety, do not attempt to modify the circuit board.
2. Disconnect the AC power and DC Power Jack before servicing.

### 1-1-2 Servicing the LCD TV

1. When servicing the LCD\_TV Disconnect the AC line cord from the AC outlet.
2. It is essential that service technicians have an accurate voltage meter available at all times. Check the calibration of this meter periodically.

### 1-1-3 Fire and Shock Hazard

Before returning the LCD\_TV to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the LCD\_TV.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check (Figure 1-1):  
WARNING: Do not use an isolation transformer during this test.

Use a leakage current tester or a metering system that complies with American National Standards Institute (ANSI C101.1, *Leakage Current for Appliances*), and Underwriters Laboratories (UL Publication UL1410, 59.7).

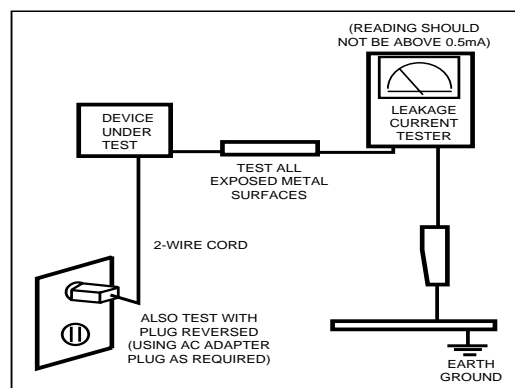


Figure 1-1. Leakage Current Test Circuit

4. With the unit completely reassembled, plug the AC line cord directly into a 120V AC outlet. With the unit's AC switch first in the ON position and then OFF, measure the current between a known earth ground (metal water pipe, conduit, etc.) and all exposed metal parts, including: metal cabinets, screwheads and control shafts. The current measured should not exceed 0.5 milliamp. Reverse the power-plug prongs in the AC outlet and repeat the test.

### 1-1-4 Product Safety Notices

Some electrical and mechanical parts have special safety-related characteristics which are often not evident from visual inspection. The protection they give may not be obtained by replacing them with components rated for higher voltage, wattage, etc. Parts that have special safety characteristics are identified by  $\triangle$  on schematics and parts lists. A substitute replacement that does not have the same safety characteristics as the recommended replacement part might create shock, fire and / or other hazards. Product safety is under review continuously and new instructions are issued whenever appropriate.

## 1 Precautions

### 1-2 Servicing Precautions

---

**WARNING:** An electrolytic capacitor installed with the wrong polarity might explode.

**Caution:** **Before servicing units covered by this service manual, read and follow the Safety Precautions section of this manual.**

**Note:** If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions, always follow the safety precautions.

#### 1-2-1 General Servicing Precautions

1. Always unplug the unit's AC power cord from the AC power source and disconnect the DC Power Jack before attempting to:  
(a) remove or reinstall any component or assembly, (b) disconnect PCB plugs or connectors, (c) connect a test component in parallel with an electrolytic capacitor.
2. Some components are raised above the printed circuit board for safety. An insulation tube or tape is sometimes used. The internal wiring is sometimes clamped to prevent contact with thermally hot components. Reinstall all such elements to their original position.
3. After servicing, always check that the screws, components and wiring have been correctly reinstalled. Make sure that the area around the serviced part has not been damaged.
4. Check the insulation between the blades of the AC plug and accessible conductive parts (examples: metal panels, input terminals and earphone jacks).
5. Insulation Checking Procedure: Disconnect the power cord from the AC source and turn the power switch ON. Connect an insulation resistance meter (500 V) to the blades of the AC plug.  
The insulation resistance between each blade of the AC plug and accessible conductive parts (see above) should be greater than 1 megohm.
6. Always connect a test instrument's ground lead to the instrument chassis ground before connecting the positive lead; always remove the instrument's ground lead last.

### 1-3 Electrostatically Sensitive Devices (ESD) Precautions

---

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

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, 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 body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.

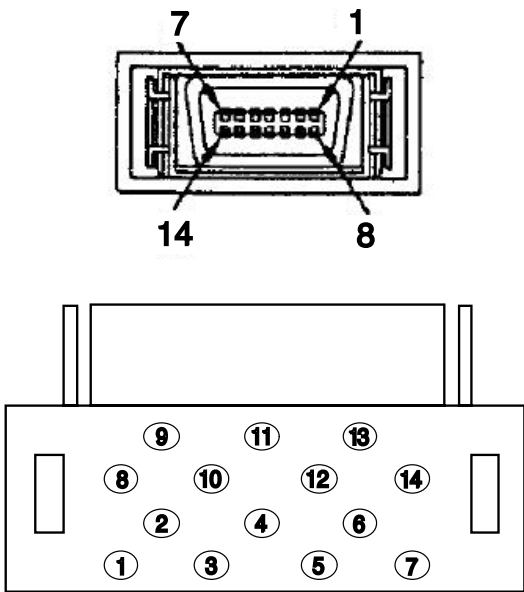
## 2 Product Specifications

### 2-1 Specifications

| Item                                    | Description   |                      |
|---|---|----------------------|
| LCD Panel                               | TFT-LCD panel, RGB vertical stripe, normaly white, 15-Inch viewable, 0.297 mm pixel pitch   |                      |
| Scanning Frequency                      | Horizontal : 30 kHz ~ 60 kHz (Automatic)<br>Vertical : 56 Hz ~ 75 Hz (Automatic)  |                      |
| Display Colors                          | 16.2 Million colors   |                      |
| Maximum Resolution                      | Horizontal : 1024 Pixels<br>Vertical : 768 Pixels   |                      |
| Input Video Signal                      | Analog 0.7 Vp-p $\pm$ 5% positive at 75 $\Omega$ , internally terminated  |                      |
| Input Sync Signal                       | Type : Seperate H/V<br>Level : TTL level  |                      |
| Active Display<br>Horizontal/Vertical   | 304.1 mm / 228.1 mm   |                      |
| AC power voltage & Frequency            | AC 120V, ~ 60 Hz  |                      |
| Power Consumption                       | 40 W  |                      |
| Dimensions(W x D x H)<br>Set<br>Package | 14.2 x 2.5 x 13.3 Inches (360.2 x 64.2 x 338.6 mm)(State of stand disassembled)<br>14.2 x 7.6 x 15.5 Inches (360.2 x 192.9 x 396.5 mm)(State of stand installed)<br>18.4 x 17.0 x 6.0 Inches (467 x 431 x 153 mm) |                      |
| Weight<br>Set                           | 3.6 Kg (7.9 lbs)  |                      |
| Environmental Considerations            | Operating Temperature : 50 °F ~ 104 °F (10 °C ~ 40 °C)<br>Operating Humidity : 10 % ~ 80 %<br>Storage Temperature : -4 °F ~ 113 °F (-20 °C ~ 45 °C)<br>Storage Humidity : 5 % ~ 95 %                              |                      |
| TV System                               | Tunning   | Frequency Synthesize |
|   | System  | NTSC-M               |
|   | Sound   | MONO, STEREO, SAP    |
| Antena Input                            | 75 $\Omega$ , Coaxial Cable   |                      |
| Sound Characteristic                    | – MAX Internal speaker Output : Right => 2.5W<br>Left => 2.5W   |                      |
|   | – Headphone Out: 10mW max (3.50 Stereo Jack 32)<br>– Output Frequency : RF => 80 Hz ~ 15 kHz at -3dB<br>A/V => 80 Hz ~ 20 kHz at -3dB   |                      |

## 2-2 Pin Assignments

### 2-2-1 D1/D2 Connector



| Pin NO. | Arrangement       |
|---------|-------------------|
| 1       | Y                 |
| 2       | Y_GND             |
| 3       | Pb                |
| 4       | PB_GND            |
| 5       | Pr                |
| 6       | Pr_GND            |
| 7       | Preliminary Line1 |
| 8       | Line1             |
| 9       | Line5             |
| 10      | Preliminary Line2 |
| 11      | Line3             |
| 12      | Switch GND        |
| 13      | Preliminary Line3 |
| 14      | Switch            |

### 2-2-2 DTV SOUND

|           |         |
|-----------|---------|
| RCA White | Audio L |
|           | GND     |
| RCA Red   | Audio R |
|           | GND     |

### 2-2-3 S-Video

| Pin | Separate |
|-----|----------|
| 1   | GND      |
| 2   | Y        |
| 3   | C        |
| 4   | GND      |
| 5   | GND      |

## 2-2-4 A/V

|            |         |
|------------|---------|
| RCA Yellow | CVBS    |
| RCA White  | Audio L |
|            | GND     |
| RCA Red    | Audio R |
|            | GND     |

## 2-2-5 D-SUB

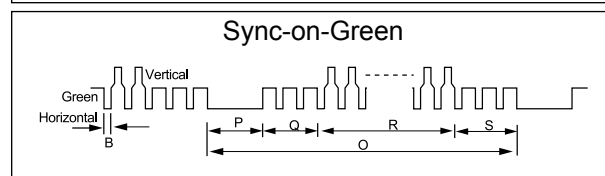
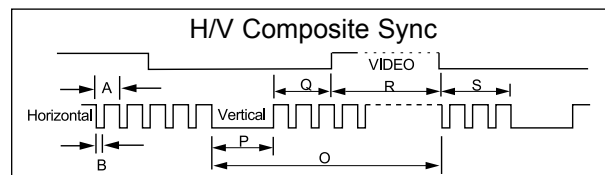
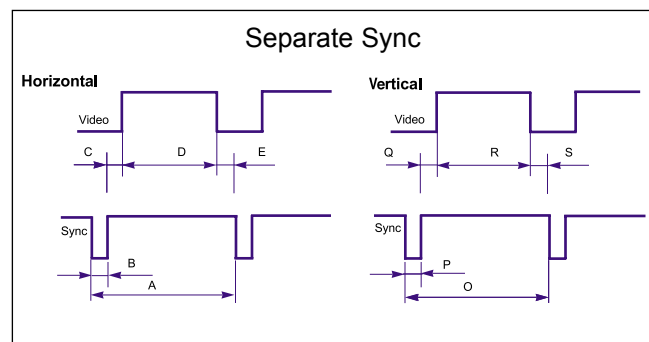
| Pin | Separate             |
|-----|----------------------|
| 1   | Red                  |
| 2   | Green                |
| 3   | Blue                 |
| 4   | GND                  |
| 5   | GND (DDC Return)     |
| 6   | GND-Red              |
| 7   | GND-Green            |
| 8   | GND-Blue             |
| 9   | No Connection        |
| 10  | GND-Sync / Self Test |
| 11  | GND                  |
| 12  | DDC Data             |
| 13  | H - Sync             |
| 14  | V - Sync             |
| 15  | DDC Clock            |

## 2-3 Timing Chart

This section of the service manual describes the timing that the computer industry recognizes as standard for computer-generated video signals.

Table 2-1 Timing Chart

| Mode |          | Resolution | Horizontal Frequency(kHz) | Vertical Frequency(Hz) | Pixel Clock Frequency(MHz) | Sync Polarity(H/V) |
|------|----------|------------|---------------------------|------------------------|----------------------------|--------------------|
| VGA  | LT15M23C | 720X400    | 31.496                    | 70.087                 | 28.322                     | - / +              |
|      |          | 640X480    | 31.496                    | 59.940                 | 25.175                     | - / -              |
|      | LT15M23C | 640X480    | 37.500                    | 75.000                 | 31.500                     | - / -              |
| SVGA | LT15M23C | 800X600    | 46.875                    | 75.000                 | 49.500                     | + / +              |
|      |          | 800X600    | 37.879                    | 60.317                 | 40.000                     | + / +              |
| XGA  | LT15M23C | 1024X768   | 48.363                    | 60.004                 | 65.000                     | - / -              |
|      |          | 1024X768   | 60.023                    | 75.029                 | 78.750                     | + / +              |



A : Line time total

B : Horizontal sync width

O : Frame time total

P : Vertical sync width

C : Back porch

D : Active time

Q : Back porch

R : Active time

E : Front porch

S : Front porch



## 3 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the LT15M23C TFT-LCD TV.

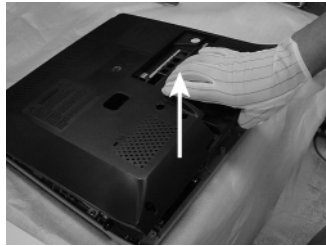
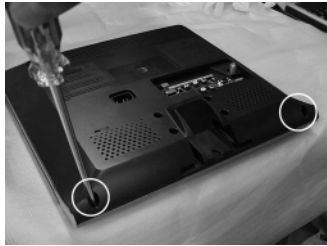
**⚠ WARNING:** This monitor contains electrostatically sensitive devices. Use caution when handling these components.

### 3-1 Disassembly

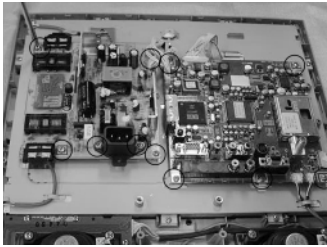
- ⚠ Cautions:**
- 1. Disconnect the monitor from the power source before disassembly.**
  - 2. Follow these directions carefully; never use any metal instrument except provided jig to separate the cabinet.**
  - 3. R/Cover opening jig : BH81-00001A**



1. Place monitor face down on cushioned table. Remove 4 screws from grip on the stand and remove stand from the LCD TV.



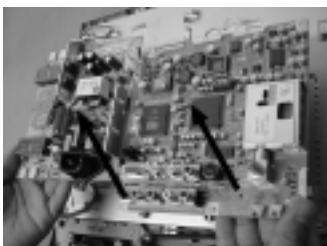
2. Remove 2 screws from the rear cover and lift up rear cover.



3. Remove 11 screws from the boards and disconnect inverter cables from the boards.



4. Disconnect LVDS cable, function cable and speaker cable from the board.



5. Lift up the boards and remove 8 screws from the panel shield.



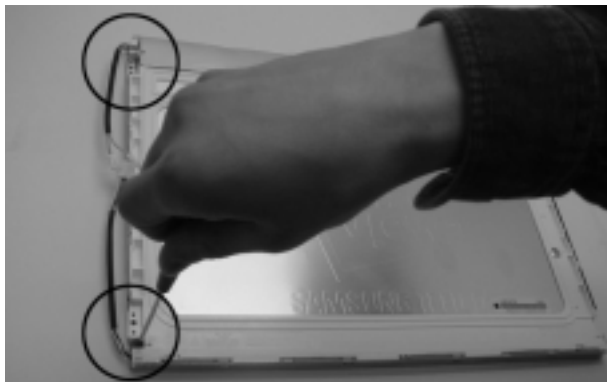
6. Lift up the panel shield and disconnect panel from the front.

## 3-2 Replacement Order of Lamp Assemblies

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1. After confirm there is nothing on the desk, turn the LCD module over and put it on a flat desk set to the ground.



2. Remove 2 screws for the lamp unit.

← Slide the lamp unit out.



← Slide the lamp unit out.

3. Slide the lamp unit out. Please take out the lamp unit from the LCD module.



4. Please fix the new lamp units on the LCD module :  
opposite process 2 and 3.

## 3-3 Reassembly

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Reassembly procedures are in the reverse order of disassembly procedures.

## MEMO

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## 4 Alignments and Adjustments

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### 4-1 General Alignment Instruction

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1. Usually, a color TV-VCR needs only slight touch-up adjustment upon installation.  
Check the basic characteristics such as height, horizontal and vertical sync.
2. Use the specified test equipment or its equivalent.
3. Correct impedance matching is essential.
4. Avoid overload. Excessive signal from a sweep generator might overload the front-end of the TV.  
When inserting signal markers, do not allow the marker generator to distort test result.
5. Connect the TV only to an AC power source with voltage and frequency as specified on the backcover nameplate.
6. Do not attempt to connect or disconnect any wire while the TV is turned on.  
Make sure that the power cord is disconnected before replacing any parts.
7. To protect against shock hazard, use an isolation transform.

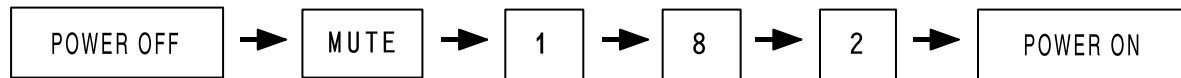
## 4-2 Factory Mode Adjustments

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### 4-2-1 Entering Factory Mode

- To enter "Service Mode" Press the remote -control keys in this sequence :

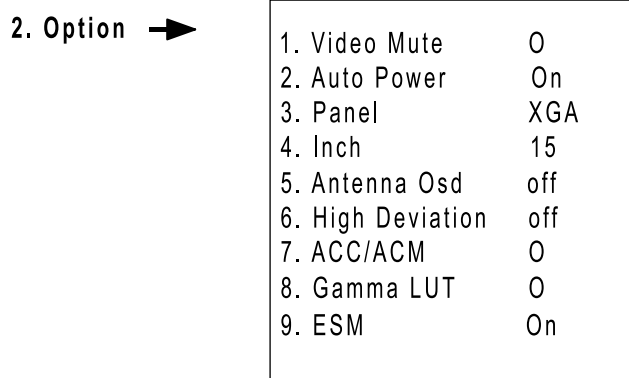
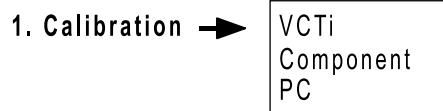
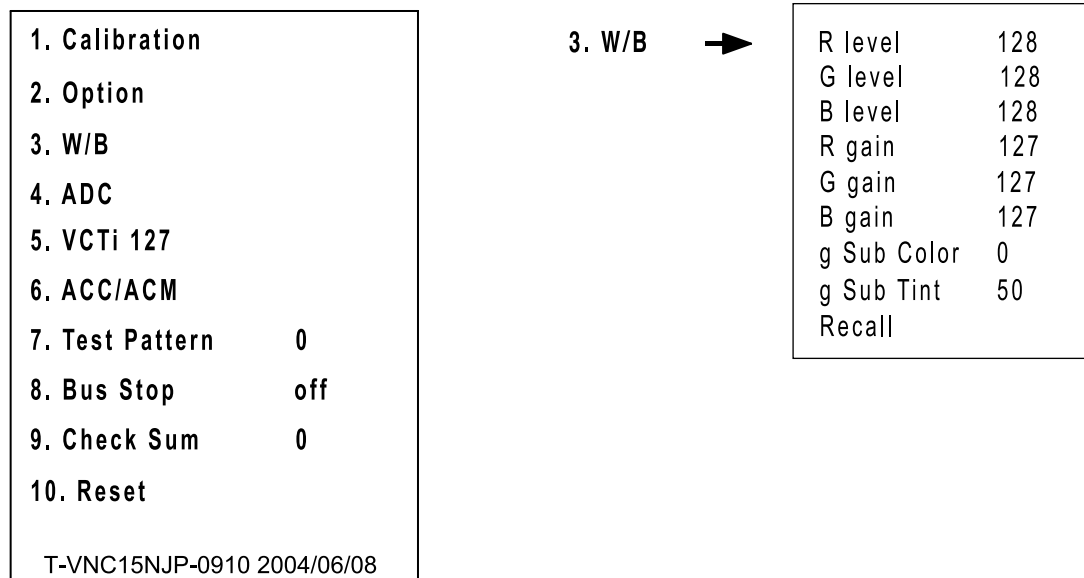
- If you do not have Factory remote - control



- If you have Factory remote - control



### 4-2-2 Factory Mode Tree



## 4. ADC →

| VCTi         | Compenent    | PC          |
|--------------|--------------|-------------|
| R offset 53  | R offset 113 | R offset 66 |
| G offset 43  | G offset 85  | G offset 63 |
| B offset 47  | B offset 83  | B offset 51 |
| R gain 0 125 | R gain 0 207 | R gain 0 54 |
| R gain 1 1   | R gain 1 1   | R gain 1 1  |
| G gain 0 122 | G gain 0 31  | G gain 0 62 |
| G gain 1 1   | G gain 1 1   | G gain 1 1  |
| B gain 0 134 | B gain 0 205 | B gain 0 66 |
| B gain 1 1   | B gain 1 1   | B gain 1 1  |

## 5. VCT →

|              |     |            |    |
|--------------|-----|------------|----|
| R Drive      | 192 | RF AGC     | 2  |
| G Drive      | 192 | Vpeaking   | 6  |
| B Drive      | 192 | CTI Gain   | 15 |
| Sub Contrast | 56  | CTI Coring | 5  |
| Sub Bright   | 128 | LMIXOFS    | 6  |
| Sub Sharp    | 10  | PKCF       | 3  |
| Sub Color    | 0   | AGCADJ1    | 32 |
| Sub Tint     | 50  | LTIGain    | 15 |
| Sub Coring   | 20  | PILOTHIGH  | 45 |
|              |     | PILOTLOW   | 25 |

## 6. ACC/ACM →

|           |     |            |     |
|-----------|-----|------------|-----|
| Y Max D   | 7   | Up Stant   | 40  |
| Y Scl Thr | 64  | Low Sn Thr | 60  |
| Y Scl A   | 5   | Up Sn Thr  | 0   |
| Y Scl B   | 0   | Y Min      | 10  |
| A Ctrl    | 0   | Y Max      | 255 |
| A SnsIp   | 8   | Ym Div SIp | 128 |
| T Dixel   | 12  | Fr Age     | 1   |
| Lower End | 80  | Fr App     | 0   |
| Mid Start | 30  | Esm Ctrl   | 127 |
| Mid End   | 100 |            |     |

## 7. Test Pattern ( Test Pattern of VCTi)

- |              |
|--------------|
| 1) VCTi      |
| 2) Toshiba   |
| 3) Gray Bar  |
| 4) Gray      |
| 5) Green     |
| 6) Color Bar |
| 7) Cross     |

## 8. Bus Stop

- Bus stop is used data communication.

## 9. Chcek Sum

- Display the current check sum size of the MICOM.

## 10. Reset

- Initializes the data in the MICOM.

## 11. T-VNC15NJP-0910 2004/06/08

- Display the MICOM program version.

## 4-2-3 White Balance

| High     | Low      |
|----------|----------|
| 267, 263 | 265, 260 |
| x, y     | x, y     |

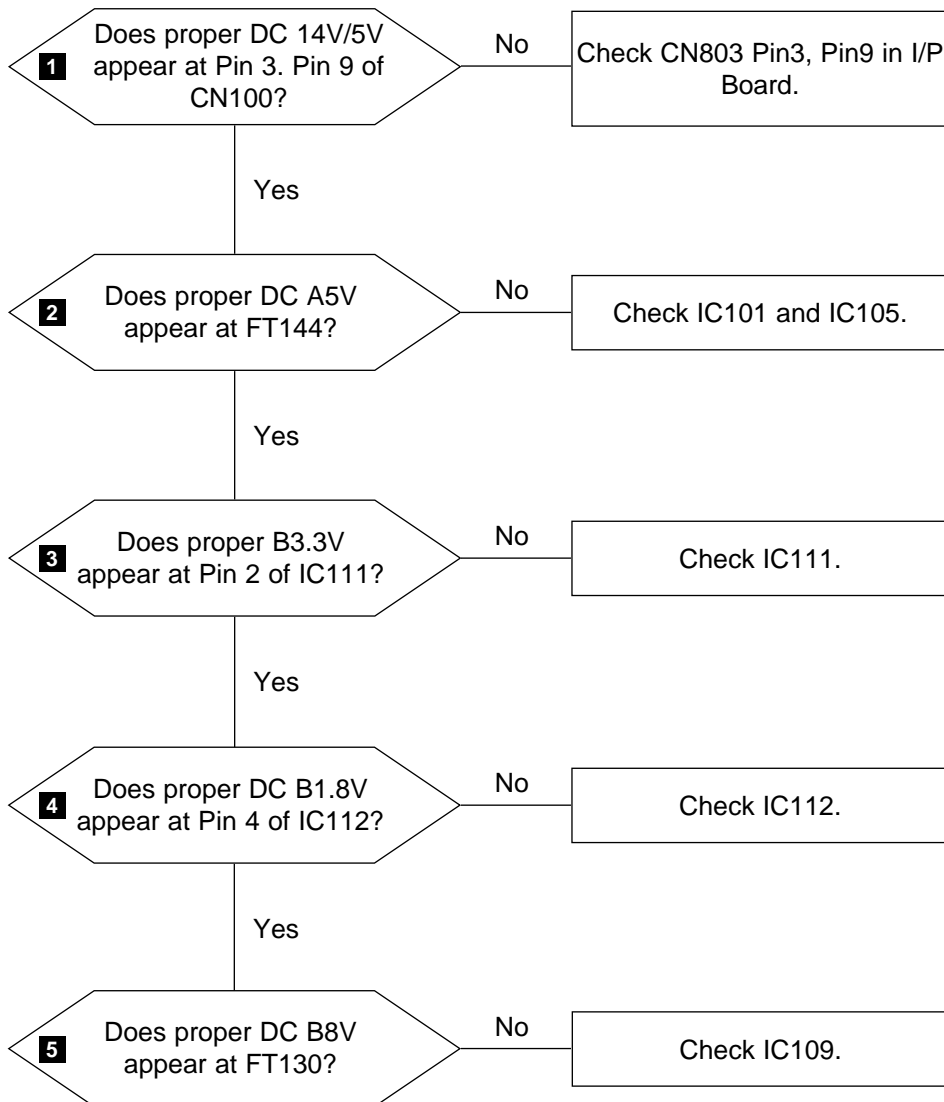


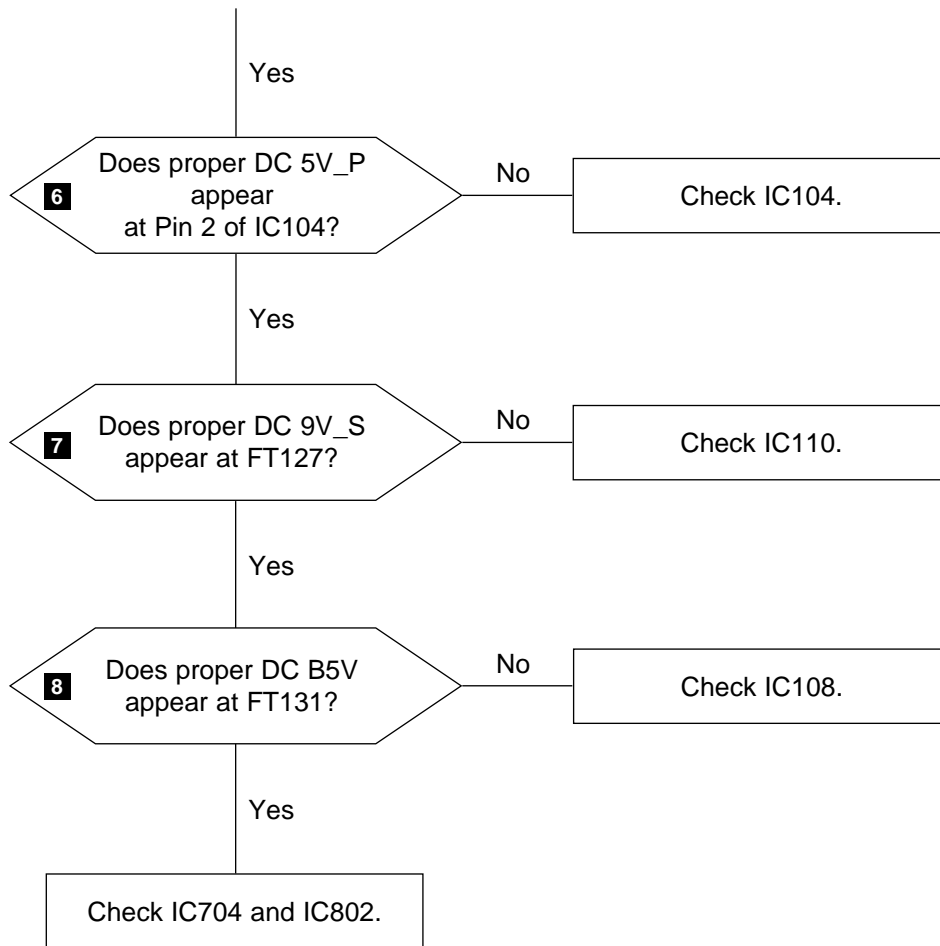
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## 5 Troubleshooting

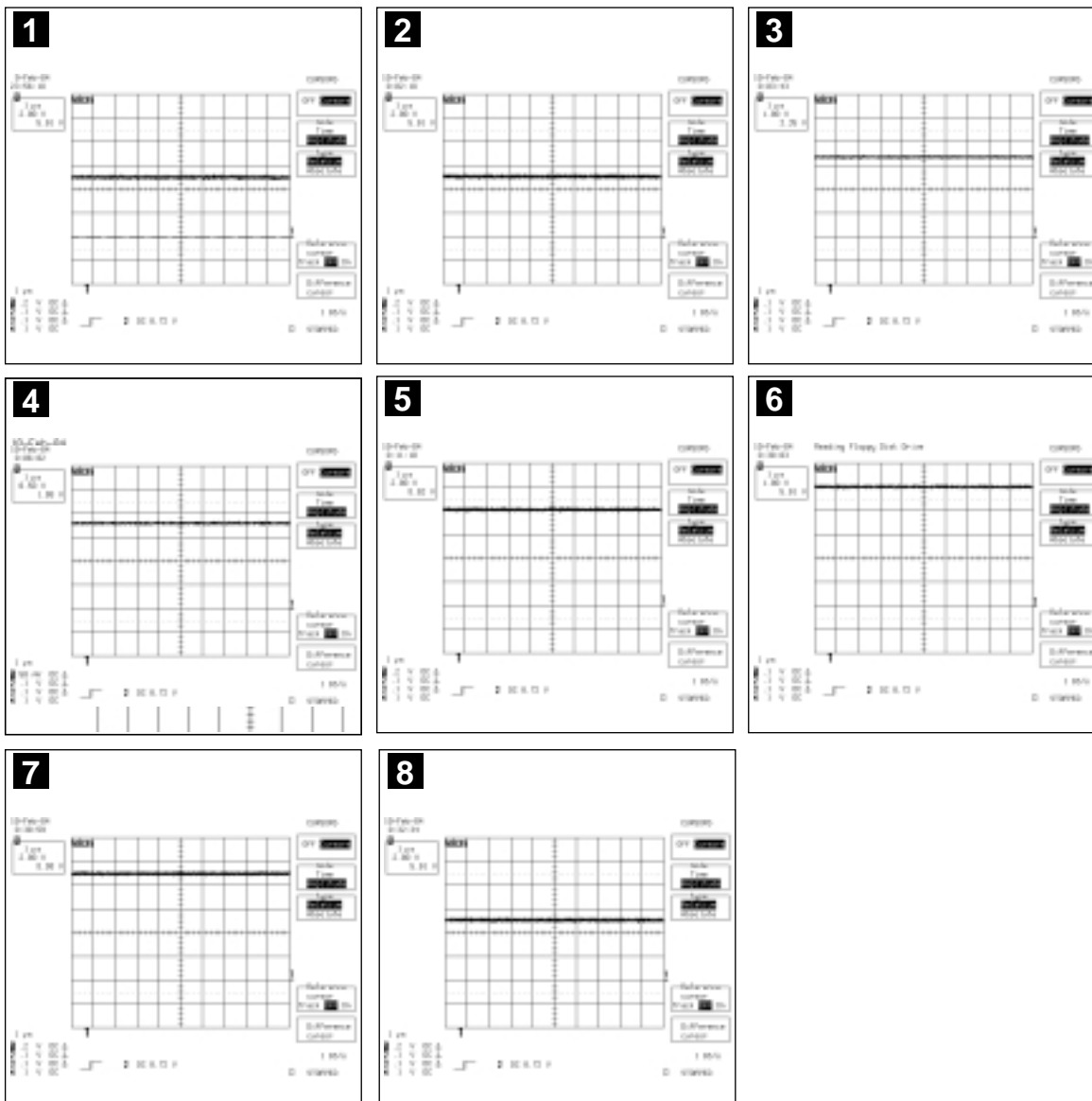
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### 5-1 No Power

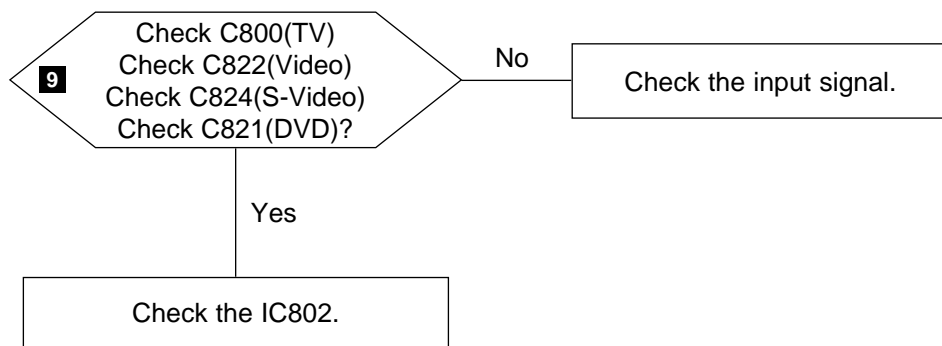




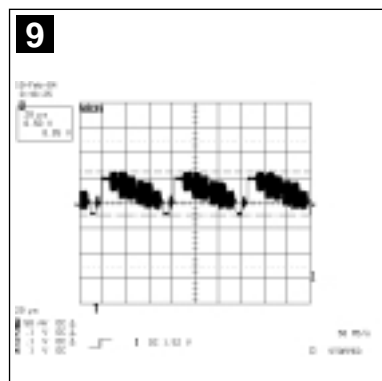
# WAVEFORMS



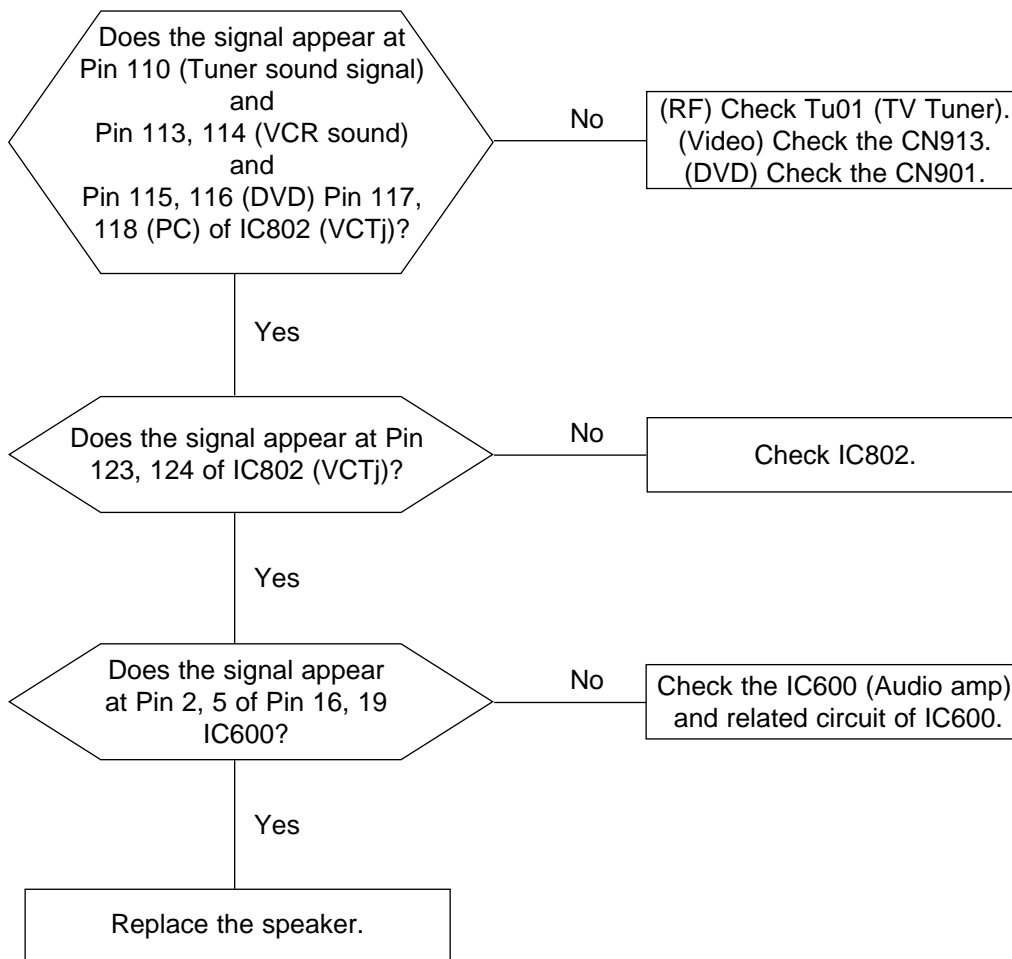
## 5-2 No Picture (TV, Video, S-Video, DVD)



### WAVEFORMS



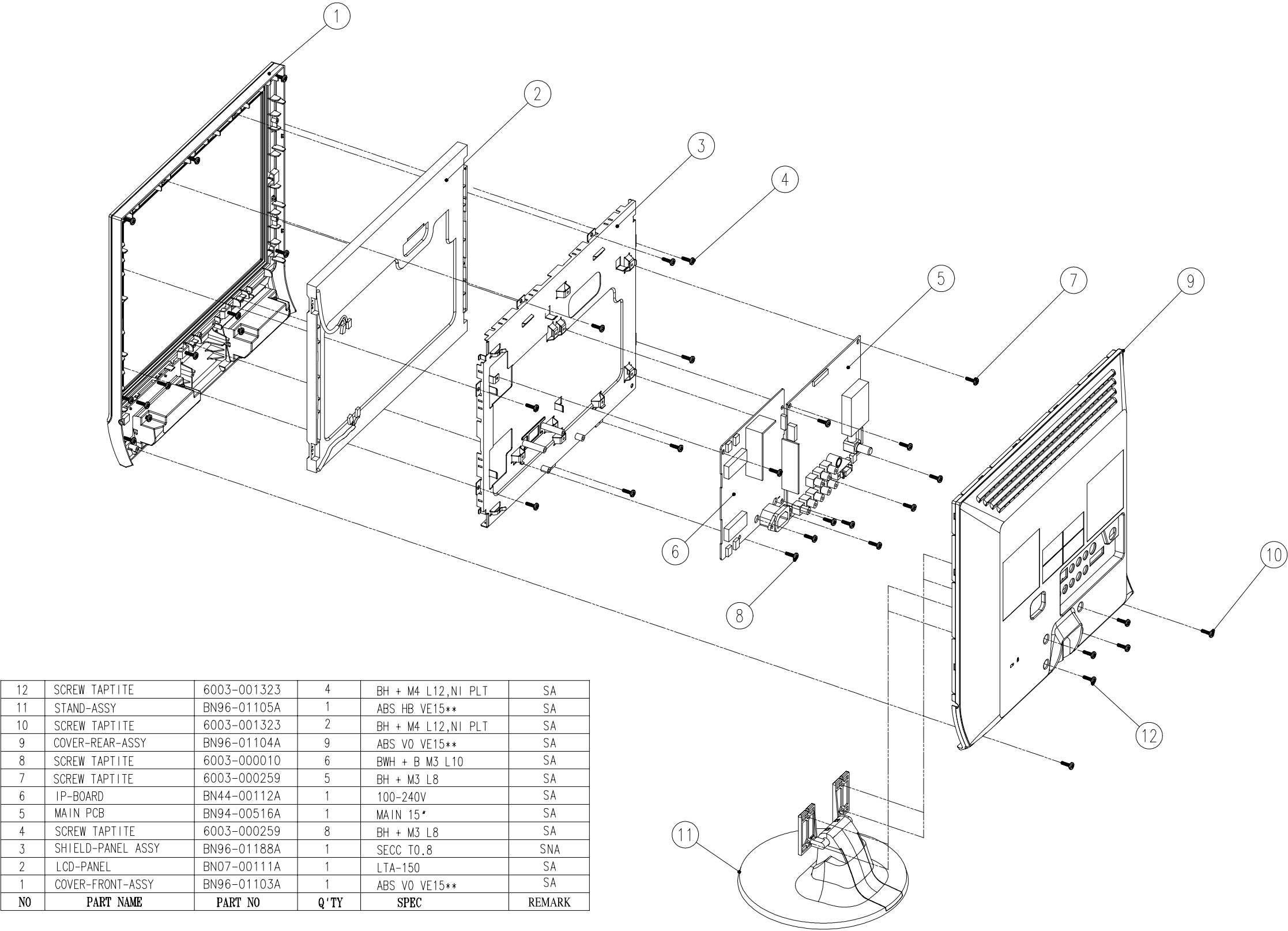
## 5-3 No Sound



## Memo

6 Exploded View and Parts List

※ You can search for updated part codes through ITSELF web site.  
URL : <http://itself.sec.samsung.co.kr>



Memo



# 7 Electrical Parts List

※ You can search for updated part codes through ITSELF web site.

URL : <http://itself.sec.samsung.co.kr/>

## 7-1 Main PCB Parts

| Level | Loc. No.    | Code No. | Description      | Specification  | Remarks |
|-------|-------------|----------|------------------|--|---------|
| 0     | VE15JO      |          |                  |  |         |
| 1     | S3-VE15JO   | -        | 2                | SEC,XH-L06   | -       |
| 3     | BN94-00516M | -        | ASSY PCB MAIN-EA | VE15UO   | SNA     |
| 4     | 0204-000442 | CIS3     | SOLVENT          | 1M-1000,C3H7OH,96,-  | SNA     |
| 4     | 0204-001527 | CIS4     | FLUX             | DF-201TVS,MIX,0.820,FLUX13%,14KG   | SNA     |
| 4     | 3711-004712 | CN100    | CONNECTOR-HEADER | BOX,9P,1R,2mm,STRAIGHT,SN  | SA      |
| 4     | 3722-000158 | CN900    | JACK-PIN         | 1P,3.4mm,SN,YEL,-  | SA      |
| 4     | 3722-002143 | CN901    | JACK-PIN         | 5P,Ni,GRN/BLU/RED/WHT/RED,STRAIGHT   | SA      |
| 4     | 3722-001734 | CN903    | JACK-VHS         | 4P,-,SN,BLK,-  | SA      |
| 4     | 3701-001294 | CN908    | CONNECTOR-DSUB   | 15P,3R,FEMALE,STRAIGHT,AUF   | SA      |
| 4     | 3722-001061 | CN909    | JACK-PHONE       | 1P,3.6PI,AG,BLK,N  | SA      |
| 4     | 2904-001196 | FT800    | FILTER-SAW AV    | 44MHZ,SIP5K,ST,16.2DB,-,42DB   | SA      |
| 4     | BN39-00519A | HARNESS  | LEAD CONNECTOR   | MONTE,U11061#28,U1CSA,20P,100mm,#26,12507HS-20,12507HS-20L,BK,SJ03-01-674      | SNA     |
| 4     | BN40-00048A | TU01     | TUNER            | TMQH6-008A,VE15UO,NTSC,181CH,45.75MHz,75 ohm,75 ohm,PHONE-JACK,ASYMM,5V,TR     | -       |
| 4     | 3722-001846 | U1913    | JACK-PIN         | 2P,8.3MM,AU,WHT/RED,-  | SA      |
| 4     | 2801-003224 | X702     | CRYSTAL-UNIT     | 32.768KHz,20ppm,28-AAV,12.5pF,   | SA      |
| 4     | BN97-00354U | MICOM    | ASSY MICOM       | VE15UO   | SA      |
| 5     | BN82-00114U | CIS      | A/S MICOM        | VE15UO   | SNA     |
| 5     | 1107-001495 | IC703    | IC-FLASH MEMORY  | AT49BV002AN-70UJ,256Kx8Bit,PLCC,32P,14x11.5mm,70ns,2.7/3.6V,-,-40to+85C,50uA,- | SA      |
| 4     | BN97-00358B | -        | ASSY SMD         | VE15UO   | SNA     |
| 5     | 3301-001145 | 15INCH   | BEAD-SMD         | 60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm                          | SNA     |
| 5     | 2402-001086 | C100     | C-AL,SMD         | 100UF,20%,16V,WT,TP,6.6X6.6X5.3  | SA      |
| 5     | 2402-000170 | C101     | C-AL,SMD         | 1uF,20%,50V,GP,TP,4.3x4.3x5.4,   | SA      |
| 5     | 2402-000170 | C102     | C-AL,SMD         | 1uF,20%,50V,GP,TP,4.3x4.3x5.4,   | SA      |
| 5     | 2203-000189 | C107     | C-CER,CHIP       | 100nF,+80-20%,25V,Y5V,TP,1608,   | SA      |
| 5     | 2402-001042 | C109     | C-AL,SMD         | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm  | SA      |
| 5     | 2402-001081 | C110     | C-AL,SMD         | 100uF,20%,25V,WT,TP,8.3x8.3x10   | SA      |
| 5     | 2402-001042 | C111     | C-AL,SMD         | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm  | SA      |
| 5     | 2402-001042 | C112     | C-AL,SMD         | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm  | SA      |
| 5     | 2402-001042 | C113     | C-AL,SMD         | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm  | SA      |
| 5     | 2402-001086 | C114     | C-AL,SMD         | 100UF,20%,16V,WT,TP,6.6X6.6X5.3  | SA      |
| 5     | 2402-000170 | C115     | C-AL,SMD         | 1uF,20%,50V,GP,TP,4.3x4.3x5.4,   | SA      |
| 5     | 2402-000176 | C116     | C-AL,SMD         | 10uF,20%,16V,GP,TP,4.3x4.3x5.4   | SA      |
| 5     | 2203-000189 | C117     | C-CER,CHIP       | 100nF,+80-20%,25V,Y5V,TP,1608,   | SA      |
| 5     | 2203-000189 | C118     | C-CER,CHIP       | 100nF,+80-20%,25V,Y5V,TP,1608,   | SA      |
| 5     | 2203-000140 | C119     | C-CER,CHIP       | 1.5nF,10%,50V,X7R,TP,1608,-  | SA      |
| 5     | 2203-000140 | C120     | C-CER,CHIP       | 1.5nF,10%,50V,X7R,TP,1608,-  | SA      |
| 5     | 2203-001656 | C121     | C-CER,CHIP       | 0.47nF,5%,50V,NP0,TP,1608  | SA      |
| 5     | 2402-000176 | C122     | C-AL,SMD         | 10uF,20%,16V,GP,TP,4.3x4.3x5.4   | SA      |
| 5     | 2402-000176 | C123     | C-AL,SMD         | 10uF,20%,16V,GP,TP,4.3x4.3x5.4   | SA      |
| 5     | 2402-000176 | C124     | C-AL,SMD         | 10uF,20%,16V,GP,TP,4.3x4.3x5.4   | SA      |
| 5     | 2402-000176 | C125     | C-AL,SMD         | 10uF,20%,16V,GP,TP,4.3x4.3x5.4   | SA      |
| 5     | 2402-000176 | C126     | C-AL,SMD         | 10uF,20%,16V,GP,TP,4.3x4.3x5.4   | SA      |
| 5     | 2402-000176 | C127     | C-AL,SMD         | 10uF,20%,16V,GP,TP,4.3x4.3x5.4   | SA      |
| 5     | 2402-000176 | C128     | C-AL,SMD         | 10uF,20%,16V,GP,TP,4.3x4.3x5.4   | SA      |
| 5     | 2402-000176 | C129     | C-AL,SMD         | 10uF,20%,16V,GP,TP,4.3x4.3x5.4   | SA      |
| 5     | 2402-000176 | C130     | C-AL,SMD         | 10uF,20%,16V,GP,TP,4.3x4.3x5.4   | SA      |
| 5     | 2203-001656 | C131     | C-CER,CHIP       | 0.47nF,5%,50V,NP0,TP,1608  | SA      |
| 5     | 2203-000140 | C132     | C-CER,CHIP       | 1.5nF,10%,50V,X7R,TP,1608,-  | SA      |
| 5     | 2203-000189 | C143     | C-CER,CHIP       | 100nF,+80-20%,25V,Y5V,TP,1608,   | SA      |
| 5     | 2203-000189 | C163     | C-CER,CHIP       | 100nF,+80-20%,25V,Y5V,TP,1608,   | SA      |
| 5     | 2203-000189 | C175     | C-CER,CHIP       | 100nF,+80-20%,25V,Y5V,TP,1608,   | SA      |
| 5     | 2203-000189 | C176     | C-CER,CHIP       | 100nF,+80-20%,25V,Y5V,TP,1608,   | SA      |
| 5     | 2402-001042 | C178     | C-AL,SMD         | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm  | SA      |
| 5     | 2203-000189 | C179     | C-CER,CHIP       | 100nF,+80-20%,25V,Y5V,TP,1608,   | SA      |
| 5     | 2203-000257 | C180     | C-CER,CHIP       | 10nF,10%,50V,X7R,TP,1608   | SA      |
| 5     | 2203-000257 | C181     | C-CER,CHIP       | 10nF,10%,50V,X7R,TP,1608   | SA      |
| 5     | 2203-000236 | C182     | C-CER,CHIP       | 0.1nF,5%,50V,C0G,TP,1608   | SA      |

# 7 Electrical Parts List

| Level | Loc. No.    | CodeNo. | Description | Specification                     | Remarks |
|-------|-------------|---------|-------------|-----------------------------------|---------|
| 5     | 2203-000189 | C183    | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2402-001044 | C184    | C-AL,SMD    | 100uF,20%,25V,GP,TP,8.3X8.3X6.3MM | SA      |
| 5     | 2409-001065 | C185    | C-ORGANIC   | 82uF,20%,16V,WT,TP,8X6.9MM,-      | SA      |
| 5     | 2203-000257 | C187    | C-CER,CHIP  | 10nF,10%,50V,X7R,TP,1608          | SA      |
| 5     | 2203-000257 | C188    | C-CER,CHIP  | 10nF,10%,50V,X7R,TP,1608          | SA      |
| 5     | 2203-000236 | C189    | C-CER,CHIP  | 0.1nF,5%,50V,C0G,TP,1608          | SA      |
| 5     | 2203-000189 | C190    | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2402-001044 | C191    | C-AL,SMD    | 100uF,20%,25V,GP,TP,8.3X8.3X6.3MM | SA      |
| 5     | 2409-001065 | C192    | C-ORGANIC   | 82uF,20%,16V,WT,TP,8X6.9MM,-      | SA      |
| 5     | 2203-000257 | C200    | C-CER,CHIP  | 10nF,10%,50V,X7R,TP,1608          | SA      |
| 5     | 2402-001042 | C201    | C-AL,SMD    | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA      |
| 5     | 2203-000491 | C202    | C-CER,CHIP  | 2.2nF,10%,50V,X7R,TP,1608,-       | SA      |
| 5     | 2203-000189 | C203    | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000888 | C204    | C-CER,CHIP  | 4.7nF,10%,50V,X7R,TP,1608         | SA      |
| 5     | 2203-000257 | C205    | C-CER,CHIP  | 10nF,10%,50V,X7R,TP,1608          | SA      |
| 5     | 2203-001607 | C206    | C-CER,CHIP  | 0.22nF,5%,50V,NP0,-,1608          | SA      |
| 5     | 2203-000972 | C207    | C-CER,CHIP  | 47nF,10%,16V,X7R,TP,1608          | SA      |
| 5     | 2203-000236 | C208    | C-CER,CHIP  | 0.1nF,5%,50V,C0G,TP,1608          | SA      |
| 5     | 2203-000236 | C209    | C-CER,CHIP  | 0.1nF,5%,50V,C0G,TP,1608          | SA      |
| 5     | 2402-001042 | C210    | C-AL,SMD    | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA      |
| 5     | 2203-000257 | C212    | C-CER,CHIP  | 10nF,10%,50V,X7R,TP,1608          | SA      |
| 5     | 2402-000170 | C213    | C-AL,SMD    | 1uF,20%,50V,GP,TP,4.3x4.3x5.4,    | SA      |
| 5     | 2203-000189 | C217    | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-005005 | C228    | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C235    | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-000140 | C286    | C-CER,CHIP  | 1.5nF,10%,50V,X7R,TP,1608,-       | SA      |
| 5     | 2203-001656 | C287    | C-CER,CHIP  | 0.47nF,5%,50V,NP0,TP,1608         | SA      |
| 5     | 2203-000140 | C314    | C-CER,CHIP  | 1.5nF,10%,50V,X7R,TP,1608,-       | SA      |
| 5     | 2203-001656 | C315    | C-CER,CHIP  | 0.47nF,5%,50V,NP0,TP,1608         | SA      |
| 5     | 2203-000140 | C316    | C-CER,CHIP  | 1.5nF,10%,50V,X7R,TP,1608,-       | SA      |
| 5     | 2203-001656 | C317    | C-CER,CHIP  | 0.47nF,5%,50V,NP0,TP,1608         | SA      |
| 5     | 2203-000140 | C318    | C-CER,CHIP  | 1.5nF,10%,50V,X7R,TP,1608,-       | SA      |
| 5     | 2203-001656 | C319    | C-CER,CHIP  | 0.47nF,5%,50V,NP0,TP,1608         | SA      |
| 5     | 2203-000140 | C334    | C-CER,CHIP  | 1.5nF,10%,50V,X7R,TP,1608,-       | SA      |
| 5     | 2203-001656 | C335    | C-CER,CHIP  | 0.47nF,5%,50V,NP0,TP,1608         | SA      |
| 5     | 2203-001656 | C337    | C-CER,CHIP  | 0.47nF,5%,50V,NP0,TP,1608         | SA      |
| 5     | 2203-000257 | C500    | C-CER,CHIP  | 10nF,10%,50V,X7R,TP,1608          | SA      |
| 5     | 2203-000257 | C502    | C-CER,CHIP  | 10nF,10%,50V,X7R,TP,1608          | SA      |
| 5     | 2402-001049 | C508    | C-AL,CHIP   | 10uF,20%,16V,GP,TP,3.3x3.3x5.4    | SA      |
| 5     | 2402-001049 | C509    | C-AL,CHIP   | 10uF,20%,16V,GP,TP,3.3x3.3x5.4    | SA      |
| 5     | 2402-001049 | C510    | C-AL,CHIP   | 10uF,20%,16V,GP,TP,3.3x3.3x5.4    | SA      |
| 5     | 2402-001049 | C511    | C-AL,CHIP   | 10uF,20%,16V,GP,TP,3.3x3.3x5.4    | SA      |
| 5     | 2402-001049 | C512    | C-AL,CHIP   | 10uF,20%,16V,GP,TP,3.3x3.3x5.4    | SA      |
| 5     | 2402-001049 | C513    | C-AL,CHIP   | 10uF,20%,16V,GP,TP,3.3x3.3x5.4    | SA      |
| 5     | 2402-001049 | C514    | C-AL,CHIP   | 10uF,20%,16V,GP,TP,3.3x3.3x5.4    | SA      |
| 5     | 2402-001049 | C515    | C-AL,CHIP   | 10uF,20%,16V,GP,TP,3.3x3.3x5.4    | SA      |
| 5     | 2402-001049 | C516    | C-AL,CHIP   | 10uF,20%,16V,GP,TP,3.3x3.3x5.4    | SA      |
| 5     | 2402-001049 | C517    | C-AL,CHIP   | 10uF,20%,16V,GP,TP,3.3x3.3x5.4    | SA      |
| 5     | 2402-001049 | C518    | C-AL,CHIP   | 10uF,20%,16V,GP,TP,3.3x3.3x5.4    | SA      |
| 5     | 2402-001049 | C519    | C-AL,CHIP   | 10uF,20%,16V,GP,TP,3.3x3.3x5.4    | SA      |
| 5     | 2203-001656 | C520    | C-CER,CHIP  | 0.47nF,5%,50V,NP0,TP,1608         | SA      |
| 5     | 2203-001656 | C521    | C-CER,CHIP  | 0.47nF,5%,50V,NP0,TP,1608         | SA      |
| 5     | 2402-000165 | C522    | C-AL,SMD    | 47uF,20%,6.3V,GP,TP,5.3x5.3x5.    | SA      |
| 5     | 2402-000165 | C523    | C-AL,SMD    | 47uF,20%,6.3V,GP,TP,5.3x5.3x5.    | SA      |
| 5     | 2203-005005 | C524    | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C525    | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C526    | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C527    | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C528    | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C529    | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C530    | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C531    | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C532    | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C533    | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C534    | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C535    | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-000041 | C540    | C-CER,CHIP  | 0.01nF,0.25PF,50V,C0G,TP,1608     | SA      |

| Level | Loc. No.    | Code No. | Description | Specification                     | Remarks |
|-------|-------------|----------|-------------|-----------------------------------|---------|
| 5     | 2203-000041 | C541     | C-CER,CHIP  | 0.01NF,0.25PF,50V,C0G,TP,1608     | SA      |
| 5     | 2203-000041 | C542     | C-CER,CHIP  | 0.01NF,0.25PF,50V,C0G,TP,1608     | SA      |
| 5     | 2203-005065 | C600     | C-CER,CHIP  | 1000nF,+80-20%,10V,Y5V,-,1608     | SA      |
| 5     | 2203-001402 | C601     | C-CER,CHIP  | 220nF,+80-20%,16V,Y5V,TP,1608     | SA      |
| 5     | 2203-001402 | C602     | C-CER,CHIP  | 220nF,+80-20%,16V,Y5V,TP,1608     | SA      |
| 5     | 2203-005065 | C603     | C-CER,CHIP  | 1000nF,+80-20%,10V,Y5V,-,1608     | SA      |
| 5     | 2402-001086 | C604     | C-AL,SMD    | 100UF,20%,16V,WT,TP,6.6X6.6X5.3   | SA      |
| 5     | 2402-000135 | C605     | C-AL,SMD    | 22uF,20%,16V,GP,TP,5.3x5.3x5.4    | SA      |
| 5     | 2402-001042 | C606     | C-AL,SMD    | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA      |
| 5     | 2203-000189 | C607     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2402-001042 | C608     | C-AL,SMD    | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA      |
| 5     | 2203-000189 | C609     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2402-000135 | C610     | C-AL,SMD    | 22uF,20%,16V,GP,TP,5.3x5.3x5.4    | SA      |
| 5     | 2203-000491 | C611     | C-CER,CHIP  | 2.2nF,10%,50V,X7R,TP,1608,-       | SA      |
| 5     | 2203-000491 | C612     | C-CER,CHIP  | 2.2nF,10%,50V,X7R,TP,1608,-       | SA      |
| 5     | 2402-001042 | C613     | C-AL,SMD    | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA      |
| 5     | 2203-001402 | C614     | C-CER,CHIP  | 220nF,+80-20%,16V,Y5V,TP,1608     | SA      |
| 5     | 2203-000189 | C615     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-001652 | C616     | C-CER,CHIP  | 470nF,+80-20%,16V,Y5V,TP,1608     | SA      |
| 5     | 2203-001402 | C617     | C-CER,CHIP  | 220nF,+80-20%,16V,Y5V,TP,1608     | SA      |
| 5     | 2203-001402 | C618     | C-CER,CHIP  | 220nF,+80-20%,16V,Y5V,TP,1608     | SA      |
| 5     | 2203-001652 | C619     | C-CER,CHIP  | 470nF,+80-20%,16V,Y5V,TP,1608     | SA      |
| 5     | 2203-000189 | C620     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-001402 | C621     | C-CER,CHIP  | 220nF,+80-20%,16V,Y5V,TP,1608     | SA      |
| 5     | 2402-001042 | C622     | C-AL,SMD    | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA      |
| 5     | 2402-001155 | C623     | C-AL,SMD    | 47UF,20%,16V,WT,TP,6.3X5.2MM      | SA      |
| 5     | 2203-005005 | C704     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C705     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C706     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C707     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2402-001042 | C708     | C-AL,SMD    | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA      |
| 5     | 2203-005005 | C709     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C710     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C711     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2402-001042 | C712     | C-AL,SMD    | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA      |
| 5     | 2203-005005 | C713     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005194 | C714     | C-CER,CHIP  | 220pF,10%,50V,X7R,TP,1608,-       | SA      |
| 5     | 2203-005194 | C715     | C-CER,CHIP  | 220pF,10%,50V,X7R,TP,1608,-       | SA      |
| 5     | 2203-005005 | C716     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2402-000135 | C717     | C-AL,SMD    | 22uF,20%,16V,GP,TP,5.3x5.3x5.4    | SA      |
| 5     | 2203-005005 | C718     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C719     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C720     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C721     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C722     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2402-000135 | C723     | C-AL,SMD    | 22uF,20%,16V,GP,TP,5.3x5.3x5.4    | SA      |
| 5     | 2203-005005 | C724     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C725     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C726     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-001086 | C727     | C-CER,CHIP  | 0.005nF,0.25pF,50V,NP0,TP,1608    | SA      |
| 5     | 2203-001086 | C728     | C-CER,CHIP  | 0.005nF,0.25pF,50V,NP0,TP,1608    | SA      |
| 5     | 2203-005005 | C729     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C730     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C731     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C732     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C733     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C734     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C735     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C736     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C737     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C738     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C739     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C740     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C741     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C742     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C743     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C744     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |

# 7 Electrical Parts List

| Level | Loc. No.    | Code No. | Description | Specification                     | Remarks |
|-------|-------------|----------|-------------|-----------------------------------|---------|
| 5     | 2203-000189 | C745     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-005005 | C747     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005194 | C748     | C-CER,CHIP  | 220pF,10%,50V,X7R,TP,1608,-       | SA      |
| 5     | 2203-005005 | C749     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C750     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005194 | C751     | C-CER,CHIP  | 220pF,10%,50V,X7R,TP,1608,-       | SA      |
| 5     | 2203-005194 | C752     | C-CER,CHIP  | 220pF,10%,50V,X7R,TP,1608,-       | SA      |
| 5     | 2203-005194 | C753     | C-CER,CHIP  | 220pF,10%,50V,X7R,TP,1608,-       | SA      |
| 5     | 2203-000189 | C754     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-005005 | C755     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C756     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C757     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C758     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C759     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-005005 | C760     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-000189 | C763     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-005005 | C764     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2402-001086 | C765     | C-AL,SMD    | 100uF,20%,16V,WT,TP,6.6X6.6X5.3   | SA      |
| 5     | 2203-000189 | C766     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2402-001042 | C767     | C-AL,SMD    | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA      |
| 5     | 2203-005005 | C768     | C-CER,CHIP  | 100nF,10%,16V,X7R,TP,1608         | SA      |
| 5     | 2203-000189 | C769     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2402-001042 | C800     | C-AL,SMD    | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA      |
| 5     | 2203-000189 | C801     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000189 | C802     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000626 | C804     | C-CER,CHIP  | 0.022nF,5%,50V,C0G,TP,1608        | SA      |
| 5     | 2203-000626 | C805     | C-CER,CHIP  | 0.022nF,5%,50V,C0G,TP,1608        | SA      |
| 5     | 2402-000176 | C806     | C-AL,SMD    | 10uF,20%,16V,GP,TP,4.3x4.3x5.4    | SA      |
| 5     | 2203-000189 | C807     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000189 | C808     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000257 | C809     | C-CER,CHIP  | 10nF,10%,50V,X7R,TP,1608          | SA      |
| 5     | 2203-000189 | C810     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000257 | C811     | C-CER,CHIP  | 10nF,10%,50V,X7R,TP,1608          | SA      |
| 5     | 2203-000257 | C812     | C-CER,CHIP  | 10nF,10%,50V,X7R,TP,1608          | SA      |
| 5     | 2203-001052 | C813     | C-CER,CHIP  | 0.56nF,10%,50V,X7R,TP,1608        | SA      |
| 5     | 2203-001052 | C814     | C-CER,CHIP  | 0.56nF,10%,50V,X7R,TP,1608        | SA      |
| 5     | 2203-001052 | C816     | C-CER,CHIP  | 0.56nF,10%,50V,X7R,TP,1608        | SA      |
| 5     | 2203-000189 | C817     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000189 | C818     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000189 | C819     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000189 | C820     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000189 | C821     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000189 | C822     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000189 | C823     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000189 | C824     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000189 | C825     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000189 | C827     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000189 | C828     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000189 | C829     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000189 | C830     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2203-000189 | C831     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2402-001006 | C833     | C-AL,SMD    | 4.7uF,20%,25V,GP,TP,3.6x6.3x3.    | SA      |
| 5     | 2402-000144 | C834     | C-AL,SMD    | 3.3uF,20%,50V,GP,TP,4.3X4.3X5.4   | SA      |
| 5     | 2402-000135 | C835     | C-AL,SMD    | 22uF,20%,16V,GP,TP,5.3x5.3x5.4    | SA      |
| 5     | 2402-000135 | C836     | C-AL,SMD    | 22uF,20%,16V,GP,TP,5.3x5.3x5.4    | SA      |
| 5     | 2402-000108 | C837     | C-AL,SMD    | 10uF,20%,16V,WT,TP,4.3x4.3x5.4    | SA      |
| 5     | 2402-001049 | C838     | C-AL,CHIP   | 10uF,20%,16V,GP,TP,3.3x3.3x5.4    | SA      |
| 5     | 2203-000189 | C839     | C-CER,CHIP  | 100nF,+80-20%,25V,Y5V,TP,1608,    | SA      |
| 5     | 2402-001006 | C840     | C-AL,SMD    | 4.7uF,20%,25V,GP,TP,3.6x6.3x3.    | SA      |
| 5     | 2402-001006 | C841     | C-AL,SMD    | 4.7uF,20%,25V,GP,TP,3.6x6.3x3.    | SA      |
| 5     | 2402-001006 | C842     | C-AL,SMD    | 4.7uF,20%,25V,GP,TP,3.6x6.3x3.    | SA      |
| 5     | 2402-001006 | C843     | C-AL,SMD    | 4.7uF,20%,25V,GP,TP,3.6x6.3x3.    | SA      |
| 5     | 2402-001006 | C844     | C-AL,SMD    | 4.7uF,20%,25V,GP,TP,3.6x6.3x3.    | SA      |
| 5     | 2402-001006 | C845     | C-AL,SMD    | 4.7uF,20%,25V,GP,TP,3.6x6.3x3.    | SA      |
| 5     | 2203-000257 | C846     | C-CER,CHIP  | 10nF,10%,50V,X7R,TP,1608          | SA      |
| 5     | 2402-000170 | C847     | C-AL,SMD    | 1uF,20%,50V,GP,TP,4.3x4.3x5.4,    | SA      |
| 5     | 2203-000236 | C900     | C-CER,CHIP  | 0.1nF,5%,50V,C0G,TP,1608          | SA      |

| Level | Loc. No.    | Code No. | Description      | Specification                          | Remarks |
|-------|-------------|----------|------------------|--|---------|
| 5     | 2203-000236 | C901     | C-CER,CHIP       | 0.1NF,5%,50V,C0G,TP,1608               | SA      |
| 5     | 2203-000815 | C902     | C-CER,CHIP       | 0.033NF,5%,50V,C0G,TP,1608             | SA      |
| 5     | 2203-000815 | C903     | C-CER,CHIP       | 0.033NF,5%,50V,C0G,TP,1608             | SA      |
| 5     | 2203-000815 | C904     | C-CER,CHIP       | 0.033NF,5%,50V,C0G,TP,1608             | SA      |
| 5     | 2203-000815 | C905     | C-CER,CHIP       | 0.033NF,5%,50V,C0G,TP,1608             | SA      |
| 5     | 2203-000815 | C906     | C-CER,CHIP       | 0.033NF,5%,50V,C0G,TP,1608             | SA      |
| 5     | 2203-000236 | C907     | C-CER,CHIP       | 0.1NF,5%,50V,C0G,TP,1608               | SA      |
| 5     | 2203-000236 | C908     | C-CER,CHIP       | 0.1NF,5%,50V,C0G,TP,1608               | SA      |
| 5     | 2203-000697 | C909     | C-CER,CHIP       | 0.002NF,0.25PF,50V,C0G,TP,1608         | SA      |
| 5     | 2203-000189 | C910     | C-CER,CHIP       | 100nF,+80-20%,25V,Y5V,TP,1608,         | SA      |
| 5     | 2203-000783 | C911     | C-CER,CHIP       | 0.33NF,5%,50V,C0G,TP,1608              | SA      |
| 5     | 2203-000783 | C913     | C-CER,CHIP       | 0.33NF,5%,50V,C0G,TP,1608              | SA      |
| 5     | 2203-000697 | C915     | C-CER,CHIP       | 0.002NF,0.25PF,50V,C0G,TP,1608         | SA      |
| 5     | 2203-000697 | C916     | C-CER,CHIP       | 0.002NF,0.25PF,50V,C0G,TP,1608         | SA      |
| 5     | 2203-000697 | C917     | C-CER,CHIP       | 0.002NF,0.25PF,50V,C0G,TP,1608         | SA      |
| 5     | 2203-000189 | C918     | C-CER,CHIP       | 100nF,+80-20%,25V,Y5V,TP,1608,         | SA      |
| 5     | 2203-000189 | C919     | C-CER,CHIP       | 100nF,+80-20%,25V,Y5V,TP,1608,         | SA      |
| 5     | 2203-000189 | C920     | C-CER,CHIP       | 100nF,+80-20%,25V,Y5V,TP,1608,         | SA      |
| 5     | 2402-000170 | C921     | C-AL,SMD         | 1uF,20%,50V,GP,TP,4.3x4.3x5.4,         | SA      |
| 5     | 2203-000236 | C922     | C-CER,CHIP       | 0.1NF,5%,50V,C0G,TP,1608               | SA      |
| 5     | 2203-000236 | C931     | C-CER,CHIP       | 0.1NF,5%,50V,C0G,TP,1608               | SA      |
| 5     | 2203-000236 | C932     | C-CER,CHIP       | 0.1NF,5%,50V,C0G,TP,1608               | SA      |
| 5     | 2203-000236 | C933     | C-CER,CHIP       | 0.1NF,5%,50V,C0G,TP,1608               | SA      |
| 5     | 2203-000815 | C934     | C-CER,CHIP       | 0.033NF,5%,50V,C0G,TP,1608             | SA      |
| 5     | 2402-000135 | C935     | C-AL,SMD         | 22uF,20%,16V,GP,TP,5.3x5.3x5.4         | SA      |
| 5     | 2203-000257 | C936     | C-CER,CHIP       | 10nF,10%,50V,X7R,TP,1608               | SA      |
| 5     | 2402-000135 | C937     | C-AL,SMD         | 22uF,20%,16V,GP,TP,5.3x5.3x5.4         | SA      |
| 5     | 2203-000257 | C938     | C-CER,CHIP       | 10nF,10%,50V,X7R,TP,1608               | SA      |
| 5     | 3711-005292 | CN600    | CONNECTOR-HEADER | BOX,3P,1R,2MM,SMD-A,SN,WHT             | SA      |
| 5     | 3711-005291 | CN601    | CONNECTOR-HEADER | BOX,2P,1R,2MM,SMD-A,SN,WHT             | SA      |
| 5     | 3711-005472 | CN703    | CONNECTOR-HEADER | BOX,20P,1R,1.25mm,SMD-A,Sn+Pb,IVR      | SA      |
| 5     | 3711-002046 | CN905    | CONNECTOR-HEADER | BOX,12P,1R,1.25MM,SMD-S,SN,WHT         | SA      |
| 5     | 3711-005471 | CN907    | CONNECTOR-HEADER | BOX,12P,1R,1.25mm,SMD-A,Sn+Pb,IVR      | SA      |
| 5     | 0402-000553 | D101     | DIODE-RECTIFIER  | SS24,40V,2.0A,DO-214AA                 | SA      |
| 5     | 0402-000553 | D102     | DIODE-RECTIFIER  | SS24,40V,2.0A,DO-214AA                 | SA      |
| 5     | 0401-001056 | D200     | DIODE-SWITCHING  | MMBD4148SE,100V,200MA,SOT-23,TP        | SA      |
| 5     | 0403-001425 | D201     | DIODE-ZENER      | BZX84C33,31-35V,350MW,SOT-23,TP        | SA      |
| 5     | 0401-001056 | D600     | DIODE-SWITCHING  | MMBD4148SE,100V,200MA,SOT-23,TP        | SA      |
| 5     | 0407-000123 | D601     | DIODE-ARRAY      | DAN202K,80V,100MA,CA2-3,SOT-23,TP      | SA      |
| 5     | 0403-001435 | D602     | DIODE-ZENER      | QZX363C5V6,5.32-5.88V,200MW,SOT-363,TP | SA      |
| 5     | 0403-001052 | D603     | DIODE-ZENER      | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP       | SA      |
| 5     | 0403-001052 | D604     | DIODE-ZENER      | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP       | SA      |
| 5     | 0401-001056 | D701     | DIODE-SWITCHING  | MMBD4148SE,100V,200MA,SOT-23,TP        | SA      |
| 5     | 0401-001056 | D702     | DIODE-SWITCHING  | MMBD4148SE,100V,200MA,SOT-23,TP        | SA      |
| 5     | 0401-001056 | D800     | DIODE-SWITCHING  | MMBD4148SE,100V,200MA,SOT-23,TP        | SA      |
| 5     | 0403-001052 | D900     | DIODE-ZENER      | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP       | SA      |
| 5     | 0403-001052 | D901     | DIODE-ZENER      | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP       | SA      |
| 5     | 0403-001052 | D902     | DIODE-ZENER      | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP       | SA      |
| 5     | 0403-001052 | D903     | DIODE-ZENER      | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP       | SA      |
| 5     | 0403-000579 | D904     | DIODE-ZENER      | BZX84C5V1,4.8-5.4V,200MW,SOT-23,TP     | SA      |
| 5     | 0403-001052 | D905     | DIODE-ZENER      | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP       | SA      |
| 5     | 0403-001052 | D906     | DIODE-ZENER      | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP       | SA      |
| 5     | 0407-000123 | D907     | DIODE-ARRAY      | DAN202K,80V,100MA,CA2-3,SOT-23,TP      | SA      |
| 5     | 0401-001056 | D908     | DIODE-SWITCHING  | MMBD4148SE,100V,200MA,SOT-23,TP        | SA      |
| 5     | 0401-001056 | D909     | DIODE-SWITCHING  | MMBD4148SE,100V,200MA,SOT-23,TP        | SA      |
| 5     | 0401-001056 | D910     | DIODE-SWITCHING  | MMBD4148SE,100V,200MA,SOT-23,TP        | SA      |
| 5     | 0403-001052 | D911     | DIODE-ZENER      | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP       | SA      |
| 5     | 0401-001056 | D912     | DIODE-SWITCHING  | MMBD4148SE,100V,200MA,SOT-23,TP        | SA      |
| 5     | 0401-001056 | D913     | DIODE-SWITCHING  | MMBD4148SE,100V,200MA,SOT-23,TP        | SA      |
| 5     | 0403-001052 | D914     | DIODE-ZENER      | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP       | SA      |
| 5     | 0401-001056 | D915     | DIODE-SWITCHING  | MMBD4148SE,100V,200MA,SOT-23,TP        | SA      |
| 5     | 0403-000579 | D916     | DIODE-ZENER      | BZX84C5V1,4.8-5.4V,200MW,SOT-23,TP     | SA      |
| 5     | 0403-000579 | D917     | DIODE-ZENER      | BZX84C5V1,4.8-5.4V,200MW,SOT-23,TP     | SA      |
| 5     | 0403-000579 | D918     | DIODE-ZENER      | BZX84C5V1,4.8-5.4V,200MW,SOT-23,TP     | SA      |
| 5     | 0403-000579 | D919     | DIODE-ZENER      | BZX84C5V1,4.8-5.4V,200MW,SOT-23,TP     | SA      |
| 5     | 0403-000579 | D920     | DIODE-ZENER      | BZX84C5V1,4.8-5.4V,200MW,SOT-23,TP     | SA      |
| 5     | 0403-001052 | D921     | DIODE-ZENER      | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP       | SA      |

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| Level | Loc. No.    | Code No. | Description        | Specification   | Remarks |
|-------|-------------|----------|--------------------|---|---------|
| 5     | 0403-001052 | D922     | DIODE-ZENER        | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP  | SA      |
| 5     | 0403-001052 | D923     | DIODE-ZENER        | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP  | SA      |
| 5     | 0403-001052 | D924     | DIODE-ZENER        | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP  | SA      |
| 5     | 0403-001052 | D925     | DIODE-ZENER        | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP  | SA      |
| 5     | 0403-001052 | D926     | DIODE-ZENER        | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP  | SA      |
| 5     | 0403-001052 | D927     | DIODE-ZENER        | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP  | SA      |
| 5     | 0403-000579 | D928     | DIODE-ZENER        | BZX84C5V1,4.8-5.4V,200MW,SOT-23,TP  | SA      |
| 5     | 0403-001052 | D930     | DIODE-ZENER        | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP  | SA      |
| 5     | 0403-001052 | D932     | DIODE-ZENER        | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP  | SA      |
| 5     | 0403-001052 | D934     | DIODE-ZENER        | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP  | SA      |
| 5     | 0403-001052 | D936     | DIODE-ZENER        | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP  | SA      |
| 5     | 0403-001052 | D940     | DIODE-ZENER        | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP  | SA      |
| 5     | 0403-001052 | D941     | DIODE-ZENER        | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP  | SA      |
| 5     | 0403-001052 | D942     | DIODE-ZENER        | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP  | SA      |
| 5     | 0403-001048 | D944     | DIODE-ZENER        | BZX84C16,15.3-17.1V,225MW,SOT-23,TP   | SA      |
| 5     | 0403-001052 | D945     | DIODE-ZENER        | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP  | SA      |
| 5     | 0403-001052 | D946     | DIODE-ZENER        | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP  | SA      |
| 5     | 0403-001052 | D947     | DIODE-ZENER        | RD8.2MB,7.7-8.7V,200MW,SOT-23,TP  | SA      |
| 5     | 0401-001056 | D948     | DIODE-SWITCHING    | MMBD4148SE,100V,200MA,SOT-23,TP   | SA      |
| 5     | 0401-001056 | D949     | DIODE-SWITCHING    | MMBD4148SE,100V,200MA,SOT-23,TP   | SA      |
| 5     | 0403-000579 | D950     | DIODE-ZENER        | BZX84C5V1,4.8-5.4V,200MW,SOT-23,TP  | SA      |
| 5     | 0401-001056 | D951     | DIODE-SWITCHING    | MMBD4148SE,100V,200MA,SOT-23,TP   | SA      |
| 5     | 0401-001056 | D952     | DIODE-SWITCHING    | MMBD4148SE,100V,200MA,SOT-23,TP   | SA      |
| 5     | 0401-001056 | D953     | DIODE-SWITCHING    | MMBD4148SE,100V,200MA,SOT-23,TP   | SA      |
| 5     | 0401-001056 | D954     | DIODE-SWITCHING    | MMBD4148SE,100V,200MA,SOT-23,TP   | SA      |
| 5     | 0401-001056 | D955     | DIODE-SWITCHING    | MMBD4148SE,100V,200MA,SOT-23,TP   | SA      |
| 5     | 0401-001056 | D956     | DIODE-SWITCHING    | MMBD4148SE,100V,200MA,SOT-23,TP   | SA      |
| 5     | 0401-001056 | D957     | DIODE-SWITCHING    | MMBD4148SE,100V,200MA,SOT-23,TP   | SA      |
| 5     | 3301-001145 | FT100    | BEAD-SMD           | 60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohmSNA                        |         |
| 5     | 3301-001145 | FT101    | BEAD-SMD           | 60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohmSNA                        |         |
| 5     | 2901-001114 | FT104    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT105    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT106    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT107    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT108    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT109    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 3301-001145 | FT11     | BEAD-SMD           | 60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohmSNA                        |         |
| 5     | 2901-001114 | FT110    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT111    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT112    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT113    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 3301-001145 | FT118    | BEAD-SMD           | 60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohmSNA                        |         |
| 5     | 3301-001145 | FT125    | BEAD-SMD           | 60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohmSNA                        |         |
| 5     | 3301-001145 | FT126    | BEAD-SMD           | 60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohmSNA                        |         |
| 5     | 3301-001145 | FT127    | BEAD-SMD           | 60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohmSNA                        |         |
| 5     | BN27-00009A | FT128    | COIL CHOKE         | SMD12X12X6,EOS,33UH,15%,-,0.125Y MAX,2A,DR10X5.0MM,18.5TS,12X12X6,1.8MM,1UEW 0. | SA      |
| 5     | 3301-001145 | FT130    | BEAD-SMD           | 60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohmSNA                        |         |
| 5     | 2703-001778 | FT131    | INDUCTOR-SMD       | 3.3uH,20%,3225  | SA      |
| 5     | 3301-001145 | FT144    | BEAD-SMD           | 60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohmSNA                        |         |
| 5     | BN27-00009A | FT145    | COIL CHOKE         | SMD12X12X6,EOS,33UH,15%,-,0.125Y MAX,2A,DR10X5.0MM,18.5TS,12X12X6,1.8MM,1UEW 0. | SA      |
| 5     | 3301-001145 | FT200    | BEAD-SMD           | 60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohmSNA                        |         |
| 5     | 2901-001114 | FT500    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT501    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT701    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT702    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT703    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT704    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT705    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT706    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT708    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT709    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT710    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT801    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 2901-001114 | FT802    | FILTER-EMI SMD     | 25VDC,2.0ADC,-,100nF,3.2x1.6x1  | SA      |
| 5     | 0505-001170 | IC100    | FET-SILICON        | SI9933ADY-T1,P,-20V,3.4A,0.06ohm,2W,SO-8  | SA      |
| 5     | 1203-002842 | IC101    | IC-POSI.FIXED REG. | AP1117D-33A,TO-252,3P,6.7X5.6MM,PLASTIC,3.235/3.365V,-,0TO+150C,1A,-,TP         | SA      |
| 5     | 0505-001170 | IC102    | FET-SILICON        | SI9933ADY-T1,P,-20V,3.4A,0.06ohm,2W,SO-8  | SA      |

| Level | Loc. No.    | Code No. | Description        | Specification   | Remarks |
|-------|-------------|----------|--------------------|---|---------|
| 5     | 1203-002708 | IC104    | IC-POSI.FIXED REG. | 1085,TO-263,3P,340MIL,PLASTIC,3.27/3.33V,-,40TO+125C,3A,-,TP                  | SA      |
| 5     | 1203-002844 | IC105    | IC-POSI.FIXED REG. | AP1117D-18A,TO-252-3L,3P,6.7X5.6MM,PLASTIC,1.764/1.836V,-,0TO+150C,1A,-,TP    | SA      |
| 5     | 1203-003015 | IC108    | IC-DC/DC CONVERTER | MP1410ES,SOIC,8P,4.9X3.9mm,PLASTIC,2.5/5V,-,20to+85C,2A,-,TP                  | SA      |
| 5     | 1203-001816 | IC109    | IC-POSI.FIXED REG. | 78M08,TO-252,3P,-,PLASTIC,7.7/8.3V,1.0W,-40TO+85C,0.5A,-,TP                   | SA      |
| 5     | 1203-003015 | IC110    | IC-DC/DC CONVERTER | MP1410ES,SOIC,8P,4.9X3.9mm,PLASTIC,2.5/5V,-,20to+85C,2A,-,TP                  | SA      |
| 5     | 1203-002842 | IC111    | IC-POSI.FIXED REG. | AP1117D-33A,TO-252,3P,6.7X5.6MM,PLASTIC,3.235/3.365V,-,0TO+150C,1A,-,TP       | SA      |
| 5     | 1203-002844 | IC112    | IC-POSI.FIXED REG. | AP1117D-18A,TO-252-3L,3P,6.7X5.6MM,PLASTIC,1.764/1.836V,-,0TO+150C,1A,-,TP    | SA      |
| 5     | 1001-001082 | IC500    | IC-VIDEO SWITCH    | BA7657F,-,SOP,24P,300MIL,SINGL  | SA      |
| 5     | 1001-001082 | IC501    | IC-VIDEO SWITCH    | BA7657F,-,SOP,24P,300MIL,SINGL  | SA      |
| 5     | 1201-001980 | IC600    | IC-AUDIO AMP       | TDA7266D,SO,20P,16X11.1MM,-,26DB,PLASTIC,12V,25W,0TO+70C,-,TP                 | SA      |
| 5     | 1201-001495 | IC601    | IC-AUDIO AMP       | 7050,SOP,8P,150MIL,DUAL,26DB,PLASTIC,6V,0.25W,-,40DB,-,20NA,-                 | SA      |
| 5     | 3704-000249 | IC702    | SOCKET-IC          | 32P,PLCC,SN,1.27mm  | SA      |
| 5     | 1003-001713 | IC704    | IC-LCD CONTROLLER  | GM2221,PQFP,208P,-,TR,PLASTIC,3.3V,0to+70C,-,TP                               | SA      |
| 5     | 1103-001314 | IC705    | IC-EEPROM          | 24C16,2Kx8,SOP,8P,5x4mm,2.7/5.5V,-40to+85C                                    | SA      |
| 5     | 0909-001036 | IC706    | IC-REAL TIME CLOCK | DS1337S,-,SO,8P,150MIL,400KHZ,TP,CMOS,PLASTIC,3.3V,-,40TO+85C,-,TP            | SA      |
| 5     | 1203-001814 | IC801    | IC-VOL. DETECTOR   | 7025,SOT-89,4P,98MIL,PLASTIC,-,500MW,-30TO+75C,-,2.5V,TP                      | SA      |
| 5     | 3704-000249 | IC803    | SOCKET-IC          | 32P,PLCC,SN,1.27mm  | SA      |
| 5     | 1103-001314 | IC805    | IC-EEPROM          | 24C16,2Kx8,SOP,8P,5x4mm,2.7/5.5V,-40to+85C                                    | SA      |
| 5     | 1103-000129 | IC900    | IC-EEPROM          | 24C02,256x8,SOP,8P,5x4mm,4.5/5.5V,0to+70C                                     | SA      |
| 5     | 0801-002716 | IC902    | IC-CMOS LOGIC      | 74LCX157,MULTIPLEXER,SOIC,16P,150MIL,QUAD,TP,PLASTIC,-,0V,-40TO+85C,-,0V,10UA | SA      |
| 5     | 0801-002267 | IC903    | IC-CMOS LOGIC      | 74LCX14,-,SOIC,14P,150MIL,-,TP,-,3.6V,-40TO+85C,-,5.5V,-,24MA                 | SA      |
| 5     | 2703-002327 | L200     | INDUCTOR-SMD       | 3.9uH,5%,3225   | SA      |
| 5     | 2703-000417 | L201     | INDUCTOR-SMD       | 220uH,5%,3225   | SA      |
| 5     | 2703-001426 | L202     | INDUCTOR-SMD       | 680uH,20%,7070  | SA      |
| 5     | 2703-000392 | L801     | INDUCTOR-SMD       | 10uH,5%,4532  | SA      |
| 5     | 2703-000222 | L802     | INDUCTOR-SMD       | 560nH,10%,2012  | SA      |
| 5     | 2703-000185 | L803     | INDUCTOR-SMD       | 3.3uH,10%,2012  | SA      |
| 5     | 2703-000185 | L804     | INDUCTOR-SMD       | 3.3uH,10%,2012  | SA      |
| 5     | 2703-000398 | L900     | INDUCTOR-SMD       | 10uH,10%,3225   | SA      |
| 5     | 2703-000398 | L901     | INDUCTOR-SMD       | 10uH,10%,3225   | SA      |
| 5     | BN41-00449A | MP1.0    | PCB MAIN           | VE15UO,FR4,4,1.6,VE15   | SNA     |
| 5     | 3301-001145 | NT       | BEAD-SMD           | 60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm                         | SNA     |
| 5     | 0501-002080 | Q100     | TR-SMALL SIGNAL    | 2SC2412K,NPN,200mW,SC-59,TP,120-270   | SA      |
| 5     | 0501-002080 | Q101     | TR-SMALL SIGNAL    | 2SC2412K,NPN,200mW,SC-59,TP,120-270   | SA      |
| 5     | 0501-002080 | Q104     | TR-SMALL SIGNAL    | 2SC2412K,NPN,200mW,SC-59,TP,120-270   | SA      |
| 5     | 0501-000342 | Q200     | TR-SMALL SIGNAL    | KSC1623-Y,NPN,200mW,SOT-23,TP,135-270   | SA      |
| 5     | 0501-000342 | Q600     | TR-SMALL SIGNAL    | KSC1623-Y,NPN,200mW,SOT-23,TP,135-270   | SA      |
| 5     | 0501-000342 | Q601     | TR-SMALL SIGNAL    | KSC1623-Y,NPN,200mW,SOT-23,TP,135-270   | SA      |
| 5     | 0501-000342 | Q602     | TR-SMALL SIGNAL    | KSC1623-Y,NPN,200mW,SOT-23,TP,135-270   | SA      |
| 5     | 0501-000342 | Q603     | TR-SMALL SIGNAL    | KSC1623-Y,NPN,200mW,SOT-23,TP,135-270   | SA      |
| 5     | 0501-000342 | Q800     | TR-SMALL SIGNAL    | KSC1623-Y,NPN,200mW,SOT-23,TP,135-270   | SA      |
| 5     | 0501-000280 | Q801     | TR-SMALL SIGNAL    | KSA1182,PNP,150mW,SOT-23,TP,70  | SA      |
| 5     | 0501-000280 | Q802     | TR-SMALL SIGNAL    | KSA1182,PNP,150mW,SOT-23,TP,70  | SA      |
| 5     | 0501-000280 | Q803     | TR-SMALL SIGNAL    | KSA1182,PNP,150mW,SOT-23,TP,70  | SA      |
| 5     | 0501-000280 | Q804     | TR-SMALL SIGNAL    | KSA1182,PNP,150mW,SOT-23,TP,70  | SA      |
| 5     | 0501-002080 | Q805     | TR-SMALL SIGNAL    | 2SC2412K,NPN,200mW,SC-59,TP,120-270   | SA      |
| 5     | 0505-000110 | Q806     | FET-SILICON        | 2N7002,N,60V,115mA,7.5ohm,0.3W,SOT-23   | SA      |
| 5     | 0505-000110 | Q807     | FET-SILICON        | 2N7002,N,60V,115mA,7.5ohm,0.3W,SOT-23   | SA      |
| 5     | 0501-000344 | Q809     | TR-SMALL SIGNAL    | KSC1623-G,NPN,200mW,SOT-23,TP   | SA      |
| 5     | 0505-000110 | Q810     | FET-SILICON        | 2N7002,N,60V,115mA,7.5ohm,0.3W,SOT-23   | SA      |
| 5     | 0505-000110 | Q811     | FET-SILICON        | 2N7002,N,60V,115mA,7.5ohm,0.3W,SOT-23   | SA      |
| 5     | 0501-002080 | Q900     | TR-SMALL SIGNAL    | 2SC2412K,NPN,200mW,SC-59,TP,120-270   | SA      |
| 5     | 0501-002080 | Q901     | TR-SMALL SIGNAL    | 2SC2412K,NPN,200mW,SC-59,TP,120-270   | SA      |
| 5     | 0501-000342 | Q902     | TR-SMALL SIGNAL    | KSC1623-Y,NPN,200mW,SOT-23,TP,135-270   | SA      |
| 5     | 2007-000090 | R114     | R-CHIP             | 10Kohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000939 | R115     | R-CHIP             | 47Kohm,1%,1/10W,TP,1608   | SA      |
| 5     | 2007-000102 | R116     | R-CHIP             | 100Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000102 | R120     | R-CHIP             | 100Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000102 | R121     | R-CHIP             | 100Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074 | R122     | R-CHIP             | 100ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000102 | R127     | R-CHIP             | 100Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000090 | R128     | R-CHIP             | 10Kohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000090 | R165     | R-CHIP             | 10Kohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000074 | R166     | R-CHIP             | 100ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-007004 | R167     | R-CHIP             | 12Kohm,1%,1/10W,TP,1608   | SA      |
| 5     | 2007-000965 | R168     | R-CHIP             | 5.1Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000708 | R169     | R-CHIP             | 3.9Kohm,1%,1/10W,TP,1608  | SA      |

# 7 Electrical Parts List

| Level | Loc. No.     | Code No. | Description | Specification            | Remarks |
|-------|--------------|----------|-------------|--------------------------|---------|
| 5     | 2007-000074  | R170     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-0000910 | R171     | R-CHIP      | 43Kohm,1%,1/10W,TP,1608  | SA      |
| 5     | 2007-0000965 | R172     | R-CHIP      | 5.1Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-001068  | R173     | R-CHIP      | 6.8Kohm,1%,1/10W,TP,1608 | SA      |
| 5     | 2007-000090  | R174     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000076  | R200     | R-CHIP      | 330ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000102  | R201     | R-CHIP      | 100Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000094  | R202     | R-CHIP      | 22Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074  | R203     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074  | R204     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000070  | R205     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070  | R207     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070  | R208     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070  | R209     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-001179  | R210     | R-CHIP      | 8.2Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000102  | R211     | R-CHIP      | 100Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000070  | R311     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000107  | R509     | R-CHIP      | 470Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000107  | R510     | R-CHIP      | 470Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000080  | R511     | R-CHIP      | 2Kohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000080  | R512     | R-CHIP      | 2Kohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000100  | R513     | R-CHIP      | 68Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000100  | R514     | R-CHIP      | 68Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000090  | R515     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000090  | R516     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074  | R520     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074  | R521     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074  | R522     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000084  | R600     | R-CHIP      | 4.7Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000084  | R601     | R-CHIP      | 4.7Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000074  | R602     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074  | R603     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000078  | R604     | R-CHIP      | 1Kohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000090  | R605     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000090  | R606     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000084  | R607     | R-CHIP      | 4.7Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000090  | R608     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000084  | R609     | R-CHIP      | 4.7Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000090  | R610     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000078  | R611     | R-CHIP      | 1Kohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000093  | R612     | R-CHIP      | 20Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000093  | R613     | R-CHIP      | 20Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000090  | R614     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000090  | R615     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000090  | R616     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-002906  | R617     | R-CHIP      | 200Kohm,1%,1/10W,TP,1608 | SA      |
| 5     | 2007-001044  | R618     | R-CHIP      | 56ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000078  | R619     | R-CHIP      | 1Kohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000309  | R620     | R-CHIP      | 10ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000309  | R621     | R-CHIP      | 10ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-001044  | R622     | R-CHIP      | 56ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000078  | R623     | R-CHIP      | 1Kohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000081  | R624     | R-CHIP      | 2.7Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000081  | R625     | R-CHIP      | 2.7Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000074  | R703     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000090  | R704     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074  | R705     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000090  | R706     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074  | R707     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074  | R709     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074  | R710     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074  | R711     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074  | R712     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000090  | R713     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074  | R714     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074  | R715     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074  | R716     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |



| Level | Loc. No.    | Code No. | Description | Specification            | Remarks |
|-------|-------------|----------|-------------|--------------------------|---------|
| 5     | 2007-000074 | R717     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074 | R718     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074 | R719     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074 | R720     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000078 | R725     | R-CHIP      | 1Kohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000074 | R727     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074 | R728     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074 | R729     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000072 | R732     | R-CHIP      | 47ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000072 | R733     | R-CHIP      | 47ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000070 | R734     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-001164 | R735     | R-CHIP      | 75ohm,1%,1/10W,TP,1608   | SA      |
| 5     | 2007-001164 | R736     | R-CHIP      | 75ohm,1%,1/10W,TP,1608   | SA      |
| 5     | 2007-000608 | R737     | R-CHIP      | 240ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000052 | R738     | R-CHIP      | 10Kohm,1%,1/10W,TP,1608  | SA      |
| 5     | 2007-000052 | R739     | R-CHIP      | 10Kohm,1%,1/10W,TP,1608  | SA      |
| 5     | 2007-000072 | R740     | R-CHIP      | 47ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-001164 | R741     | R-CHIP      | 75ohm,1%,1/10W,TP,1608   | SA      |
| 5     | 2007-000090 | R742     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000090 | R745     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000090 | R746     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000090 | R747     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000090 | R748     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000090 | R749     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000077 | R750     | R-CHIP      | 470ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000077 | R751     | R-CHIP      | 470ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074 | R752     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074 | R753     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074 | R770     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074 | R771     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074 | R772     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000239 | R773     | R-CHIP      | 1.5Kohm,1%,1/10W,TP,1608 | SA      |
| 5     | 2007-000239 | R774     | R-CHIP      | 1.5Kohm,1%,1/10W,TP,1608 | SA      |
| 5     | 2007-000074 | R775     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074 | R776     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074 | R777     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074 | R778     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074 | R779     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000070 | R781     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000072 | R782     | R-CHIP      | 47ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000072 | R783     | R-CHIP      | 47ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000072 | R784     | R-CHIP      | 47ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000084 | R800     | R-CHIP      | 4.7Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000084 | R801     | R-CHIP      | 4.7Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000082 | R8017    | R-CHIP      | 3.3Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000074 | R8019    | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000077 | R802     | R-CHIP      | 470ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000070 | R803     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000078 | R804     | R-CHIP      | 1Kohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000458 | R808     | R-CHIP      | 18Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000113 | R809     | R-CHIP      | 33ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-001134 | R8100    | R-CHIP      | 68ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-001002 | R8101    | R-CHIP      | 510ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000882 | R8102    | R-CHIP      | 4.7ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000070 | R8103    | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R8104    | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R8105    | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000082 | R8106    | R-CHIP      | 3.3Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000074 | R8108    | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000070 | R8109    | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000084 | R8119    | R-CHIP      | 4.7Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000084 | R8120    | R-CHIP      | 4.7Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000090 | R8121    | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000052 | R8126    | R-CHIP      | 10Kohm,1%,1/10W,TP,1608  | SA      |
| 5     | 2007-000084 | R8140    | R-CHIP      | 4.7Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000084 | R8141    | R-CHIP      | 4.7Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000090 | R8143    | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |

# 7 Electrical Parts List

| Level | Loc. No.    | Code No. | Description | Specification            | Remarks |
|-------|-------------|----------|-------------|--------------------------|---------|
| 5     | 2007-000402 | R817     | R-CHIP      | 150ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000402 | R818     | R-CHIP      | 150ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000090 | R821     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000643 | R826     | R-CHIP      | 270ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000309 | R827     | R-CHIP      | 10ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000539 | R828     | R-CHIP      | 200ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000643 | R829     | R-CHIP      | 270ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000309 | R830     | R-CHIP      | 10ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000539 | R831     | R-CHIP      | 200ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000643 | R832     | R-CHIP      | 270ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000309 | R833     | R-CHIP      | 10ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000539 | R834     | R-CHIP      | 200ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000071 | R835     | R-CHIP      | 22ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000402 | R836     | R-CHIP      | 150ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000070 | R837     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000113 | R838     | R-CHIP      | 33ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000078 | R839     | R-CHIP      | 1Kohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000402 | R840     | R-CHIP      | 150ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000070 | R841     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R842     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000113 | R843     | R-CHIP      | 33ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000070 | R845     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000402 | R849     | R-CHIP      | 150ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000070 | R850     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R851     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000087 | R852     | R-CHIP      | 6.8Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000087 | R853     | R-CHIP      | 6.8Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000113 | R854     | R-CHIP      | 33ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000084 | R855     | R-CHIP      | 4.7Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000070 | R856     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R857     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000081 | R858     | R-CHIP      | 2.7Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000070 | R859     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R860     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R862     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R863     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000078 | R864     | R-CHIP      | 1Kohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000070 | R865     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R866     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R868     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R869     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R870     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000074 | R871     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000070 | R874     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R875     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R876     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R877     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R878     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000090 | R879     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074 | R880     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000074 | R881     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000070 | R882     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R883     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R884     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R885     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R886     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R887     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-001164 | R888     | R-CHIP      | 75ohm,1%,1/10W,TP,1608   | SA      |
| 5     | 2007-000070 | R889     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R890     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R891     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R892     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000070 | R895     | R-CHIP      | 0ohm,5%,1/10W,TP,1608    | SA      |
| 5     | 2007-000234 | R896     | R-CHIP      | 1.3Kohm,5%,1/10W,TP,1608 | SA      |
| 5     | 2007-000402 | R897     | R-CHIP      | 150ohm,5%,1/10W,TP,1608  | SA      |
| 5     | 2007-000659 | R899     | R-CHIP      | 27ohm,5%,1/10W,TP,1608   | SA      |
| 5     | 2007-000074 | R900     | R-CHIP      | 100ohm,5%,1/10W,TP,1608  | SA      |

| Level | Loc. No.    | Code No. | Description | Specification                    | Remarks |
|-------|-------------|----------|-------------|----------------------------------|---------|
| 5     | 2007-000074 | R901     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-001164 | R902     | R-CHIP      | 75ohm,1%,1/10W,TP,1608           | SA      |
| 5     | 2007-001164 | R903     | R-CHIP      | 75ohm,1%,1/10W,TP,1608           | SA      |
| 5     | 2007-001164 | R904     | R-CHIP      | 75ohm,1%,1/10W,TP,1608           | SA      |
| 5     | 2007-000074 | R905     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-001167 | R906     | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | SA      |
| 5     | 2007-000074 | R907     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-001167 | R908     | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | SA      |
| 5     | 2007-001167 | R909     | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | SA      |
| 5     | 2007-000074 | R910     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000074 | R911     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000074 | R912     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000078 | R913     | R-CHIP      | 1Kohm,5%,1/10W,TP,1608           | SA      |
| 5     | 2007-000084 | R914     | R-CHIP      | 4.7Kohm,5%,1/10W,TP,1608         | SA      |
| 5     | 2007-000052 | R915     | R-CHIP      | 10Kohm,1%,1/10W,TP,1608          | SA      |
| 5     | 2007-000052 | R916     | R-CHIP      | 10Kohm,1%,1/10W,TP,1608          | SA      |
| 5     | 2007-001164 | R917     | R-CHIP      | 75ohm,1%,1/10W,TP,1608           | SA      |
| 5     | 2007-001164 | R918     | R-CHIP      | 75ohm,1%,1/10W,TP,1608           | SA      |
| 5     | 2007-001164 | R919     | R-CHIP      | 75ohm,1%,1/10W,TP,1608           | SA      |
| 5     | 2007-000074 | R920     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000074 | R921     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000074 | R923     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000084 | R924     | R-CHIP      | 4.7Kohm,5%,1/10W,TP,1608         | SA      |
| 5     | 2007-000402 | R925     | R-CHIP      | 150ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000570 | R926     | R-CHIP      | 220OHM,1%,1/10W,DA,TP,1608       | SA      |
| 5     | 2007-000078 | R927     | R-CHIP      | 1Kohm,5%,1/10W,TP,1608           | SA      |
| 5     | 2007-000078 | R928     | R-CHIP      | 1Kohm,5%,1/10W,TP,1608           | SA      |
| 5     | 2007-000084 | R929     | R-CHIP      | 4.7Kohm,5%,1/10W,TP,1608         | SA      |
| 5     | 2007-000084 | R930     | R-CHIP      | 4.7Kohm,5%,1/10W,TP,1608         | SA      |
| 5     | 2007-000078 | R931     | R-CHIP      | 1Kohm,5%,1/10W,TP,1608           | SA      |
| 5     | 2007-000078 | R932     | R-CHIP      | 1Kohm,5%,1/10W,TP,1608           | SA      |
| 5     | 2007-000090 | R933     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000082 | R934     | R-CHIP      | 3.3Kohm,5%,1/10W,TP,1608         | SA      |
| 5     | 2007-000075 | R940     | R-CHIP      | 220ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000075 | R942     | R-CHIP      | 220ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000090 | R944     | R-CHIP      | 10Kohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-001167 | R945     | R-CHIP      | 75ohm,5%,1/10W,TP,1608           | SA      |
| 5     | 2007-001164 | R946     | R-CHIP      | 75ohm,1%,1/10W,TP,1608           | SA      |
| 5     | 2007-000081 | R949     | R-CHIP      | 2.7Kohm,5%,1/10W,TP,1608         | SA      |
| 5     | 2007-000074 | R950     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000074 | R951     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000074 | R952     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000074 | R954     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000074 | R955     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000074 | R956     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000074 | R957     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000074 | R958     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000074 | R959     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000074 | R960     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000074 | R961     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000074 | R962     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000074 | R963     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2007-000074 | R964     | R-CHIP      | 100ohm,5%,1/10W,TP,1608          | SA      |
| 5     | 2011-000002 | RA701    | R-NET       | 22OHM,5%,1/16W,L,CHIP,8P,TP,3216 | SA      |
| 5     | 2011-000002 | RA702    | R-NET       | 22OHM,5%,1/16W,L,CHIP,8P,TP,3216 | SA      |
| 5     | 2011-000002 | RA703    | R-NET       | 22OHM,5%,1/16W,L,CHIP,8P,TP,3216 | SA      |
| 5     | 2011-000002 | RA704    | R-NET       | 22OHM,5%,1/16W,L,CHIP,8P,TP,3216 | SA      |
| 5     | 2011-000002 | RA705    | R-NET       | 22OHM,5%,1/16W,L,CHIP,8P,TP,3216 | SA      |
| 5     | 2011-000002 | RA706    | R-NET       | 22OHM,5%,1/16W,L,CHIP,8P,TP,3216 | SA      |
| 5     | 2011-000881 | RA800    | R-NET       | 33ohm,5%,1/16W,L,CHIP,8P,TP      | SA      |
| 5     | 2011-000881 | RA801    | R-NET       | 33ohm,5%,1/16W,L,CHIP,8P,TP      | SA      |
| 5     | 2011-000881 | RA802    | R-NET       | 33ohm,5%,1/16W,L,CHIP,8P,TP      | SA      |
| 5     | 2011-000881 | RA803    | R-NET       | 33ohm,5%,1/16W,L,CHIP,8P,TP      | SA      |
| 5     | 2011-000881 | RA804    | R-NET       | 33ohm,5%,1/16W,L,CHIP,8P,TP      | SA      |
| 5     | 2011-000881 | RA805    | R-NET       | 33ohm,5%,1/16W,L,CHIP,8P,TP      | SA      |
| 5     | 2011-000881 | RA806    | R-NET       | 33ohm,5%,1/16W,L,CHIP,8P,TP      | SA      |
| 5     | 2011-000881 | RA807    | R-NET       | 33ohm,5%,1/16W,L,CHIP,8P,TP      | SA      |

## 7 Electrical Parts List

| Level | Loc. No.    | Code No. | Description | Specification                                     | Remarks |
|-------|-------------|----------|-------------|---|---------|
| 5     | 2011-000881 | RA808    | R-NET       | 33ohm,5%,1/16W,L,CHIP,8P,TP                       | SA      |
| 5     | 2801-003667 | X701     | CRYSTAL-SMD | 14.31818MHz,30ppm,28-AAN,16,50ohm,TP              | SA      |
| 5     | 2801-004004 | X800     | CRYSTAL-SMD | 20.25MHz,20ppm,28-AAN,13pF,25ohm,TP               | SA      |
| 5     | BN97-00354V | MICOM1   | ASSY MICOM  | VE15UO  | SA      |
| 6     | BN09-00005A | IC802    | IC MICOM    | VCT4862-XMC7,144,3.3V,NTSC Only,PMQFP,TR,0 to +70 | SNA     |
| 6     | BN82-00114V | CIS      | A/S MICOM   | VE15UO  | SNA     |

## 7-2 Others

| Level | Loc. No.    | Code No.      | Description              | Specification   | Remarks |
|-------|-------------|---------------|--------------------------|---|---------|
| 2     | BN90-00507K | -             | ASSY STAND               | VE15UO  | SNA     |
| 3     | BN96-01105A | STD           | ASSY STAND P             | VE15UO,ABS HB   | SNA     |
| 2     | BN90-00629X | -             | ASSY COVER FRONT         | VE15UO  | SNA     |
| 3     | 6003-001323 | C/F+C/R       | SCREW-TAPTITE            | BH,+,B,M4,L12,NI PLT,SWRCH18A,-   | SNA     |
| 3     | BN96-01103A | C/F           | ASSY COVER P-FRONT       | VE15UO,ABS V0   | SNA     |
| 2     | BN90-00630P | -             | ASSY COVER REAR          | VE15UO  | SNA     |
| 3     | BN96-01104A | C/R           | ASSY COVER P-REAR        | VE15UO,ABS V0   | SNA     |
| 2     | BN91-00567K | -             | ASSY LCD-S3              | ES15/MB15,S3  | SNA     |
| 3     | BN07-00111A | CIS           | LCD                      | LTM150XH-L06,C2B,6BIT FRC,331.6*254.76*12.5,16.19M,-,0.297*0.297,-,,-,AMLCD/1 LVD | SA      |
| 2     | BN91-00772W | -             | ASSY SHIELD              | VE15UO  | SNA     |
| 3     | 6003-001323 | C/F+C/R+STD   | SCREW-TAPTITE            | BH,+,B,M4,L12,NI PLT,SWRCH18A,-   | SNA     |
| 3     | BN39-00519A | CIS           | LEAD CONNECTOR           | MONTE,UL1061#28,UL/CSA,20P,100mm,#26,12507HS-20,12507HS-20L,BK,SJ03-01-674        | SNA     |
| 3     | BN44-00112A | CIS           | IP BOARD                 | IP-31.6W(13V,5V),Venice,1.5mA-3.0mA,6.1mA-7.3mA,48kHz,4,AC90V~264VAC,5Vdc /13Vdc  | SNA     |
| 3     | BN61-00720A | CIS           | HOLDER-INVERTOR          | GY17LS,ABS PC ,BLK  | SNA     |
| 3     | 6003-000259 | SH/PAN+C/F    | SCREW-TAPTITE            | BH,+,B,M3,L8,ZPC(YEL),SWRCH18A  | SNA     |
| 3     | 6003-000256 | SH/PAN+IP/PCB | SCREW-TAPTITE            | BWH,+,B,M3,L10,ZPC(YEL),SM20C   | SNA     |
| 3     | 6003-000259 | SH/PAN+M/PCB  | SCREW-TAPTITE            | BH,+,B,M3,L8,ZPC(YEL),SWRCH18A  | SNA     |
| 3     | BN96-01188A | CIS           | ASSY MISC P-SHIELD PANEL | VE15UO,SECC T0.8  | -       |
| 2     | BN91-00784D | -             | ASSY CHASSIS-EA          | VE15UO  | SA      |
| 2     | BN92-00945N | -             | ASSY P/MATERIAL          | VE15UO  | SNA     |
| 3     | 0203-001100 | P/M           | TAPE-OPP MASKING         | OPP/W75/CLR,T0.05,W75,L800000,CLR   | SNA     |
| 3     | 6902-000379 | P/M           | BAG AIR                  | HDPE,T0.2,L1800,W1000,TRP,,,PAPER   | SNA     |
| 3     | 6902-000520 | P/M           | BAG PE                   | HDPE/NITRON(DOUBLE),T0.015/T0.5(DOUBLE),W700,L700,TRP,28 LANGUAGE,2-              | SNA     |
| 3     | 6902-000576 | P/M           | BAG ROLL                 | LDPE,T0.05,W2400,L1000,TRP,-,-  | SNA     |
| 3     | 6902-000604 | P/M           | BAG WRAPPING             | LDPE,T0.02,W500,L10000,TRP,-,-  | SNA     |
| 3     | BH69-00457C | P/M           | PACKING-PAD BOTTOM       | CY15PO,FOAM,T3.0,1320,880   | SNA     |
| 3     | BH69-40321A | P/M           | PACKING-PAD              | SW-4,W2155*L140,-,DEC,-,-,-,-   | SNA     |
| 3     | BH69-40380A | P/M           | PACKING-PAD              | DW-2,500X2200X200,-,CGK5527   | SNA     |
| 3     | BN68-00129A | P/M           | LABEL SHIPPING           | -,LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,-                                 | SNA     |
| 3     | BN69-00123L | P/M           | PAD PACKING              | RJ15PO  | SNA     |
| 3     | BN69-00140T | P/M           | PAD-PALLET COVER         | SUN(LSA810),SW,900,3760,-,-,-,-,-   | SNA     |
| 3     | BN69-00617H | P/M           | PALLET-PACKING           | VENICE15,WOODEN,1330,960,120  | SNA     |
| 3     | BN69-00641A | P/M           | CUSHION-L,R              | LT15M2,EPS M50  | SNA     |
| 2     | BN92-01009Q | -             | ASSY BOX                 | VE15UO  | SNA     |
| 3     | BH68-00329D | BOX           | LABEL BAR CODE-01        | NO CE,NO WT Y,MPRII,LABEL-BARCODE,MOJO 90G,90,95,WHT                              | SNA     |
| 3     | BH75-10529A | BOX           | UNIT-HANDLE PACKING      | LXA410TLMU,PE,-,WHITE,-   | SNA     |
| 3     | BN69-00753A | BOX           | PACKING CASE-00          | VE15,SW4 A,YEL,A1,W431*D467*H153,ASIA/SEA   | SNA     |
| 4     | BN72-60001A | CIS           | LEVER-TOP                | LSD210TL,PE-LD,WHITE,TFT_LCD  | SNA     |
| 4     | BN72-60002A | CIS           | LEVER-BOTTOM             | LSD210TL,PE-LD,WHITE,TFT-LCD  | SNA     |

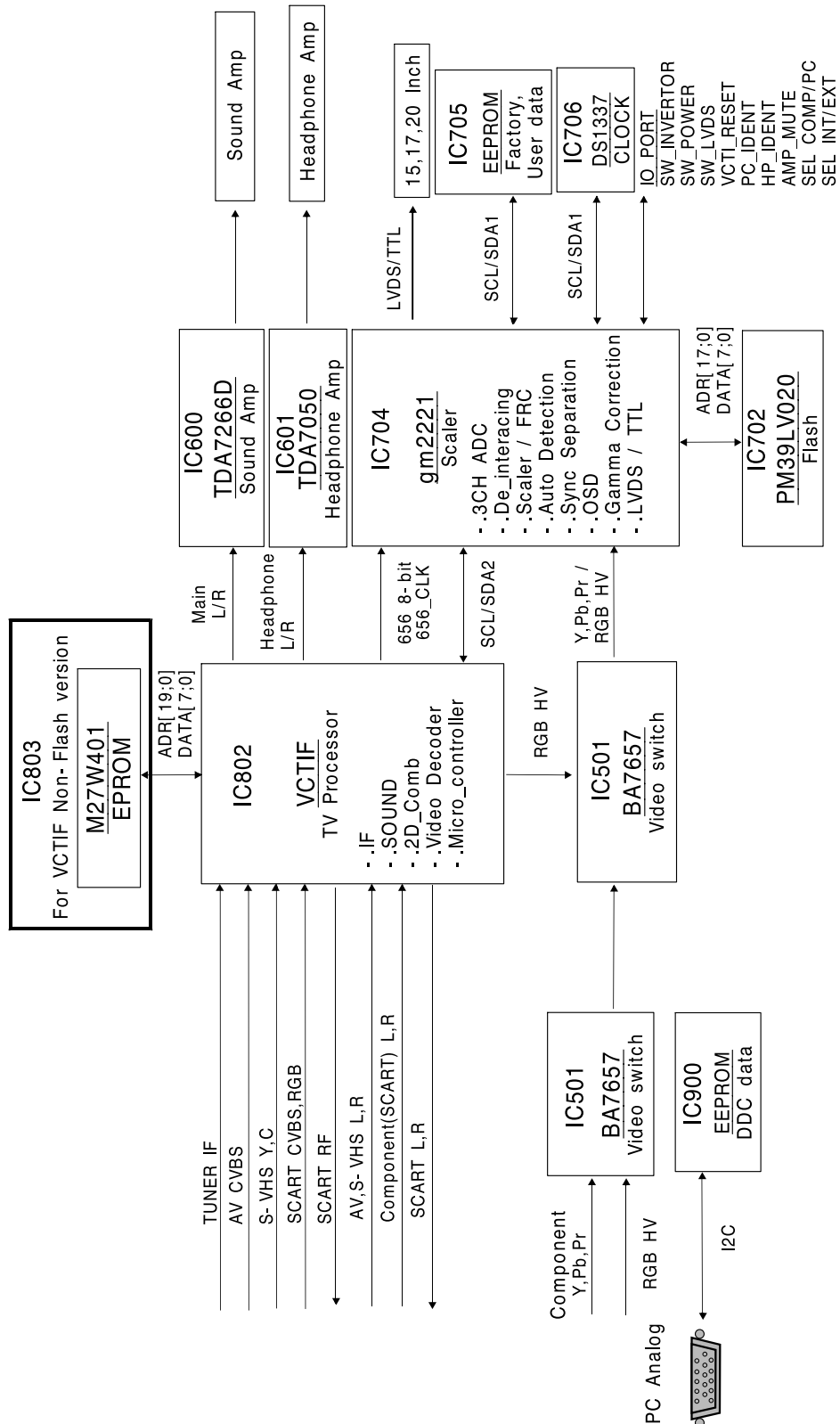
| Level | Loc. No.    | Code No.       | Description          | Specification                                    | Remarks |
|-------|-------------|----------------|----------------------|--|---------|
| 2     | BN92-01010J | -              | ASSY LABEL           | VE15UO   | SNA     |
| 3     | BN68-00614A | LABEL          | LABEL RATING-00      | ALL,SS,PE,T0.05,90*45,BLK,POLYESTER,NO SILK      | SNA     |
| 2     | BN92-01011W | -              | ASSY ACCESSORY       | VE15UO   | SNA     |
| 3     | BN59-00429A | ACCESSORY      | REMOCON              | TM79,Single Micom,34,EX,NT,EX,VENICE             | SNA     |
| 3     | BN96-00619U | UNIT/ACCESSORY | ASSY ACCESSORY       | MU15UO   | SNA     |
| 4     | 0203-000214 | ACCESSORY      | TAPE-OPP MASKING     | OPP/W50/CLR,T0.05,W50,L400000,                   | SNA     |
| 4     | 4301-000121 | ACCESSORY      | BATTERY-MN           | 1.5V,-,AAA,10.5x44.5m,HOLDER                     | SA      |
| 4     | 6902-000110 | ACCESSORY      | BAG PE               | LDPE,T0.05,L356,W240,TRP,28,2,PE MARK            | SNA     |
| 4     | BH39-10339X | ACCESSORY      | CBF POWER CORD       | DET,SVT,125V/7A,BLK,1830,WALL(ST),MSP-33,MSC-30  | SA      |
| 3     | BN96-00952R | UNIT/ACCESSORY | ASSY ACCESSORY       | VE15UO   | SA      |
| 4     | 0203-000214 | ACCESSORY      | TAPE-OPP MASKING     | OPP/W50/CLR,T0.05,W50,L400000,                   | SNA     |
| 4     | 6902-000110 | ACCESSORY      | BAG PE               | LDPE,T0.05,L356,W240,TRP,28,2,PE MARK            | SNA     |
| 4     | AA68-00371C | ACCESSORY      | CARD WARRANTY-01     | ,SEA,W/P100(G),1 YEAR                            | SNA     |
| 4     | AA68-40065B | ACCESSORY      | CARD-01,REGISTRATION | ,SEA,A5,ENG,A/P220,2P(SIDES),4                   | SNA     |
| 4     | BN68-00633A | ACCESSORY      | MANUAL USERS-00      | LTP1545/1745/2045,SAMSUNG,E/F,NA,Mojo120/100g,B5 | -       |

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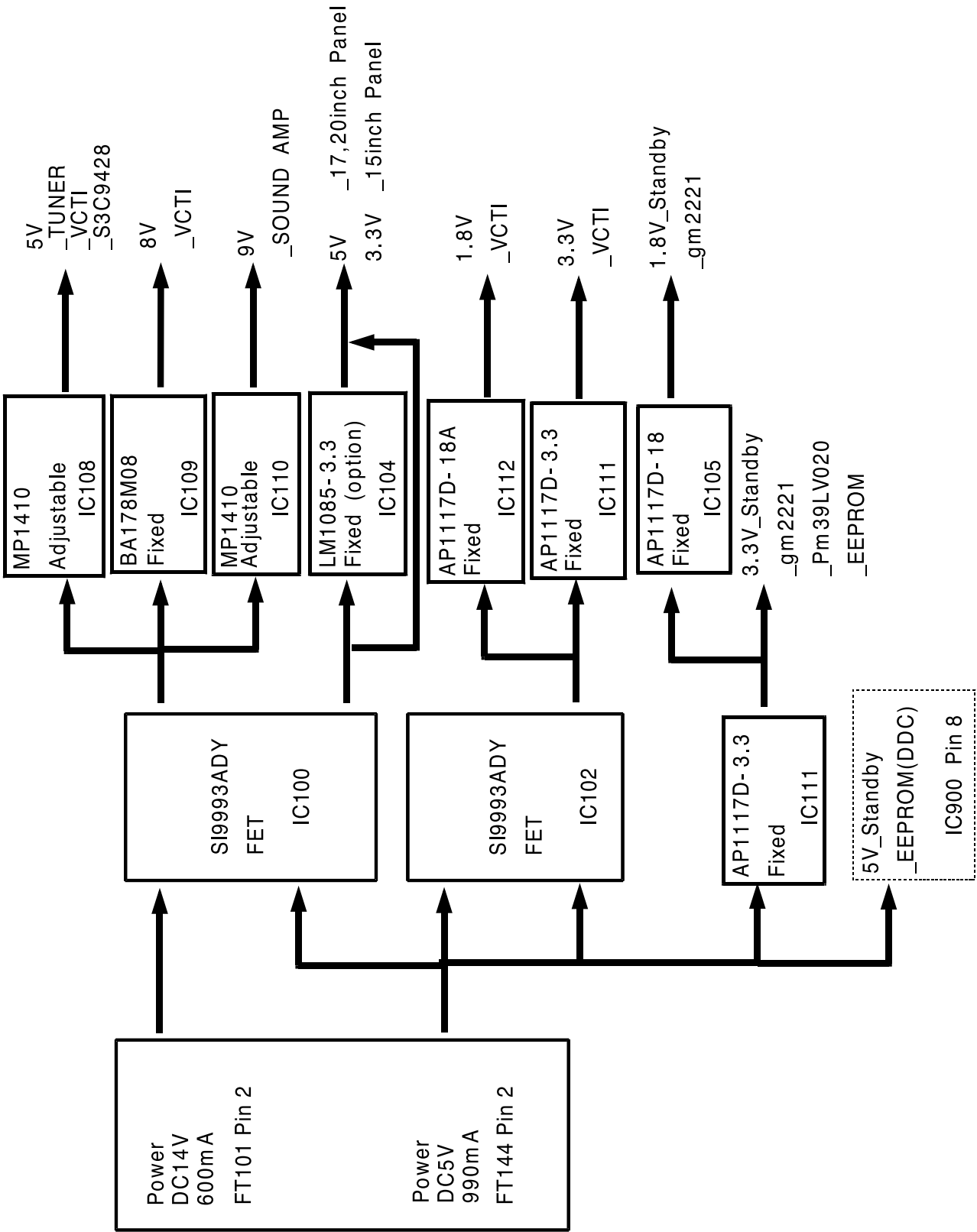
## 8 Block Diagram

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### 8-1 Signal Path Block Diagram



8-2 Input Power Block Diagram





10 PCB Layout

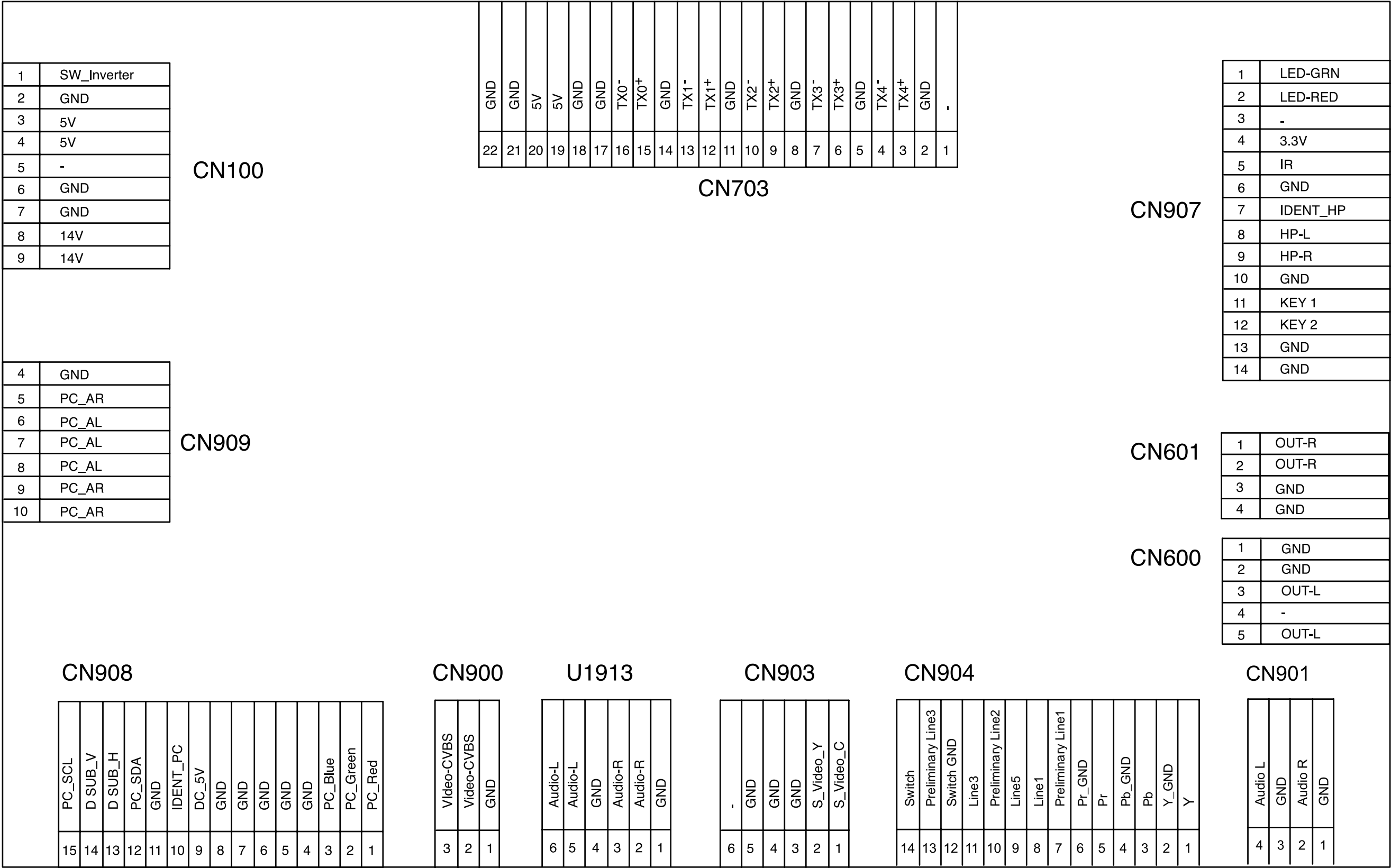
10-1 Main PCB Layout



| Loc. No. | Description     | X     | Y     | Loc. No.   | Description          | X     | Y     |
|----------|-----------------|-------|-------|------------|----------------------|-------|-------|
| DIODE    |                 |       |       | D954       | DIODE-SWITCHING      | 3.1   | 79.0  |
| D101     | DIODE-RECTIFIER | 43.8  | 117.7 | D955       | DIODE-SWITCHING      | 7.3   | 75.4  |
| D102     | DIODE-RECTIFIER | 63.0  | 123.2 | D956       | DIODE-SWITCHING      | 3.1   | 73.5  |
| D200     | DIODE-SWITCHING | 152.7 | 110.7 | D957       | DIODE-SWITCHING      | 6.9   | 71.1  |
| D201     | DIODE-ZENER     | 141.4 | 86.4  | IC         |                      |       |       |
| D600     | DIODE-SWITCHING | 124.7 | 140.2 | IC100      | FET-SILICON          | 18.4  | 129.4 |
| D601     | DIODE-ARRAY     | 143.6 | 142.7 | IC101      | IC-VOLTAGE REGULATOR | 114.1 | 132.7 |
| D602     | DIODE-ZENER     | 149.8 | 144.8 | IC102      | FET-SILICON          | 21.4  | 137.4 |
| D603     | DIODE-ZENER     | 155.0 | 116.3 | IC104      | IC-POSI.FIXED REG.   | 36.1  | 144.1 |
| D604     | DIODE-ZENER     | 148.1 | 116.2 | IC105      | IC-VOLTAGE REGULATOR | 48.9  | 108.7 |
| D701     | DIODE-SWITCHING | 20.9  | 88.5  | IC108      | IC-DC/DC CONVERTER   | 42.0  | 127.9 |
| D702     | DIODE-SWITCHING | 45.4  | 81.9  | IC109      | IC-POSI.FIXED REG.   | 109.9 | 144.1 |
| D800     | DIODE-SWITCHING | 66.0  | 104.5 | IC110      | IC-DC/DC CONVERTER   | 56.3  | 132.7 |
| D900     | DIODE-ZENER     | 106.9 | 39.0  | IC111      | IC-VOLTAGE REGULATOR | 107.0 | 118.4 |
| D901     | DIODE-ZENER     | 110.6 | 33.5  | IC112      | IC-VOLTAGE REGULATOR | 118.2 | 120.1 |
| D902     | DIODE-ZENER     | 59.7  | 22.2  | IC500      | IC-VIDEO SWITCH      | 43.8  | 49.1  |
| D903     | DIODE-ZENER     | 82.5  | 22.2  | IC501      | IC-VIDEO SWITCH      | 50.4  | 59.0  |
| D904     | DIODE-ZENER     | 51.3  | 41.5  | IC600      | IC-AUDIO AMP         | 134.7 | 125.6 |
| D905     | DIODE-ZENER     | 55.7  | 22.1  | IC601      | IC-AUDIO AMP         | 148.8 | 129.2 |
| D906     | DIODE-ZENER     | 78.5  | 22.2  | IC702      | SOCKET-IC            | 27.7  | 117.2 |
| D907     | DIODE-ARRAY     | 2.2   | 32.3  | IC703      | IC-FLASH MEMORY      | 0.0   | 0.0   |
| D908     | DIODE-SWITCHING | 22.8  | 40.0  | IC704      | IC                   | 25.8  | 81.3  |
| D909     | DIODE-SWITCHING | 25.5  | 40.4  | IC705      | IC-EEPROM            | 32.4  | 84.9  |
| D910     | DIODE-SWITCHING | 31.9  | 40.4  | IC706      | IC-REAL TIME CLOCK   | 4.8   | 104.4 |
| D911     | DIODE-SWITCHING | 7.3   | 57.8  | IC801      | IC-VOL. DETECTOR     | 108.1 | 94.5  |
| D912     | DIODE-SWITCHING | 14.8  | 22.7  | IC802      | IC-SIGNAL PROCESSOR  | 76.6  | 83.8  |
| D913     | DIODE-SWITCHING | 23.4  | 22.7  | IC803      | SOCKET-IC            | 82.7  | 127.6 |
| D914     | DIODE-ZENER     | 15.0  | 57.8  | IC805      | IC-EEPROM            | 72.7  | 80.7  |
| D915     | DIODE-SWITCHING | 150.3 | 26.2  | IC900      | IC-EEPROM            | 4.5   | 18.0  |
| D916     | DIODE-ZENER     | 150.2 | 17.6  | IC902      | IC-CMOS LOGIC        | 28.8  | 51.4  |
| D917     | DIODE-ZENER     | 3.0   | 40.2  | IC903      | IC-CMOS LOGIC        | 28.6  | 51.5  |
| D918     | DIODE-ZENER     | 17.4  | 40.3  | TRANSISTOR |                      |       |       |
| D919     | DIODE-ZENER     | 8.6   | 40.2  | Q100       | TR-SMALL SIGNAL      | 14.9  | 119.9 |
| D920     | DIODE-ZENER     | 150.2 | 21.8  | Q101       | TR-SMALL SIGNAL      | 14.4  | 128.1 |
| D921     | DIODE-ZENER     | 73.2  | 41.4  | Q104       | TR-SMALL SIGNAL      | 16.6  | 132.9 |
| D922     | DIODE-ZENER     | 73.2  | 43.7  | Q200       | TR-SMALL SIGNAL      | 139.3 | 106.3 |
| D923     | DIODE-ZENER     | 73.3  | 48.5  | Q600       | TR-SMALL SIGNAL      | 156.3 | 138.1 |
| D924     | DIODE-ZENER     | 73.2  | 46.2  | Q601       | TR-SMALL SIGNAL      | 150.5 | 140.8 |
| D925     | DIODE-ZENER     | 55.2  | 41.5  | Q602       | TR-SMALL SIGNAL      | 139.5 | 142.7 |
| D926     | DIODE-ZENER     | 111.2 | 33.7  | Q603       | TR-SMALL SIGNAL      | 129.3 | 140.2 |
| D927     | DIODE-ZENER     | 103.2 | 38.3  | Q800       | TR-SMALL SIGNAL      | 87.6  | 62.0  |
| D928     | DIODE-ZENER     | 2.2   | 27.6  | Q801       | TR-SMALL SIGNAL      | 91.5  | 62.2  |
| D930     | DIODE-ZENER     | 71.2  | 22.2  | Q802       | TR-SMALL SIGNAL      | 53.1  | 97.5  |
| D932     | DIODE-ZENER     | 82.5  | 17.9  | Q803       | TR-SMALL SIGNAL      | 53.1  | 101.4 |
| D934     | DIODE-ZENER     | 82.5  | 13.6  | Q804       | TR-SMALL SIGNAL      | 57.1  | 106.5 |
| D936     | DIODE-ZENER     | 67.0  | 22.1  | Q805       | TR-SMALL SIGNAL      | 62.6  | 104.5 |
| D940     | DIODE-ZENER     | 30.0  | 22.2  | Q806       | FET-SILICON          | 25.4  | 77.8  |
| D941     | DIODE-ZENER     | 34.4  | 22.3  | Q807       | FET-SILICON          | 25.4  | 73.6  |
| D942     | DIODE-ZENER     | 40.0  | 22.2  | Q809       | TR-SMALL SIGNAL      | 131.7 | 99.7  |
| D944     | DIODE-ZENER     | 44.5  | 22.2  | Q810       | FET-SILICON          | 2.5   | 66.3  |
| D945     | DIODE-ZENER     | 108.2 | 28.4  | Q811       | FET-SILICON          | 6.3   | 66.3  |
| D946     | DIODE-ZENER     | 100.7 | 28.4  | Q900       | TR-SMALL SIGNAL      | 150.3 | 31.1  |
| D947     | DIODE-ZENER     | 95.3  | 23.4  | Q901       | TR-SMALL SIGNAL      | 146.3 | 31.1  |
| D948     | DIODE-SWITCHING | 100.8 | 33.9  | Q902       | TR-SMALL SIGNAL      | 150.4 | 25.9  |
| D949     | DIODE-SWITCHING | 97.6  | 38.7  |            |                      |       |       |
| D950     | DIODE-ZENER     | 154.3 | 25.9  |            |                      |       |       |
| D951     | DIODE-SWITCHING | 4.2   | 87.9  |            |                      |       |       |
| D952     | DIODE-SWITCHING | 3.1   | 83.4  |            |                      |       |       |
| D953     | DIODE-SWITCHING | 7.3   | 84.2  |            |                      |       |       |

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9 Wiring Diagram

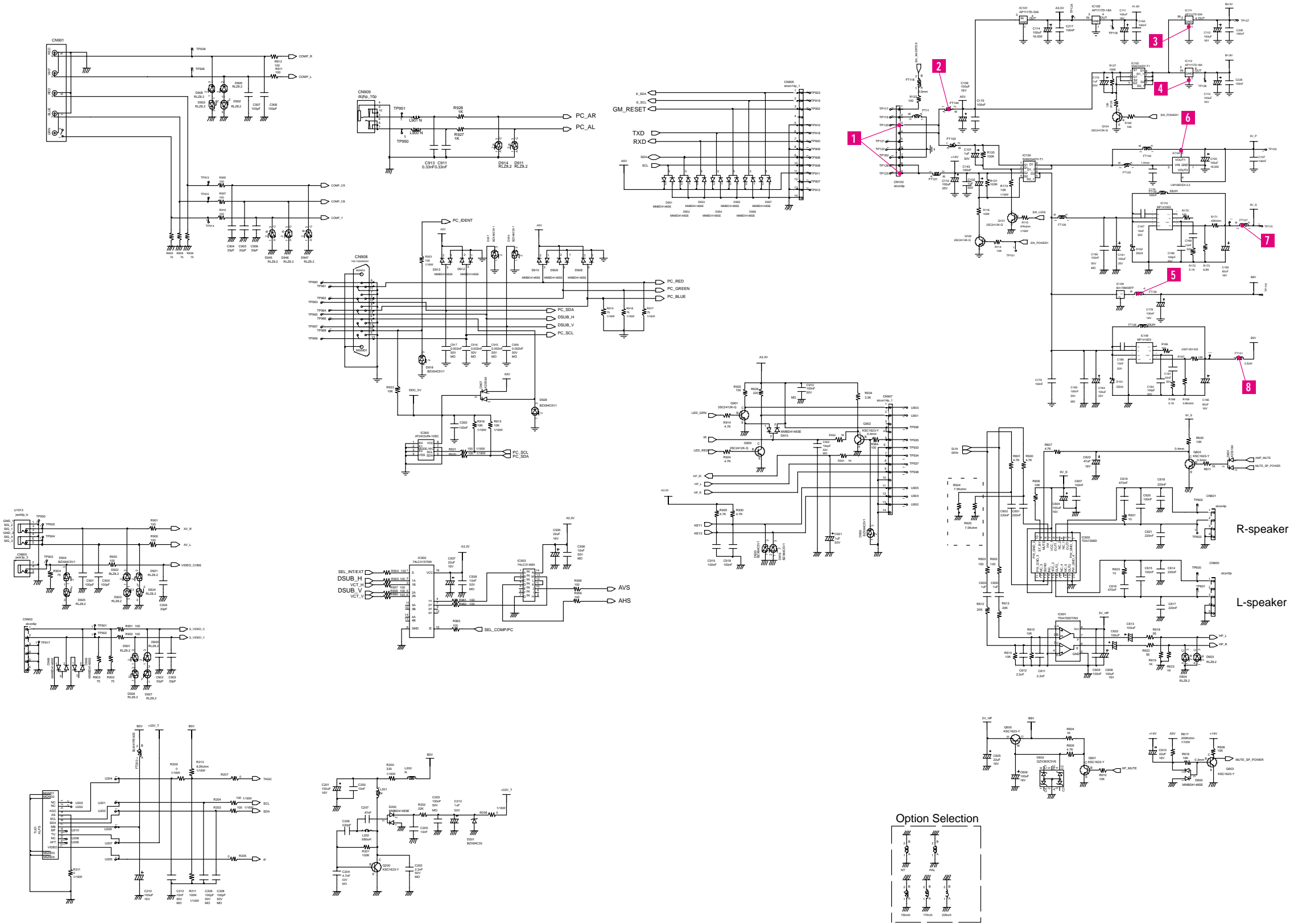


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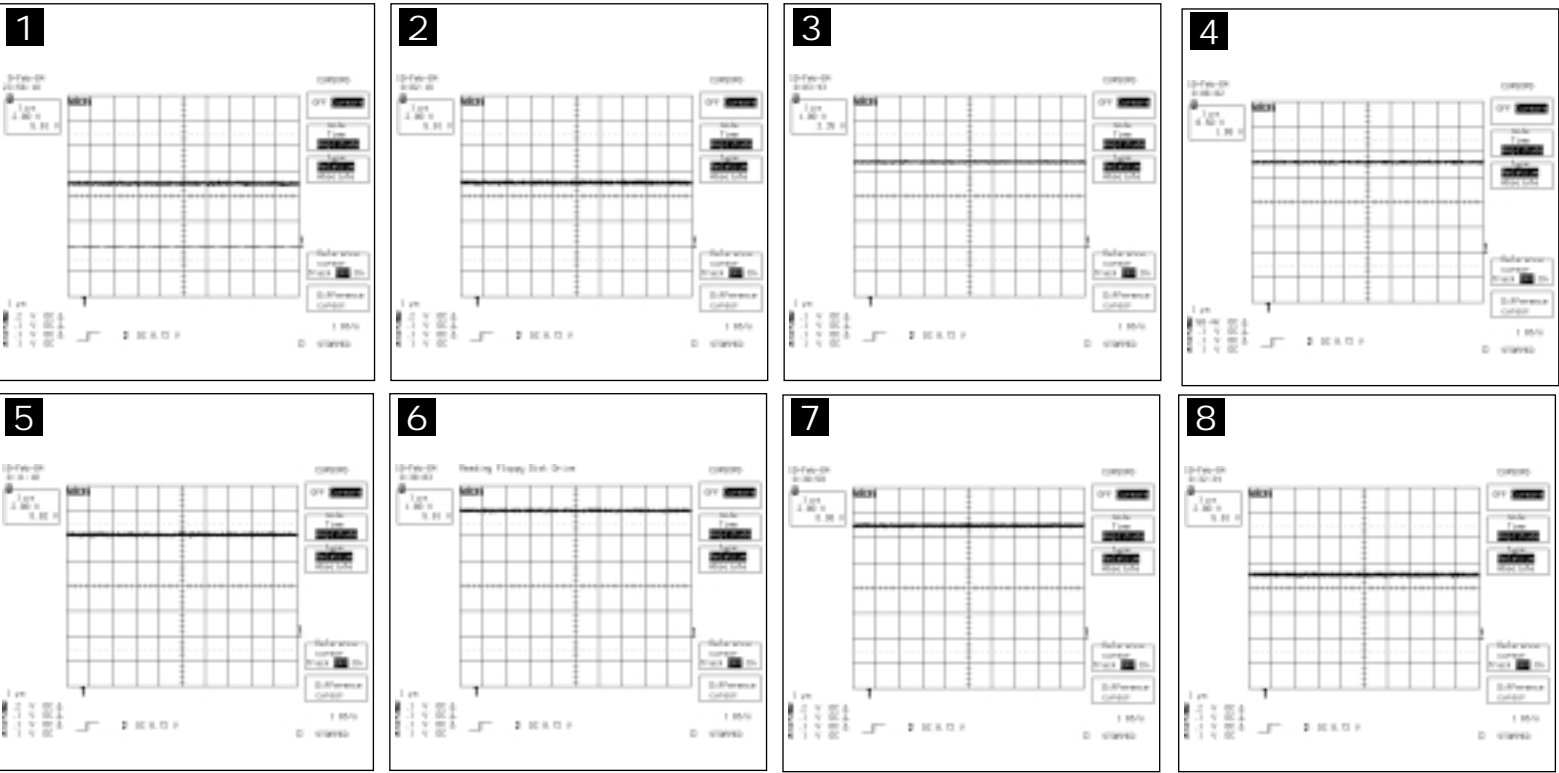
# 11 Schematic Diagrams

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## 11-1 Input Power Sound Schematic Diagram

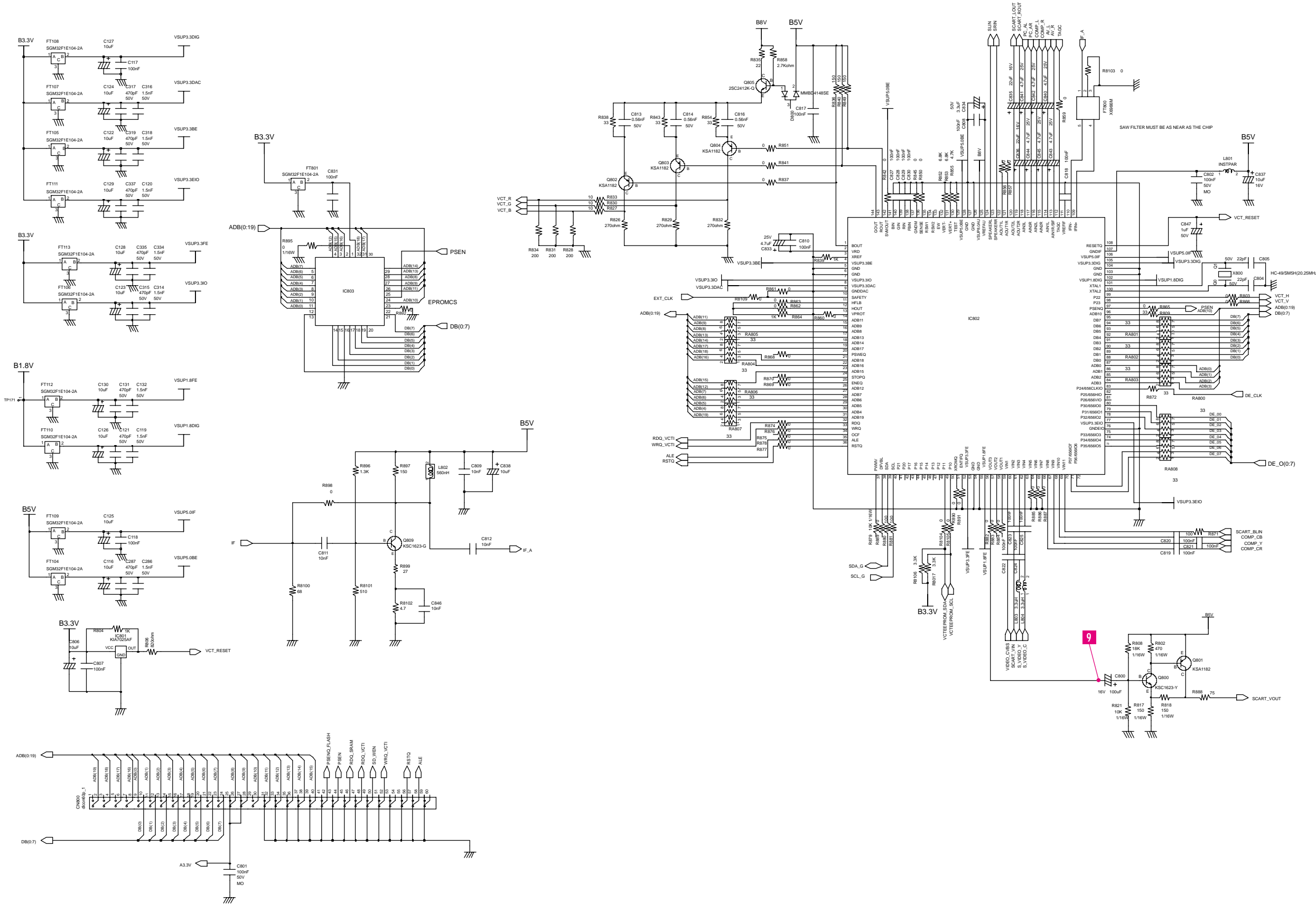


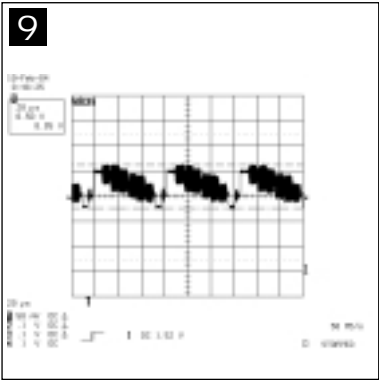
11 Schematic Diagrams



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# 11-2 Video Decoder Schematic Diagram

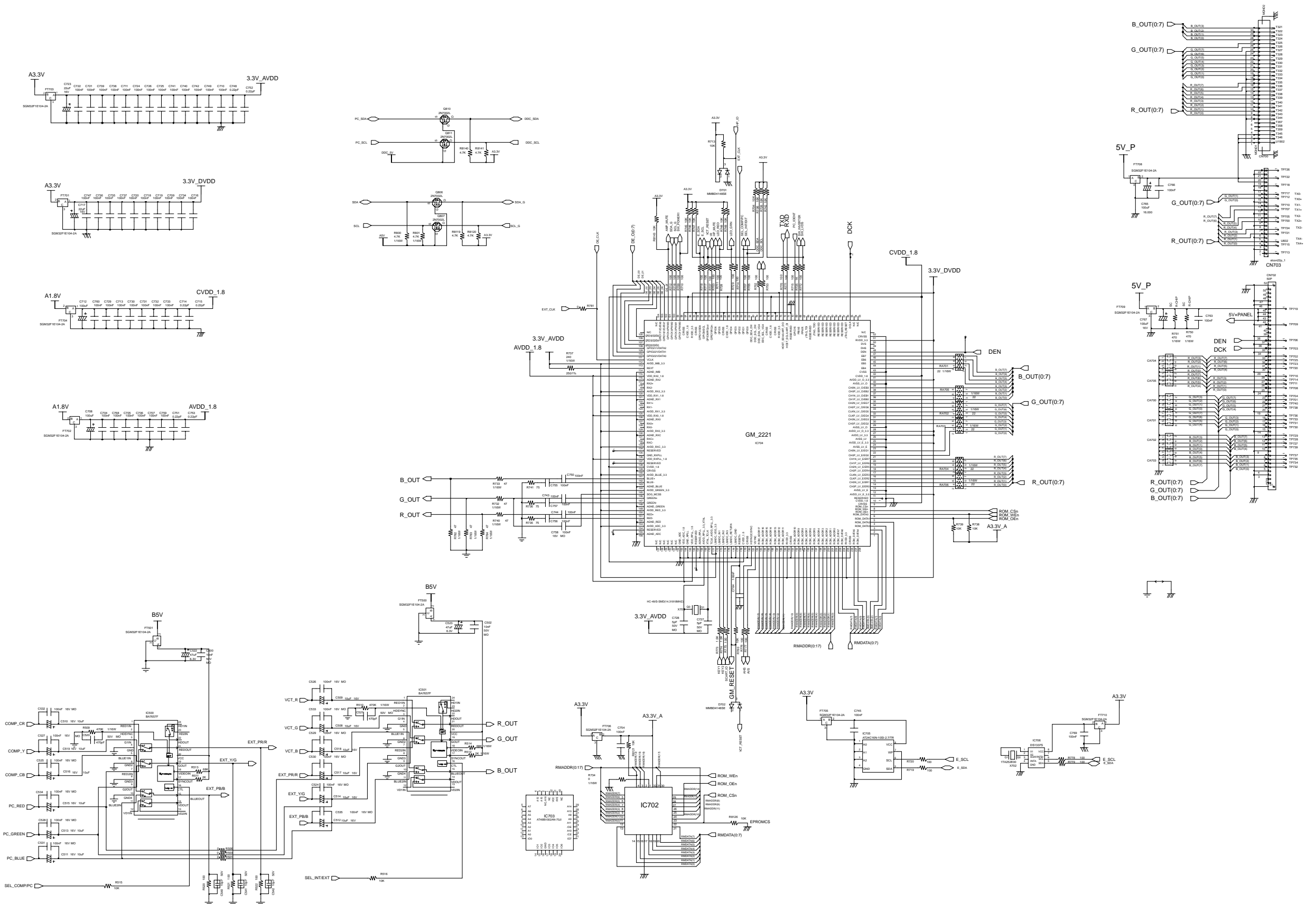






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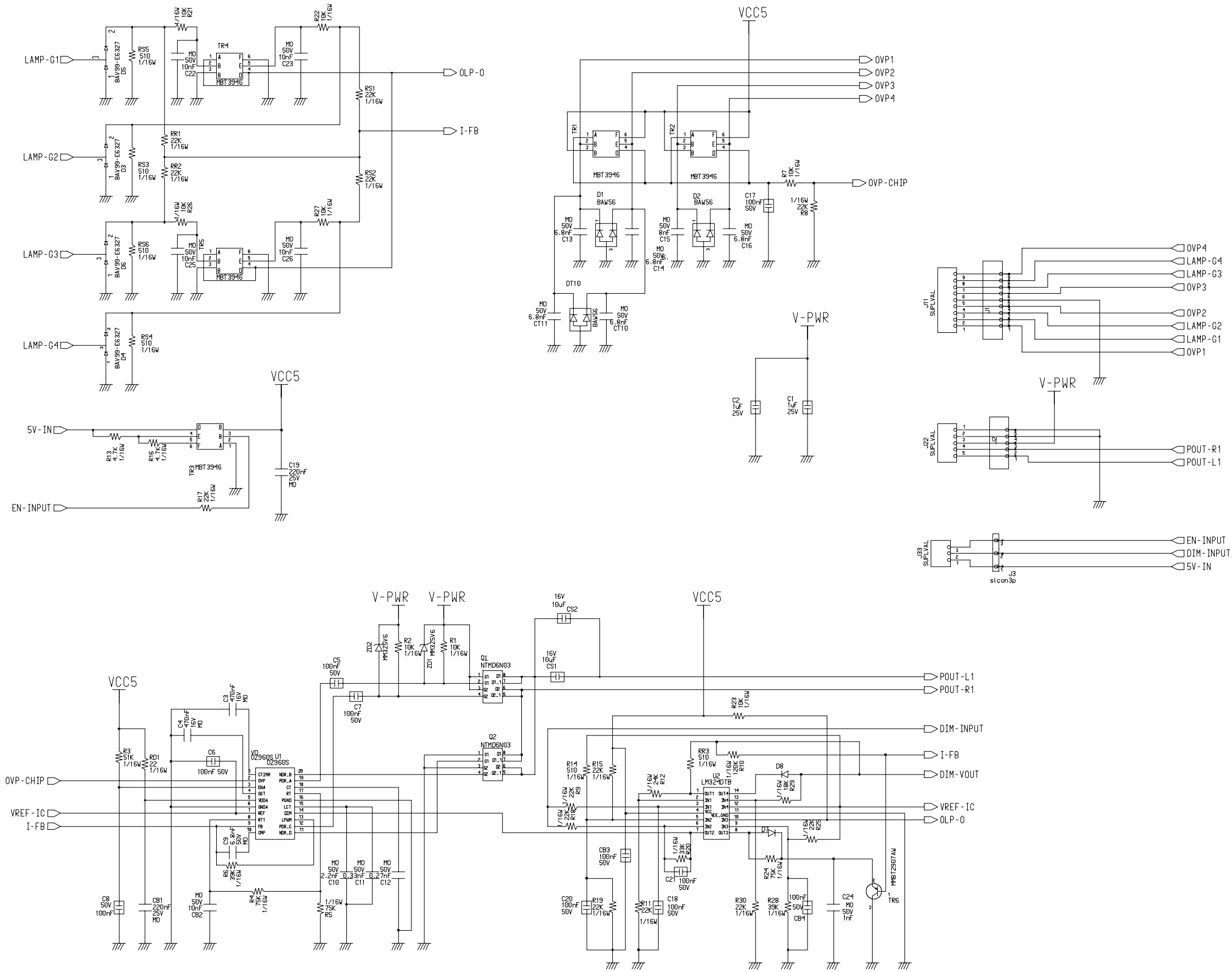
### 11-3 Output Scaler, LVDS Schematic Diagram





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11-5 Power Supply, Inverter Board Schematic Diagram



Memo