

CONFIDENTIAL

**SAMSUNG**

# TFT-LCD MONITOR

**GG15AS/GG15AS(R)**

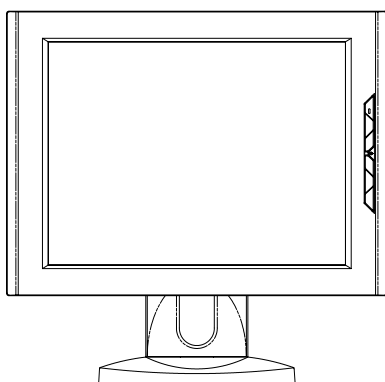
**GG15L\*/GG15L\*(R)**

**GG15V\*/GG15V\*(R)**

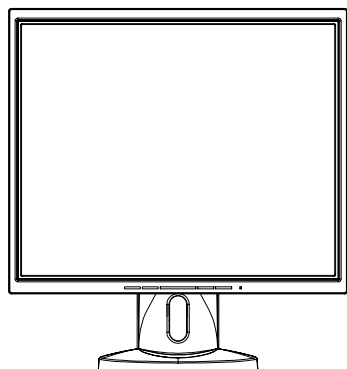
**GG15E\*/GG15E\*(R)**

# ***SERVICE*** Manual

## TFT-LCD MONITOR



**GG15L\*/GG15V\*/GG15E\***  
**GG15L\*(R)/GG15V\*(R)/GG15E\*(R)**



**GG15AS/GG15AS(R)**

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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.
3. When the chassis is operating, semiconductor heatsinks are potential shock hazards.

### 1-1-2 Servicing the LCD Monitor

1. When servicing the LCD Monitor, remove the static charge by connecting a 10k ohm resistor in series with an insulated wire (such as a test probe) between the chassis and the anode lead. (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 monitor 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 monitor.
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*).

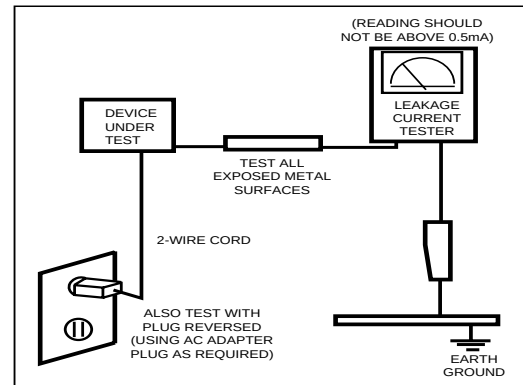


Figure 1-1. Leakage Current Test Circuit

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 ⚠ 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.

## 1-2 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, normally white, 15-Inch viewable, 0.297 mm pixel pitch                                                                                           |                                                                                                                                                                                       |
| Scanning Frequency                                                                                                                                                                                                                                                                     | Horizontal : 30 kHz ~ 61 kHz (Referring ~ Timing chart, Page 2-3, 2-4)<br>Vertical : 50 Hz ~ 75 Hz (Referring ~ Timing chart, Page 2-3, 2-4)                                         |                                                                                                                                                                                       |
| Display Colors                                                                                                                                                                                                                                                                         | 16,003,008 colors                                                                                                                                                                    |                                                                                                                                                                                       |
| Maximum Resolution                                                                                                                                                                                                                                                                     | Horizontal : 1024 Pixels                      Vertical : 768 Pixels                                                                                                                  |                                                                                                                                                                                       |
| Input Video Signal                                                                                                                                                                                                                                                                     | Analog, 0.714 Vp-p ± 5% positive at 75 Ω, internally terminated                                                                                                                      |                                                                                                                                                                                       |
| Input Sync Signal                                                                                                                                                                                                                                                                      | Type: Seperate H/V sync, Composite H/V, Sync-on-Green, automatic synchronization without external switch of sync type<br>Level: TTL level                                            |                                                                                                                                                                                       |
| Maximum Pixel Clock rate                                                                                                                                                                                                                                                               | 80 MHz                                                                                                                                                                               |                                                                                                                                                                                       |
| Active Display Horizontal/Vertical                                                                                                                                                                                                                                                     | 304.1 mm / 228.1 mm                                                                                                                                                                  |                                                                                                                                                                                       |
| AC power voltage & Frequency                                                                                                                                                                                                                                                           | AC 90 ~ 264 Volts, 60 / 50 Hz ~ 12V / 3A                                                                                                                                             |                                                                                                                                                                                       |
| Power Consumption                                                                                                                                                                                                                                                                      | 25 W (normal)                                                                                                                                                                        |                                                                                                                                                                                       |
| Dimensions<br>Unit (W x D x H)<br>With Simple Stand<br>Without Simple stand<br>With Pivot Stand<br>Without Pivot Stand                                                                                                                                                                 | GG15L*/GG15L*(R)/GG15V*/GG15V*(R)/GG15E*/GG15E*(R)                                                                                                                                   | GG15AS/GG15AS(R)                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                        | 15.4 x 15.1 x 6.8 Inches (391.4 x 383.6 x 173 mm)                                                                                                                                    | Set : 13.4 x 13.9 x 6.8 Inches (339.8 x 354.0 x 173.3 mm)<br>13.4 x 10.5 x 6.8 Inches (339.8 x 267.5 x 173.3 mm)<br><br>Package : 16.3 x 9.0 x 16.3 Inches (413.0 x 228.0 x 415.0 mm) |
|                                                                                                                                                                                                                                                                                        | 15.4 x 11.5 x 2.5 Inches (391.4 x 292.8 x 64.0 mm)                                                                                                                                   |                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                        | 15.4 x 15.1 x 6.8 Inches (391.4 x 383.6 x 173 mm)                                                                                                                                    |                                                                                                                                                                                       |
|                                                                                                                                                                                                                                                                                        | 15.4 x 17.1 x 6.8 Inches (391.4 x 433.6 x 173 mm)                                                                                                                                    |                                                                                                                                                                                       |
| 15.4 x 11.5 x 2.5 Inches (391.4 x 292.8 x 64.0 mm)                                                                                                                                                                                                                                     |                                                                                                                                                                                      |                                                                                                                                                                                       |
| Weight (Net/Gross)                                                                                                                                                                                                                                                                     | 4.2 kg (9.3 lbs) / 5.2 kg (11.5 lbs)                                                                                                                                                 | 3.4 kg (7.50 lbs) / 4.4 kg (9.70 lbs)                                                                                                                                                 |
| Environmental Considerations                                                                                                                                                                                                                                                           | Operating Temperature : 50 °F ~ 104 °F (10 °C ~ 40 °C)<br>Operating Humidity : 10 % ~ 80 %<br>Storage Temperature : 13 °F ~ 113 °F (-25 °C ~ 45 °C)<br>Storage Humidity : 5 % ~ 95 % |                                                                                                                                                                                       |
| <ul style="list-style-type: none"><li>•GG15AS/GG15AS(R)/GG15L*/GG15L*(R)/GG15V*/GG15V*(R)/GG15E*/GG15E*(R) complies with SWEDAC (MPR II) recommendations for reduced electromagnetic fields.</li><li>•Designs and specifications are subject to change without prior notice.</li></ul> |                                                                                                                                                                                      |                                                                                                                                                                                       |

## 2-2 Pin Assignments

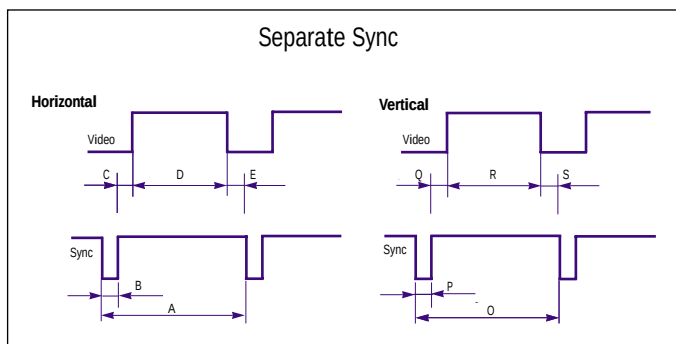
| Pin No. | Sync Type | 15-Pin Signal Cable Connector |                     |                     |
|---------|-----------|-------------------------------|---------------------|---------------------|
|         |           | Separate                      | Composite           | Sync-on-green       |
| 1       |           | Red                           | Red                 | Red                 |
| 2       |           | Green                         | Green               | Green + H/V Sync.   |
| 3       |           | Blue                          | Blue                | Blue                |
| 4       |           | GND                           | GND                 | GND                 |
| 5       |           | GND (DDC Return)              | GND (DDC Return)    | GND (DDC Return)    |
| 6       |           | GND-R                         | GND-R               | GND-R               |
| 7       |           | GND-G                         | GND-G               | GND-G               |
| 8       |           | GND-B                         | GND-B               | GND-B               |
| 9       |           | No Connection                 | No Connection       | Not Used            |
| 10      |           | GND-Sync./Self Test           | GND-Sync./Self Test | GND-Sync./Self Test |
| 11      |           | GND                           | GND                 | GND                 |
| 12      |           | DDC Data                      | DDC Data            | DDC Data            |
| 13      |           | H-Sync.                       | H/V-Sync.           | Not Used            |
| 14      |           | V-Sync.                       | Not Used            | Not Used            |
| 15      |           | DDC Clock                     | DDC Clock           | 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

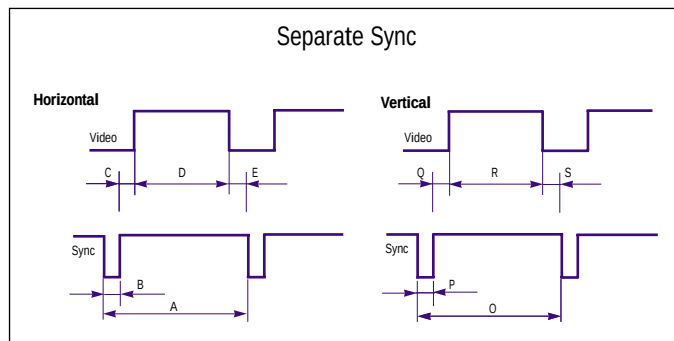
| Mode<br><br>Timing    | IBM                     |                         |                         | VESA                   |                        |                        |                        |
|-----------------------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|------------------------|------------------------|
|                       | VGA1/70 Hz<br>640 x 350 | VGA2/70 Hz<br>720 x 400 | VGA3/60 Hz<br>640 x 480 | 640/72 Hz<br>640 x 480 | 640/75 Hz<br>640 x 480 | 800/56 Hz<br>800 x 600 | 800/60 Hz<br>800 x 600 |
| fH (kHz)              | 31.469                  | 31.469                  | 31.469                  | 37.861                 | 37.500                 | 35.156                 | 37.879                 |
| A $\mu$ sec           | 31.778                  | 31.777                  | 31.778                  | 26.413                 | 26.667                 | 28.444                 | 26.400                 |
| B $\mu$ sec           | 3.813                   | 3.813                   | 3.813                   | 1.270                  | 2.032                  | 2.000                  | 3.200                  |
| C $\mu$ sec           | 1.589                   | 1.589                   | 1.589                   | 3.810                  | 3.810                  | 3.556                  | 2.200                  |
| D $\mu$ sec           | 26.058                  | 26.058                  | 26.058                  | 20.825                 | 20.317                 | 22.222                 | 20.000                 |
| E $\mu$ sec           | 0.318                   | 0.318                   | 0.318                   | 0.508                  | 0.508                  | 0.667                  | 1.000                  |
| fV (Hz)               | 70.086                  | 70.087                  | 59.940                  | 72.809                 | 75.000                 | 56.250                 | 60.317                 |
| O msec                | 14.268                  | 14.268                  | 16.683                  | 13.735                 | 13.333                 | 17.778                 | 16.579                 |
| P msec                | 0.064                   | 0.064                   | 0.064                   | 0.079                  | 0.080                  | 0.057                  | 0.106                  |
| Q msec                | 1.716                   | 0.858                   | 0.794                   | 0.528                  | 0.427                  | 0.626                  | 0.607                  |
| R msec                | 11.504                  | 13.155                  | 15.761                  | 13.100                 | 12.800                 | 17.067                 | 15.840                 |
| S msec                | 0.985                   | 0.191                   | 0.064                   | 0.026                  | 0.027                  | 0.028                  | 0.026                  |
| Clock Frequency (MHz) | 25.175                  | 28.322                  | 25.175                  | 31.500                 | 31.500                 | 36.000                 | 40.000                 |
| Polarity<br>H.Sync    | Positive                | Negative                | Negative                | Negative               | Negative               | Positive               | Positive               |
| V.Sync                | Negative                | Positive                | Negative                | Negative               | Negative               | Negative               | Positive               |
| Remark                | Separate                | Separate                | Separate                | Separate               | Separate               | Separate               | Separate               |



|                     |                           |                      |                         |
|---------------------|---------------------------|----------------------|-------------------------|
| 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      |                         |

Table 2-1 Timing Chart (Continued)

| Mode<br><br>Timing    | VESA                   |                        |                       |                       |                       | MAC                    |                        |
|-----------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|
|                       | 800/72 Hz<br>800 x 600 | 800/75 Hz<br>800 x 600 | 1024/60Hz<br>1024x768 | 1024/70Hz<br>1024x768 | 1024/75Hz<br>1024x768 | 640/67 Hz<br>640 x 480 | 832/75 Hz<br>832 x 624 |
| fH (kHz)              | 48.077                 | 46.875                 | 48.363                | 56.476                | 60.023                | 35.000                 | 49.726                 |
| A $\mu$ sec           | 20.800                 | 21.333                 | 20.677                | 17.707                | 16.660                | 28.571                 | 20.110                 |
| B $\mu$ sec           | 2.400                  | 1.616                  | 2.092                 | 1.813                 | 1.219                 | 2.116                  | 1.117                  |
| C $\mu$ sec           | 1.280                  | 3.232                  | 2.462                 | 1.920                 | 2.235                 | 3.175                  | 3.910                  |
| D $\mu$ sec           | 16.000                 | 16.162                 | 15.754                | 13.653                | 13.003                | 21.164                 | 14.524                 |
| E $\mu$ sec           | 1.120                  | 0.323                  | 0.369                 | 0.320                 | 0.203                 | 2.116                  | 0.559                  |
| fV (Hz)               | 72.188                 | 75.000                 | 60.004                | 70.069                | 75.029                | 66.667                 | 74.551                 |
| O msec                | 13.853                 | 13.333                 | 16.666                | 14.272                | 13.328                | 15.000                 | 13.414                 |
| P msec                | 0.125                  | 0.064                  | 0.124                 | 0.106                 | 0.050                 | 0.086                  | 0.060                  |
| Q msec                | 0.478                  | 0.448                  | 0.600                 | 0.513                 | 0.466                 | 1.114                  | 0.784                  |
| R msec                | 12.480                 | 12.800                 | 15.880                | 13.599                | 12.795                | 13.714                 | 12.549                 |
| S msec                | 0.770                  | 0.021                  | 0.062                 | 0.053                 | 0.017                 | 0.086                  | 0.020                  |
| Clock Frequency (MHz) | 50.000                 | 49.500                 | 65.000                | 75.000                | 78.750                | 30.240                 | 57.284                 |
| Polarity              |                        |                        |                       |                       |                       |                        |                        |
| H.Sync                | Positive               | Positive               | Negative              | Negative              | Positive              | Negative               | Negative               |
| V.Sync                | Positive               | Positive               | Negative              | Negative              | Positive              | Negative               | Negative               |
| Remark                | Separate               | Separate               | Separate              | Separate              | Separate              | Separate               | Separate               |



|                     |                           |                      |                         |
|---------------------|---------------------------|----------------------|-------------------------|
| 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 GG15AS/GG15AS(R)/GG15L\*/GG15L\*(R)/GG15V\*/GG15V\*(R)/GG15E\*/GG15E\*(R) monitor.

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

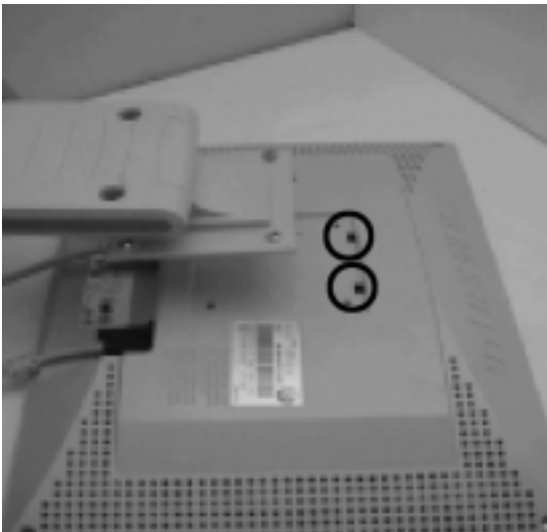
### 3-1 Disassembly

- Cautions:**
1. Disconnect the monitor from the power source before disassembly.
  2. Follow these directions carefully; never use metal instruments to pry apart the cabinet.
  3. R/Cover opening jig : BH81-00001A

#### 3-1-1 GG15L\*/GG15V\*/GG15E\*/GG15L\*(R)/GG15V\*(R)/GG15E\*(R)



1. Remove 4 screws of the stand.

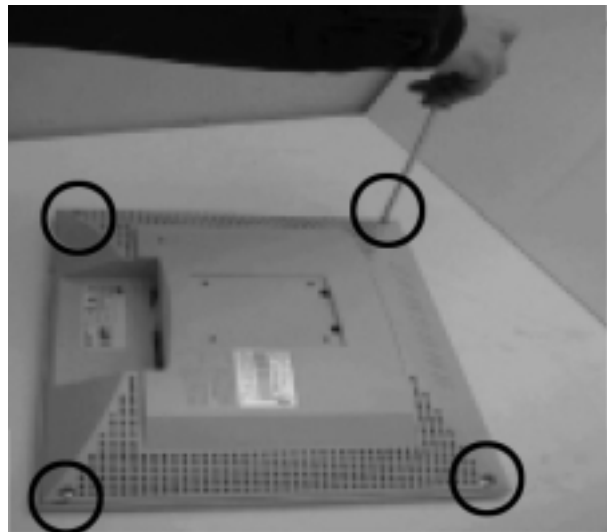


2. Remove the stand from LCD monitor.





3. Disconnect the video cable and power cord.



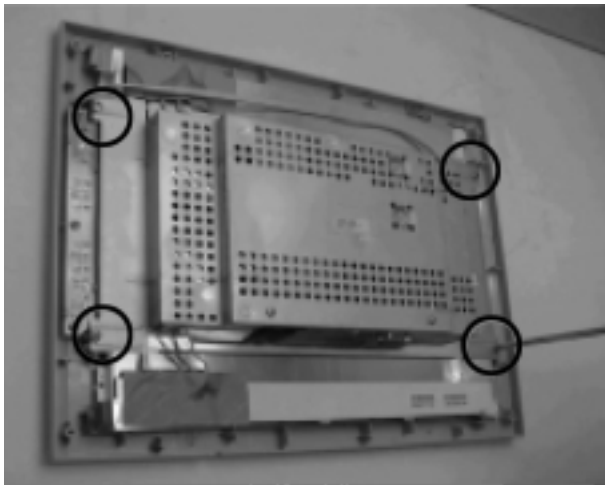
4. Remove 4 screws from the rear cover.



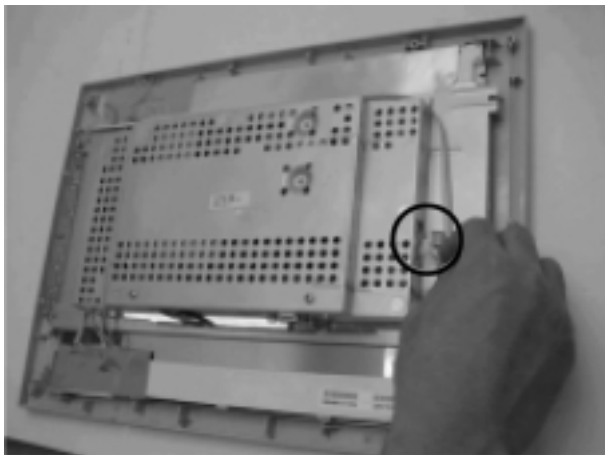
5. Open the rear cover using the jig.



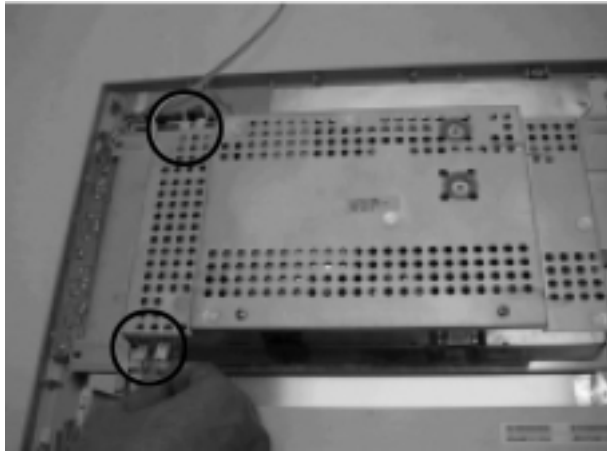
6. Pull the rear cover.



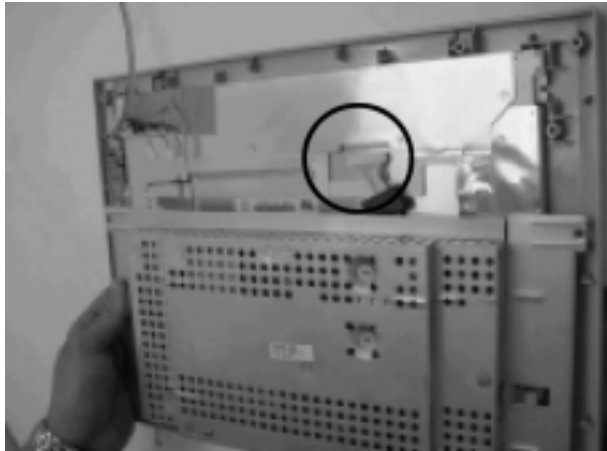
7. Remove 4 screws of the panel.



8. Disconnect the function cable.



9. Disconnect the inverter cable.



10. Disconnect the LVDS cable.

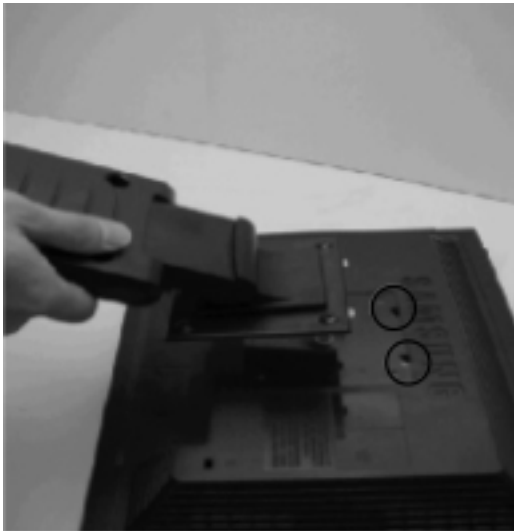
### 3-1-2 GG15AS/GG15AS(R)



1. Disconnect the video cable.



2. Remove 4 screws of the stand.



3. Remove the stand from LCD monitor.



4. Turn the monitor over as the figure above.



5. Open up the top part of front cover.



6. Open the rear cover using the hands.

## 3-2 Reassembly

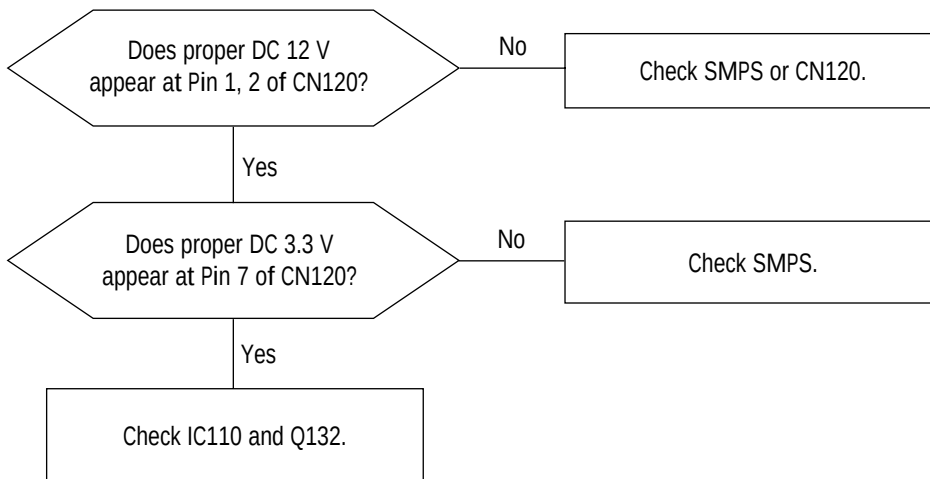
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Reassembly procedures are in the reverse order of disassembly procedures.

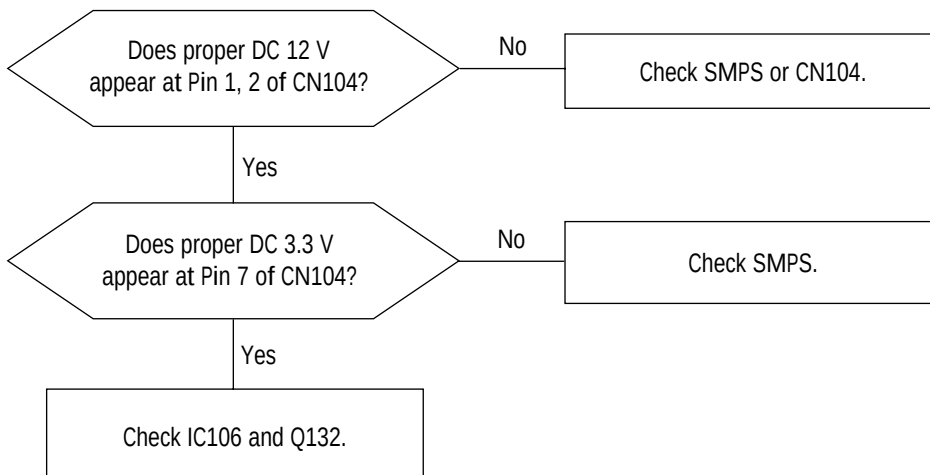
## 4 Troubleshooting

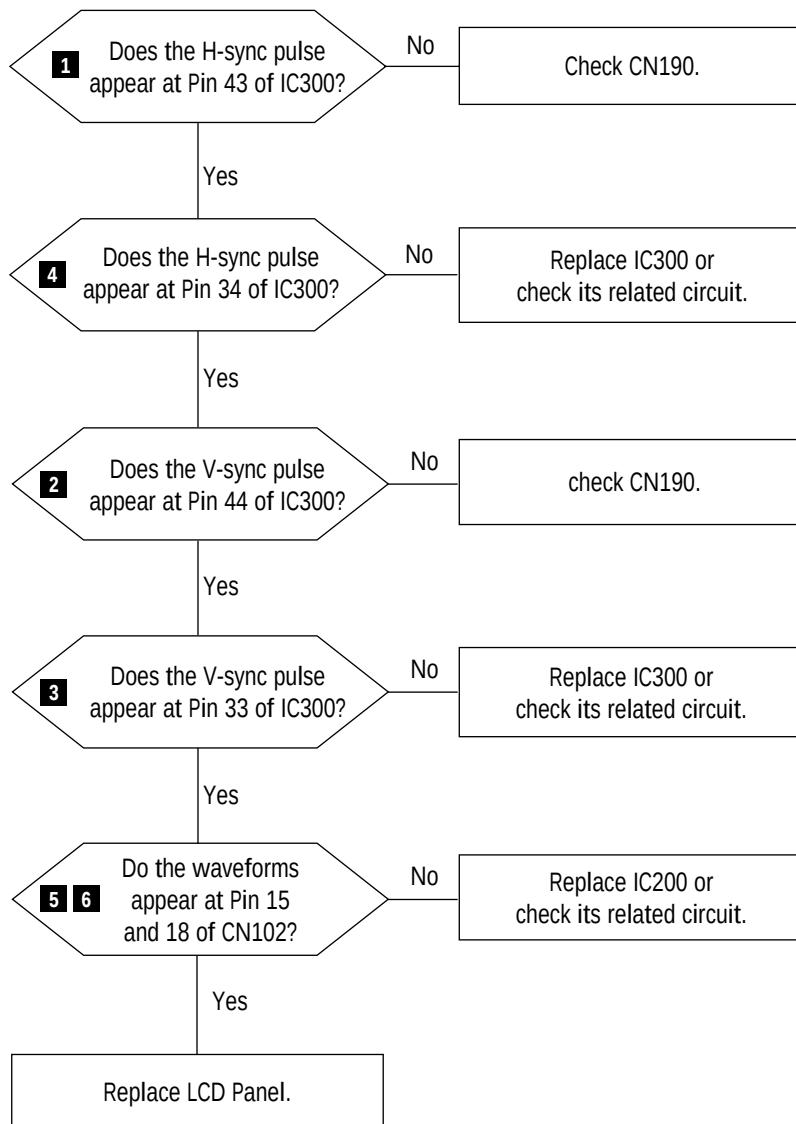
- Notes:**
- Before troubleshooting, setup the PC's display as below.
    - Resolution: 1024 x 768
    - H-frequency: 48 kHz
    - V-frequency: 60 Hz
  - If no picture appears, make sure the power cord is correctly connected.
  - Check the following circuits.
    - No raster appears: Audio PCB, SMPS PCB, Main PCB
    - 12V develop but no screen: Main PCB
    - 12V does not develop: Audio PCB, SMPS PCB
  - If you push and hold the "EXIT" button for more than 5 seconds, the monitor automatically turns back to the factory preset.

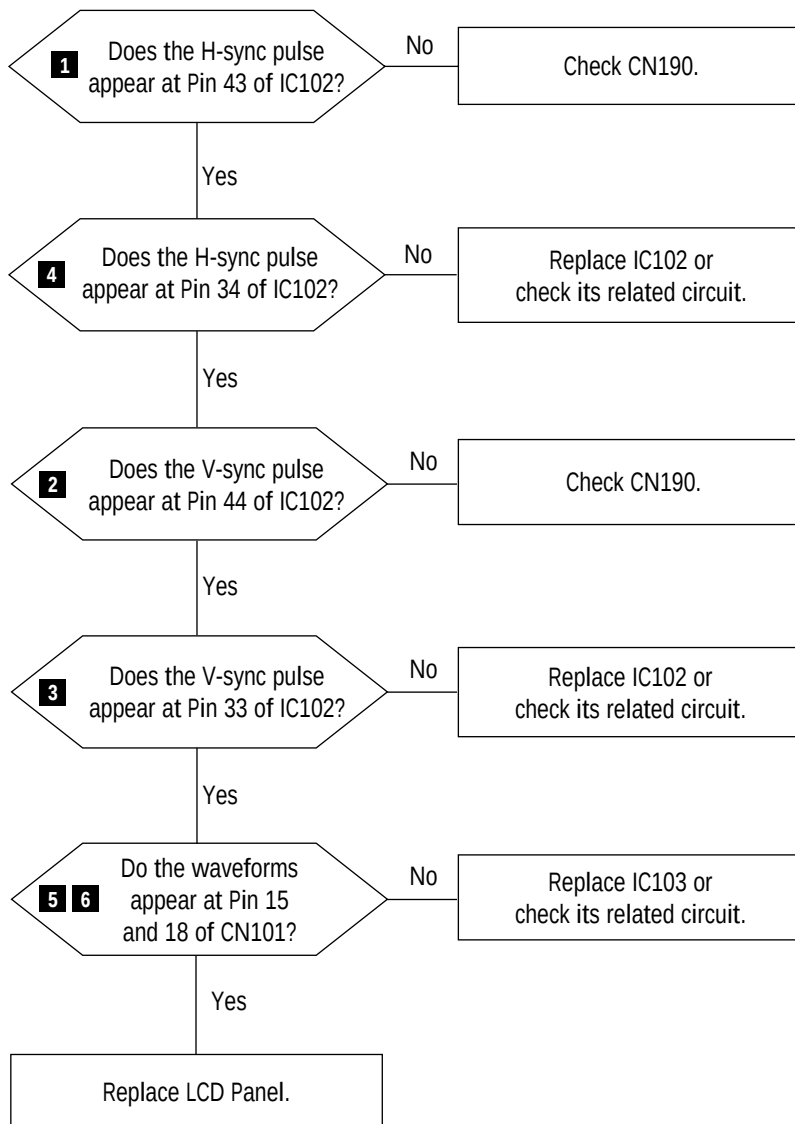
### 4-1 No Power [GG15AS/GG15L\*/GG15V\*/GG15E\*]



#### 4-1-1 No Power [GG15AS(R)/GG15L\*(R)/GG15V\*(R)/GG15E\*(R)]

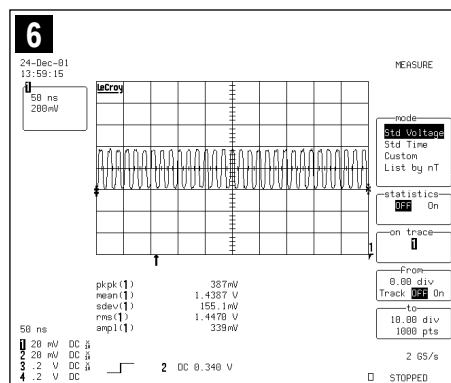
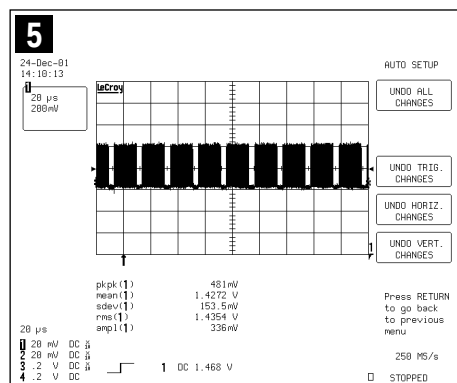
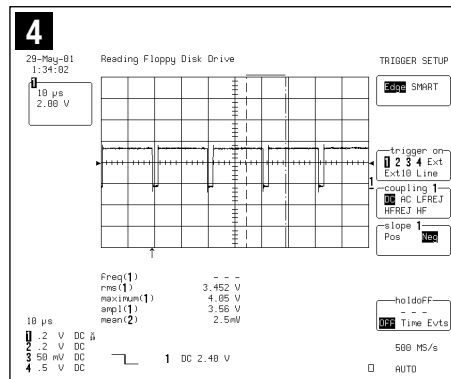
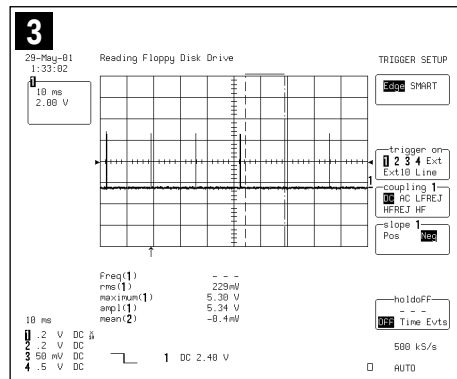
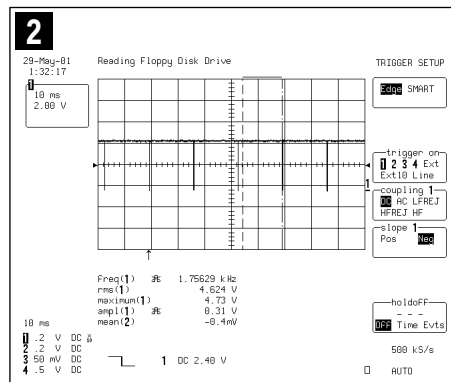
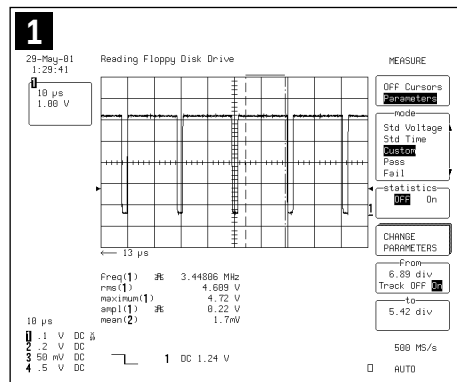


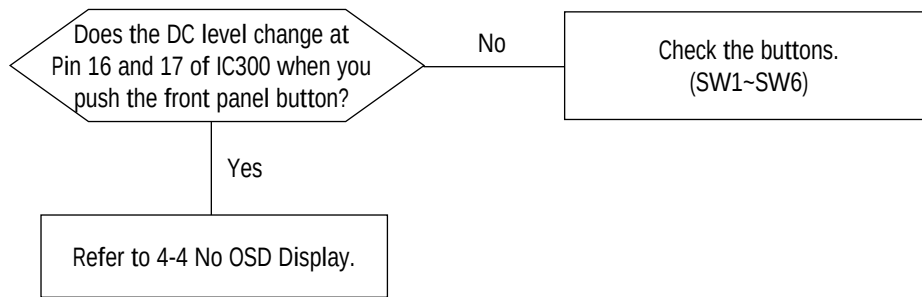
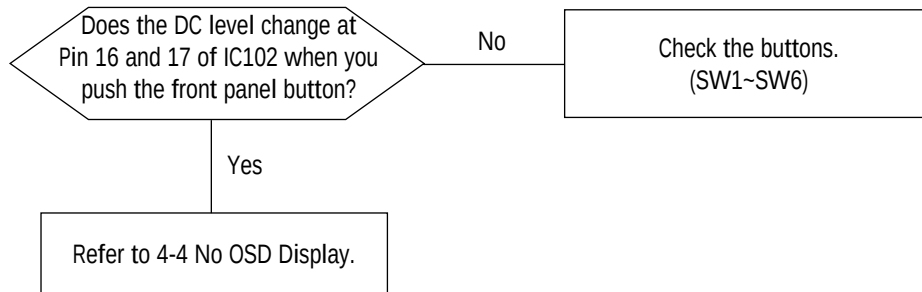
**4-2 No Video [GG15AS/GG15L\*/GG15V\*/GG15E\*]**

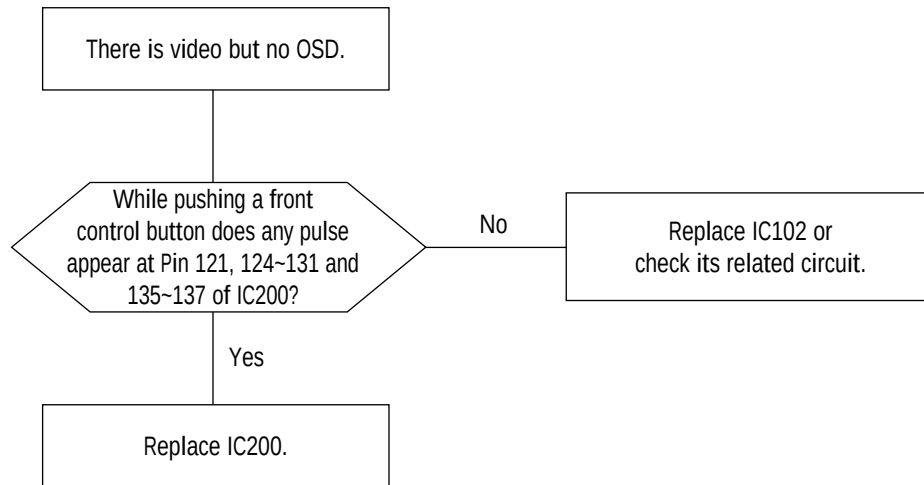
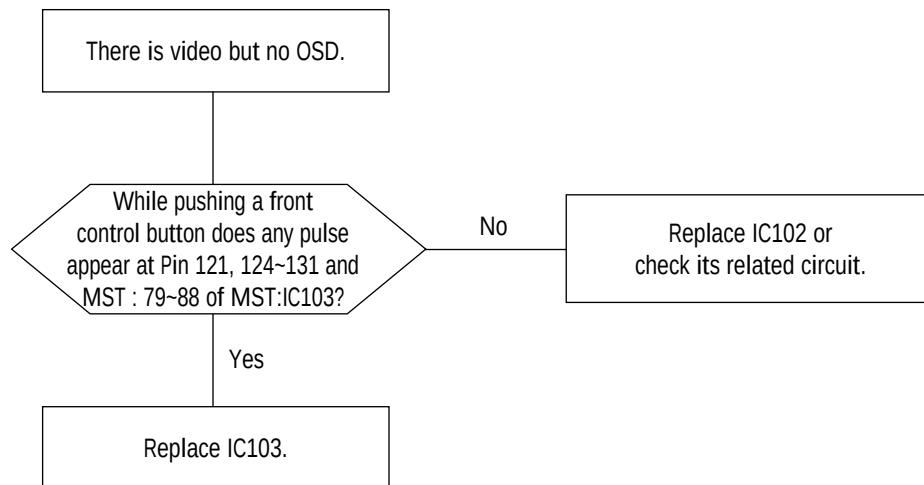
**4-2-1 No Video [GG15AS(R)/GG15L\*(R)/GG15V\*(R)/GG15E\*(R)]**



## WAVEFORMS

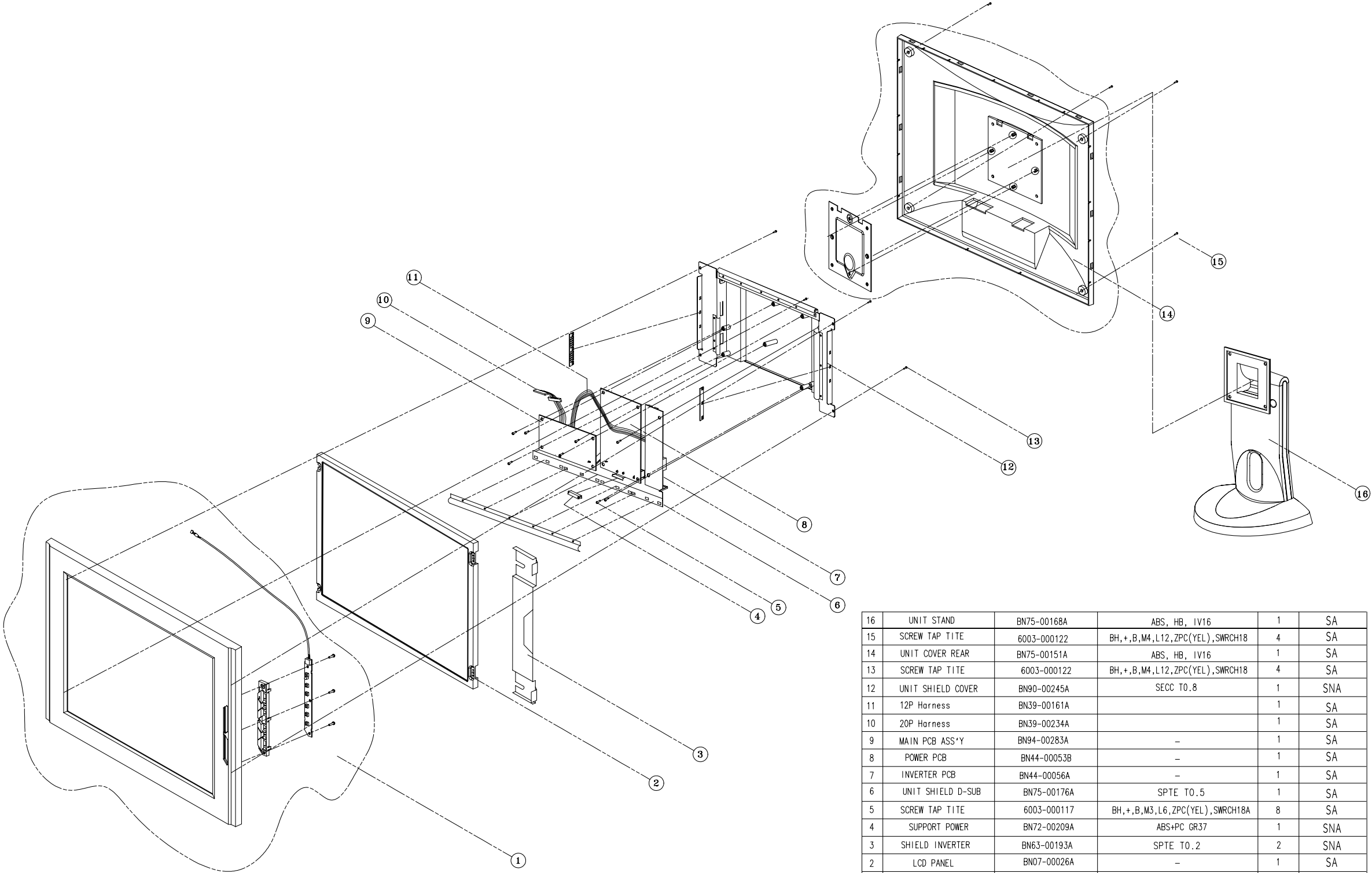


**4-3 User Controls Don't Work [GG15AS/GG15L\*/GG15V\*/GG15E\*]****4-3-1 User Controls Don't Work [GG15AS(R)/GG15L\*(R)/GG15V\*(R)/GG15E\*(R)]**

**4-4 No OSD [GG15AS/GG15L\*/GG15V\*/GG15E\*]****4-4-1 No OSD [GG15AS(R)/GG15L\*(R)/GG15V\*(R)/GG15E\*(R)]**

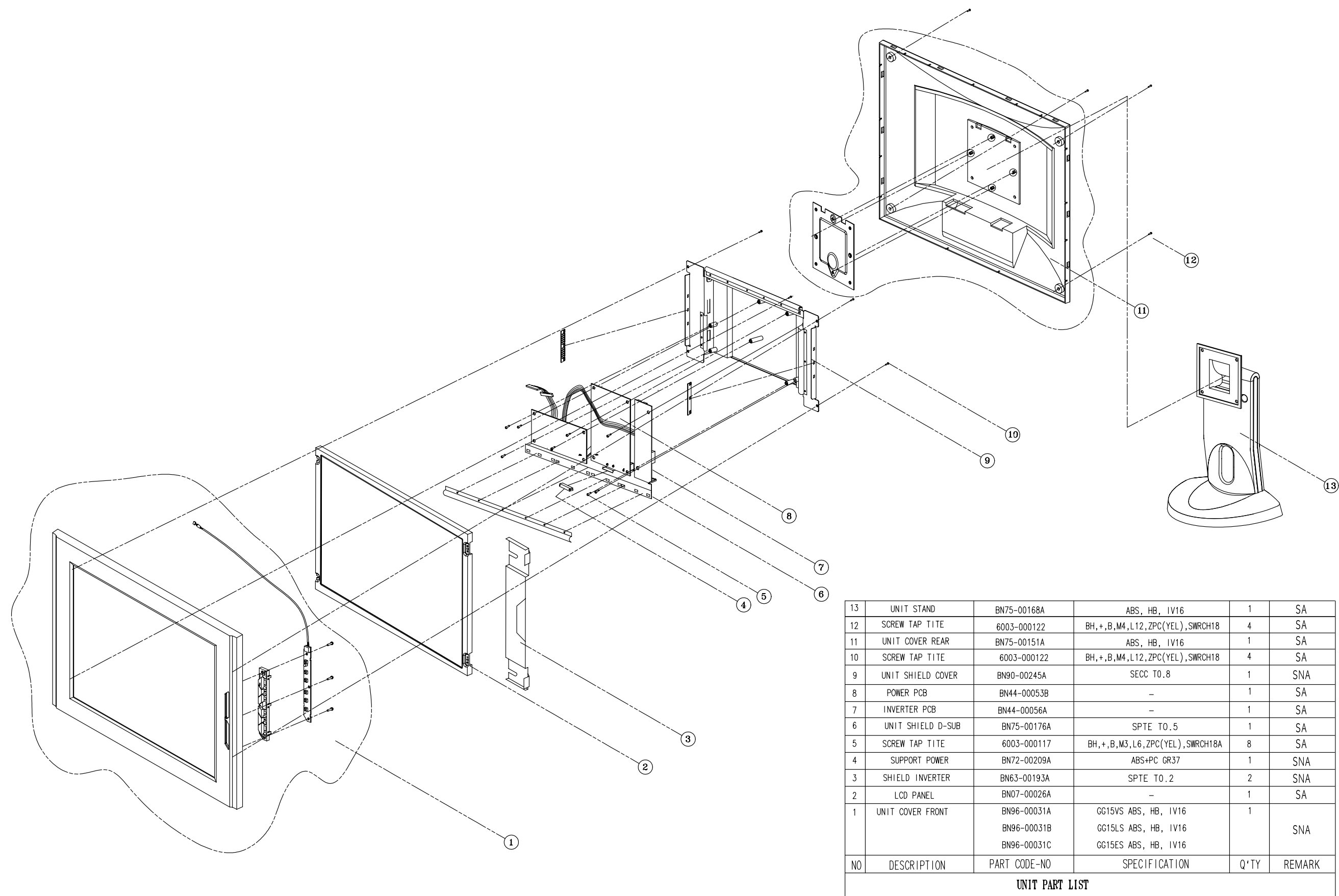
5 Exploded View and Parts List

5-1 GG15L\*/GG15V\*/GG15E\*

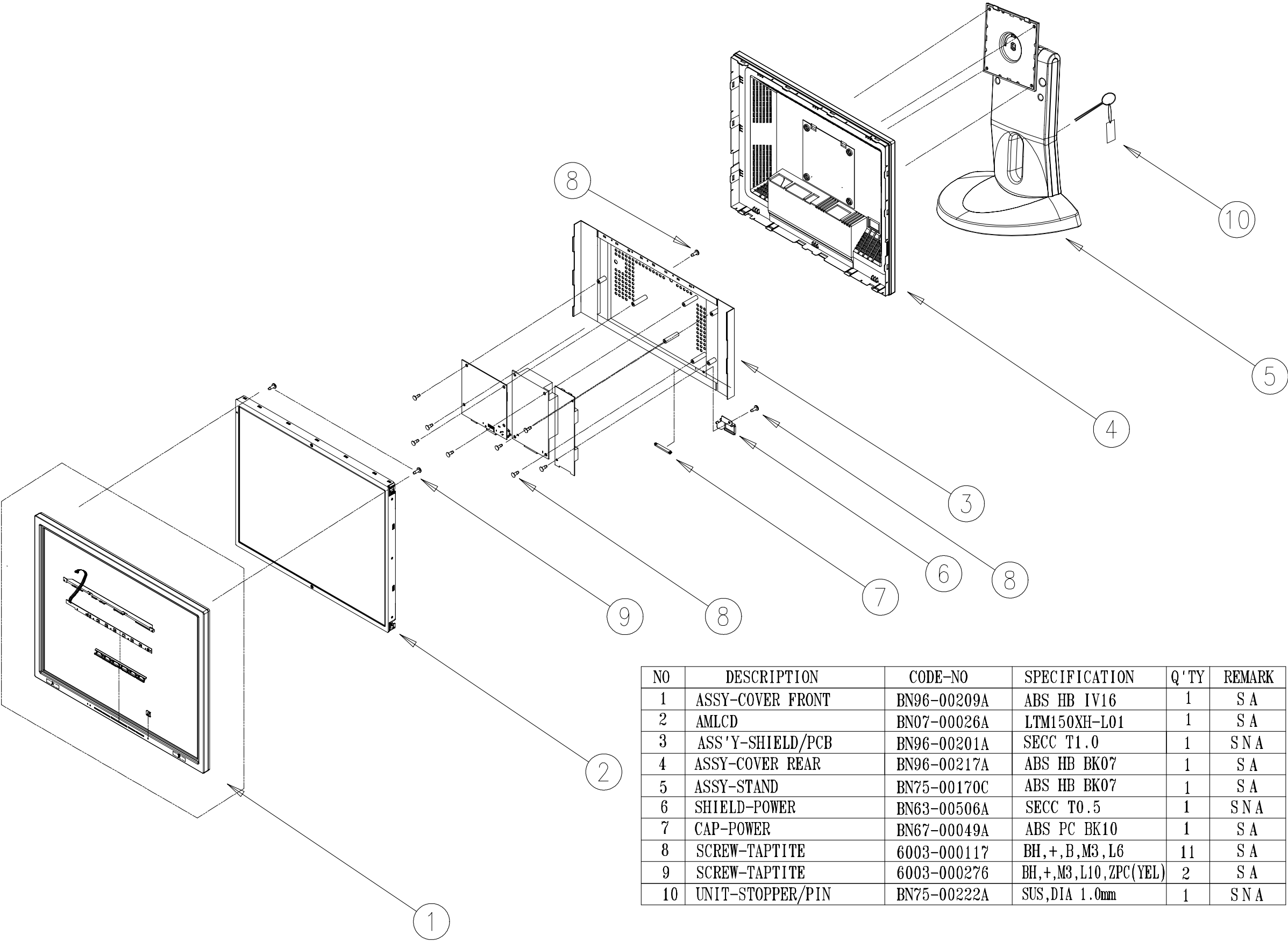


|                |                   |                                           |                                                                      |      |        |
|----------------|-------------------|-------------------------------------------|----------------------------------------------------------------------|------|--------|
| 16             | UNIT STAND        | BN75-00168A                               | ABS, HB, 1V16                                                        | 1    | SA     |
| 15             | SCREW TAP TITE    | 6003-000122                               | BH,+,B,M4,L12,ZPC(YEL),SWRCH18                                       | 4    | SA     |
| 14             | UNIT COVER REAR   | BN75-00151A                               | ABS, HB, 1V16                                                        | 1    | SA     |
| 13             | SCREW TAP TITE    | 6003-000122                               | BH,+,B,M4,L12,ZPC(YEL),SWRCH18                                       | 4    | SA     |
| 12             | UNIT SHIELD COVER | BN90-00245A                               | SECC T0.8                                                            | 1    | SNA    |
| 11             | 12P Harness       | BN39-00161A                               |                                                                      | 1    | SA     |
| 10             | 20P Harness       | BN39-00234A                               |                                                                      | 1    | SA     |
| 9              | MAIN PCB ASS'Y    | BN94-00283A                               | -                                                                    | 1    | SA     |
| 8              | POWER PCB         | BN44-00053B                               | -                                                                    | 1    | SA     |
| 7              | INVERTER PCB      | BN44-00056A                               | -                                                                    | 1    | SA     |
| 6              | UNIT SHIELD D-SUB | BN75-00176A                               | SPTE T0.5                                                            | 1    | SA     |
| 5              | SCREW TAP TITE    | 6003-000117                               | BH,+,B,M3,L6,ZPC(YEL),SWRCH18A                                       | 8    | SA     |
| 4              | SUPPORT POWER     | BN72-00209A                               | ABS+PC GR37                                                          | 1    | SNA    |
| 3              | SHIELD INVERTER   | BN63-00193A                               | SPTE T0.2                                                            | 2    | SNA    |
| 2              | LCD PANEL         | BN07-00026A                               | -                                                                    | 1    | SA     |
| 1              | UNIT COVER FRONT  | BN96-00031A<br>BN96-00031B<br>BN96-00031C | GG15VS ABS, HB, 1V16<br>GG15LS ABS, HB, 1V16<br>GG15ES ABS, HB, 1V16 | 1    | SNA    |
| NO             | DESCRIPTION       | PART CODE-NO                              | SPECIFICATION                                                        | Q'TY | REMARK |
| UNIT PART LIST |                   |                                           |                                                                      |      |        |

5-2 GG15L\*(R)/GG15V\*(R)/GG15E\*(R)



5-3 GG15AS/GG15AS(R)



| NO | DESCRIPTION      | CODE-NO     | SPECIFICATION        | Q'TY | REMARK |
|----|------------------|-------------|----------------------|------|--------|
| 1  | ASSY-COVER FRONT | BN96-00209A | ABS HB IV16          | 1    | S A    |
| 2  | AMLCD            | BN07-00026A | LTM150XH-L01         | 1    | S A    |
| 3  | ASS'Y-SHIELD/PCB | BN96-00201A | SECC T1.0            | 1    | S N A  |
| 4  | ASSY-COVER REAR  | BN96-00217A | ABS HB BK07          | 1    | S A    |
| 5  | ASSY-STAND       | BN75-00170C | ABS HB BK07          | 1    | S A    |
| 6  | SHIELD-POWER     | BN63-00506A | SECC T0.5            | 1    | S N A  |
| 7  | CAP-POWER        | BN67-00049A | ABS PC BK10          | 1    | S A    |
| 8  | SCREW-TAPTITE    | 6003-000117 | BH,+,B,M3,L6         | 11   | S A    |
| 9  | SCREW-TAPTITE    | 6003-000276 | BH,+,M3,L10,ZPC(YEL) | 2    | S A    |
| 10 | UNIT-STOPPER/PIN | BN75-00222A | SUS,DIA 1.0mm        | 1    | S N A  |

Memo

## 6 Electrical Parts List

### 6-1-1 GG15AS/GG15AS(R) Main PCB Parts

| Loc. No. | Code No.    | Description         | Specification                                                                   | Remarks |
|----------|-------------|---------------------|---------------------------------------------------------------------------------|---------|
| -        | BN94-00407A | ASSY PCB MAIN       | GG15AS                                                                          | SNA     |
| C1       | BN83-00081A | CKD-BN44-00056A     | BN44-00056A,2203-000206                                                         | SNA     |
| C10      | BN83-00086A | CKD-BN44-00056A     | BN44-00056A,2203-002793                                                         | SNA     |
| C11      | BN83-00086A | CKD-BN44-00056A     | BN44-00056A,2203-002793                                                         | SNA     |
| C12      | BN83-00082A | CKD-BN44-00056A     | BN44-00056A,2203-001458                                                         | SNA     |
| C13      | BN83-00083A | CKD-BN44-00056A     | BN44-00056A,2203-000455                                                         | SNA     |
| C14      | BN83-00079A | CKD-BN44-00056A     | BN44-00056A,2301-001336                                                         | SNA     |
| C15      | BN83-00080A | CKD-BN44-00056A     | BN44-00056A,2201-002122                                                         | SNA     |
| C16      | BN83-00080A | CKD-BN44-00056A     | BN44-00056A,2201-002122                                                         | SNA     |
| C17      | BN83-00081A | CKD-BN44-00056A     | BN44-00056A,2203-000206                                                         | SNA     |
| C18      | BN83-00081A | CKD-BN44-00056A     | BN44-00056A,2203-000206                                                         | SNA     |
| C19      | BN83-00086A | CKD-BN44-00056A     | BN44-00056A,2203-002793                                                         | SNA     |
| C2       | BN83-00085A | CKD-BN44-00056A     | BN44-00056A,2203-001130                                                         | SNA     |
| C20      | BN83-00086A | CKD-BN44-00056A     | BN44-00056A,2203-002793                                                         | SNA     |
| C21      | BN83-00082A | CKD-BN44-00056A     | BN44-00056A,2203-001458                                                         | SNA     |
| C22      | BN83-00083A | CKD-BN44-00056A     | BN44-00056A,2203-000455                                                         | SNA     |
| C23      | BN83-00081A | CKD-BN44-00056A     | BN44-00056A,2203-000206                                                         | SNA     |
| C3       | BN83-00078A | CKD-BN44-00056A     | BN44-00056A,2401-003400                                                         | SNA     |
| C30      | BN83-00084A | CKD-BN44-00056A     | BN44-00056A,2203-000590                                                         | SNA     |
| C31      | BN83-00084A | CKD-BN44-00056A     | BN44-00056A,2203-000590                                                         | SNA     |
| C5       | BN83-00079A | CKD-BN44-00056A     | BN44-00056A,2301-001336                                                         | SNA     |
| C50      | BN83-00081A | CKD-BN44-00056A     | BN44-00056A,2203-000206                                                         | SNA     |
| C6       | BN83-00080A | CKD-BN44-00056A     | BN44-00056A,2201-002122                                                         | SNA     |
| C7       | BN83-00080A | CKD-BN44-00056A     | BN44-00056A,2201-002122                                                         | SNA     |
| C8       | BN83-00081A | CKD-BN44-00056A     | BN44-00056A,2203-000206                                                         | SNA     |
| C9       | BN83-00081A | CKD-BN44-00056A     | BN44-00056A,2203-000206                                                         | SNA     |
| CIS      | 0203-001315 | TAPE-CONDUCTOR      | DK-K102-30-90,TO.1,W90,L30,GRAY                                                 | SNA     |
| CIS      | BN39-00207D | WIRE HARNESS-SWITCH | GG15AS,UL1617#22,UL/CSA,3/2P,#22,JRA-1102H(S/W),YH396-03V,BK,85MM,1617#22,SJ02- |         |
| CIS      | BN83-00168A | CKD-ML92-20061T     | GG15                                                                            |         |
| CIS      | BN83-00169A | CKD-ML91-00065H     | GG15                                                                            |         |
| CIS      | BN83-00170A | CKD-ML72-00488A     | GG15                                                                            |         |
| CIS      | BN83-00171A | CKD-ML72-00082A     | GG15                                                                            |         |
| CIS      | BN83-00172A | CKD-3711-000203     | GG15                                                                            |         |
| CIS      | BN83-00173A | CKD-2401-003139     | GG15                                                                            |         |
| CIS      | BN83-00174A | CKD-ML39-00579A     | GG15                                                                            |         |
| CIS      | BN83-00175A | CKD-ML62-00214A     | GG15                                                                            |         |
| CIS      | BN83-00176A | CKD-2305-001044     | GG15                                                                            |         |
| CIS      | BN83-00177A | CKD-ML27-00349A     | GG15                                                                            |         |
| CIS      | BN83-00178A | CKD-ML26-00354A     | GG15                                                                            |         |
| CIS      | BN83-00179A | CKD-ML02-00002A     | GG15                                                                            |         |
| CIS      | BN83-00180A | CKD-6021-000154     | GG15                                                                            |         |
| CIS      | BN83-00181A | CKD-6006-000242     | GG15                                                                            |         |
| CIS      | BN83-00182A | CKD-6002-000441     | GG15                                                                            |         |
| CIS      | BN83-00183A | CKD-3721-001050     | GG15                                                                            |         |
| CIS      | BN83-00184A | CKD-1203-002276     | GG15                                                                            |         |
| CIS      | BN83-00185A | CKD-ML90-20036A     | GG15                                                                            |         |
| CIS      | BN83-00186A | CKD-2201-000019     | GG15                                                                            |         |
| CIS      | BN83-00187A | CKD-2004-004038     | GG15                                                                            |         |
| CIS      | BN83-00188A | CKD-2004-000284     | GG15                                                                            |         |
| CIS      | BN83-00189A | CKD-2001-001129     | GG15                                                                            |         |
| CIS      | BN83-00190A | CKD-2001-001113     | GG15                                                                            |         |
| CIS      | BN83-00191A | CKD-2001-000894     | GG15                                                                            |         |
| CIS      | BN83-00192A | CKD-2001-000890     | GG15                                                                            |         |
| CIS      | BN83-00193A | CKD-2201-000163     | GG15                                                                            |         |
| CIS      | BN83-00194A | CKD-ML41-00363A     | GG15                                                                            |         |
| CIS      | BN83-00195A | CKD-ML27-00096A     | GG15                                                                            |         |
| CIS      | BN83-00196A | CKD-6042-001003     | GG15                                                                            |         |
| CIS      | BN83-00197A | CKD-3811-000545     | GG15                                                                            |         |



| Loc. No. | Code No.    | Description      | Specification                                                                    | Remarks |
|----------|-------------|------------------|----------------------------------------------------------------------------------|---------|
| CIS      | BN83-00198A | CKD-2401-001200  | GG15                                                                             |         |
| CIS      | BN83-00199A | CKD-2401-000611  | GG15                                                                             |         |
| CIS      | BN83-00200A | CKD-2301-000016  | GG15                                                                             |         |
| CIS      | BN83-00201A | CKD-2001-000515  | GG15                                                                             |         |
| CIS      | BN83-00202A | CKD-0401-000140  | GG15                                                                             |         |
| CIS      | BN83-00203A | CKD-0402-000546  | GG15                                                                             |         |
| CIS      | BN83-00204A | CKD-0501-000303  | GG15                                                                             |         |
| CIS      | BN83-00205A | CKD-0501-000398  | GG15                                                                             |         |
| CIS      | BN83-00206A | CKD-2001-000003  | GG15                                                                             |         |
| CIS      | BN83-00207A | CKD-2001-000042  | GG15                                                                             |         |
| CIS      | BN83-00208A | CKD-2001-000058  | GG15                                                                             |         |
| CIS      | BN83-00209A | CKD-2001-000429  | GG15                                                                             |         |
| CIS      | BN83-00210A | CKD-2001-000449  | GG15                                                                             |         |
| CIS      | BN83-00211A | CKD-0403-001431  | GG15                                                                             |         |
| CIS      | BN83-00212A | CKD-0403-001429  | GG15                                                                             |         |
| CIS      | BN83-00213A | CKD-0403-001430  | GG15                                                                             |         |
| CIS      | BN83-00214A | CKD-0403-000716  | GG15                                                                             |         |
| CIS      | BN83-00215A | CKD-2201-000126  | GG15                                                                             |         |
| CIS      | BN83-00216A | CKD-2201-000119  | GG15                                                                             |         |
| CIS      | BN83-00217A | CKD-0402-000012  | GG15                                                                             |         |
| CIS      | BN83-00218A | CKD-0402-000495  | GG15                                                                             |         |
| CIS      | BN83-00219A | CKD-2301-001523  | GG15                                                                             |         |
| CIS      | BN83-00220A | CKD-2301-000148  | GG15                                                                             |         |
| CIS      | BN83-00221A | CKD-ML62-00214B  | GG15                                                                             |         |
| CIS      | BN83-00222A | CKD-0604-001218  | GG15                                                                             |         |
| CIS      | BN83-00223A | CKD-0505-001598  | GG15                                                                             |         |
| CIS      | BN83-00224A | CKD-0402-001407  | GG15                                                                             |         |
| CIS      | BN83-00225A | CKD-0402-000580  | GG15                                                                             |         |
| CIS      | BN83-00226A | CKD-ML62-00244A  | GG15                                                                             |         |
| CIS      | BN83-00227A | CKD-1404-001020  | GG15                                                                             |         |
| CIS      | BN83-00228A | CKD-2201-001005  | GG15                                                                             |         |
| CIS      | BN83-00229A | CKD-2003-000738  | GG15                                                                             |         |
| CIS      | BN83-00230A | CKD-2201-001001  | GG15                                                                             |         |
| CIS      | BN83-00231A | CKD-2301-001244  | GG15                                                                             |         |
| CIS      | BN83-00232A | CKD-2401-003589  | GG15                                                                             |         |
| CIS      | BN83-00233A | CKD-2401-003379  | GG15                                                                             |         |
| CIS      | BN83-00234A | CKD-2401-002428  | GG15                                                                             |         |
| CIS      | BN83-00235A | CKD-2401-003725  | GG15                                                                             |         |
| CIS      | BN83-00236A | CKD-0404-001125  | GG15                                                                             |         |
| CIS      | BN83-00237A | CKD-0402-000570  | GG15                                                                             |         |
| CIS      | BN83-00238A | CKD-2401-000677  | GG15                                                                             |         |
| CIS      | BN83-00239A | CKD-2401-001992  | GG15                                                                             |         |
| CIS      | BN83-00240A | CKD-1203-000002  | GG15                                                                             |         |
| CIS      | BN83-00241A | CKD-1203-000187  | GG15                                                                             |         |
| CIS      | BN83-00242A | CKD-3601-001127  | GG15                                                                             |         |
| CIS      | BN83-00243A | CKD-3601-001226  | GG15                                                                             |         |
| CIS      | BN83-00244A | CKD-0202-000178  | GG15                                                                             |         |
| CIS      | BN83-00245A | CKD-0201-001029  | GG15                                                                             |         |
| CIS      | BN83-00246A | CKD-ME02-00020A  | GG15                                                                             |         |
| CIS      | BN83-00247A | CKD-0202-000226  | GG15                                                                             |         |
| CIS      | BN83-00248A | CKD-0202-000211  | GG15                                                                             |         |
| CIS      | BN83-00249A | CKD-0202-001203  | GG15                                                                             |         |
| CIS      | BN83-00250A | CKD-ML68-00573B  | GG15                                                                             |         |
| CIS      | BN83-00251A | CKD-ML68-00516D  | GG15                                                                             |         |
| CIS      | BN83-00252A | CKD-ML68-00516C  | GG15                                                                             |         |
| CIS      | BN83-00137A | CKD-BN44-00056A  | BN44-00056A,2007-000091                                                          | SNA     |
| CIS01    | 0202-001044 | SOLDER-WIRE.     | S63S-W3.0,S63S,D3,63Sn/37Pb,-                                                    | SNA     |
| CIS02    | 0202-001046 | SOLDER-WIRE FLUX | CF-110VH-2A,-,-,-,-                                                              | SNA     |
| CIS03    | 0202-001222 | SOLDER-WIRE FLUX | RS-107,RS60-1.2AA,D1.2,S,N60/PB40,-                                              | SNA     |
| CIS04    | 0204-001095 | THINNER          | #4520,-,-,-,-                                                                    | SNA     |
| CIS05    | BN39-00161A | CBF HARNESS      | GH15LS,UL/CSA,UL1061#28,12P/12P,160MM,WHY,AWG28,51021-1200,51021-1200,-,-,1.25MM |         |

| Loc. No.       | Code No.    | Description         | Specification                                                                    | Remarks |
|----------------|-------------|---------------------|----------------------------------------------------------------------------------|---------|
| CIS06          | BN39-00234A | LEAD CONNECTOR-ASSY | GG15LS,UL1571#30,UL/CSA,20P,#30,12507HS-20,12507HS-20,BK,170MM,1571#30,SJ01-01-3 |         |
| CIS07          | BN67-00049A | CAP-POWER           | LM15PO,ABS PC,-,-,-,BK10,-                                                       |         |
| CIS08          | BN63-00507A | SHIELD-D-SUB        | GG15AS,PBS,T0.15                                                                 |         |
| CIS10          | BN44-00053D | ADAPTOR             | LCD-PSU15(NR,SW),15" NARROW,100-240VAC,47-63HZ,+14VDC/3.3VDC,2A/2A,35W,-10 ~ +40 |         |
| CIS13          | BN44-00056A | INVERTER            | GOGH,SIC1542,48KHZ,12VDC,1.5MARMS,5.6MARMS,48KHZ,37*140*16.0,4LAMP,40-56KV,-,SIC |         |
| CIS14          | BH68-40352A | LABEL-BARCODE       | ALL,ART-PAPER,90G,WHT,BLK,W50*                                                   | SNA     |
| CN1            | BN83-00110A | CKD-BN44-00056A     | BN44-00056A,3711-000556                                                          | SNA     |
| CN120          | 3711-001072 | CONNECTOR-HEADER    | BOX,7P,1R,2MM,STRAIGHT,SN,NTR                                                    |         |
| CN190          | 3701-001219 | CONNECTOR-DSUB      | 15P,3R,FEMALE,ANGLE,AUF                                                          |         |
| CN2            | BN83-00111A | CKD-BN44-00056A     | BN44-00056A,3711-004702                                                          | SNA     |
| CN3            | BN83-00111A | CKD-BN44-00056A     | BN44-00056A,3711-004702                                                          | SNA     |
| CN4            | BN83-00111A | CKD-BN44-00056A     | BN44-00056A,3711-004702                                                          | SNA     |
| CN5            | BN83-00111A | CKD-BN44-00056A     | BN44-00056A,3711-004702                                                          | SNA     |
| D10            | BN83-00074A | CKD-BN44-00056A     | BN44-00056A,0407-000114                                                          | SNA     |
| D12            | BN83-00074A | CKD-BN44-00056A     | BN44-00056A,0407-000114                                                          | SNA     |
| D13            | BN83-00075A | CKD-BN44-00056A     | BN44-00056A,0402-001110                                                          | SNA     |
| D14            | BN83-00076A | CKD-BN44-00056A     | BN44-00056A,0407-000122                                                          | SNA     |
| D15            | BN83-00077A | CKD-BN44-00056A     | BN44-00056A,0407-000116                                                          | SNA     |
| D16            | BN83-00077A | CKD-BN44-00056A     | BN44-00056A,0407-000116                                                          | SNA     |
| D19            | BN83-00074A | CKD-BN44-00056A     | BN44-00056A,0407-000114                                                          | SNA     |
| D2             | BN83-00074A | CKD-BN44-00056A     | BN44-00056A,0407-000114                                                          | SNA     |
| D20            | BN83-00074A | CKD-BN44-00056A     | BN44-00056A,0407-000114                                                          | SNA     |
| D3             | BN83-00075A | CKD-BN44-00056A     | BN44-00056A,0402-001110                                                          | SNA     |
| D4             | BN83-00076A | CKD-BN44-00056A     | BN44-00056A,0407-000122                                                          | SNA     |
| D5             | BN83-00077A | CKD-BN44-00056A     | BN44-00056A,0407-000116                                                          | SNA     |
| D6             | BN83-00077A | CKD-BN44-00056A     | BN44-00056A,0407-000116                                                          | SNA     |
| D7             | BN83-00074A | CKD-BN44-00056A     | BN44-00056A,0407-000114                                                          | SNA     |
| F1             | BN83-00108A | CKD-BN44-00056A     | BN44-00056A,3601-001038                                                          | SNA     |
| IN/PCB+SH/PCB  | 6003-000117 | SCREW-TAPTITE       | BH,+,B,M3,L6,ZPC(YEL),SWRCH18A                                                   | SNA     |
| INSULATOR      | BN83-00113A | CKD-BN44-00056A     | BN44-00056A,LH72-00170A                                                          | SNA     |
| L1             | BN83-00107A | CKD-BN44-00056A     | BN44-00056A,LH27-00145A                                                          | SNA     |
| L2             | BN83-00107A | CKD-BN44-00056A     | BN44-00056A,LH27-00145A                                                          | SNA     |
| M/PCB+SH/PCB   | 6003-000117 | SCREW-TAPTITE       | BH,+,B,M3,L6,ZPC(YEL),SWRCH18A                                                   | SNA     |
| PCB            | BN83-00112A | CKD-BN44-00056A     | BN44-00056A,LH41-00214A                                                          | SNA     |
| POW/PCB+SH/PCB | 6003-000117 | SCREW-TAPTITE       | BH,+,B,M3,L6,ZPC(YEL),SWRCH18A                                                   | SNA     |
| Q1             | BN83-00070A | CKD-BN44-00056A     | BN44-00056A,0504-000129                                                          | SNA     |
| Q10            | BN83-00070A | CKD-BN44-00056A     | BN44-00056A,0504-000129                                                          | SNA     |
| Q11            | BN83-00070A | CKD-BN44-00056A     | BN44-00056A,0504-000129                                                          | SNA     |
| Q12            | BN83-00069A | CKD-BN44-00056A     | BN44-00056A,0501-000457                                                          | SNA     |
| Q13            | BN83-00072A | CKD-BN44-00056A     | BN44-00056A,0505-001160                                                          | SNA     |
| Q14            | BN83-00073A | CKD-BN44-00056A     | BN44-00056A,0501-002186                                                          | SNA     |
| Q15            | BN83-00073A | CKD-BN44-00056A     | BN44-00056A,0501-002186                                                          | SNA     |
| Q16            | BN83-00070A | CKD-BN44-00056A     | BN44-00056A,0504-000129                                                          | SNA     |
| Q17            | BN83-00070A | CKD-BN44-00056A     | BN44-00056A,0504-000129                                                          | SNA     |
| Q18            | BN83-00070A | CKD-BN44-00056A     | BN44-00056A,0504-000129                                                          | SNA     |
| Q2             | BN83-00068A | CKD-BN44-00056A     | BN44-00056A,0504-000158                                                          | SNA     |
| Q23            | BN83-00071A | CKD-BN44-00056A     | BN44-00056A,0501-000462                                                          | SNA     |
| Q24            | BN83-00071A | CKD-BN44-00056A     | BN44-00056A,0501-000462                                                          | SNA     |
| Q3             | BN83-00070A | CKD-BN44-00056A     | BN44-00056A,0504-000129                                                          | SNA     |
| Q4             | BN83-00070A | CKD-BN44-00056A     | BN44-00056A,0504-000129                                                          | SNA     |
| Q5             | BN83-00069A | CKD-BN44-00056A     | BN44-00056A,0501-000457                                                          | SNA     |
| Q6             | BN83-00072A | CKD-BN44-00056A     | BN44-00056A,0505-001160                                                          | SNA     |
| Q7             | BN83-00073A | CKD-BN44-00056A     | BN44-00056A,0501-002186                                                          | SNA     |
| Q8             | BN83-00073A | CKD-BN44-00056A     | BN44-00056A,0501-002186                                                          | SNA     |
| Q9             | BN83-00070A | CKD-BN44-00056A     | BN44-00056A,0504-000129                                                          | SNA     |
| R1             | BN83-00090A | CKD-BN44-00056A     | BN44-00056A,2007-000098                                                          | SNA     |
| R10            | BN83-00101A | CKD-BN44-00056A     | BN44-00056A,2007-000090                                                          | SNA     |
| R100           | BN83-00106A | CKD-BN44-00056A     | BN44-00056A,2104-000224                                                          | SNA     |
| R11            | BN83-00102A | CKD-BN44-00056A     | BN44-00056A,2007-000934                                                          | SNA     |
| R12            | BN83-00102A | CKD-BN44-00056A     | BN44-00056A,2007-000934                                                          | SNA     |
| R13            | BN83-00102A | CKD-BN44-00056A     | BN44-00056A,2007-000934                                                          | SNA     |

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|----------|-------------|-----------------|-------------------------|---------|
| R14      | BN83-00102A | CKD-BN44-00056A | BN44-00056A,2007-000934 | SNA     |
| R19      | BN83-00087A | CKD-BN44-00056A | BN44-00056A,2007-000671 | SNA     |
| R2       | BN83-00088A | CKD-BN44-00056A | BN44-00056A,2007-001010 | SNA     |
| R20      | BN83-00087A | CKD-BN44-00056A | BN44-00056A,2007-000671 | SNA     |
| R21      | BN83-00089A | CKD-BN44-00056A | BN44-00056A,2007-000794 | SNA     |
| R22      | BN83-00089A | CKD-BN44-00056A | BN44-00056A,2007-000794 | SNA     |
| R23      | BN83-00090A | CKD-BN44-00056A | BN44-00056A,2007-000098 | SNA     |
| R24      | BN83-00090A | CKD-BN44-00056A | BN44-00056A,2007-000098 | SNA     |
| R25      | BN83-00091A | CKD-BN44-00056A | BN44-00056A,2007-000096 | SNA     |
| R27      | BN83-00093A | CKD-BN44-00056A | BN44-00056A,2007-000092 | SNA     |
| R28      | BN83-00094A | CKD-BN44-00056A | BN44-00056A,2007-000102 | SNA     |
| R29      | BN83-00090A | CKD-BN44-00056A | BN44-00056A,2007-000098 | SNA     |
| R3       | BN83-00090A | CKD-BN44-00056A | BN44-00056A,2007-000098 | SNA     |
| R30      | BN83-00101A | CKD-BN44-00056A | BN44-00056A,2007-000090 | SNA     |
| R31      | BN83-00092A | CKD-BN44-00056A | BN44-00056A,2007-000872 | SNA     |
| R34      | BN83-00092A | CKD-BN44-00056A | BN44-00056A,2007-000872 | SNA     |
| R35      | BN83-00100A | CKD-BN44-00056A | BN44-00056A,2007-000130 | SNA     |
| R36      | BN83-00101A | CKD-BN44-00056A | BN44-00056A,2007-000090 | SNA     |
| R37      | BN83-00102A | CKD-BN44-00056A | BN44-00056A,2007-000934 | SNA     |
| R38      | BN83-00102A | CKD-BN44-00056A | BN44-00056A,2007-000934 | SNA     |
| R39      | BN83-00102A | CKD-BN44-00056A | BN44-00056A,2007-000934 | SNA     |
| R4       | BN83-00100A | CKD-BN44-00056A | BN44-00056A,2007-000130 | SNA     |
| R40      | BN83-00102A | CKD-BN44-00056A | BN44-00056A,2007-000934 | SNA     |
| R45      | BN83-00087A | CKD-BN44-00056A | BN44-00056A,2007-000671 | SNA     |
| R46      | BN83-00087A | CKD-BN44-00056A | BN44-00056A,2007-000671 | SNA     |
| R47      | BN83-00089A | CKD-BN44-00056A | BN44-00056A,2007-000794 | SNA     |
| R48      | BN83-00089A | CKD-BN44-00056A | BN44-00056A,2007-000794 | SNA     |
| R49      | BN83-00090A | CKD-BN44-00056A | BN44-00056A,2007-000098 | SNA     |
| R5       | BN83-00096A | CKD-BN44-00056A | BN44-00056A,2007-000129 | SNA     |
| R50      | BN83-00090A | CKD-BN44-00056A | BN44-00056A,2007-000098 | SNA     |
| R52      | BN83-00091A | CKD-BN44-00056A | BN44-00056A,2007-000096 | SNA     |
| R54      | BN83-00093A | CKD-BN44-00056A | BN44-00056A,2007-000092 | SNA     |
| R55      | BN83-00090A | CKD-BN44-00056A | BN44-00056A,2007-000098 | SNA     |
| R56      | BN83-00101A | CKD-BN44-00056A | BN44-00056A,2007-000090 | SNA     |
| R57      | BN83-00092A | CKD-BN44-00056A | BN44-00056A,2007-000872 | SNA     |
| R6       | BN83-00097A | CKD-BN44-00056A | BN44-00056A,2007-001114 | SNA     |
| R61      | BN83-00101A | CKD-BN44-00056A | BN44-00056A,2007-000090 | SNA     |
| R62      | BN83-00093A | CKD-BN44-00056A | BN44-00056A,2007-000092 | SNA     |
| R63      | BN83-00089A | CKD-BN44-00056A | BN44-00056A,2007-000794 | SNA     |
| R64      | BN83-00101A | CKD-BN44-00056A | BN44-00056A,2007-000090 | SNA     |
| R65      | BN83-00093A | CKD-BN44-00056A | BN44-00056A,2007-000092 | SNA     |
| R66      | BN83-00089A | CKD-BN44-00056A | BN44-00056A,2007-000794 | SNA     |
| R69      | BN83-00098A | CKD-BN44-00056A | BN44-00056A,2007-000269 | SNA     |
| R70      | BN83-00094A | CKD-BN44-00056A | BN44-00056A,2007-000102 | SNA     |
| R71      | BN83-00099A | CKD-BN44-00056A | BN44-00056A,2007-000093 | SNA     |
| R72      | BN83-00099A | CKD-BN44-00056A | BN44-00056A,2007-000093 | SNA     |
| R73      | BN83-00095A | CKD-BN44-00056A | BN44-00056A,2007-000122 | SNA     |
| R74      | BN83-00095A | CKD-BN44-00056A | BN44-00056A,2007-000122 | SNA     |
| R75      | BN83-00095A | CKD-BN44-00056A | BN44-00056A,2007-000122 | SNA     |
| R76      | BN83-00095A | CKD-BN44-00056A | BN44-00056A,2007-000122 | SNA     |
| R77      | BN83-00094A | CKD-BN44-00056A | BN44-00056A,2007-000102 | SNA     |
| R78      | BN83-00094A | CKD-BN44-00056A | BN44-00056A,2007-000102 | SNA     |
| R79      | BN83-00097A | CKD-BN44-00056A | BN44-00056A,2007-001114 | SNA     |
| R8       | BN83-00092A | CKD-BN44-00056A | BN44-00056A,2007-000872 | SNA     |
| R80      | BN83-00103A | CKD-BN44-00056A | BN44-00056A,2007-000070 | SNA     |
| R81      | BN83-00104A | CKD-BN44-00056A | BN44-00056A,2007-002422 | SNA     |
| R82      | BN83-00104A | CKD-BN44-00056A | BN44-00056A,2007-002422 | SNA     |
| R83      | BN83-00103A | CKD-BN44-00056A | BN44-00056A,2007-000070 | SNA     |
| R84      | BN83-00094A | CKD-BN44-00056A | BN44-00056A,2007-000102 | SNA     |
| R85      | BN83-00094A | CKD-BN44-00056A | BN44-00056A,2007-000102 | SNA     |
| R86      | BN83-00105A | CKD-BN44-00056A | BN44-00056A,2007-000691 | SNA     |

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|-------------------|-------------|------------------------|-------------------------------------------------|---------|
| R87               | BN83-00105A | CKD-BN44-00056A        | BN44-00056A,2007-000691                         | SNA     |
| R9                | BN83-00100A | CKD-BN44-00056A        | BN44-00056A,2007-000130                         | SNA     |
| R91               | BN83-00094A | CKD-BN44-00056A        | BN44-00056A,2007-000102                         | SNA     |
| R92               | BN83-00094A | CKD-BN44-00056A        | BN44-00056A,2007-000102                         | SNA     |
| R93               | BN83-00103A | CKD-BN44-00056A        | BN44-00056A,2007-000070                         | SNA     |
| R94               | BN83-00093A | CKD-BN44-00056A        | BN44-00056A,2007-000092                         | SNA     |
| R95               | BN83-00101A | CKD-BN44-00056A        | BN44-00056A,2007-000090                         | SNA     |
| SH/PCB+BRKT/POW   | 6003-000117 | SCREW-TAPTITE          | BH,+B,M3,L6,ZPC(YEL),SWRCH18A                   | SNA     |
| SH/PCB+LVDS/CABLE | 6003-000117 | SCREW-TAPTITE          | BH,+B,M3,L6,ZPC(YEL),SWRCH18A                   | SNA     |
| T1                | BN83-00109A | CKD-BN44-00056A        | BN44-00056A,LH26-00144A                         | SNA     |
| T2                | BN83-00109A | CKD-BN44-00056A        | BN44-00056A,LH26-00144A                         | SNA     |
| U1                | BN83-00066A | CKD-BN44-00056A        | BN44-00056A,1201-000471                         | SNA     |
| U2                | BN83-00067A | CKD-BN44-00056A        | BN44-00056A,1202-000104                         | SNA     |
| U3                | BN83-00067A | CKD-BN44-00056A        | BN44-00056A,1202-000104                         | SNA     |
| U4                | BN83-00065A | CKD-BN44-00056A        | BN44-00056A,1203-000560                         | SNA     |
| U5                | BN83-00067A | CKD-BN44-00056A        | BN44-00056A,1202-000104                         | SNA     |
| CIS11             | BN96-00210A | ASSY MISC P-SHIELD-PCB | GG15AS,SECC/SPT T0.5                            |         |
| -                 | BN97-00185A | ASSY SMD               | GG15AS                                          | SNA     |
| BD01              | 3301-000314 | CORE-FERRITE BEAD      | AB,120ohm,1.6x0.8x0.8mm,150mA,TP,FERRITE,0.2ohm | SNA     |
| BD02              | 3301-000314 | CORE-FERRITE BEAD      | AB,120ohm,1.6x0.8x0.8mm,150mA,TP,FERRITE,0.2ohm | SNA     |
| BD03              | 3301-000314 | CORE-FERRITE BEAD      | AB,120ohm,1.6x0.8x0.8mm,150mA,TP,FERRITE,0.2ohm | SNA     |
| BD04              | 3301-000314 | CORE-FERRITE BEAD      | AB,120ohm,1.6x0.8x0.8mm,150mA,TP,FERRITE,0.2ohm | SNA     |
| BD05              | 3301-000314 | CORE-FERRITE BEAD      | AB,120ohm,1.6x0.8x0.8mm,150mA,TP,FERRITE,0.2ohm | SNA     |
| BD06              | 3301-000314 | CORE-FERRITE BEAD      | AB,120ohm,1.6x0.8x0.8mm,150mA,TP,FERRITE,0.2ohm | SNA     |
| BD07              | 3301-000314 | CORE-FERRITE BEAD      | AB,120ohm,1.6x0.8x0.8mm,150mA,TP,FERRITE,0.2ohm | SNA     |
| BD180             | 2703-001334 | INDUCTOR-SMD           | 1.5uH,10%,2x1.25x0.85mm                         |         |
| BD181             | 2703-001334 | INDUCTOR-SMD           | 1.5uH,10%,2x1.25x0.85mm                         |         |
| BD190             | 2703-001334 | INDUCTOR-SMD           | 1.5uH,10%,2x1.25x0.85mm                         |         |
| BD191             | 2703-001334 | INDUCTOR-SMD           | 1.5uH,10%,2x1.25x0.85mm                         |         |
| BD192             | 2703-001334 | INDUCTOR-SMD           | 1.5uH,10%,2x1.25x0.85mm                         |         |
| C01               | 2007-000070 | R-CHIP                 | 0ohm,5%,1/16W,DA,TP,1608                        |         |
| C02               | 2007-000070 | R-CHIP                 | 0ohm,5%,1/16W,DA,TP,1608                        |         |
| C03               | 2007-000070 | R-CHIP                 | 0ohm,5%,1/16W,DA,TP,1608                        |         |
| C110              | 2402-001044 | C-AL,SMD               | 100UF,20%,25V,GP,TP,8.3X8.3X6.3MM               |         |
| C111              | 2203-000257 | C-CERAMIC,CHIP         | 10nF,10%,50V,X7R,TP,1608                        |         |
| C112              | 2402-001042 | C-AL,SMD               | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm               |         |
| C113              | 2203-000257 | C-CERAMIC,CHIP         | 10nF,10%,50V,X7R,TP,1608                        |         |
| C130              | 2203-005809 | C-CERAMIC,CHIP         | 1000nF,10%,16V,X7R,TP,2012(T1.25)               |         |
| C131              | 2203-005437 | C-CERAMIC,CHIP         | 10000nF,+80-20%,10V,Y5V,TP,3216                 |         |
| C150              | 2203-005437 | C-CERAMIC,CHIP         | 10000nF,+80-20%,10V,Y5V,TP,3216                 |         |
| C151              | 2203-005809 | C-CERAMIC,CHIP         | 1000nF,10%,16V,X7R,TP,2012(T1.25)               |         |
| C161              | 2402-000170 | C-AL,SMD               | 1uF,20%,50V,GP,TP,4.3x4.3x5.4                   |         |
| C170              | 2203-005437 | C-CERAMIC,CHIP         | 10000nF,+80-20%,10V,Y5V,TP,3216                 |         |
| C180              | 2203-000257 | C-CERAMIC,CHIP         | 10nF,10%,50V,X7R,TP,1608                        |         |
| C181              | 2203-000257 | C-CERAMIC,CHIP         | 10nF,10%,50V,X7R,TP,1608                        |         |
| C182              | 2203-000257 | C-CERAMIC,CHIP         | 10nF,10%,50V,X7R,TP,1608                        |         |
| C183              | 2203-000257 | C-CERAMIC,CHIP         | 10nF,10%,50V,X7R,TP,1608                        |         |
| C190              | 2203-000236 | C-CERAMIC,CHIP         | 0.1nF,5%,50V,NPQ,TP,1608                        |         |
| C191              | 2203-000236 | C-CERAMIC,CHIP         | 0.1nF,5%,50V,NPQ,TP,1608                        |         |
| C201              | 2203-000815 | C-CERAMIC,CHIP         | 0.033nF,5%,50V,NPQ,TP,1608                      |         |
| C210              | 2203-005437 | C-CERAMIC,CHIP         | 10000nF,+80-20%,10V,Y5V,TP,3216                 |         |
| C211              | 2203-005005 | C-CERAMIC,CHIP         | 100nF,10%,16V,X7R,TP,1608                       |         |
| C212              | 2203-005005 | C-CERAMIC,CHIP         | 100nF,10%,16V,X7R,TP,1608                       |         |
| C213              | 2203-005005 | C-CERAMIC,CHIP         | 100nF,10%,16V,X7R,TP,1608                       |         |
| C214              | 2203-005065 | C-CERAMIC,CHIP         | 1000nF,+80-20%,10V,Y5V,TP,1608                  |         |
| C215              | 2203-005005 | C-CERAMIC,CHIP         | 100nF,10%,16V,X7R,TP,1608                       |         |
| C216              | 2203-005005 | C-CERAMIC,CHIP         | 100nF,10%,16V,X7R,TP,1608                       |         |
| C217              | 2203-005065 | C-CERAMIC,CHIP         | 1000nF,+80-20%,10V,Y5V,TP,1608                  |         |
| C218              | 2203-005005 | C-CERAMIC,CHIP         | 100nF,10%,16V,X7R,TP,1608                       |         |

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| C219     | 2203-005065 | C-CERAMIC,CHIP        | 1000nF,+80-20%,10V,Y5V,TP,1608                                                |         |
| C220     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C221     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C222     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C223     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C224     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C225     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C226     | 2203-005437 | C-CERAMIC,CHIP        | 10000nF,+80-20%,10V,Y5V,TP,3216                                               |         |
| C230     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C231     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C232     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C233     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C234     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C235     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C236     | 2203-005437 | C-CERAMIC,CHIP        | 10000nF,+80-20%,10V,Y5V,TP,3216                                               |         |
| C240     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C241     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C242     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C243     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C244     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C245     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C246     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C247     | 2203-005437 | C-CERAMIC,CHIP        | 10000nF,+80-20%,10V,Y5V,TP,3216                                               |         |
| C250     | 2203-005065 | C-CERAMIC,CHIP        | 1000nF,+80-20%,10V,Y5V,TP,1608                                                |         |
| C251     | 2203-005065 | C-CERAMIC,CHIP        | 1000nF,+80-20%,10V,Y5V,TP,1608                                                |         |
| C252     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C253     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C260     | 2203-005065 | C-CERAMIC,CHIP        | 1000nF,+80-20%,10V,Y5V,TP,1608                                                |         |
| C261     | 2203-005065 | C-CERAMIC,CHIP        | 1000nF,+80-20%,10V,Y5V,TP,1608                                                |         |
| C262     | 2203-005065 | C-CERAMIC,CHIP        | 1000nF,+80-20%,10V,Y5V,TP,1608                                                |         |
| C263     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C264     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C265     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C266     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C267     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C270     | 2203-000384 | C-CERAMIC,CHIP        | 0.015nF,5%,50V,NP0,TP,1608                                                    |         |
| C271     | 2203-000384 | C-CERAMIC,CHIP        | 0.015nF,5%,50V,NP0,TP,1608                                                    |         |
| C272     | 2203-000384 | C-CERAMIC,CHIP        | 0.015nF,5%,50V,NP0,TP,1608                                                    |         |
| C300     | 2203-005437 | C-CERAMIC,CHIP        | 10000nF,+80-20%,10V,Y5V,TP,3216                                               |         |
| C301     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| C310     | 2203-000626 | C-CERAMIC,CHIP        | 0.022nF,5%,50V,NP0,TP,1608                                                    |         |
| C311     | 2203-000626 | C-CERAMIC,CHIP        | 0.022nF,5%,50V,NP0,TP,1608                                                    |         |
| C320     | 2203-005437 | C-CERAMIC,CHIP        | 10000nF,+80-20%,10V,Y5V,TP,3216                                               |         |
| C321     | 2203-005005 | C-CERAMIC,CHIP        | 100nF,10%,16V,X7R,TP,1608                                                     |         |
| CIS09    | 0202-001162 | SOLDER-CREAM          | RMA-20-21L,S63,-,SN63/PB36.6/AG0.4,FLUX9.5%                                   | SNA     |
| CN102    | 3711-003161 | CONNECTOR-HEADER      | BOX,20P,1R,1.25mm,ANGLE,SN                                                    |         |
| CN108    | 3708-000461 | CONNECTOR-FPC/FFC/PIC | 8P,1mm,SMD,AUF                                                                | SNA     |
| CN170    | 3711-000556 | CONNECTOR-HEADER      | BOX,12P,1R,1.25mm,SMD-A,SN                                                    | SNA     |
| D180     | 0401-001056 | DIODE-SWITCHING       | MMBD4148SE,75V,200MA,SOT-23,TP                                                |         |
| D181     | 0401-001056 | DIODE-SWITCHING       | MMBD4148SE,75V,200MA,SOT-23,TP                                                |         |
| D200     | 0401-001056 | DIODE-SWITCHING       | MMBD4148SE,75V,200MA,SOT-23,TP                                                |         |
| D201     | 0401-001056 | DIODE-SWITCHING       | MMBD4148SE,75V,200MA,SOT-23,TP                                                |         |
| D202     | 0401-001056 | DIODE-SWITCHING       | MMBD4148SE,75V,200MA,SOT-23,TP                                                |         |
| FT120    | 3301-001145 | CORE-FERRITE BEAD     | AB,4.5x1.6x1.6mm,-,-                                                          | SNA     |
| FT130    | 3301-001145 | CORE-FERRITE BEAD     | AB,4.5x1.6x1.6mm,-,-                                                          | SNA     |
| FT150    | 3301-001145 | CORE-FERRITE BEAD     | AB,4.5x1.6x1.6mm,-,-                                                          | SNA     |
| FT160    | 3301-001145 | CORE-FERRITE BEAD     | AB,4.5x1.6x1.6mm,-,-                                                          | SNA     |
| IC110    | 1203-001488 | IC-POS.FIXED REG.     | 7805,TO-252,3P,-,PLASTIC,4.8/5                                                |         |
| IC150    | 1203-002450 | IC-VOLTAGE REGULATOR  | MC33375ST-2.5T3,SOT-223,AP,137MIL,PLASTIC,2.475/2.525V,-,40TO+125C,300MA,-,TP |         |
| IC160    | 1203-002450 | IC-VOLTAGE REGULATOR  | MC33375ST-2.5T3,SOT-223,AP,137MIL,PLASTIC,2.475/2.525V,-,40TO+125C,300MA,-,TP |         |
| IC200    | 1003-001466 | IC-LCD CONTROLLER     | S9001,PQFP,144P,28X28MM,-,-,TR,PLASTIC,3.3V,OTO+70C,-,-,S9001                 |         |

| Loc. No. | Code No.    | Description        | Specification                                                                 | Remarks |
|----------|-------------|--------------------|-------------------------------------------------------------------------------|---------|
| IC300    | 0903-001266 | IC-MICROCONTROLLER | NT68F63,8BIT,PLCC,44P,653MIL,12MHZ,ST,CMOS,PLASTIC,5V,-,0TO+70C,256B,4KB,-,MC |         |
| IC301    | 1103-001023 | IC-EEPROM          | 524C80D81,1028x8BIT,SOP,8P,150MIL,10mS,5V,10%,PLASTIC,0to+70C,110uA,CMOS,TP   |         |
| MP1.0    | BN41-00239A | PCB MAIN           | GG15AS, FR4,4,1.6,110*72*1.6                                                  |         |
| Q130     | 0501-002080 | TR-SMALL SIGNAL    | 2SC2412K,NPN,200mW,SC-59,TP,120-270                                           |         |
| Q131     | 0501-002080 | TR-SMALL SIGNAL    | 2SC2412K,NPN,200mW,SC-59,TP,120-270                                           |         |
| Q132     | 0505-001170 | FET-SILICON        | SI9933ADY-T1,P,-20V,3.4A,0.06ohm,2W,SO-8                                      |         |
| Q140     | 0501-002080 | TR-SMALL SIGNAL    | 2SC2412K,NPN,200mW,SC-59,TP,120-270                                           |         |
| Q300     | 0501-002080 | TR-SMALL SIGNAL    | 2SC2412K,NPN,200mW,SC-59,TP,120-270                                           |         |
| Q301     | 0501-002080 | TR-SMALL SIGNAL    | 2SC2412K,NPN,200mW,SC-59,TP,120-270                                           |         |
| R130     | 2007-000102 | R-CHIP             | 100Kohm,5%,1/16W,DA,TP,1608                                                   |         |
| R131     | 2007-000090 | R-CHIP             | 10KOHM,5%,1/16W,DA,TP,1608                                                    |         |
| R132     | 2007-000102 | R-CHIP             | 100Kohm,5%,1/16W,DA,TP,1608                                                   |         |
| R133     | 2007-000090 | R-CHIP             | 10KOHM,5%,1/16W,DA,TP,1608                                                    |         |
| R140     | 2007-000090 | R-CHIP             | 10KOHM,5%,1/16W,DA,TP,1608                                                    |         |
| R141     | 2007-000090 | R-CHIP             | 10KOHM,5%,1/16W,DA,TP,1608                                                    |         |
| R142     | 2007-000090 | R-CHIP             | 10KOHM,5%,1/16W,DA,TP,1608                                                    |         |
| R143     | 2007-000070 | R-CHIP             | 0ohm,5%,1/16W,DA,TP,1608                                                      |         |
| R170     | 2007-000078 | R-CHIP             | 1Kohm,5%,1/16W,DA,TP,1608                                                     |         |
| R190     | 2007-001167 | R-CHIP             | 75ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R191     | 2007-000074 | R-CHIP             | 100ohm,5%,1/16W,DA,TP,1608                                                    |         |
| R200     | 2007-000070 | R-CHIP             | 0ohm,5%,1/16W,DA,TP,1608                                                      |         |
| R210     | 2007-000109 | R-CHIP             | 1Mohm,5%,1/16W,DA,TP,1608                                                     |         |
| R211     | 2007-000090 | R-CHIP             | 10KOHM,5%,1/16W,DA,TP,1608                                                    |         |
| R220     | 2007-000072 | R-CHIP             | 47ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R221     | 2007-000072 | R-CHIP             | 47ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R222     | 2007-000072 | R-CHIP             | 47ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R223     | 2007-000072 | R-CHIP             | 47ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R224     | 2007-000072 | R-CHIP             | 47ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R225     | 2007-000072 | R-CHIP             | 47ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R226     | 2007-000072 | R-CHIP             | 47ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R227     | 2007-000072 | R-CHIP             | 47ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R228     | 2007-000072 | R-CHIP             | 47ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R229     | 2007-000072 | R-CHIP             | 47ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R230     | 2007-000309 | R-CHIP             | 10ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R231     | 2007-000309 | R-CHIP             | 10ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R232     | 2007-001167 | R-CHIP             | 75ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R233     | 2007-001167 | R-CHIP             | 75ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R234     | 2007-001167 | R-CHIP             | 75ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R235     | 2007-000070 | R-CHIP             | 0ohm,5%,1/16W,DA,TP,1608                                                      |         |
| R236     | 2007-000070 | R-CHIP             | 0ohm,5%,1/16W,DA,TP,1608                                                      |         |
| R237     | 2007-000070 | R-CHIP             | 0ohm,5%,1/16W,DA,TP,1608                                                      |         |
| R238     | 2007-000309 | R-CHIP             | 10ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R239     | 2007-000309 | R-CHIP             | 10ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R240     | 2007-000309 | R-CHIP             | 10ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R241     | 2007-000078 | R-CHIP             | 1Kohm,5%,1/16W,DA,TP,1608                                                     |         |
| R250     | 2007-000309 | R-CHIP             | 10ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R251     | 2007-000309 | R-CHIP             | 10ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R301     | 2007-000074 | R-CHIP             | 100ohm,5%,1/16W,DA,TP,1608                                                    |         |
| R302     | 2007-000077 | R-CHIP             | 470ohm,5%,1/16W,DA,TP,1608                                                    |         |
| R303     | 2007-000074 | R-CHIP             | 100ohm,5%,1/16W,DA,TP,1608                                                    |         |
| R304     | 2007-000074 | R-CHIP             | 100ohm,5%,1/16W,DA,TP,1608                                                    |         |
| R305     | 2007-000074 | R-CHIP             | 100ohm,5%,1/16W,DA,TP,1608                                                    |         |
| R306     | 2007-000084 | R-CHIP             | 4.7Kohm,5%,1/16W,DA,TP,1608                                                   |         |
| R307     | 2007-000084 | R-CHIP             | 4.7Kohm,5%,1/16W,DA,TP,1608                                                   |         |
| R308     | 2007-000120 | R-CHIP             | 680ohm,5%,1/16W,DA,TP,1608                                                    |         |
| R309     | 2007-000078 | R-CHIP             | 1Kohm,5%,1/16W,DA,TP,1608                                                     |         |
| R310     | 2007-000078 | R-CHIP             | 1Kohm,5%,1/16W,DA,TP,1608                                                     |         |
| R311     | 2007-000077 | R-CHIP             | 470ohm,5%,1/16W,DA,TP,1608                                                    |         |
| R312     | 2007-000078 | R-CHIP             | 1Kohm,5%,1/16W,DA,TP,1608                                                     |         |
| R314     | 2007-000078 | R-CHIP             | 1Kohm,5%,1/16W,DA,TP,1608                                                     |         |
| R315     | 2007-000084 | R-CHIP             | 4.7Kohm,5%,1/16W,DA,TP,1608                                                   |         |

| Loc. No. | Code No.    | Description | Specification                       | Remarks |
|----------|-------------|-------------|-------------------------------------|---------|
| R322     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R323     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R324     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R325     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R326     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R327     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R328     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R329     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R330     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R331     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R332     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R333     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R334     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R335     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R336     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R337     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R338     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R339     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R340     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R341     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R342     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R343     | 2007-000092 | R-CHIP      | 15Kohm,5%,1/16W,DA,TP,1608          |         |
| R344     | 2007-000092 | R-CHIP      | 15Kohm,5%,1/16W,DA,TP,1608          |         |
| R345     | 2007-000084 | R-CHIP      | 4.7Kohm,5%,1/16W,DA,TP,1608         |         |
| R346     | 2007-000084 | R-CHIP      | 4.7Kohm,5%,1/16W,DA,TP,1608         |         |
| R350     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R351     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R360     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R361     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R362     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R363     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R364     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R365     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R366     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R367     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R368     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R369     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R371     | 2007-000070 | R-CHIP      | 0ohm,5%,1/16W,DA,TP,1608            |         |
| R380     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R381     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R382     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R383     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R384     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R385     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R390     | 2007-000109 | R-CHIP      | 1Mohm,5%,1/16W,DA,TP,1608           |         |
| R391     | 2007-000070 | R-CHIP      | 0ohm,5%,1/16W,DA,TP,1608            |         |
| R900     | 2007-000121 | R-CHIP      | 820ohm,5%,1/16W,DA,TP,1608          |         |
| R901     | 2007-000121 | R-CHIP      | 820ohm,5%,1/16W,DA,TP,1608          |         |
| R902     | 2007-000121 | R-CHIP      | 820ohm,5%,1/16W,DA,TP,1608          |         |
| X200     | 2801-003667 | CRYSTAL-SMD | 14.3182MHZ,50PPM,28-AAN,16,50OHM,TP |         |
| X300     | 2801-003773 | CRYSTAL-SMD | 12MHZ,30PPM,28-AAN,20PF,50OHM,TP    |         |
| ZD190    | 0403-000579 | DIODE-ZENER | BZX84C5V1,5.1V,5%,200mW,SOT-23      |         |
| ZD191    | 0403-000579 | DIODE-ZENER | BZX84C5V1,5.1V,5%,200mW,SOT-23      |         |
| ZD192    | 0403-000579 | DIODE-ZENER | BZX84C5V1,5.1V,5%,200mW,SOT-23      |         |
| ZD193    | 0403-000579 | DIODE-ZENER | BZX84C5V1,5.1V,5%,200mW,SOT-23      |         |
| ZD194    | 0403-000579 | DIODE-ZENER | BZX84C5V1,5.1V,5%,200mW,SOT-23      |         |

## 6-1-2 GG15AS/GG15AS(R) Others

| Loc. No.                                                                       | Code No.                                                                                                                                                                                                                          | Description                                                                                                                                                                                                                       | Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Remarks                                                                                               |
|--------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| -<br>CIS                                                                       | BN90-00168B<br>BN75-00168B                                                                                                                                                                                                        | ASSY STAND<br>UNIT-STAND                                                                                                                                                                                                          | GH15-SS,WW,ABS/HB,BK07,WW<br>GH15-SS,WW,ABS/HB,-,BK07,-,NO SIDE BAR COLO,-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | SNA                                                                                                   |
| -                                                                              | BN90-00451A                                                                                                                                                                                                                       | ASSY COVER REAR                                                                                                                                                                                                                   | GG15AS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SNA                                                                                                   |
| C/R<br>C/R<br>C/R                                                              | BN96-00217A<br>BN63-00504A<br>BN70-00176A                                                                                                                                                                                         | ASSY COVER P-REAR<br>COVER-REAR<br>BRACKET VESA                                                                                                                                                                                   | GG15AS,ABS,BK07<br>GG15AS,ABS HB BK07<br>RB15AS,SECC,1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SNA                                                                                                   |
| -<br>C/F+PAN                                                                   | BN90-00460B<br>6003-000276                                                                                                                                                                                                        | ASSY COVER FRONT<br>SCREW-TAPTITE                                                                                                                                                                                                 | GG15LS<br>BH,+,B,M3,L10,ZPC(YEL),SWCH10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | SNA<br>SNA                                                                                            |
| CIS<br>CIS<br>CIS<br>CIS<br>CIS<br>CIS                                         | BN96-00209B<br>BN59-00229A<br>BN61-00067A<br>BN63-00503A<br>BN64-00038D<br>BN67-00021A                                                                                                                                            | ASSY COVER P-FRONT<br>BOARD<br>SUPPORT-FUNCTION<br>COVER-FRONT<br>KNOB-FUNCTION<br>LENS-LED                                                                                                                                       | GG15AS(S/M 151N),ABS HB IV16,SILVER<br>-,FUNCTION ASSY,-,-,-,-<br>GH19PS,ABS+PC 5V,-,-,-,IV16,-<br>GG15AS,ABS HB BK07<br>GG15AS,ABS HB,IV16,SILVER<br>GH18PS,ACRYL,CLR,-,-,-,-                                                                                                                                                                                                                                                                                                                                                                                                                                           | SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA                                                                |
| -<br>CIS                                                                       | BN91-00388H<br>BN07-00042A                                                                                                                                                                                                        | ASSY LCD<br>LCD                                                                                                                                                                                                                   | RB-SL15TO<br>TM150KG-26L06,CNS,6BIT FRC,331.6*254.7*12.5,16.1M,40,0.297*0.297,0-40,3,3,TORISA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SNA                                                                                                   |
| -                                                                              | BN91-00557A                                                                                                                                                                                                                       | ASSY CHASSIS                                                                                                                                                                                                                      | GG15AS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SNA                                                                                                   |
| -<br>CIS<br>CIS<br>CIS<br>CIS<br>CIS                                           | BN91-00570K<br>BN39-00244A<br>BN63-00055A<br>BN63-00425A<br>BN63-00426A<br>BN63-00545A                                                                                                                                            | ASSY SHIELD<br>CBF SIGNAL<br>GASKET<br>GASKET<br>GASKET<br>GASKET                                                                                                                                                                 | GG15ASSS/XSG<br>BU15A0(T541A),15P/15P,20276-N,1830MM,UL20276,BLACK,D-SUB/MALE,DET. TYPE<br>GH15LS/MS/DS,-,6.0MM,10MM,90MM,-,EMI,-<br>GG15VS,CONDUCTIVE FABRIC,5MM,10MM,250MM,GRAY,71TSSK 10-R5-250-13,71TSSK 10-R5-25<br>GG15VS,CONDUCTIVE FABRIC,5MM,10MM,110MM,GRAY,71TSSK 10-R5-110-13,71TSSK 10-R5-11<br>151N,CONDUCTIVE FABRIC,0.13MM,40MM,100MM,GRAY,DK-K102-40-100-S,CONDUCTIVE TAPE                                                                                                                                                                                                                              | SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA                                                                |
| -<br>CIS<br>CIS                                                                | BN92-00646A<br>BN68-00212B<br>BN68-00219A                                                                                                                                                                                         | ASSY LABEL<br>LABEL RATING<br>LABEL RATING                                                                                                                                                                                        | GG15AS<br>GH15LS,EUROPE,PE,TO.05,90,30,SYNC,-,PE NATURE,-,-<br>W/W,BARCODE,PE,TO.05,60,35,SYNC,-,PE NATURE,-,-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | SNA<br>SNA<br>SNA                                                                                     |
| -<br>P/M<br>P/M<br>P/M<br>P/M<br>P/M<br>P/M<br>P/M<br>P/M<br>P/M<br>P/M        | BN92-00648A<br>0203-001100<br>BH69-00328B<br>BH69-00457B<br>BH69-30002C<br>BH69-30355D<br>BH69-30360A<br>BH69-40349A<br>BH69-40379A<br>BN68-00129A<br>BN69-00140T<br>BN69-00140V<br>BN69-00412A                                   | ASSY P/MATERIAL<br>TAPE-OPP MASKING<br>PAD-EDGE<br>PACKING-PAD<br>BAG-PE<br>BAG-PE/N<br>BAG-AIR<br>PACKING-PALLET<br>PACKING-WRAP<br>LABEL SHIPPING<br>PAD-PALLET COVER<br>PAD-PALLET COVER<br>CUSHION-T/B                        | GG15AS<br>OPP/W75/CLR,TO.05,W75,L800000,CLR<br>ML17,DW3,200,1370,-,-,YEL,-,-<br>GH15,FOAM,T3.0,930,1000<br>LDPE,TO.05,W2400,NO PRINT<br>RN15,HDPE+PE FOAM,0.015+0.5,600,600,NTR,-<br>HDPE,TO.2,W1000*L1800,N,-,ALL<br>WOOD,W1240*L880*H120,3Kg,CMA53<br>LDPE,W500*TO.02,-,-<br>-,LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,-<br>SUN(LSA810),SW,900,3760,-,-,-,-<br>RB15AS,SW4,1200,3530,-,-,-,-,-<br>GG15AS,EPS M50                                                                                                                                                                                                  | SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA                      |
| -<br>CIS<br>CIS<br>CIS<br>CIS<br>CIS<br>CIS<br>CIS<br>CIS<br>CIS<br>CIS<br>CIS | BN92-00666M<br>BH75-10529A<br>BN72-60001A<br>BN72-60002A<br>BN68-00134D<br>BN69-00440B<br>BN92-00668Z<br>BN96-00274Z<br>0203-000214<br>6801-001063<br>BH39-10339H<br>BH68-00376H<br>BH69-30348D<br>BN59-00187A<br>RD-GG15ASSS/XSG | ASSY BOX<br>UNIT-HANDLE PACKING<br>LEVER TOP<br>LEVER BOTTOM<br>LABEL BAR CODE<br>BOX<br>ASSY ACCESSORY<br>ASSY ACCESSORY<br>TAPE-OPP MASKING<br>CARD-REGISTRATION<br>CBF POWER CORD<br>MANUAL-00<br>BAG-PE<br>S/W DRIVER-08<br>4 | GG15ASSS/XSG,SGE,UNITED ARAB EMIRATES<br>LXA410TLMU,PE,-,WHITE,-<br>LSD210TL,PE-LD,WHITE,TFT_LCD<br>LSD210TL,PE-LD,WHITE,TFT_LCD<br>-,ALL,TC099,W/W,ART-PAPER 90G,-,WHT,BLACK,-,-,-<br>S/M151N,W/W,CB-SW4,WHT,OFFSET,A-1,W401D403H204<br>GG15ASSS/XSG,SGE,UNITED ARAB EMIRATES<br>GG15ASSS/XSG,SGE,UNITED ARAB EMIRATES<br>OPP/W50/CLR,TO.05,W50,L400000,<br>-,SAMSUNG,ENG+ARAB,MOJO100,-,W720,L120,-,-<br>DET,H05VV-F,250V/10,16A,BLK,25<br>WIN XP INSTALL GUIDE,SYNCMaster,ENGLISH,W/W,MOJO100G,-,148,210,-,-,-<br>LDPE,TO.05,W240*L356,Y,-,CMG73<br>S/M151S,B,BM,IB/DRIVER,WWW,E/F/S/G/P//SW/R/<br>TORISAN,26L06(ZPD) | SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA<br>SNA |



## 6-2-1 GG15L\*/GG15V\*/GG15E\* Main PCB Parts

| Loc. No. | Code No.    | Description         | Specification                                                                   | Remarks |
|----------|-------------|---------------------|---------------------------------------------------------------------------------|---------|
| -        | BN94-00303J | ASSY PCB MAIN       | GG15ES                                                                          | SNA     |
| BD1      | BN83-00057A | CKD-BN44-00053A     | BN44-00053A,3301-000011                                                         | SNA     |
| BD2      | BN83-00057A | CKD-BN44-00053A     | BN44-00053A,3301-000011                                                         | SNA     |
| C1       | BN83-00025A | CKD-BN44-00053A     | BN44-00053A,PCX2                                                                | SNA     |
| C10      | BN83-00032A | CKD-BN44-00053A     | BN44-00053A,2401-000613                                                         | SNA     |
| C11      | BN83-00033A | CKD-BN44-00053A     | BN44-00053A,2301-000016                                                         | SNA     |
| C12      | BN83-00034A | CKD-BN44-00053A     | BN44-00053A,2201-000163                                                         | SNA     |
| C13      | BN83-00035A | CKD-BN44-00053A     | BN44-00053A,2301-000148                                                         | SNA     |
| C14      | BN83-00036A | CKD-BN44-00053A     | BN44-00053A,CESTX1E102M                                                         | SNA     |
| C15      | BN83-00036A | CKD-BN44-00053A     | BN44-00053A,CESTX1E102M                                                         | SNA     |
| C16      | BN83-00037A | CKD-BN44-00053A     | BN44-00053A,CEUST1A222M                                                         | SNA     |
| C17      | BN83-00037A | CKD-BN44-00053A     | BN44-00053A,CEUST1A222M                                                         | SNA     |
| C18      | BN83-00038A | CKD-BN44-00053A     | BN44-00053A,CEUSL1E471M                                                         | SNA     |
| C19      | BN83-00026A | CKD-BN44-00053A     | BN44-00053A,2301-001244                                                         | SNA     |
| C2       | BN83-00039A | CKD-BN44-00053A     | BN44-00053A,2201-000023                                                         | SNA     |
| C20      | BN83-00027A | CKD-BN44-00053A     | BN44-00053A,2201-002026                                                         | SNA     |
| C3       | BN83-00027A | CKD-BN44-00053A     | BN44-00053A,2201-002026                                                         | SNA     |
| C4       | BN83-00028A | CKD-BN44-00053A     | BN44-00053A,2401-003379                                                         | SNA     |
| C5       | BN83-00029A | CKD-BN44-00053A     | BN44-00053A,2401-001195                                                         | SNA     |
| C6       | BN83-00030A | CKD-BN44-00053A     | BN44-00053A,2202-000654                                                         | SNA     |
| C7       | BN83-00029A | CKD-BN44-00053A     | BN44-00053A,2401-001195                                                         | SNA     |
| C8       | BN83-00031A | CKD-BN44-00053A     | BN44-00053A,2201-000019                                                         | SNA     |
| C9       | 0202-001044 | SOLDER-WIRE         | S63S-W3.0,S63S,D3,63Sn/37Pb,-                                                   | SNA     |
| CIS      | 0202-001046 | SOLDER-WIRE FLUX    | CF-110VH-2A,-,-,-                                                               | SNA     |
| CIS      | 0202-001222 | SOLDER-WIRE FLUX    | RS-107,RS60-1.2AA,D1.2,SN60/PB40,-                                              | SNA     |
| CIS      | 0204-001095 | THINNER             | #4520,-,-,-                                                                     | SNA     |
| CIS      | 2001-001107 | R-CARBON(S)         | 220ohm,5%,1/2W,AA,TP,2.4x6.4mm                                                  |         |
| CIS      | 3713-000197 | CONNECTOR-HOUSING   | 2P,2.5mm,FEMALE,1R                                                              |         |
| CIS      | BH68-40352A | LABEL-BARCODE       | ALL,ART-PAPER,90G,WHT,BLK,W50*                                                  | SNA     |
| CIS      | BN39-00161A | CBF HARNESS         | GH15LS,UL/CSA,UL1061#28,12P/12P,160MM,WHT,AWG28,51021-1200,51021-1200,-,1.25MM  |         |
| CIS      | BN39-00234A | LEAD CONNECTOR-ASSY | GG15LS,UL1571#30,UL/CSA,20P,#30,12507HS-20,BK,170MM,1571#30,SJ01-01-3           |         |
| CIS      | BN44-00053B | ADAPTOR             | DPA30L-90,GG15,90 TO 264 VAC,47 - 63 HZ,12V/3.3V,2A/2A,36W,AC-DC,-10--+40C      |         |
| CIS      | BN83-00059A | CKD-BN44-00053A     | BN44-00053A,HEATSINK—TR1                                                        | SNA     |
| CIS      | BN83-00060A | CKD-BN44-00053A     | BN44-00053A,HEATSINK—TR2                                                        | SNA     |
| CIS      | BN83-00138A | CKD-BUSHING         | BN44-00053A,SK-BU-0002                                                          | SNA     |
| CIS      | BN83-00139A | CKD-LABEL           | BN44-00053A,4M00-2552                                                           | SNA     |
| CIS      | BN83-00140A | CKD-NUT             | BN44-00053A,HT1-M3(ZN)                                                          | SNA     |
| CIS      | BN83-00141A | CKD-POLYESTER TAPE  | BN44-00053A,YL20-680                                                            | SNA     |
| CIS      | BN83-00142A | CKD-RUBBER          | BN44-00053A,4M80-2556                                                           | SNA     |
| CIS      | BN83-00143A | CKD-SCREW           | BN44-00053A,BHTB-M3X6(ZN)                                                       | SNA     |
| CIS      | BN83-00144A | CKD-SCREW           | BN44-00053A,PH-M3X8(ZN)                                                         | SNA     |
| CIS      | BN83-00149A | CKD-BN39-00142B     | BN44-00053B,HARNESS(90MM),BN39-00142B                                           | SNA     |
| CIS      | BN44-00056B | INVERTER            | GH15S,SIC1542T,48KHZ,11.5-14.5,3.6MARMS,6.8MARMS,48KHZ,140*37.0*17.0,4LAMP,48KH |         |
| CIS      | BN83-00065A | CKD-BN44-00056A     | BN44-00056A,1203-000560                                                         | SNA     |
| CIS      | BN83-00066A | CKD-BN44-00056A     | BN44-00056A,1201-000471                                                         | SNA     |
| CIS      | BN83-00067A | CKD-BN44-00056A     | BN44-00056A,1202-000104                                                         | SNA     |
| CIS      | BN83-00068A | CKD-BN44-00056A     | BN44-00056A,0504-000158                                                         | SNA     |
| CIS      | BN83-00069A | CKD-BN44-00056A     | BN44-00056A,0501-000457                                                         | SNA     |
| CIS      | BN83-00070A | CKD-BN44-00056A     | BN44-00056A,0504-000129                                                         | SNA     |
| CIS      | BN83-00071A | CKD-BN44-00056A     | BN44-00056A,0501-000462                                                         | SNA     |
| CIS      | BN83-00072A | CKD-BN44-00056A     | BN44-00056A,0505-001160                                                         | SNA     |
| CIS      | BN83-00073A | CKD-BN44-00056A     | BN44-00056A,0501-002186                                                         | SNA     |
| CIS      | BN83-00074A | CKD-BN44-00056A     | BN44-00056A,0407-000114                                                         | SNA     |
| CIS      | BN83-00075A | CKD-BN44-00056A     | BN44-00056A,0402-001110                                                         | SNA     |
| CIS      | BN83-00076A | CKD-BN44-00056A     | BN44-00056A,0407-000122                                                         | SNA     |
| CIS      | BN83-00077A | CKD-BN44-00056A     | BN44-00056A,0407-000116                                                         | SNA     |
| CIS      | BN83-00078A | CKD-BN44-00056A     | BN44-00056A,2401-003400                                                         | SNA     |
| CIS      | BN83-00079A | CKD-BN44-00056A     | BN44-00056A,2301-001336                                                         | SNA     |
| CIS      | BN83-00080A | CKD-BN44-00056A     | BN44-00056A,2201-002122                                                         | SNA     |
| CIS      | BN83-00081A | CKD-BN44-00056A     | BN44-00056A,2203-000206                                                         | SNA     |
| CIS      | BN83-00082A | CKD-BN44-00056A     | BN44-00056A,2203-001458                                                         | SNA     |
| CIS      | BN83-00083A | CKD-BN44-00056A     | BN44-00056A,2203-000455                                                         | SNA     |
| CIS      | BN83-00084A | CKD-BN44-00056A     | BN44-00056A,2203-000590                                                         | SNA     |

| Loc. No.      | Code No.    | Description      | Specification                  | Remarks |
|---------------|-------------|------------------|--------------------------------|---------|
| CIS           | BN83-00085A | CKD-BN44-00056A  | BN44-00056A,2203-001130        | SNA     |
| CIS           | BN83-00086A | CKD-BN44-00056A  | BN44-00056A,2203-002793        | SNA     |
| CIS           | BN83-00089A | CKD-BN44-00056A  | BN44-00056A,2007-000794        | SNA     |
| CIS           | BN83-00092A | CKD-BN44-00056A  | BN44-00056A,2007-000872        | SNA     |
| CIS           | BN83-00095A | CKD-BN44-00056A  | BN44-00056A,2007-000122        | SNA     |
| CIS           | BN83-00097A | CKD-BN44-00056A  | BN44-00056A,2007-001114        | SNA     |
| CIS           | BN83-00098A | CKD-BN44-00056A  | BN44-00056A,2007-000269        | SNA     |
| CIS           | BN83-00102A | CKD-BN44-00056A  | BN44-00056A,2007-000934        | SNA     |
| CIS           | BN83-00103A | CKD-BN44-00056A  | BN44-00056A,2007-000070        | SNA     |
| CIS           | BN83-00104A | CKD-BN44-00056A  | BN44-00056A,2007-002422        | SNA     |
| CIS           | BN83-00105A | CKD-BN44-00056A  | BN44-00056A,2007-000691        | SNA     |
| CIS           | BN83-00106A | CKD-BN44-00056A  | BN44-00056A,2104-000224        | SNA     |
| CIS           | BN83-00108A | CKD-BN44-00056A  | BN44-00056A,3601-001038        | SNA     |
| CIS           | BN83-00110A | CKD-BN44-00056A  | BN44-00056A,3711-000562        | SNA     |
| CIS           | BN83-00111A | CKD-BN44-00056A  | BN44-00056A,3711-004702        | SNA     |
| CIS           | BN83-00113A | CKD-BN44-00056A  | BN44-00056A,LH72-00170A        | SNA     |
| CIS           | BN83-00137A | CKD-BN44-00056A  | BN44-00056A,2007-000091        | SNA     |
| CIS           | BN83-00150A | CKD-BN44-00056B  | GG15,CKD-BN44-00056B           | SNA     |
| CIS           | BN83-00151A | CKD-BN44-00056B  | GG15,BN44-00056B               | SNA     |
| CIS           | BN83-00152A | CKD-BN44-00056B  | GG15,BN44-00056B               | SNA     |
| CIS           | BN83-00153A | CKD-BN44-00056B  | GG15,BN44-00056B               | SNA     |
| CIS           | BN83-00154A | CKD-BN44-00056B  | GG15,BN44-00056B               | SNA     |
| CIS           | BN83-00155A | CKD-BN44-00056B  | GG15,BN44-00056B               | SNA     |
| CIS           | BN83-00156A | CKD-BN44-00056B  | GG15,BN44-00056B               | SNA     |
| CIS           | BN83-00157A | CKD-BN44-00056B  | GG15,BN44-00056B               | SNA     |
| CIS           | BN83-00158A | CKD-BN44-00056B  | GG15,BN44-00056B               | SNA     |
| CIS           | BN83-00159A | CKD-BN44-00056B  | GG15,BN44-00056B               | SNA     |
| CIS           | BN83-00160A | CKD-BN44-00056B  | GG15,BN44-00056B               | SNA     |
| CIS           | BN83-00161A | CKD-BN44-00056B  | GG15,BN44-00056B               | SNA     |
| CIS           | BN83-00162A | CKD-BN44-00056B  | GG15,BN44-00056B               | SNA     |
| CIS           | BN83-00163A | CKD-BN44-00056B  | GG15,BN44-00056B               | SNA     |
| CIS           | BN72-00209A | GUIDE-POWER      | GH15LS,ABS+PC,5V,GR37          | SNA     |
| CIS           | BN75-00176A | UNIT-SHIELD/DSUB | GH15LS,-,SPTE T0.5,-,-,-,-     | SNA     |
| CIS           | BN70-00204A | SHIELD DSUB      | SPTE,T0.5                      | SNA     |
| CIS           | BN71-00024A | EARTH-PLATE      | GH17LS,SUS,T0.15               | SNA     |
| CIS           | BN83-00061A | CKD-BN44-00053A  | BN44-00053A,3721-001044        | SNA     |
| CN1           | 3711-004853 | CONNECTOR-HEADER | BOX,7P,1R,2MM,ANGLE,SN,WHT     | SNA     |
| CN120         | 3701-001219 | CONNECTOR-DSUB   | 15P,3R,FEMALE,ANGLE,AUF        |         |
| CN190         | 3711-000056 | CONNECTOR-HEADER | BOX,2P,1R,2.5mm,ANGLE,SN       | SNA     |
| CN402         | BN83-00040A | CKD-BN44-00053A  | BN44-00053A,0402-000103        | SNA     |
| D1            | BN83-00041A | CKD-BN44-00053A  | BN44-00053A,0401-000005        | SNA     |
| D2            | BN83-00042A | CKD-BN44-00053A  | BN44-00053A,0402-000012        | SNA     |
| D3            | BN83-00043A | CKD-BN44-00053A  | BN44-00053A,0402-000546        | SNA     |
| D4            | BN83-00044A | CKD-BN44-00053A  | BN44-00053A,UZ27BSD            | SNA     |
| D5            | BN83-00045A | CKD-BN44-00053A  | BN44-00053A,MBR16100CT         | SNA     |
| D6            | BN83-00046A | CKD-BN44-00053A  | BN44-00053A,MBR745             | SNA     |
| D7            | BN83-00047A | CKD-BN44-00053A  | BN44-00053A,UZ4.7BSB           | SNA     |
| D8            | BN83-00058A | CKD-BN44-00053A  | BN44-00053A,SR-5032H           | SNA     |
| FUSE          | BN83-00048A | CKD-BN44-00053A  | BN44-00053A,1203-002276        | SNA     |
| IC1           | BN83-00049A | CKD-BN44-00053A  | BN44-00053A,0604-001018        | SNA     |
| IC2           | BN83-00050A | CKD-BN44-00053A  | BN44-00053A,1203-000002        | SNA     |
| IC3           | 6003-000117 | SCREW-TAPTITE    | BH,+,B,M3,L6,ZPC(YEL),SWRCH18A | SNA     |
| IN/PCB+SH/COV | BN83-00051A | CKD-BN44-00053A  | BN44-00053A,BH27-00050A        | SNA     |
| L1            | BN83-00051A | CKD-BN44-00053A  | BN44-00053A,BH27-00050A        | SNA     |
| L2            | 6003-000117 | SCREW-TAPTITE    | BH,+,B,M3,L6,ZPC(YEL),SWRCH18A | SNA     |
| LVDS+SH/COV   | 6003-000117 | SCREW-TAPTITE    | BH,+,B,M3,L6,ZPC(YEL),SWRCH18A | SNA     |
| M/PCB+SH/COV  | 6003-000117 | SCREW-TAPTITE    | BH,+,B,M3,L6,ZPC(YEL),SWRCH18A | SNA     |
| P/PCB+SH/COV  | BN83-00063A | CKD-BN44-00053A  | BN44-00053A,PCB                | SNA     |
| PCB           | BN83-00052A | CKD-BN44-00053A  | BN44-00053A,MTP2955V           | SNA     |
| Q1            | BN83-00053A | CKD-BN44-00053A  | BN44-00053A,0501-000303        | SNA     |
| Q2            | BN83-00054A | CKD-BN44-00053A  | BN44-00053A,0501-000586        | SNA     |
| Q3            | BN83-00011A | CKD-BN44-00053A  | BN44-00053A,2001-001129        | SNA     |
| R1            | BN83-00018A | CKD-BN44-00053A  | BN44-00053A,2001-000449        | SNA     |
| R10           | BN83-00018A | CKD-BN44-00053A  | BN44-00053A,2001-000449        | SNA     |

| Loc. No.       | Code No.    | Description       | Specification                     | Remarks |
|----------------|-------------|-------------------|-----------------------------------|---------|
| R11            | BN83-00019A | CKD-BN44-00053A   | BN44-00053A,2001-000042           | SNA     |
| R12            | BN83-00020A | CKD-BN44-00053A   | BN44-00053A,2001-000890           | SNA     |
| R13            | BN83-00021A | CKD-BN44-00053A   | BN44-00053A,2004-004038           | SNA     |
| R14            | BN83-00023A | CKD-BN44-00053A   | BN44-00053A,2004-000716           | SNA     |
| R14            | BN83-00022A | CKD-BN44-00053A   | BN44-00053A,2004-000284           | SNA     |
| R15            | BN83-00023A | CKD-BN44-00053A   | BN44-00053A,2004-000716           | SNA     |
| R15            | BN83-00024A | CKD-BN44-00053A   | BN44-00053A,2001-000058           | SNA     |
| R16            | BN83-00019A | CKD-BN44-00053A   | BN44-00053A,2001-000042           | SNA     |
| R17            | BN83-00011A | CKD-BN44-00053A   | BN44-00053A,2001-001129           | SNA     |
| R2             | BN83-00012A | CKD-BN44-00053A   | BN44-00053A,2001-001113           | SNA     |
| R3             | BN83-00012A | CKD-BN44-00053A   | BN44-00053A,2001-001113           | SNA     |
| R4             | BN83-00013A | CKD-BN44-00053A   | BN44-00053A,2003-000738           | SNA     |
| R5             | BN83-00014A | CKD-BN44-00053A   | BN44-00053A,6.8 OHM               | SNA     |
| R6             | BN83-00015A | CKD-BN44-00053A   | BN44-00053A,2001-000429           | SNA     |
| R7             | BN83-00016A | CKD-BN44-00053A   | BN44-00053A,2001-000003           | SNA     |
| R8             | BN83-00017A | CKD-BN44-00053A   | BN44-00053A,2001-000515           | SNA     |
| R9             | 6003-000117 | SCREW-TAPTITE     | BH,+,B,M3,L6,ZPC(YEL),SWRCH18A    | SNA     |
| SH/COV+B/D_SUB | BN83-00064A | CKD-BN44-00053A   | BN44-00053A,INSULATOR             | SNA     |
| SHIELD         | BN83-00056A | CKD-BN44-00053A   | BN44-00053A,BN26-00002A           | SNA     |
| T1             | BN83-00055A | CKD-BN44-00053A   | BN44-00053A,1404-001020           | SNA     |
| TH1            |             |                   |                                   |         |
|                | BN90-00245A | ASSY SHIELD-COVER | GG15LS,-,SECC,T0.8,-,-,-,-        | SNA     |
| CIS            | BN70-00202C | PLATE-COVER       | ,SECC,T1.0,CHANGE CORE C          | SNA     |
| CIS            | BN71-00022A | EARTH PLATE       | RB15AS,SUS,T0.15                  | SNA     |
| CIS            | BN71-00031A | SHIELD PLATE      | GH15LS,SUS,T0.1                   | SNA     |
|                | BN97-00082A | ASSY SMD          | GG15ES-XAD4/1314                  | SNA     |
| -              | 2703-001334 | INDUCTOR-SMD      | 1.5uH,10%,2x1.25x0.85mm           |         |
| BD180          | 2703-001334 | INDUCTOR-SMD      | 1.5uH,10%,2x1.25x0.85mm           |         |
| BD181          | 2703-001334 | INDUCTOR-SMD      | 1.5uH,10%,2x1.25x0.85mm           |         |
| BD190          | 2703-001334 | INDUCTOR-SMD      | 1.5uH,10%,2x1.25x0.85mm           |         |
| BD191          | 2703-001334 | INDUCTOR-SMD      | 1.5uH,10%,2x1.25x0.85mm           |         |
| BD192          | 2203-000257 | C-CERAMIC,CHIP    | 10nF,10%,50V,X7R,TP,1608          |         |
| C100           | 2402-001044 | C-AL,SMD          | 100uF,20%,25V,GP,TP,8.3X8.3X6.3MM |         |
| C110           | 2203-000257 | C-CERAMIC,CHIP    | 10nF,10%,50V,X7R,TP,1608          |         |
| C111           | 2402-001042 | C-AL,SMD          | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm |         |
| C112           | 2203-000257 | C-CERAMIC,CHIP    | 10nF,10%,50V,X7R,TP,1608          |         |
| C113           | 2402-000170 | C-AL,SMD          | 1uF,20%,50V,GP,TP,4.3x4.3x5.4,    |         |
| C130           | 2402-000108 | C-AL,SMD          | 10uF,20%,16V,WT,TP,4.3x4.3x5.4    |         |
| C131           | 2402-000108 | C-AL,SMD          | 10uF,20%,16V,WT,TP,4.3x4.3x5.4    |         |
| C150           | 2402-000170 | C-AL,SMD          | 1uF,20%,50V,GP,TP,4.3x4.3x5.4,    |         |
| C151           | 2402-000170 | C-AL,SMD          | 1uF,20%,50V,GP,TP,4.3x4.3x5.4,    |         |
| C161           | 2402-000108 | C-AL,SMD          | 10uF,20%,16V,WT,TP,4.3x4.3x5.4    |         |
| C170           | 2203-000257 | C-CERAMIC,CHIP    | 10nF,10%,50V,X7R,TP,1608          |         |
| C180           | 2203-000257 | C-CERAMIC,CHIP    | 10nF,10%,50V,X7R,TP,1608          |         |
| C181           | 2203-000257 | C-CERAMIC,CHIP    | 10nF,10%,50V,X7R,TP,1608          |         |
| C182           | 2203-000236 | C-CERAMIC,CHIP    | 0.1nF,5%,50V,NP0,TP,1608          |         |
| C190           | 2203-000236 | C-CERAMIC,CHIP    | 0.1nF,5%,50V,NP0,TP,1608          |         |
| C191           | 2203-000280 | C-CERAMIC,CHIP    | 0.01nF,0.5pF,50V,NP0,TP,1608      |         |
| C201           | 2402-000108 | C-AL,SMD          | 10uF,20%,16V,WT,TP,4.3x4.3x5.4    |         |
| C210           | 2203-005005 | C-CERAMIC,CHIP    | 100nF,10%,16V,X7R,TP,1608         |         |
| C211           | 2203-005005 | C-CERAMIC,CHIP    | 100nF,10%,16V,X7R,TP,1608         |         |
| C212           | 2203-005005 | C-CERAMIC,CHIP    | 100nF,10%,16V,X7R,TP,1608         |         |
| C213           | 2203-005065 | C-CERAMIC,CHIP    | 1000nF,+80-20%,10V,Y5V,TP,1608    |         |
| C214           | 2203-005005 | C-CERAMIC,CHIP    | 100nF,10%,16V,X7R,TP,1608         |         |
| C215           | 2203-005005 | C-CERAMIC,CHIP    | 100nF,10%,16V,X7R,TP,1608         |         |
| C216           | 2203-005065 | C-CERAMIC,CHIP    | 1000nF,+80-20%,10V,Y5V,TP,1608    |         |
| C217           | 2203-005005 | C-CERAMIC,CHIP    | 100nF,10%,16V,X7R,TP,1608         |         |
| C218           | 2203-005065 | C-CERAMIC,CHIP    | 1000nF,+80-20%,10V,Y5V,TP,1608    |         |
| C219           | 2203-005005 | C-CERAMIC,CHIP    | 100nF,10%,16V,X7R,TP,1608         |         |
| C220           | 2203-005005 | C-CERAMIC,CHIP    | 100nF,10%,16V,X7R,TP,1608         |         |
| C221           | 2203-005005 | C-CERAMIC,CHIP    | 100nF,10%,16V,X7R,TP,1608         |         |
| C222           | 2203-005005 | C-CERAMIC,CHIP    | 100nF,10%,16V,X7R,TP,1608         |         |
| C223           | 2203-005005 | C-CERAMIC,CHIP    | 100nF,10%,16V,X7R,TP,1608         |         |

| Loc. No. | Code No.    | Description          | Specification                                                                  | Remarks |
|----------|-------------|----------------------|--------------------------------------------------------------------------------|---------|
| C224     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C225     | 2402-000108 | C-AL,SMD             | 10uF,20%,16V,WT,TP,4.3x4.3x5.4                                                 |         |
| C226     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C230     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C231     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C232     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C233     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C234     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C235     | 2402-000108 | C-AL,SMD             | 10uF,20%,16V,WT,TP,4.3x4.3x5.4                                                 |         |
| C236     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C240     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C241     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C242     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C243     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C244     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C245     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C246     | 2402-000108 | C-AL,SMD             | 10uF,20%,16V,WT,TP,4.3x4.3x5.4                                                 |         |
| C247     | 2203-005065 | C-CERAMIC,CHIP       | 1000nF,+80-20%,10V,Y5V,TP,1608                                                 |         |
| C250     | 2203-005065 | C-CERAMIC,CHIP       | 1000nF,+80-20%,10V,Y5V,TP,1608                                                 |         |
| C251     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C252     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C253     | 2203-005065 | C-CERAMIC,CHIP       | 1000nF,+80-20%,10V,Y5V,TP,1608                                                 |         |
| C260     | 2203-005065 | C-CERAMIC,CHIP       | 1000nF,+80-20%,10V,Y5V,TP,1608                                                 |         |
| C261     | 2203-005065 | C-CERAMIC,CHIP       | 1000nF,+80-20%,10V,Y5V,TP,1608                                                 |         |
| C262     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C263     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C264     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C265     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C266     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C267     | 2203-000384 | C-CERAMIC,CHIP       | 0.015nF,5%,50V,NP0,TP,1608                                                     |         |
| C270     | 2203-000384 | C-CERAMIC,CHIP       | 0.015nF,5%,50V,NP0,TP,1608                                                     |         |
| C271     | 2203-000384 | C-CERAMIC,CHIP       | 0.015nF,5%,50V,NP0,TP,1608                                                     |         |
| C272     | 2402-000108 | C-AL,SMD             | 10uF,20%,16V,WT,TP,4.3x4.3x5.4                                                 |         |
| C300     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C301     | 2203-000626 | C-CERAMIC,CHIP       | 0.022nF,5%,50V,NP0,TP,1608                                                     |         |
| C310     | 2203-000626 | C-CERAMIC,CHIP       | 0.022nF,5%,50V,NP0,TP,1608                                                     |         |
| C311     | 2402-000108 | C-AL,SMD             | 10uF,20%,16V,WT,TP,4.3x4.3x5.4                                                 |         |
| C320     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C321     | 2402-000108 | C-AL,SMD             | 10uF,20%,16V,WT,TP,4.3x4.3x5.4                                                 |         |
| C440     | 2203-000257 | C-CERAMIC,CHIP       | 10nF,10%,50V,X7R,TP,1608                                                       |         |
| C441     | 2203-005005 | C-CERAMIC,CHIP       | 100nF,10%,16V,X7R,TP,1608                                                      |         |
| C442     | 2203-000236 | C-CERAMIC,CHIP       | 0.1nF,5%,50V,NP0,TP,1608                                                       |         |
| C443     | 2203-000257 | C-CERAMIC,CHIP       | 10nF,10%,50V,X7R,TP,1608                                                       |         |
| C444     | 2402-000170 | C-AL,SMD             | 1uF,20%,50V,GP,TP,4.3x4.3x5.4                                                  |         |
| C450     | 0202-001162 | SOLDER-CREAM         | RMA-20-21L,S63,-,SN63/PB36.6/AGO.4,FLUX9.5%                                    | SNA     |
| CIS      | 3711-003161 | CONNECTOR-HEADER     | BOX,20P,1R,1.25mm,ANGLE,SN                                                     |         |
| CN102    | 3711-000556 | CONNECTOR-HEADER     | BOX,12P,1R,1.25mm,SMD-A,SN                                                     | SNA     |
| CN170    | 3711-002049 | CONNECTOR-HEADER     | BOX,6P,1R,1.25mm,SMD-A,SN                                                      | SNA     |
| CN180    | 0401-001056 | DIODE-SWITCHING      | MMBD4148SE,75V,200MA,SOT-23,TP                                                 |         |
| D180     | 0401-001056 | DIODE-SWITCHING      | MMBD4148SE,75V,200MA,SOT-23,TP                                                 |         |
| D181     | 0401-001056 | DIODE-SWITCHING      | MMBD4148SE,75V,200MA,SOT-23,TP                                                 |         |
| D200     | 0401-001056 | DIODE-SWITCHING      | MMBD4148SE,75V,200MA,SOT-23,TP                                                 |         |
| D201     | 0401-001056 | DIODE-SWITCHING      | MMBD4148SE,75V,200MA,SOT-23,TP                                                 |         |
| D202     | 3301-001145 | CORE-FERRITE BEAD    | AB,4.5x1.6x1.6mm,-,-                                                           | SNA     |
| FT120    | 3301-001145 | CORE-FERRITE BEAD    | AB,4.5x1.6x1.6mm,-,-                                                           | SNA     |
| FT130    | 3301-001145 | CORE-FERRITE BEAD    | AB,4.5x1.6x1.6mm,-,-                                                           | SNA     |
| FT150    | 3301-001145 | CORE-FERRITE BEAD    | AB,4.5x1.6x1.6mm,-,-                                                           | SNA     |
| FT160    | 1203-001488 | IC-POS.FIXED REG.    | 7805,TO-252,3P,-,PLASTIC,4,8/5                                                 |         |
| IC110    | 1203-002450 | IC-VOLTAGE REGULATOR | MC33375ST-2.5T3,SOT-223,4P,137MIL,PLASTIC,2.475/2.525V,-,-40TO+125C,300MA,-,TP |         |
| IC150    | 1203-002450 | IC-VOLTAGE REGULATOR | MC33375ST-2.5T3,SOT-223,4P,137MIL,PLASTIC,2.475/2.525V,-,-40TO+125C,300MA,-,TP |         |
| IC160    | 1003-001466 | IC-LCD CONTROLLER    | S9001,PQFP,144P,28X28MM,-,-,TR,PLASTIC,3.3V,0TO+70C,-,-,S9001                  |         |
| IC200    | 1103-001023 | IC-EEPROM            | 524C80D81,1028x8Bit,SOP,8P,150MIL,10mS,5V,10%,PLASTIC,0to+70C,110uA,CMOS,TP    |         |
| IC301    | 1204-000292 | IC-VIDEO SYSTEM      | LM1881M,SOP,8P,150MIL,PLASTIC,                                                 |         |
| IC402    | BN41-00149A | PCB MAIN             | GH15LS,FR4,4,-,1.6,245*158,-,4,-,-                                             | SNA     |

| Loc. No. | Code No.    | Description       | Specification                                   | Remarks |
|----------|-------------|-------------------|-------------------------------------------------|---------|
| MP1.2    | 0501-002080 | TR-SMALL SIGNAL   | 2SC2412K,NPN,200mW,SC-59,TP,120-270             |         |
| Q130     | 0501-002080 | TR-SMALL SIGNAL   | 2SC2412K,NPN,200mW,SC-59,TP,120-270             |         |
| Q131     | 0505-001170 | FET-SILICON       | SI9933ADY-T1,P,-20V,3.4A,0.06ohm,2W,SO-8        |         |
| Q132     | 0501-002080 | TR-SMALL SIGNAL   | 2SC2412K,NPN,200mW,SC-59,TP,120-270             |         |
| Q140     | 0501-002080 | TR-SMALL SIGNAL   | 2SC2412K,NPN,200mW,SC-59,TP,120-270             |         |
| Q300     | 0501-002080 | TR-SMALL SIGNAL   | 2SC2412K,NPN,200mW,SC-59,TP,120-270             |         |
| Q301     | 0501-002080 | TR-SMALL SIGNAL   | 2SC2412K,NPN,200mW,SC-59,TP,120-270             |         |
| Q400     | 0505-001170 | FET-SILICON       | SI9933ADY-T1,P,-20V,3.4A,0.06ohm,2W,SO-8        |         |
| Q402     | 2007-000102 | R-CHIP            | 100Kohm,5%,1/16W,DA,TP,1608                     |         |
| R130     | 2007-000090 | R-CHIP            | 10KOHM,5%,1/16W,DA,TP,1608                      |         |
| R131     | 2007-000102 | R-CHIP            | 100Kohm,5%,1/16W,DA,TP,1608                     |         |
| R132     | 2007-000090 | R-CHIP            | 10KOHM,5%,1/16W,DA,TP,1608                      |         |
| R133     | 2007-000090 | R-CHIP            | 10KOHM,5%,1/16W,DA,TP,1608                      |         |
| R140     | 2007-000090 | R-CHIP            | 10KOHM,5%,1/16W,DA,TP,1608                      |         |
| R141     | 2007-000090 | R-CHIP            | 10KOHM,5%,1/16W,DA,TP,1608                      |         |
| R142     | 2007-000070 | R-CHIP            | 0ohm,5%,1/16W,DA,TP,1608                        |         |
| R143     | 2007-000078 | R-CHIP            | 1Kohm,5%,1/16W,DA,TP,1608                       |         |
| R170     | 3301-000314 | CORE-FERRITE BEAD | AB,120ohm,1.6x0.8x0.8mm,150mA,TP,FERRITE,0.2ohm | SNA     |
| R181     | 3301-000314 | CORE-FERRITE BEAD | AB,120ohm,1.6x0.8x0.8mm,150mA,TP,FERRITE,0.2ohm | SNA     |
| R182     | 3301-000314 | CORE-FERRITE BEAD | AB,120ohm,1.6x0.8x0.8mm,150mA,TP,FERRITE,0.2ohm | SNA     |
| R183     | 2007-001167 | R-CHIP            | 75ohm,5%,1/16W,DA,TP,1608                       |         |
| R190     | 2007-000074 | R-CHIP            | 100ohm,5%,1/16W,DA,TP,1608                      |         |
| R191     | 2007-000070 | R-CHIP            | 0ohm,5%,1/16W,DA,TP,1608                        |         |
| R200     | 2007-000109 | R-CHIP            | 1Mohm,5%,1/16W,DA,TP,1608                       |         |
| R210     | 2007-000090 | R-CHIP            | 10KOHM,5%,1/16W,DA,TP,1608                      |         |
| R211     | 2007-000072 | R-CHIP            | 47ohm,5%,1/16W,DA,TP,1608                       |         |
| R220     | 2007-000072 | R-CHIP            | 47ohm,5%,1/16W,DA,TP,1608                       |         |
| R221     | 2007-000072 | R-CHIP            | 47ohm,5%,1/16W,DA,TP,1608                       |         |
| R222     | 2007-000072 | R-CHIP            | 47ohm,5%,1/16W,DA,TP,1608                       |         |
| R223     | 2007-000072 | R-CHIP            | 47ohm,5%,1/16W,DA,TP,1608                       |         |
| R224     | 2007-000072 | R-CHIP            | 47ohm,5%,1/16W,DA,TP,1608                       |         |
| R225     | 2007-000072 | R-CHIP            | 47ohm,5%,1/16W,DA,TP,1608                       |         |
| R226     | 2007-000072 | R-CHIP            | 47ohm,5%,1/16W,DA,TP,1608                       |         |
| R227     | 2007-000072 | R-CHIP            | 47ohm,5%,1/16W,DA,TP,1608                       |         |
| R228     | 2007-000072 | R-CHIP            | 47ohm,5%,1/16W,DA,TP,1608                       |         |
| R229     | 2007-000309 | R-CHIP            | 10ohm,5%,1/16W,DA,TP,1608                       |         |
| R230     | 2007-000309 | R-CHIP            | 10ohm,5%,1/16W,DA,TP,1608                       |         |
| R231     | 2007-001167 | R-CHIP            | 75ohm,5%,1/16W,DA,TP,1608                       |         |
| R232     | 2007-001167 | R-CHIP            | 75ohm,5%,1/16W,DA,TP,1608                       |         |
| R233     | 2007-001167 | R-CHIP            | 75ohm,5%,1/16W,DA,TP,1608                       |         |
| R234     | 2007-000070 | R-CHIP            | 0ohm,5%,1/16W,DA,TP,1608                        |         |
| R235     | 2007-000070 | R-CHIP            | 0ohm,5%,1/16W,DA,TP,1608                        |         |
| R236     | 2007-000070 | R-CHIP            | 0ohm,5%,1/16W,DA,TP,1608                        |         |
| R237     | 2007-000074 | R-CHIP            | 100ohm,5%,1/16W,DA,TP,1608                      |         |
| R238     | 2007-000074 | R-CHIP            | 100ohm,5%,1/16W,DA,TP,1608                      |         |
| R239     | 2007-000074 | R-CHIP            | 100ohm,5%,1/16W,DA,TP,1608                      |         |
| R240     | 2007-000078 | R-CHIP            | 1Kohm,5%,1/16W,DA,TP,1608                       |         |
| R241     | 2007-000309 | R-CHIP            | 10ohm,5%,1/16W,DA,TP,1608                       |         |
| R250     | 2007-000309 | R-CHIP            | 10ohm,5%,1/16W,DA,TP,1608                       |         |
| R251     | 2007-000070 | R-CHIP            | 0ohm,5%,1/16W,DA,TP,1608                        |         |
| R3       | 2007-000074 | R-CHIP            | 100ohm,5%,1/16W,DA,TP,1608                      |         |
| R301     | 2007-000077 | R-CHIP            | 470ohm,5%,1/16W,DA,TP,1608                      |         |
| R302     | 2007-000074 | R-CHIP            | 100ohm,5%,1/16W,DA,TP,1608                      |         |
| R303     | 2007-000074 | R-CHIP            | 100ohm,5%,1/16W,DA,TP,1608                      |         |
| R304     | 2007-000074 | R-CHIP            | 100ohm,5%,1/16W,DA,TP,1608                      |         |
| R305     | 2007-000084 | R-CHIP            | 4.7Kohm,5%,1/16W,DA,TP,1608                     |         |
| R306     | 2007-000084 | R-CHIP            | 4.7Kohm,5%,1/16W,DA,TP,1608                     |         |
| R307     | 2007-000078 | R-CHIP            | 1Kohm,5%,1/16W,DA,TP,1608                       |         |
| R308     | 2007-000078 | R-CHIP            | 1Kohm,5%,1/16W,DA,TP,1608                       |         |
| R309     | 2007-000078 | R-CHIP            | 1Kohm,5%,1/16W,DA,TP,1608                       |         |
| R310     | 2007-000077 | R-CHIP            | 470ohm,5%,1/16W,DA,TP,1608                      |         |
| R311     | 2007-000120 | R-CHIP            | 680ohm,5%,1/16W,DA,TP,1608                      |         |
| R312     | 2007-000078 | R-CHIP            | 1Kohm,5%,1/16W,DA,TP,1608                       |         |
| R314     | 2007-000084 | R-CHIP            | 4.7Kohm,5%,1/16W,DA,TP,1608                     |         |

| Loc. No. | Code No.    | Description | Specification                       | Remarks |
|----------|-------------|-------------|-------------------------------------|---------|
| R315     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R323     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R324     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R325     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R326     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R327     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R328     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R329     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R330     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R331     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R332     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R333     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R334     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R335     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R336     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R337     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R338     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R339     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R340     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R341     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R342     | 2007-000092 | R-CHIP      | 15Kohm,5%,1/16W,DA,TP,1608          |         |
| R343     | 2007-000092 | R-CHIP      | 15Kohm,5%,1/16W,DA,TP,1608          |         |
| R344     | 2007-000084 | R-CHIP      | 4.7Kohm,5%,1/16W,DA,TP,1608         |         |
| R345     | 2007-000084 | R-CHIP      | 4.7Kohm,5%,1/16W,DA,TP,1608         |         |
| R346     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R350     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R351     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R360     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R361     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R362     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R363     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R364     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R365     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R366     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R367     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R368     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R369     | 2007-000070 | R-CHIP      | 0ohm,5%,1/16W,DA,TP,1608            |         |
| R371     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R380     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R381     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R382     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R383     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R384     | 2007-000078 | R-CHIP      | 1Kohm,5%,1/16W,DA,TP,1608           |         |
| R385     | 2007-000109 | R-CHIP      | 1Mohm,5%,1/16W,DA,TP,1608           |         |
| R390     | 2007-000070 | R-CHIP      | 0ohm,5%,1/16W,DA,TP,1608            |         |
| R391     | 2007-001114 | R-CHIP      | 680Kohm,5%,1/16W,DA,TP,1608         |         |
| R420     | 2007-000074 | R-CHIP      | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R421     | 2007-000076 | R-CHIP      | 330ohm,5%,1/16W,DA,TP,1608          |         |
| R422     | 2007-000102 | R-CHIP      | 100Kohm,5%,1/16W,DA,TP,1608         |         |
| R423     | 2007-000090 | R-CHIP      | 10KOHM,5%,1/16W,DA,TP,1608          |         |
| R424     | 2007-000070 | R-CHIP      | 0ohm,5%,1/16W,DA,TP,1608            |         |
| R5       | 2007-000070 | R-CHIP      | 0ohm,5%,1/16W,DA,TP,1608            |         |
| R8       | 2007-000121 | R-CHIP      | 820ohm,5%,1/16W,DA,TP,1608          |         |
| R900     | 2007-000121 | R-CHIP      | 820ohm,5%,1/16W,DA,TP,1608          |         |
| R901     | 2007-000121 | R-CHIP      | 820ohm,5%,1/16W,DA,TP,1608          |         |
| R902     | 2801-003667 | CRYSTAL-SMD | 14.3182MHZ,50PPM,28-AAN,16,50OHM,TP |         |
| X200     | 2801-003773 | CRYSTAL-SMD | 12MHZ,30PPM,28-AAN,20PF,50OHM,TP    |         |
| X300     | 0403-000579 | DIODE-ZENER | BZX84C5V1,5.1V,5%,200mW,SOT-23      |         |
| ZD190    | 0403-000579 | DIODE-ZENER | BZX84C5V1,5.1V,5%,200mW,SOT-23      |         |
| ZD191    | 0403-000579 | DIODE-ZENER | BZX84C5V1,5.1V,5%,200mW,SOT-23      |         |
| ZD192    | 0403-000579 | DIODE-ZENER | BZX84C5V1,5.1V,5%,200mW,SOT-23      |         |
| ZD193    | 0403-000579 | DIODE-ZENER | BZX84C5V1,5.1V,5%,200mW,SOT-23      |         |
| ZD194    |             |             |                                     |         |

## 6-2-2 GG15L\*/GG15V\*/GG15E\* Others

| Loc. No.   | Code No.    | Description           | Specification                                                                    | Remarks |
|------------|-------------|-----------------------|----------------------------------------------------------------------------------|---------|
| -          | BN90-00174A | ASSY COVER REAR       | GH15LS*N(DS/ES),WW,ABS HB,IV16,SAMSUNG                                           | SNA     |
| CIS        | BN75-00151A | UNIT-COVER REAR       | GH15L/GH15E,WW,ABS HB,-,IV16,-,-,-                                               | SNA     |
| CIS        | BN70-00176A | BRACKET VESA          | RB15AS,SECC,1                                                                    | SNA     |
| CIS        | BN72-00197A | COVER REAR            | GH15LS,ABS,HB,IV16                                                               | SNA     |
| -          | BN90-00175A | ASSY STAND            | GH15-SN,WW,ABS/HB,IV16,WW                                                        | SNA     |
| CIS        | BN75-00168A | UNIT-STAND            | GH15-SN,WW,ABS/HB,-,IV16,-,-,-                                                   | SNA     |
| CIS        | 6001-001546 | SCREW-MACHINE         | BH,+,M4,L10(5),ZPC(IVO),SWRCH18A,FP                                              | SNA     |
| CIS        | 6003-000133 | SCREW-TAPTITE         | BH,+,S,M4,L8,ZPC(YEL),SWRCH18A,-                                                 | SNA     |
| CIS        | 6003-000276 | SCREW-TAPTITE         | BH,+,B,M3,L10,ZPC(YEL),SWCH10                                                    | SNA     |
| CIS        | 6003-000301 | SCREW-TAPTITE         | BH,+,S,M4,L6,ZPC(YEL),SWRCH18A                                                   | SNA     |
| CIS        | BH61-40002A | FOOT-RUBBER           | -,NR,PMS428U,GA4237,-,-,-                                                        | SNA     |
| CIS        | BN61-00048A | FOOT-RUBBER           | GH15LS,PORON,DIA 13.5MM,BLACK,2MM,-,-                                            | SNA     |
| CIS        | BN70-00227A | PLATE-STAND           | GH15PS,SPCC-2B,-,2.0,-,-,-,-                                                     | SNA     |
| CIS        | BN70-00233B | PLATE-BODY/SSTAND     | GH15LS,SPCC-2B,2.0                                                               | SNA     |
| CIS        | BN72-00219A | STAND COVER-BASE      | GH15PS,ABS,HB,IV16                                                               | SNA     |
| CIS        | BN72-00220B | COVER FRONT           | GH15LS,ABS HB,KOREA,COMPUTER,IV16,WITH SIDE BAR COLOR,CKD                        | SNA     |
| CIS        | BN72-00221D | COVER REAR            | YT15LO,ABS V0,IV02                                                               | SNA     |
| CIS        | BN72-00227A | COVER VESA-PLATE      | GH15LS,ABS ,HB,IV16                                                              | SNA     |
| CIS        | BN75-00183A | UNIT-HINGE            | GH15LS,-,SPCC-2B,-,-,-,-                                                         | SNA     |
| -          | BN90-00300A | ASSY COVER FRONT      | GD15ES                                                                           | SNA     |
| C/F+C/R    | 6003-001323 | SCREW-TAPTITE         | BH,+,B,M4,L12,NI PLT,SWRCH18A,-                                                  | SNA     |
| CIS        | BN96-00031C | ASSY COVER P-FRONT    | S/M 151B,EDC,ABS HB,IV16,TCO99                                                   | SNA     |
| -          | BN83-00125A | CKD-BN59-000167A      | BN59-000167A,BN41-00094A                                                         | SNA     |
| -          | BN83-00127A | CKD-BN59-000167A      | BN59-000167A,0601-001036                                                         | SNA     |
| CIS        | 6003-000259 | SCREW-TAPTITE         | BH,+,B,M3,L8,ZPC(YEL),SWRCH18A                                                   | SNA     |
| CIS        | BH68-00035A | LABEL-MARK TCO99(SET) | PE CLEAR,-,CLEAR,PMS032C,286C,BLK,-,TCO99(SET),-                                 | SNA     |
| CIS        | BN59-00255A | BOARD-FUNCTION ASS'Y  | GG15LS,FUNCTION KEY                                                              | SNA     |
| CIS        | BN83-00148A | CKD-BN39-00242B       | BN59-00255A,WAFFER(6P,460MM)                                                     | SNA     |
| CIS        | BN64-00027A | KNOB-FUNCTION         | ,ABS+5V,IV16                                                                     | SNA     |
| CIS        | BN72-00195A | COVER FRONT           | ABS,HB,IV16                                                                      | SNA     |
| CIS        | BN83-00132A | CKD-BN59-000167A      | BN59-000167A,3711-004884                                                         | SNA     |
| CN1        | BN83-00128A | CKD-BN59-000167A      | BN59-000167A,2001-000290                                                         | SNA     |
| R1         | BN83-00129A | CKD-BN59-000167A      | BN59-000167A,2001-000325                                                         | SNA     |
| R2         | BN83-00130A | CKD-BN59-000167A      | BN59-000167A,2001-000331                                                         | SNA     |
| R3         | BN83-00131A | CKD-BN59-000167A      | BN59-000167A,2001-000562                                                         | SNA     |
| R4         | BN83-00128A | CKD-BN59-000167A      | BN59-000167A,2001-000290                                                         | SNA     |
| R5         | BN83-00129A | CKD-BN59-000167A      | BN59-000167A,2001-000325                                                         | SNA     |
| R6         | BN83-00130A | CKD-BN59-000167A      | BN59-000167A,2001-000331                                                         | SNA     |
| R7         | BN83-00131A | CKD-BN59-000167A      | BN59-000167A,2001-000562                                                         | SNA     |
| R8         | BN83-00126A | CKD-BN59-000167A      | BN59-000167A,3404-000243                                                         | SNA     |
| SW1        | BN83-00126A | CKD-BN59-000167A      | BN59-000167A,3404-000243                                                         | SNA     |
| SW2        | BN83-00126A | CKD-BN59-000167A      | BN59-000167A,3404-000243                                                         | SNA     |
| SW3        | BN83-00126A | CKD-BN59-000167A      | BN59-000167A,3404-000243                                                         | SNA     |
| SW4        | BN83-00126A | CKD-BN59-000167A      | BN59-000167A,3404-000243                                                         | SNA     |
| SW5        | BN83-00126A | CKD-BN59-000167A      | BN59-000167A,3404-000243                                                         | SNA     |
| SW6        | BN83-00126A | CKD-BN59-000167A      | BN59-000167A,3404-000243                                                         | SNA     |
| -          | BN91-00311K | ASSY LCD              | GG15LS                                                                           | SNA     |
| CIS        | BN07-00051A | LCD                   | M150X3-L01,GH15LS,6BIT_FRC,331.6*254.7*13.0,16.1M,60,0.297*0.297,0-40,3.3,CHIMEI | SNA     |
| -          | BN91-00348V | ASSY SHIELD           | GG15LS                                                                           | SNA     |
| CIS        | 0203-001315 | TAPE-CONDUCTOR        | DK-K102-30-90,TO.1,W90,L30,GRAY                                                  | SNA     |
| C/F+SH/COV | 6003-000122 | SCREW-TAPTITE         | BH,+,B,M4,L12,ZPC(YEL),SWRCH18                                                   | SNA     |
| CIS        | BN39-00243A | CBF SIGNAL            | BU15AQ(T541A),15P/15P,20276-N,1830MM,UL20276,IVORY,D-SUB/MALE,DET. TYPE          | SNA     |
| CIS        | BN63-00193A | SHIELD-IVT CABLE      | LM15PO,SUS ,TO.15,-,-,-,-                                                        | SNA     |
| -          | BN91-00353B | ASSY CHASSIS CB04     | GG15ES                                                                           | SNA     |
| CIS        | BN97-00096B | ASSY MICOM            | GG15ES                                                                           | SNA     |
| CIS        | BN46-00012B | S/W MICOM             | GG15ES                                                                           | SNA     |
| IC300      | 0903-001266 | IC-MICROCONTROLLER    | NT68F63,8BIT,PLCC,44P,653MIL,12MHZ,ST,CMOS,PLASTIC,5V,-,OTO+70C,256B,4KB,-,-,MC  | SNA     |

| Loc. No. | Code No.        | Description         | Specification                                                                  | Remarks |
|----------|-----------------|---------------------|--------------------------------------------------------------------------------|---------|
| -        | BN92-00202E     | ASSY ACCESSORY      | GH17LS,E/S/F/G/P/I/SW                                                          | SNA     |
| CIS      | BN59-00164E     | UNIT/ACCESSORY      | GH17LSAB/XBM,SELAMI,USA,E/S/F/G/P/I/SW/R                                       |         |
| CIS      | 0203-000214     | TAPE-OPP MASKING    | OPP/W50/CLR,T0.05,W50,L400000,                                                 | SNA     |
| CIS      | BH68-00376H     | MANUAL-00           | WIN XP INSTALL GUIDE,SYNCMaster,ENGLISH,W/W,MOJO100G,-,148,210,-,-,-,-         | SNA     |
| CIS      | BH69-30348D     | BAG-PE              | LDPE,T0.05,W240*L356,Y,-,CMG73                                                 | SNA     |
| CIS      | BN39-00170A     | CBF POWER CORD      | GH15L,SP-60/IS-034,H05VV-F,250V,10A/2.5A,1830MM,EP3/YES,IVORY,ASTA,-,-,-,UK AR |         |
| CIS      | BN59-00187A     | S/W DRIVER-08       | S/M151S,B,BM,IB/DRIVER,WW,E/F/S/G/P/I/SW/R/                                    | SNA     |
| -        | BN92-00214A     | ASSY P/MATERIAL     | GH15LS*N,WW,WW,-,                                                              | SNA     |
| CIS      | 0203-001100     | TAPE-OPP MASKING    | OPP/W75/CLR,T0.05,W75,L800000,CLR                                              | SNA     |
| CIS      | BH69-00328B     | PAD-EDGE            | ML17,DW3,200,1370,-,-,YEL,-,-                                                  | SNA     |
| CIS      | BH69-00457B     | PACKING-PAD         | GH15,FOAM,T3.0,930,1000                                                        | SNA     |
| CIS      | BH69-30348E     | BAG-FPD             | HDPE,0.02,-,Y(24),-,IBM                                                        | SNA     |
| CIS      | BH69-40308A     | PALLET-PACKING      | GH15LS,WOOD,-,-,W1390,L916,H120,-,-,-                                          | SNA     |
| CIS      | BH69-40379A     | PACKING-WRAP        | LDPE,W500*T0.02,-,-                                                            | SNA     |
| CIS      | BN68-00129A     | LABEL SHIPPING      | -,LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,-                              | SNA     |
| CIS      | BN69-00140T     | PAD-PALLET COVER    | SUN(LSA810),SW,900,3760,-,-,-,-,-                                              | SNA     |
| CIS      | BN69-00140V     | PAD-PALLET COVER    | RB15AS,SW4,1200,3530,-,-,-,-,-                                                 | SNA     |
| CIS      | BN69-00185A     | CUSHION-L/R         | GH15LS,EPS 50M,-,-,-,-,-,-,-                                                   | SNA     |
| -        | BN92-00216G     | ASSY LABEL          | GH15E/GH15M,WW,WW                                                              | SNA     |
| CIS      | 0203-001159     | TAPE-FILAMENT       | #8915,T0.15,W12,L55000,CLR                                                     | SNA     |
| CIS      | BH72-60676A     | SHEET ABS-PROTECTOR | LXA410TLMU,POLYESTER FILM,-,-,345*260*0.104,TFT_14'                            | SNA     |
| CIS      | BN68-00213A     | LABEL RATING        | GH15MS,W/W,PE,T0.05,90,30,SYNC,-,PE NATURE,-,-                                 | SNA     |
| CIS      | BN68-00219A     | LABEL RATING        | W/W,BARCODE,PE,T0.05,60,35,SYNC,-,PE NATURE,-,-                                | SNA     |
| -        | BN92-00344G     | ASSY BOX            | GH15ESSN/XSH,SEHK,HONGKONG,-                                                   | SNA     |
| CIS      | BH75-10529A     | UNIT-HANDLE PACKING | LXA410TLMU,PE,-,WHITE,-                                                        | SNA     |
| CIS      | BN72-60001A     | LEVER TOP           | LSD210TL,PE-LD,WHITE,TFT_LCD                                                   | SNA     |
| CIS      | BN72-60002A     | LEVER BOTTOM        | LSD210TL,PE-LD,WHITE,TFT-LCD                                                   | SNA     |
| CIS      | BN68-00134D     | LABEL BAR CODE      | -,ALL,TC099,W/W,ART-PAPER 90G,-,WHT,BLACK,-,-,-                                | SNA     |
| CIS      | BN69-00209A     | BOX                 | S/M151B,W/W,CB-SW4,YEL,A-1,-,-,-,L451*W445*H211,-                              | SNA     |
| CIS      | CE-GG15ESSN/XSH | 8                   | M150X3-L01(ZPD)                                                                | -       |



## 6-3-1 GG15L\*(R)/GG15V\*(R)/GG15E\*(R) Main PCB Parts

| Loc. No.       | Code No.    | Description         | Specification                                                                    | Remarks |
|----------------|-------------|---------------------|----------------------------------------------------------------------------------|---------|
| -              | BN94-00431A | ASSY PCB MAIN       | 51S-SS3                                                                          | SNA     |
| CIS            | 0202-001044 | SOLDER-WIRE         | S63S-W3.0,S63S,D3,63Sn/37Pb,-                                                    | SNA     |
| CIS            | 0202-001046 | SOLDER-WIRE FLUX    | CF-110VH-2A,-,-,-,-                                                              | SNA     |
| CIS            | 0202-001222 | SOLDER-WIRE FLUX    | RS-107,RS60-1.2AA,D1.2,SN60/PB40,-                                               | SNA     |
| CIS            | 0203-001315 | TAPE-CONDUCTOR      | DK-K102-30-90,TO.1,W90,L30,GRAY                                                  | SNA     |
| CIS            | 0204-001095 | THINNER             | #4520,-,-,-                                                                      | SNA     |
| CIS            | 2001-001107 | R-CARBON(S)         | 220ohm,5%,1/2W,AA,TP,2.4x6.4mm                                                   |         |
| CIS            | 3713-000197 | CONNECTOR-HOUSING   | 2P,2.5mm,FEMALE,1R                                                               |         |
| CIS            | BH68-40352A | LABEL-BARCODE       | ALL,ART-PAPER,90G,WHT,BLK,W50*                                                   | SNA     |
| CIS            | BN39-00161A | CBF HARNESS         | GH15LS,U/CSA,U/L106L#28,12P/12P,160MM,WHT,AWG28,51021-1200,51021-1200,-,-,1.25MM |         |
| CIS            | BN39-00234A | LEAD CONNECTOR-ASSY | GG15LS,U/L157L#30,U/CSA,20P,#30,12507HS-20,12507HS-20,BK,170MM,157L#30,SJ01-01-3 |         |
| CIS            | BN72-00209A | GUIDE-POWER         | GH15LS,ABS+PC,5V,GR37                                                            | SNA     |
| CIS            | BN75-00176A | UNIT-SHIELD/DSUB    | GH15LS,-,SPTE TO.5,-,-,-,-                                                       | SNA     |
| CIS            | BN70-00204A | SHIELD DSUB         | SPTE,TO.5                                                                        | SNA     |
| CIS            | BN71-00024A | EARTH-PLATE         | GH17LS,SUS,TO.15                                                                 | SNA     |
| CN104          | 3711-001072 | CONNECTOR-HEADER    | BOX,7P,1R,2MM,STRAIGHT,SN,NTR                                                    |         |
| CN105          | 3701-001219 | CONNECTOR-DSUB      | 15P,3R,FEMALE,ANGLE,AUF                                                          |         |
| CN402          | 3711-000056 | CONNECTOR-HEADER    | BOX,2P,1R,2.5mm,ANGLE,SN                                                         | SNA     |
| IN/PCB+SH/COV  | 6003-000117 | SCREW-TAPTITE       | BH,+B,M3,L6,ZPC(YEL),SWRCH18A                                                    | SNA     |
| LVDS+SH/COV    | 6003-000117 | SCREW-TAPTITE       | BH,+B,M3,L6,ZPC(YEL),SWRCH18A                                                    | SNA     |
| M/PCB+SH/COV   | 6003-000117 | SCREW-TAPTITE       | BH,+B,M3,L6,ZPC(YEL),SWRCH18A                                                    | SNA     |
| P/PCB+SH/COV   | 6003-000117 | SCREW-TAPTITE       | BH,+B,M3,L6,ZPC(YEL),SWRCH18A                                                    | SNA     |
| SH/COV+B/D_SUB | 6003-000117 | SCREW-TAPTITE       | BH,+B,M3,L6,ZPC(YEL),SWRCH18A                                                    | SNA     |
| -              | BN97-00164Z | ASSY MICOM          | 51S-SS3                                                                          |         |
| CIS            | BN82-00086G | A/S MICOM           | 51S-SS3                                                                          |         |
| IC102          | 0903-001266 | IC-MICROCONTROLLER  | NT68F63,8BIT,PLCC,44P,653MIL,12MHZ,ST,CMOS,PLASTIC,5V,-,0TO+70C,256B,4KB,-,-,MC  |         |
| -              | BN97-00196A | ASSY SMD            | 51S-SS3                                                                          | SNA     |
| BD101          | 2703-001334 | INDUCTOR-SMD        | 1.5uH,10%,2x1.25x0.85mm                                                          |         |
| BD102          | 2703-001334 | INDUCTOR-SMD        | 1.5uH,10%,2x1.25x0.85mm                                                          |         |
| BD103          | 2703-001334 | INDUCTOR-SMD        | 1.5uH,10%,2x1.25x0.85mm                                                          |         |
| BD104          | 2703-001334 | INDUCTOR-SMD        | 1.5uH,10%,2x1.25x0.85mm                                                          |         |
| BD105          | 2703-001334 | INDUCTOR-SMD        | 1.5uH,10%,2x1.25x0.85mm                                                          |         |
| BD107          | 2007-000070 | R-CHIP              | 0ohm,5%,1/16W,DA,TP,1608                                                         |         |
| BD108          | 2007-000070 | R-CHIP              | 0ohm,5%,1/16W,DA,TP,1608                                                         |         |
| BD109          | 2007-000070 | R-CHIP              | 0ohm,5%,1/16W,DA,TP,1608                                                         |         |
| BD111          | 2703-001334 | INDUCTOR-SMD        | 1.5uH,10%,2x1.25x0.85mm                                                          |         |
| BD112          | 2703-001334 | INDUCTOR-SMD        | 1.5uH,10%,2x1.25x0.85mm                                                          |         |
| BD113          | 2703-001334 | INDUCTOR-SMD        | 1.5uH,10%,2x1.25x0.85mm                                                          |         |
| BD114          | 2703-001334 | INDUCTOR-SMD        | 1.5uH,10%,2x1.25x0.85mm                                                          |         |
| BD120          | 2703-001334 | INDUCTOR-SMD        | 1.5uH,10%,2x1.25x0.85mm                                                          |         |
| BD121          | 2703-001334 | INDUCTOR-SMD        | 1.5uH,10%,2x1.25x0.85mm                                                          |         |
| BD130          | 3301-001569 | CORE-FERRITE BEAD   | AB,600OHM,2.0X1.25X0.9MM,1000MA,TP,NI-CU-ZN,0.1OHM                               |         |
| C101           | 2203-005005 | C-CERAMIC,CHIP      | 100nF,10%,16V,X7R,TP,1608                                                        |         |
| C102           | 2203-005437 | C-CERAMIC,CHIP      | 10000nF,+80-20%,10V,Y5V,TP,3216                                                  |         |
| C103           | 2203-005437 | C-CERAMIC,CHIP      | 10000nF,+80-20%,10V,Y5V,TP,3216                                                  |         |
| C104           | 2203-000440 | C-CERAMIC,CHIP      | 1nF,10%,50V,X7R,TP,1608,-                                                        |         |
| C105           | 2203-005437 | C-CERAMIC,CHIP      | 10000nF,+80-20%,10V,Y5V,TP,3216                                                  |         |
| C106           | 2203-000440 | C-CERAMIC,CHIP      | 1nF,10%,50V,X7R,TP,1608,-                                                        |         |
| C107           | 2203-005437 | C-CERAMIC,CHIP      | 10000nF,+80-20%,10V,Y5V,TP,3216                                                  |         |
| C108           | 2203-000440 | C-CERAMIC,CHIP      | 1nF,10%,50V,X7R,TP,1608,-                                                        |         |
| C109           | 2203-000257 | C-CERAMIC,CHIP      | 10nF,10%,50V,X7R,TP,1608                                                         |         |
| C110           | 2203-000257 | C-CERAMIC,CHIP      | 10nF,10%,50V,X7R,TP,1608                                                         |         |
| C111           | 2203-000257 | C-CERAMIC,CHIP      | 10nF,10%,50V,X7R,TP,1608                                                         |         |
| C112           | 2203-005437 | C-CERAMIC,CHIP      | 10000nF,+80-20%,10V,Y5V,TP,3216                                                  |         |
| C113           | 2203-000384 | C-CERAMIC,CHIP      | 0.015nF,5%,50V,NP0,TP,1608                                                       |         |
| C114           | 2203-005437 | C-CERAMIC,CHIP      | 10000nF,+80-20%,10V,Y5V,TP,3216                                                  |         |
| C115           | 2203-005005 | C-CERAMIC,CHIP      | 100nF,10%,16V,X7R,TP,1608                                                        |         |
| C116           | 2203-000384 | C-CERAMIC,CHIP      | 0.015nF,5%,50V,NP0,TP,1608                                                       |         |
| C117           | 2203-005437 | C-CERAMIC,CHIP      | 10000nF,+80-20%,10V,Y5V,TP,3216                                                  |         |
| C118           | 2203-000626 | C-CERAMIC,CHIP      | 0.022nF,5%,50V,NP0,TP,1608                                                       |         |

| Loc. No. | Code No.    | Description      | Specification                     | Remarks |
|----------|-------------|------------------|-----------------------------------|---------|
| C119     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C120     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C121     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C122     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C123     | 2203-005437 | C-CERAMIC,CHIP   | 10000nF,+80-20%,10V,Y5V,TP,3216   |         |
| C124     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C125     | 2203-000626 | C-CERAMIC,CHIP   | 0.022nF,5%,50V,NP0,TP,1608        |         |
| C126     | 2203-000384 | C-CERAMIC,CHIP   | 0.015nF,5%,50V,NP0,TP,1608        |         |
| C127     | 2203-000384 | C-CERAMIC,CHIP   | 0.015nF,5%,50V,NP0,TP,1608        |         |
| C128     | 2203-005437 | C-CERAMIC,CHIP   | 10000nF,+80-20%,10V,Y5V,TP,3216   |         |
| C129     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C130     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C131     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C132     | 2203-005437 | C-CERAMIC,CHIP   | 10000nF,+80-20%,10V,Y5V,TP,3216   |         |
| C135     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C136     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C137     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C138     | 2203-005437 | C-CERAMIC,CHIP   | 10000nF,+80-20%,10V,Y5V,TP,3216   |         |
| C139     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C140     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C141     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C142     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C143     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C144     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C145     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C146     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C147     | 2203-005437 | C-CERAMIC,CHIP   | 10000nF,+80-20%,10V,Y5V,TP,3216   |         |
| C148     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C149     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C150     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C151     | 2203-005809 | C-CERAMIC,CHIP   | 1000nF,10%,16V,X7R,TP,2012(T1.25) |         |
| C153     | 2203-000384 | C-CERAMIC,CHIP   | 0.015nF,5%,50V,NP0,TP,1608        |         |
| C154     | 2203-000384 | C-CERAMIC,CHIP   | 0.015nF,5%,50V,NP0,TP,1608        |         |
| C155     | 2203-000384 | C-CERAMIC,CHIP   | 0.015nF,5%,50V,NP0,TP,1608        |         |
| C156     | 2203-005437 | C-CERAMIC,CHIP   | 10000nF,+80-20%,10V,Y5V,TP,3216   |         |
| C157     | 2203-005437 | C-CERAMIC,CHIP   | 10000nF,+80-20%,10V,Y5V,TP,3216   |         |
| C158     | 2203-005005 | C-CERAMIC,CHIP   | 100nF,10%,16V,X7R,TP,1608         |         |
| C162     | 2203-000257 | C-CERAMIC,CHIP   | 10nF,10%,50V,X7R,TP,1608          |         |
| C163     | 2402-001042 | C-AL,SMD         | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm |         |
| C165     | 2402-001044 | C-AL,SMD         | 100uF,20%,25V,GP,TP,8.3x8.3x6.3MM |         |
| C166     | 2203-000236 | C-CERAMIC,CHIP   | 0.1nF,5%,50V,NP0,TP,1608          |         |
| C168     | 2203-000236 | C-CERAMIC,CHIP   | 0.1nF,5%,50V,NP0,TP,1608          |         |
| C169     | 2203-000315 | C-CERAMIC,CHIP   | 0.12nF,5%,50V,NP0,TP,1608         |         |
| C201     | 2203-000257 | C-CERAMIC,CHIP   | 10nF,10%,50V,X7R,TP,1608          |         |
| C202     | 2203-005437 | C-CERAMIC,CHIP   | 10000nF,+80-20%,10V,Y5V,TP,3216   |         |
| CN101    | 3711-003161 | CONNECTOR-HEADER | BOX,20P,1R,1.25mm,ANGLE,SN        | SNA     |
| CN102    | 3711-002049 | CONNECTOR-HEADER | BOX,6P,1R,1.25mm,SMD-A,SN         | SNA     |
| CN103    | 3711-002046 | CONNECTOR-HEADER | 3WALL,12P,1R,1.25mm,SMD-S,SN      |         |
| D101     | 0401-001056 | DIODE-SWITCHING  | MMBD4148SE,75V,200MA,SOT-23,TP    |         |
| D102     | 0401-001056 | DIODE-SWITCHING  | MMBD4148SE,75V,200MA,SOT-23,TP    |         |
| D103     | 0401-001056 | DIODE-SWITCHING  | MMBD4148SE,75V,200MA,SOT-23,TP    |         |
| D104     | 0401-001056 | DIODE-SWITCHING  | MMBD4148SE,75V,200MA,SOT-23,TP    |         |
| D105     | 0401-001056 | DIODE-SWITCHING  | MMBD4148SE,75V,200MA,SOT-23,TP    |         |
| FT101    | 2901-001114 | FILTER-EMI SMD   | 25VDC,2.0ADC,-,100nF,3.2x1.6x1    |         |
| FT102    | 2901-001114 | FILTER-EMI SMD   | 25VDC,2.0ADC,-,100nF,3.2x1.6x1    |         |
| FT103    | 2901-001114 | FILTER-EMI SMD   | 25VDC,2.0ADC,-,100nF,3.2x1.6x1    |         |
| FT104    | 2901-001114 | FILTER-EMI SMD   | 25VDC,2.0ADC,-,100nF,3.2x1.6x1    |         |
| FT105    | 2901-001114 | FILTER-EMI SMD   | 25VDC,2.0ADC,-,100nF,3.2x1.6x1    |         |
| FT106    | 2901-001114 | FILTER-EMI SMD   | 25VDC,2.0ADC,-,100nF,3.2x1.6x1    |         |
| FT107    | 2703-001334 | INDUCTOR-SMD     | 1.5uH,10%,2x1.25x0.85mm           |         |
| FT108    | 2901-001114 | FILTER-EMI SMD   | 25VDC,2.0ADC,-,100nF,3.2x1.6x1    |         |
| FT109    | 2901-001114 | FILTER-EMI SMD   | 25VDC,2.0ADC,-,100nF,3.2x1.6x1    |         |

| Loc. No. | Code No.    | Description          | Specification                                                                  | Remarks |
|----------|-------------|----------------------|--------------------------------------------------------------------------------|---------|
| FT110    | 2703-001334 | INDUCTOR-SMD         | 1.5uH,10%,2x1.25x0.85mm                                                        |         |
| FT111    | 2703-001334 | INDUCTOR-SMD         | 1.5uH,10%,2x1.25x0.85mm                                                        |         |
| IC101    | 1205-001740 | IC-TRANSMITTER       | DS90C385,TSSOP,56P,240MIL,PLASTIC,4V,1.63W,-10 TO +70C,ST,FPD LINK-85MHZ(LVDS) |         |
| IC103    | 1003-001537 | IC-LCD CONTROLLER    | MST9010,QFP,128P,20X14MM,-,-,TR,PLASTIC,3.3V,-20TO+85C,-,-,-                   |         |
| IC104    | 1203-002450 | IC-VOLTAGE REGULATOR | MC33375ST-2.5T3,SOT-223,4P,137MIL,PLASTIC,2.475/2.525V,-,-40TO+125C,300MA,-,TP |         |
| IC105    | 1103-001023 | IC-EEPROM            | 524C80D81,1028x8Bit,SOP,8P,150MIL,10ms,5V,10%,PLASTIC,0to+70C,110uA,CMOS,TP    |         |
| IC106    | 1203-001488 | IC-POSIFIXED REG.    | 7805,TO-252,3P,-,PLASTIC,4.8/5                                                 |         |
| IC107    | 1204-000292 | IC-VIDEO SYSTEM      | LM1881M,SOP,8P,150MIL,PLASTIC,                                                 |         |
| IC201    | 0803-000117 | IC-TTL               | 74F14,INVERTER,SOP,14P,150MIL,                                                 |         |
| MP1.0    | BN41-00246A | PCB MAIN             | GG15LS,FR-4,2,1.6,120*72*1.6                                                   |         |
| Q101     | 0501-002080 | TR-SMALL SIGNAL      | 2SC2412K,NPN,200mW,SC-59,TP,120-270                                            |         |
| Q102     | 0501-002080 | TR-SMALL SIGNAL      | 2SC2412K,NPN,200mW,SC-59,TP,120-270                                            |         |
| Q103     | 0501-002080 | TR-SMALL SIGNAL      | 2SC2412K,NPN,200mW,SC-59,TP,120-270                                            |         |
| Q104     | 0501-002080 | TR-SMALL SIGNAL      | 2SC2412K,NPN,200mW,SC-59,TP,120-270                                            |         |
| Q105     | 0501-002080 | TR-SMALL SIGNAL      | 2SC2412K,NPN,200mW,SC-59,TP,120-270                                            |         |
| Q13      | 0501-002080 | TR-SMALL SIGNAL      | 2SC2412K,NPN,200mW,SC-59,TP,120-270                                            |         |
| Q132     | 0505-001170 | FET-SILICON          | SI9933ADY-T1,P,-20V,3.4A,0.06ohm,2W,SO-8                                       |         |
| R1000    | 2007-000084 | R-CHIP               | 4.7Kohm,5%,1/16W,DA,TP,1608                                                    |         |
| R1001    | 2007-000074 | R-CHIP               | 100ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R1002    | 2007-000074 | R-CHIP               | 100ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R1003    | 2007-000074 | R-CHIP               | 100ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R1006    | 2007-000084 | R-CHIP               | 4.7Kohm,5%,1/16W,DA,TP,1608                                                    |         |
| R1009    | 2007-000074 | R-CHIP               | 100ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R101     | 2007-000070 | R-CHIP               | 0ohm,5%,1/16W,DA,TP,1608                                                       |         |
| R112     | 2007-000070 | R-CHIP               | 0ohm,5%,1/16W,DA,TP,1608                                                       |         |
| R115     | 2007-000070 | R-CHIP               | 0ohm,5%,1/16W,DA,TP,1608                                                       |         |
| R116     | 2007-000078 | R-CHIP               | 1Kohm,5%,1/16W,DA,TP,1608                                                      |         |
| R117     | 2007-000078 | R-CHIP               | 1Kohm,5%,1/16W,DA,TP,1608                                                      |         |
| R118     | 2007-000071 | R-CHIP               | 22ohm,5%,1/16W,DA,TP,1608                                                      |         |
| R119     | 2007-000090 | R-CHIP               | 10KOHM,5%,1/16W,DA,TP,1608                                                     |         |
| R120     | 2007-000078 | R-CHIP               | 1Kohm,5%,1/16W,DA,TP,1608                                                      |         |
| R121     | 2007-000090 | R-CHIP               | 10KOHM,5%,1/16W,DA,TP,1608                                                     |         |
| R122     | 2007-000071 | R-CHIP               | 22ohm,5%,1/16W,DA,TP,1608                                                      |         |
| R123     | 2007-000090 | R-CHIP               | 10KOHM,5%,1/16W,DA,TP,1608                                                     |         |
| R125     | 2007-000090 | R-CHIP               | 10KOHM,5%,1/16W,DA,TP,1608                                                     |         |
| R126     | 2007-000090 | R-CHIP               | 10KOHM,5%,1/16W,DA,TP,1608                                                     |         |
| R127     | 2007-000084 | R-CHIP               | 4.7Kohm,5%,1/16W,DA,TP,1608                                                    |         |
| R129     | 2007-000084 | R-CHIP               | 4.7Kohm,5%,1/16W,DA,TP,1608                                                    |         |
| R130     | 2007-000084 | R-CHIP               | 4.7Kohm,5%,1/16W,DA,TP,1608                                                    |         |
| R131     | 2007-000092 | R-CHIP               | 15Kohm,5%,1/16W,DA,TP,1608                                                     |         |
| R132     | 2007-000092 | R-CHIP               | 15Kohm,5%,1/16W,DA,TP,1608                                                     |         |
| R133     | 2007-000084 | R-CHIP               | 4.7Kohm,5%,1/16W,DA,TP,1608                                                    |         |
| R134     | 2007-000084 | R-CHIP               | 4.7Kohm,5%,1/16W,DA,TP,1608                                                    |         |
| R135     | 2007-000084 | R-CHIP               | 4.7Kohm,5%,1/16W,DA,TP,1608                                                    |         |
| R136     | 2007-000084 | R-CHIP               | 4.7Kohm,5%,1/16W,DA,TP,1608                                                    |         |
| R137     | 2007-000084 | R-CHIP               | 4.7Kohm,5%,1/16W,DA,TP,1608                                                    |         |
| R138     | 2007-000084 | R-CHIP               | 4.7Kohm,5%,1/16W,DA,TP,1608                                                    |         |
| R139     | 2007-000084 | R-CHIP               | 4.7Kohm,5%,1/16W,DA,TP,1608                                                    |         |
| R140     | 2007-000070 | R-CHIP               | 0ohm,5%,1/16W,DA,TP,1608                                                       |         |
| R141     | 2007-000074 | R-CHIP               | 100ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R142     | 2007-000074 | R-CHIP               | 100ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R143     | 2007-000074 | R-CHIP               | 100ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R144     | 2007-000077 | R-CHIP               | 470ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R145     | 2007-000109 | R-CHIP               | 1Mohm,5%,1/16W,DA,TP,1608                                                      |         |
| R146     | 2007-000107 | R-CHIP               | 470Kohm,5%,1/16W,DA,TP,1608                                                    |         |
| R147     | 2007-000070 | R-CHIP               | 0ohm,5%,1/16W,DA,TP,1608                                                       |         |
| R148     | 2007-000074 | R-CHIP               | 100ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R149     | 2007-000074 | R-CHIP               | 100ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R150     | 2007-000074 | R-CHIP               | 100ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R151     | 2007-000074 | R-CHIP               | 100ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R153     | 2007-000074 | R-CHIP               | 100ohm,5%,1/16W,DA,TP,1608                                                     |         |
| R154     | 2007-000074 | R-CHIP               | 100ohm,5%,1/16W,DA,TP,1608                                                     |         |

| Loc. No. | Code No.    | Description    | Specification                       | Remarks |
|----------|-------------|----------------|-------------------------------------|---------|
| R157     | 2007-000074 | R-CHIP         | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R158     | 2007-000074 | R-CHIP         | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R159     | 2007-000074 | R-CHIP         | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R161     | 2007-000070 | R-CHIP         | 0ohm,5%,1/16W,DA,TP,1608            |         |
| R162     | 2007-000074 | R-CHIP         | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R163     | 2007-000102 | R-CHIP         | 100Kohm,5%,1/16W,DA,TP,1608         |         |
| R164     | 2007-000074 | R-CHIP         | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R165     | 2007-000070 | R-CHIP         | 0ohm,5%,1/16W,DA,TP,1608            |         |
| R166     | 2007-000074 | R-CHIP         | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R167     | 2007-000074 | R-CHIP         | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R169     | 2007-000074 | R-CHIP         | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R170     | 2007-000090 | R-CHIP         | 10KOHM,5%,1/16W,DA,TP,1608          |         |
| R171     | 2007-000074 | R-CHIP         | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R172     | 2007-000074 | R-CHIP         | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R174     | 2007-000090 | R-CHIP         | 10KOHM,5%,1/16W,DA,TP,1608          |         |
| R176     | 2007-000120 | R-CHIP         | 680ohm,5%,1/16W,DA,TP,1608          |         |
| R177     | 2007-000120 | R-CHIP         | 680ohm,5%,1/16W,DA,TP,1608          |         |
| R178     | 2007-000090 | R-CHIP         | 10KOHM,5%,1/16W,DA,TP,1608          |         |
| R179     | 2007-000090 | R-CHIP         | 10KOHM,5%,1/16W,DA,TP,1608          |         |
| R180     | 2007-000102 | R-CHIP         | 100Kohm,5%,1/16W,DA,TP,1608         |         |
| R181     | 2007-000084 | R-CHIP         | 4.7Kohm,5%,1/16W,DA,TP,1608         |         |
| R182     | 2007-000070 | R-CHIP         | 0ohm,5%,1/16W,DA,TP,1608            |         |
| R183     | 2007-000090 | R-CHIP         | 10KOHM,5%,1/16W,DA,TP,1608          |         |
| R184     | 2007-000090 | R-CHIP         | 10KOHM,5%,1/16W,DA,TP,1608          |         |
| R185     | 2007-001167 | R-CHIP         | 75ohm,5%,1/16W,DA,TP,1608           |         |
| R186     | 2007-001167 | R-CHIP         | 75ohm,5%,1/16W,DA,TP,1608           |         |
| R187     | 2007-001167 | R-CHIP         | 75ohm,5%,1/16W,DA,TP,1608           |         |
| R188     | 2007-000075 | R-CHIP         | 220ohm,5%,1/16W,DA,TP,1608          |         |
| R189     | 2007-000075 | R-CHIP         | 220ohm,5%,1/16W,DA,TP,1608          |         |
| R190     | 2007-000084 | R-CHIP         | 4.7Kohm,5%,1/16W,DA,TP,1608         |         |
| R191     | 2007-000077 | R-CHIP         | 470ohm,5%,1/16W,DA,TP,1608          |         |
| R192     | 2007-000074 | R-CHIP         | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R194     | 2007-000074 | R-CHIP         | 100ohm,5%,1/16W,DA,TP,1608          |         |
| R202     | 2007-000084 | R-CHIP         | 4.7Kohm,5%,1/16W,DA,TP,1608         |         |
| R203     | 2007-000084 | R-CHIP         | 4.7Kohm,5%,1/16W,DA,TP,1608         |         |
| R301     | 2007-000076 | R-CHIP         | 330ohm,5%,1/16W,DA,TP,1608          |         |
| R302     | 2007-000076 | R-CHIP         | 330ohm,5%,1/16W,DA,TP,1608          |         |
| R303     | 2007-000076 | R-CHIP         | 330ohm,5%,1/16W,DA,TP,1608          |         |
| R304     | 2007-000121 | R-CHIP         | 820ohm,5%,1/16W,DA,TP,1608          |         |
| R305     | 2007-000121 | R-CHIP         | 820ohm,5%,1/16W,DA,TP,1608          |         |
| R306     | 2007-000121 | R-CHIP         | 820ohm,5%,1/16W,DA,TP,1608          |         |
| R47      | 2007-000070 | R-CHIP         | 0ohm,5%,1/16W,DA,TP,1608            |         |
| R78      | 2007-000090 | R-CHIP         | 10KOHM,5%,1/16W,DA,TP,1608          |         |
| R79      | 2007-000090 | R-CHIP         | 10KOHM,5%,1/16W,DA,TP,1608          |         |
| R82      | 2007-000070 | R-CHIP         | 0ohm,5%,1/16W,DA,TP,1608            |         |
| R83      | 2007-000090 | R-CHIP         | 10KOHM,5%,1/16W,DA,TP,1608          |         |
| RA101    | 2011-000002 | R-NETWORK      | 22ohm,5%,63mW,L,CHIP,8P,TP          |         |
| RA102    | 2011-000002 | R-NETWORK      | 22ohm,5%,63mW,L,CHIP,8P,TP          |         |
| RA103    | 2011-000002 | R-NETWORK      | 22ohm,5%,63mW,L,CHIP,8P,TP          |         |
| RA104    | 2011-000002 | R-NETWORK      | 22ohm,5%,63mW,L,CHIP,8P,TP          |         |
| RA105    | 2011-000002 | R-NETWORK      | 22ohm,5%,63mW,L,CHIP,8P,TP          |         |
| RA106    | 2011-000002 | R-NETWORK      | 22ohm,5%,63mW,L,CHIP,8P,TP          |         |
| U104     | 2203-000257 | C-CERAMIC,CHIP | 10nF,10%,50V,X7R,TP,1608            |         |
| X101     | 2801-003773 | CRYSTAL-SMD    | 12MHZ,30PPM,28-AAN,20PF,50OHM,TP    |         |
| X102     | 2801-003667 | CRYSTAL-SMD    | 14.3182MHZ,50PPM,28-AAN,16,50OHM,TP |         |
| ZD101    | 0403-000579 | DIODE-ZENER    | BZX84C5V1,5.1V,5%,200mW,SOT-23      |         |
| ZD102    | 0403-000579 | DIODE-ZENER    | BZX84C5V1,5.1V,5%,200mW,SOT-23      |         |
| ZD103    | 0403-000579 | DIODE-ZENER    | BZX84C5V1,5.1V,5%,200mW,SOT-23      |         |
| ZD104    | 0403-000579 | DIODE-ZENER    | BZX84C5V1,5.1V,5%,200mW,SOT-23      |         |
| ZD105    | 0403-000579 | DIODE-ZENER    | BZX84C5V1,5.1V,5%,200mW,SOT-23      |         |

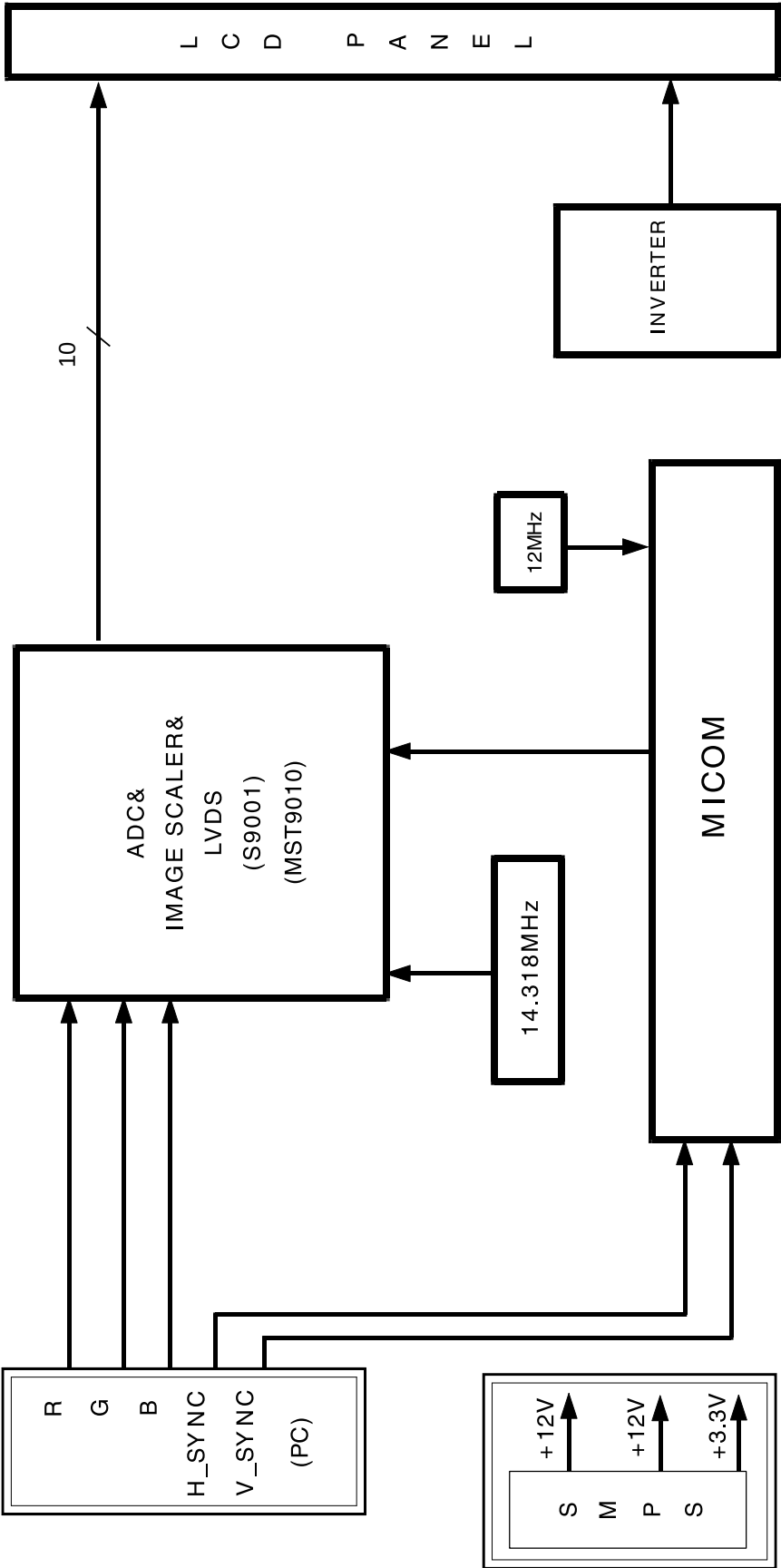
## 6-3-2 GG15L\*(R)/GG15V\*(R)/GG15E\*(R) Others

| Loc. No.   | Code No.    | Description           | Specification                                                                    | Remarks |
|------------|-------------|-----------------------|----------------------------------------------------------------------------------|---------|
| -          | BN90-00167K | ASSY COVER REAR       | GH15LT*B,WW,BK07,SAMSUNG                                                         | SNA     |
| CIS        | BN75-00191B | UNIT-REAR             | SAMTRON 51S,-,ABS HB,-,BK07,-,TCO99,-                                            |         |
| CIS        | BN70-00176A | BRACKET VESA          | RB15AS,SECC,1                                                                    | SNA     |
| CIS        | BN72-00238B | COVER BOTTOM          | SAMTRON 51S,ABS,HB,BK07,TCO99                                                    | SNA     |
| -          | BN90-00168B | ASSY STAND            | GH15-SS,WW,ABS/HB,BK07,WW                                                        | SNA     |
| CIS        | BN75-00168B | UNIT-STAND            | GH15-SS,WW,ABS/HB,-,BK07,-,NO SIDE BAR COLO,-                                    |         |
| -          | BN90-00337Q | ASSY COVER FRONT      | 51S-SS2,DOMESTIC,ABS HB                                                          | SNA     |
| C/F+C/R    | 6003-001003 | SCREW-TAPTITE         | BH,+,B,M4,L12,ZPC(BLK),SWRCH18                                                   |         |
| CIS        | BN96-00046C | ASSY COVER P-FRONT    | SAMTRON 51S,ABS HB IV16,TCO99,ENERGY                                             |         |
| CIS        | 6003-000259 | SCREW-TAPTITE         | BH,+,B,M3,L8,ZPC(YEL),SWRCH18A                                                   | SNA     |
| CIS        | BH68-00035A | LABEL-MARK TCO99(SET) | PE CLEAR,-,CLEAR,PMS032C,286C,BLK,-,TCO99(SET),-                                 | SNA     |
| CIS        | BH68-00127A | LABEL-MARK ENERGY     | -,ALL,PE CLEAR,TO.05,CLEAR,MAZEN,YEL,CYAN,BLK,-,L25*W22,-                        | SNA     |
| CIS        | BN59-00256A | BOARD-FUNCTION ASS'Y  | GG15LT,FUNCTION KEY                                                              | SNA     |
| CIS        | BN64-00033B | KNOB-FUNCTION         | SF-152S,ABS,-,-,HB,IV16,SILVER,TCO99                                             |         |
| CIS        | BN72-00237B | COVER FRONT           | SF-152S,ABS HB,IV16,SILVER,TCO99                                                 | SNA     |
| -          | BN91-00311T | ASSY LCD              | GG15LS                                                                           | SNA     |
| CIS        | BN07-00059A | LCD                   | TM150XG-26L06,CNS,6BIT FRC,331.6*254.7*12.5,16.1M,40,0.297*0.297,0-40,3,3,TORISA |         |
| -          | BN91-00318W | ASSY SHIELD           | GH15LS,-,-,-                                                                     | SNA     |
| CIS        | 0203-001304 | TAPE-AL FOIL          | DK100-50-170,TO.7,W50,L170,SIL                                                   | SNA     |
| CIS        | 0203-001315 | TAPE-CONDUCTOR        | DK-K102-30-90,TO.1,W90,L30,GRAY                                                  | SNA     |
| C/F+SH/COV | 6003-000122 | SCREW-TAPTITE         | BH,+,B,M4,L12,ZPC(YEL),SWRCH18                                                   |         |
| CIS        | BN39-00244A | CBF SIGNAL            | BU15AQ(T541A),15P/15P,20276-N,1830MM,UL20276,BLACK,D-SUB/MALE,DET. TYPE          |         |
| CIS        | BN63-00193A | SHIELD-IVT CABLE      | LM15PO,SUS,TO.15,-,-,-                                                           | SNA     |
| -          | BN91-00589A | ASSY CHASSIS          | 51S-SS3                                                                          |         |
| BD1        | BN83-00057A | CKD-BN44-00053A       | BN44-00053A,3301-000011                                                          | SNA     |
| BD2        | BN83-00057A | CKD-BN44-00053A       | BN44-00053A,3301-000011                                                          | SNA     |
| C1         | BN83-00025A | CKD-BN44-00053A       | BN44-00053A,PCX2                                                                 | SNA     |
| C10        | BN83-00032A | CKD-BN44-00053A       | BN44-00053A,2401-000613                                                          | SNA     |
| C11        | BN83-00033A | CKD-BN44-00053A       | BN44-00053A,2301-000016                                                          | SNA     |
| C12        | BN83-00034A | CKD-BN44-00053A       | BN44-00053A,2201-000163                                                          | SNA     |
| C13        | BN83-00035A | CKD-BN44-00053A       | BN44-00053A,2301-000148                                                          | SNA     |
| C14        | BN83-00036A | CKD-BN44-00053A       | BN44-00053A,CESTX1E102M                                                          | SNA     |
| C15        | BN83-00036A | CKD-BN44-00053A       | BN44-00053A,CESTX1E102M                                                          | SNA     |
| C16        | BN83-00036A | CKD-BN44-00053A       | BN44-00053A,CESTX1E102M                                                          | SNA     |
| C17        | BN83-00037A | CKD-BN44-00053A       | BN44-00053A,CEUST1A222M                                                          | SNA     |
| C18        | BN83-00037A | CKD-BN44-00053A       | BN44-00053A,CEUST1A222M                                                          | SNA     |
| C19        | BN83-00038A | CKD-BN44-00053A       | BN44-00053A,CEUSL1E471M                                                          | SNA     |
| C2         | BN83-00026A | CKD-BN44-00053A       | BN44-00053A,2301-001244                                                          | SNA     |
| C20        | BN83-00039A | CKD-BN44-00053A       | BN44-00053A,2201-000023                                                          | SNA     |
| C3         | BN83-00027A | CKD-BN44-00053A       | BN44-00053A,2201-002026                                                          | SNA     |
| C4         | BN83-00027A | CKD-BN44-00053A       | BN44-00053A,2201-002026                                                          | SNA     |
| C5         | BN83-00028A | CKD-BN44-00053A       | BN44-00053A,2401-003379                                                          | SNA     |
| C6         | BN83-00029A | CKD-BN44-00053A       | BN44-00053A,2401-001195                                                          | SNA     |
| C7         | BN83-00030A | CKD-BN44-00053A       | BN44-00053A,2202-000654                                                          | SNA     |
| C8         | BN83-00029A | CKD-BN44-00053A       | BN44-00053A,2401-001195                                                          | SNA     |
| C9         | BN83-00031A | CKD-BN44-00053A       | BN44-00053A,2201-000019                                                          | SNA     |
| CIS        | BN44-00053B | ADAPTOR               | DPA30L-90,GG15,90 TO 264 VAC,47 - 63 HZ,12V/3.3V,2A/2A,36W,AC-DC,-10~+40C        |         |
| CIS        | BN83-00059A | CKD-BN44-00053A       | BN44-00053A,HEATSINK—TR1                                                         | SNA     |
| CIS        | BN83-00060A | CKD-BN44-00053A       | BN44-00053A,HEATSINK—TR2                                                         | SNA     |
| CIS        | BN83-00138A | CKD-BUSHING           | BN44-00053A,SK-BU-0002                                                           | SNA     |
| CIS        | BN83-00139A | CKD-LABEL             | BN44-00053A,4M00-2552                                                            | SNA     |
| CIS        | BN83-00140A | CKD-NUT               | BN44-00053A,HT1-M3(ZN)                                                           | SNA     |
| CIS        | BN83-00141A | CKD-POLYESTER TAPE    | BN44-00053A,YL20-680                                                             | SNA     |
| CIS        | BN83-00142A | CKD-RUBBER            | BN44-00053A,4M80-2556                                                            | SNA     |
| CIS        | BN83-00143A | CKD-SCREW             | BN44-00053A,BHTB-M3X6(ZN)                                                        | SNA     |
| CIS        | BN83-00144A | CKD-SCREW             | BN44-00053A,PH-M3X8(ZN)                                                          | SNA     |
| CIS        | BN83-00149A | CKD-BN39-00142B       | BN44-00053B,HARNES(90MM),BN39-00142B                                             | SNA     |
| CIS        | BN44-00056B | INVERTER              | GH15IS,SIC1542T,48KHZ,11.5-14.5,3.6MARMS,6.8MARMS,48KHZ,140*37.0*17.0,4LAMP,48KH |         |

| Loc. No. | Code No.    | Description     | Specification           | Remarks |
|----------|-------------|-----------------|-------------------------|---------|
| CIS      | BN83-00065A | CKD-BN44-00056A | BN44-00056A,1203-000560 | SNA     |
| CIS      | BN83-00066A | CKD-BN44-00056A | BN44-00056A,1201-000471 | SNA     |
| CIS      | BN83-00067A | CKD-BN44-00056A | BN44-00056A,1202-000104 | SNA     |
| CIS      | BN83-00068A | CKD-BN44-00056A | BN44-00056A,0504-000158 | SNA     |
| CIS      | BN83-00069A | CKD-BN44-00056A | BN44-00056A,0501-000457 | SNA     |
| CIS      | BN83-00070A | CKD-BN44-00056A | BN44-00056A,0504-000129 | SNA     |
| CIS      | BN83-00071A | CKD-BN44-00056A | BN44-00056A,0501-000462 | SNA     |
| CIS      | BN83-00072A | CKD-BN44-00056A | BN44-00056A,0505-001160 | SNA     |
| CIS      | BN83-00073A | CKD-BN44-00056A | BN44-00056A,0501-002186 | SNA     |
| CIS      | BN83-00074A | CKD-BN44-00056A | BN44-00056A,0407-000114 | SNA     |
| CIS      | BN83-00075A | CKD-BN44-00056A | BN44-00056A,0402-001110 | SNA     |
| CIS      | BN83-00076A | CKD-BN44-00056A | BN44-00056A,0407-000122 | SNA     |
| CIS      | BN83-00077A | CKD-BN44-00056A | BN44-00056A,0407-000116 | SNA     |
| CIS      | BN83-00078A | CKD-BN44-00056A | BN44-00056A,2401-003400 | SNA     |
| CIS      | BN83-00079A | CKD-BN44-00056A | BN44-00056A,2301-001336 | SNA     |
| CIS      | BN83-00080A | CKD-BN44-00056A | BN44-00056A,2201-002122 | SNA     |
| CIS      | BN83-00081A | CKD-BN44-00056A | BN44-00056A,2203-000206 | SNA     |
| CIS      | BN83-00082A | CKD-BN44-00056A | BN44-00056A,2203-001458 | SNA     |
| CIS      | BN83-00083A | CKD-BN44-00056A | BN44-00056A,2203-000455 | SNA     |
| CIS      | BN83-00084A | CKD-BN44-00056A | BN44-00056A,2203-000590 | SNA     |
| CIS      | BN83-00085A | CKD-BN44-00056A | BN44-00056A,2203-001130 | SNA     |
| CIS      | BN83-00086A | CKD-BN44-00056A | BN44-00056A,2203-002793 | SNA     |
| CIS      | BN83-00089A | CKD-BN44-00056A | BN44-00056A,2007-000794 | SNA     |
| CIS      | BN83-00092A | CKD-BN44-00056A | BN44-00056A,2007-000872 | SNA     |
| CIS      | BN83-00095A | CKD-BN44-00056A | BN44-00056A,2007-000122 | SNA     |
| CIS      | BN83-00097A | CKD-BN44-00056A | BN44-00056A,2007-001114 | SNA     |
| CIS      | BN83-00098A | CKD-BN44-00056A | BN44-00056A,2007-000269 | SNA     |
| CIS      | BN83-00102A | CKD-BN44-00056A | BN44-00056A,2007-000934 | SNA     |
| CIS      | BN83-00103A | CKD-BN44-00056A | BN44-00056A,2007-000070 | SNA     |
| CIS      | BN83-00104A | CKD-BN44-00056A | BN44-00056A,2007-002422 | SNA     |
| CIS      | BN83-00105A | CKD-BN44-00056A | BN44-00056A,2007-000691 | SNA     |
| CIS      | BN83-00106A | CKD-BN44-00056A | BN44-00056A,2104-000224 | SNA     |
| CIS      | BN83-00108A | CKD-BN44-00056A | BN44-00056A,3601-001038 | SNA     |
| CIS      | BN83-00110A | CKD-BN44-00056A | BN44-00056A,3711-000556 | SNA     |
| CIS      | BN83-00111A | CKD-BN44-00056A | BN44-00056A,3711-004702 | SNA     |
| CIS      | BN83-00113A | CKD-BN44-00056A | BN44-00056A,LH72-00170A | SNA     |
| CIS      | BN83-00137A | CKD-BN44-00056A | BN44-00056A,2007-000091 | SNA     |
| CIS      | BN83-00150A | CKD-BN44-00056B | GG15,CKD-BN44-00056B    | SNA     |
| CIS      | BN83-00151A | CKD-BN44-00056B | GG15,BN44-00056B        | SNA     |
| CIS      | BN83-00152A | CKD-BN44-00056B | GG15,BN44-00056B        | SNA     |
| CIS      | BN83-00153A | CKD-BN44-00056B | GG15,BN44-00056B        | SNA     |
| CIS      | BN83-00154A | CKD-BN44-00056B | GG15,BN44-00056B        | SNA     |
| CIS      | BN83-00155A | CKD-BN44-00056B | GG15,BN44-00056B        | SNA     |
| CIS      | BN83-00156A | CKD-BN44-00056B | GG15,BN44-00056B        | SNA     |
| CIS      | BN83-00157A | CKD-BN44-00056B | GG15,BN44-00056B        | SNA     |
| CIS      | BN83-00158A | CKD-BN44-00056B | GG15,BN44-00056B        | SNA     |
| CIS      | BN83-00159A | CKD-BN44-00056B | GG15,BN44-00056B        | SNA     |
| CIS      | BN83-00160A | CKD-BN44-00056B | GG15,BN44-00056B        | SNA     |
| CIS      | BN83-00161A | CKD-BN44-00056B | GG15,BN44-00056B        | SNA     |
| CIS      | BN83-00162A | CKD-BN44-00056B | GG15,BN44-00056B        | SNA     |
| CIS      | BN83-00163A | CKD-BN44-00056B | GG15,BN44-00056B        | SNA     |
| CN1      | BN83-00061A | CKD-BN44-00053A | BN44-00053A,3721-001044 | SNA     |
| D1       | BN83-00040A | CKD-BN44-00053A | BN44-00053A,0402-000103 | SNA     |
| D2       | BN83-00041A | CKD-BN44-00053A | BN44-00053A,0401-000005 | SNA     |
| D3       | BN83-00042A | CKD-BN44-00053A | BN44-00053A,0402-000012 | SNA     |
| D4       | BN83-00043A | CKD-BN44-00053A | BN44-00053A,0402-000546 | SNA     |
| D5       | BN83-00044A | CKD-BN44-00053A | BN44-00053A,UZ27BSD     | SNA     |
| D6       | BN83-00045A | CKD-BN44-00053A | BN44-00053A,MBR16100CT  | SNA     |
| D7       | BN83-00046A | CKD-BN44-00053A | BN44-00053A,MBR745      | SNA     |
| D8       | BN83-00047A | CKD-BN44-00053A | BN44-00053A,UZ4.7BSB    | SNA     |
| FUSE     | BN83-00058A | CKD-BN44-00053A | BN44-00053A,SR-5032H    | SNA     |
| IC1      | BN83-00048A | CKD-BN44-00053A | BN44-00053A,1203-002276 | SNA     |
| IC2      | BN83-00049A | CKD-BN44-00053A | BN44-00053A,0604-001018 | SNA     |
| IC3      | BN83-00050A | CKD-BN44-00053A | BN44-00053A,1203-000002 | SNA     |

| Loc. No. | Code No.    | Description           | Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| L1       | BN83-00051A | CKD-BN44-00053A       | BN44-00053A,BH27-00050A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| L2       | BN83-00051A | CKD-BN44-00053A       | BN44-00053A,BH27-00050A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| PCB      | BN83-00063A | CKD-BN44-00053A       | BN44-00053A,PCB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Q1       | BN83-00052A | CKD-BN44-00053A       | BN44-00053A,MTP2955V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Q2       | BN83-00053A | CKD-BN44-00053A       | BN44-00053A,0501-000303                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Q3       | BN83-00054A | CKD-BN44-00053A       | BN44-00053A,0501-000586                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| R1       | BN83-00011A | CKD-BN44-00053A       | BN44-00053A,2001-001129                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| R10      | BN83-00018A | CKD-BN44-00053A       | BN44-00053A,2001-000449                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| R11      | BN83-00018A | CKD-BN44-00053A       | BN44-00053A,2001-000449                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| R12      | BN83-00019A | CKD-BN44-00053A       | BN44-00053A,2001-000042                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| R13      | BN83-00020A | CKD-BN44-00053A       | BN44-00053A,2001-000890                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| R14      | BN83-00021A | CKD-BN44-00053A       | BN44-00053A,2004-004038                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| R14      | BN83-00023A | CKD-BN44-00053A       | BN44-00053A,2004-000716                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| R15      | BN83-00022A | CKD-BN44-00053A       | BN44-00053A,2004-000284                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| R15      | BN83-00023A | CKD-BN44-00053A       | BN44-00053A,2004-000716                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| R16      | BN83-00024A | CKD-BN44-00053A       | BN44-00053A,2001-000058                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| R17      | BN83-00019A | CKD-BN44-00053A       | BN44-00053A,2001-000042                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| R2       | BN83-00011A | CKD-BN44-00053A       | BN44-00053A,2001-001129                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| R3       | BN83-00012A | CKD-BN44-00053A       | BN44-00053A,2001-001113                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| R4       | BN83-00012A | CKD-BN44-00053A       | BN44-00053A,2001-001113                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| R5       | BN83-00013A | CKD-BN44-00053A       | BN44-00053A,2003-000738                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| R6       | BN83-00014A | CKD-BN44-00053A       | BN44-00053A,6.8 OHM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| R7       | BN83-00015A | CKD-BN44-00053A       | BN44-00053A,2001-000429                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| R8       | BN83-00016A | CKD-BN44-00053A       | BN44-00053A,2001-000003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| R9       | BN83-00017A | CKD-BN44-00053A       | BN44-00053A,2001-000515                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| SHIELD   | BN83-00064A | CKD-BN44-00053A       | BN44-00053A,INSULATOR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| T1       | BN83-00056A | CKD-BN44-00053A       | BN44-00053A,BN26-00002A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| TH1      | BN83-00055A | CKD-BN44-00053A       | BN44-00053A,1404-001020                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| CIS      | BN90-00245A | ASSY SHIELD-COVER     | GG15LS,-,SECC,T0.8,-,-,-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| CIS      | BN70-00202C | PLATE-COVER           | ,SECC,T1.0,CHANGE CORE C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| CIS      | BN71-00022A | EARTH PLATE           | RB15AS,SUS,T0.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| CIS      | BN71-00031A | SHIELD PLATE          | GH15LS,SUS,T0.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| -        | BN92-00315U | ASSY BOX              | 51S-SN,DOMESTIC,KOREA,-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| CIS      | BH68-00305A | LABEL BAR CODE        | TAIWAN,ALL,ART_PAPER 100G,-,WHT,BLANK,-,-,-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| CIS      | BH75-10529A | UNIT-HANDLE PACKING   | LXA410TLMU,PE,-,WHITE,-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| CIS      | BN72-60001A | LEVER TOP             | LSD210TL,PE-LD,WHITE,TFT_LCD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| CIS      | BN72-60002A | LEVER BOTTOM          | LSD210TL,PE-LD,WHITE,TFT-LCD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| CIS      | BN68-00135D | LABEL BAR CODE        | -,ALL,TCO99,DOM,ART-PAPER 90G,-,WHT,BLACK,-,-,-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| CIS      | BN69-00224B | BOX                   | S/T51S,DOMESTIC,CB-SW4,YEL,A-1,-,-,-,L451*W445*H211,-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| -        | BN92-00316D | ASSY LABEL            | 51S-SN,DOMESTIC,KOREA,-,-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| CIS      | 0203-001159 | TAPE-FILAMENT         | #8915,T0.15,W12,L55000,CLR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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| CIS      | BN68-00140A | LABEL-POLYESTER PAPER | LCD 14,15,PE TO.075,334*260,CLEAR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| CIS      | BN68-00219B | LABEL RATING          | KOREA,BARCODE,PE,T0.05,60,35,SYNC,-,PE NATURE,-,-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| CIS      | BN68-00230B | LABEL RATING          | GH15LT,KOREA,PE,T0.05,90,30,SYNC,-,PE NATURE,-,-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| CIS      | BN68-00354A | LABEL-CAUTION         | 22A1,T/P,60,18,HIGH VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| -        | BN92-00346C | ASSY P/MATERIAL       | GD15NS,-,-,-,-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| CIS      | 0203-001100 | TAPE-OPP MASKING      | OPP/W75/CLR,T0.05,W75,L800000,CLR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| CIS      | BH69-30355D | BAG-PE/N              | RN15,HDPE+PE FOAM,0.015*0.5,600,600,NTR,-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| CIS      | BN69-00212A | CUSHION-L/R           | GH15LT,EPS 50M,-,-,-,-,-,-,-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| -        | BN92-00670G | ASSY ACCESSORY        | 51S-SS3,DOMESTIC,KOREA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| CIS      | BN96-00288G | ASSY ACCESSORY        | 51S-SS3,DOMESTIC,KOREA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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| CIS      | 0203-000214 | TAPE-OPP MASKING      | OPP/W50/CLR,T0.05,W50,L400000,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| CIS      | BH68-00511A | MANUAL                | DOM-REGISTRATION,SAMSUNG,KOREAN,DOMESTIC,MOJO250G,148,210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| CIS      | BH69-30348D | BAG-PE                | LDPE,T0.05,W240*L356,Y,-,CMG73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| CIS      | BN39-00165A | CBF POWER CORD        | GH15L,SP-022/IS-034,VCTF 3G,250V,7A/2.5A,1830MM,CP3/YES,BLACK,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78,80,82,84,86,88,90,92,94,96,98,100,102,104,106,108,110,112,114,116,118,120,122,124,126,128,130,132,134,136,138,140,142,144,146,148,150,152,154,156,158,160,162,164,166,168,170,172,174,176,178,180,182,184,186,188,190,192,194,196,198,200,202,204,206,208,210,212,214,216,218,220,222,224,226,228,230,232,234,236,238,240,242,244,246,248,250,252,254,256,258,260,262,264,266,268,270,272,274,276,278,280,282,284,286,288,290,292,294,296,298,300,302,304,306,308,310,312,314,316,318,320,322,324,326,328,330,332,334,336,338,340,342,344,346,348,350,352,354,356,358,360,362,364,366,368,370,372,374,376,378,380,382,384,386,388,390,392,394,396,398,400,402,404,406,408,410,412,414,416,418,420,422,424,426,428,430,432,434,436,438,440,442,444,446,448,450,452,454,456,458,460,462,464,466,468,470,472,474,476,478,480,482,484,486,488,490,492,494,496,498,500,502,504,506,508,510,512,514,516,518,520,522,524,526,528,530,532,534,536,538,540,542,544,546,548,550,552,554,556,558,560,562,564,566,568,570,572,574,576,578,580,582,584,586,588,590,592,594,596,598,600,602,604,606,608,610,612,614,616,618,620,622,624,626,628,630,632,634,636,638,640,642,644,646,648,650,652,654,656,658,660,662,664,666,668,670,672,674,676,678,680,682,684,686,688,690,692,694,696,698,700,702,704,706,708,710,712,714,716,718,720,722,724,726,728,730,732,734,736,738,740,742,744,746,748,750,752,754,756,758,760,762,764,766,768,770,772,774,776,778,780,782,784,786,788,790,792,794,796,798,800,802,804,806,808,810,812,814,816,818,820,822,824,826,828,830,832,834,836,838,840,842,844,846,848,850,852,854,856,858,860,862,864,866,868,870,872,874,876,878,880,882,884,886,888,890,892,894,896,898,900,902,904,906,908,910,912,914,916,918,920,922,924,926,928,930,932,934,936,938,940,942,944,946,948,950,952,954,956,958,960,962,964,966,968,970,972,974,976,978,980,982,984,986,988,990,992,994,996,998,1000,1002,1004,1006,1008,1010,1012,1014,1016,1018,1020,1022,1024,1026,1028,1030,1032,1034,1036,1038,1040,1042,1044,1046,1048,1050,1052,1054,1056,1058,1060,1062,1064,1066,1068,1070,1072,1074,1076,1078,1080,1082,1084,1086,1088,1090,1092,1094,1096,1098,1100,1102,1104,1106,1108,1110,1112,1114,1116,1118,1120,1122,1124,1126,1128,1130,1132,1134,1136,1138,1140,1142,1144,1146,1148,1150,1152,1154,1156,1158,1160,1162,1164,1166,1168,1170,1172,1174,1176,1178,1180,1182,1184,1186,1188,1190,1192,1194,1196,1198,1200,1202,1204,1206,1208,1210,1212,1214,1216,1218,1220,1222,1224,1226,1228,1230,1232,1234,1236,1238,1240,1242,1244,1246,1248,1250,1252,1254,1256,1258,1260,1262,1264,1266,1268,1270,1272,1274,1276,1278,1280,1282,1284,1286,1288,1290,1292,1294,1296,1298,1300,1302,1304,1306,1308,1310,1312,1314,1316,1318,1320,1322,1324,1326,1328,1330,1332,1334,1336,1338,1340,1342,1344,1346,1348,1350,1352,1354,1356,1358,1360,1362,1364,1366,1368,1370,1372,1374,1376,1378,1380,1382,1384,1386,1388,1390,1392,1394,1396,1398,1400,1402,1404,1406,1408,1410,1412,1414,1416,1418,1420,1422,1424,1426,1428,1430,1432,1434,1436,1438,1440,1442,1444,1446,1448,1450,1452,1454,1456,1458,1460,1462,1464,1466,1468,1470,1472,1474,1476,1478,1480,1482,1484,1486,1488,1490,1492,1494,1496,1498,1500,1502,1504,1506,1508,1510,1512,1514,1516,1518,1520,1522,1524,1526,1528,1530,1532,1534,1536,1538,1540,1542,1544,1546,1548,1550,1552,1554,1556,1558,1560,1562,1564,1566,1568,1570,1572,1574,1576,1578,1580,1582,1584,1586,1588,1590,1592,1594,1596,1598,1600,1602,1604,1606,1608,1610,1612,1614,1616,1618,1620,1622,1624,1626,1628,1630,1632,1634,1636,1638,1640,1642,1644,1646,1648,1650,1652,1654,1656,1658,1660,1662,1664,1666,1668,1670,1672,1674,1676,1678,1680,1682,1684,1686,1688,1690,1692,1694,1696,1698,1700,1702,1704,1706,1708,1710,1712,1714,1716,1718,1720,1722,1724,1726,1728,1730,1732,1734,1736,1738,1740,1742,1744,1746,1748,1750,1752,1754,1756,1758,1760,1762,1764,1766,1768,1770,1772,1774,1776,1778,1780,1782,1784,1786,1788,1790,1792,1794,1796,1798,1800,1802,1804,1806,1808,1810,1812,1814,1816,1818,1820,1822,1824,1826,1828,1830,1832,1834,1836,1838,1840,1842,1844,1846,1848,1850,1852,1854,1856,1858,1860,1862,1864,1866,1868,1870,1872,1874,1876,1878,1880,1882,1884,1886,1888,1890,1892,1894,1896,1898,1900,1902,1904,1906,1908,1910,1912,1914,1916,1918,1920,1922,1924,1926,1928,1930,1932,1934,1936,1938,1940,1942,1944,1946,1948,1950,1952,1954,1956,1958,1960,1962,1964,1966,1968,1970,1972,1974,1976,1978,1980,1982,1984,1986,1988,1990,1992,1994,1996,1998,2000,2002,2004,2006,2008,2010,2012,2014,2016,2018,2020,2022,2024,2026,2028,2030,2032,2034,2036,2038,2040,2042,2044,2046,2048,2050,2052,2054,2056,2058,2060,2062,2064,2066,2068,2070,2072,2074,2076,2078,2080,2082,2084,2086,2088,2090,2092,2094,2096,2098,2100,2102,2104,2106,2108,2110,2112,2114,2116,2118,2120,2122,2124,2126,2128,2130,2132,2134,2136,2138,2140,2142,2144,2146,2148,2150,2152,2154,2156,2158,2160,2162,2164,2166,2168,2170,2172,2174,2176,2178,2180,2182,2184,2186,2188,2190,2192,2194,2196,2198,2200,2202,2204,2206,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|         |

7 Block Diagram

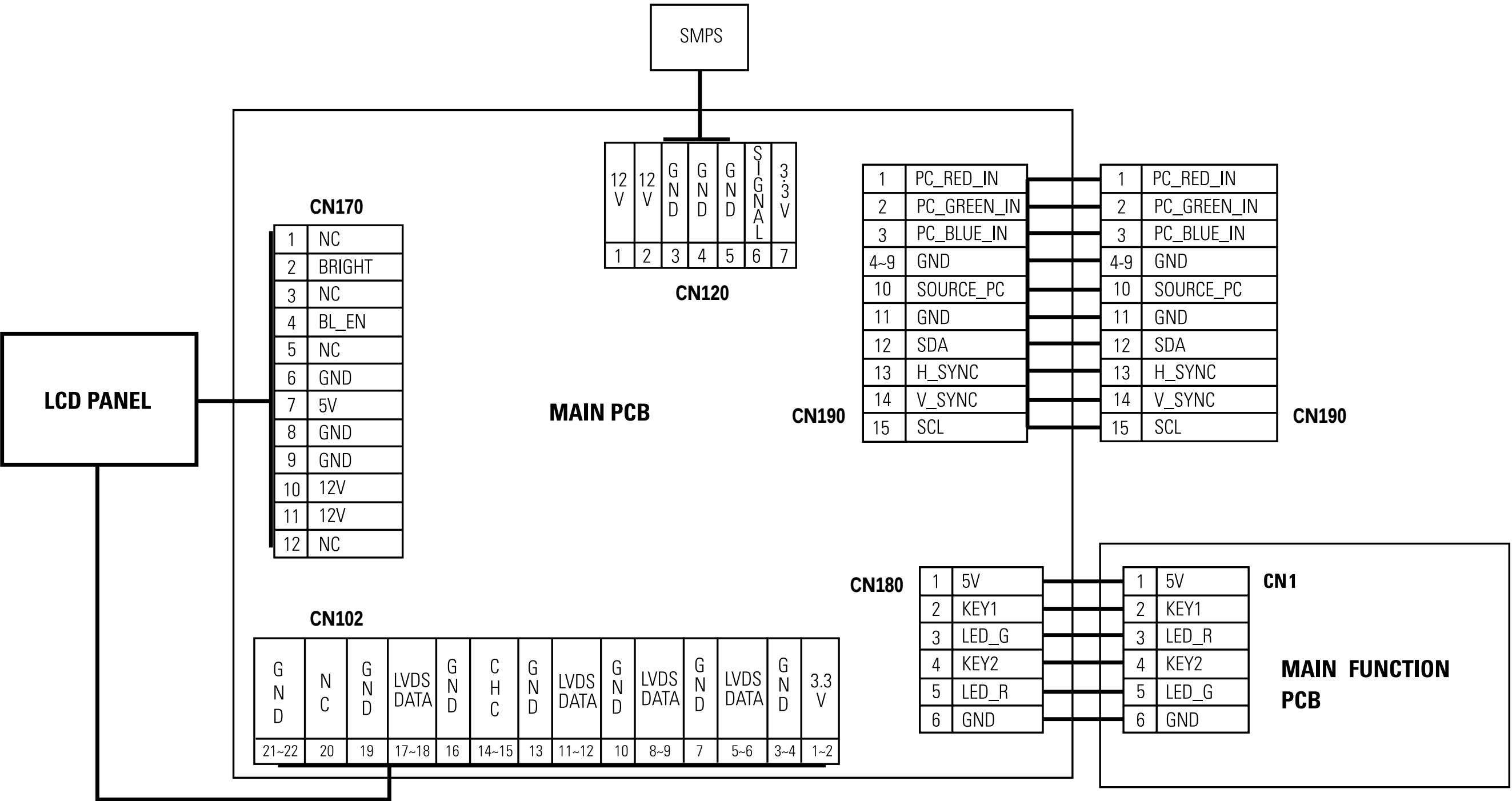




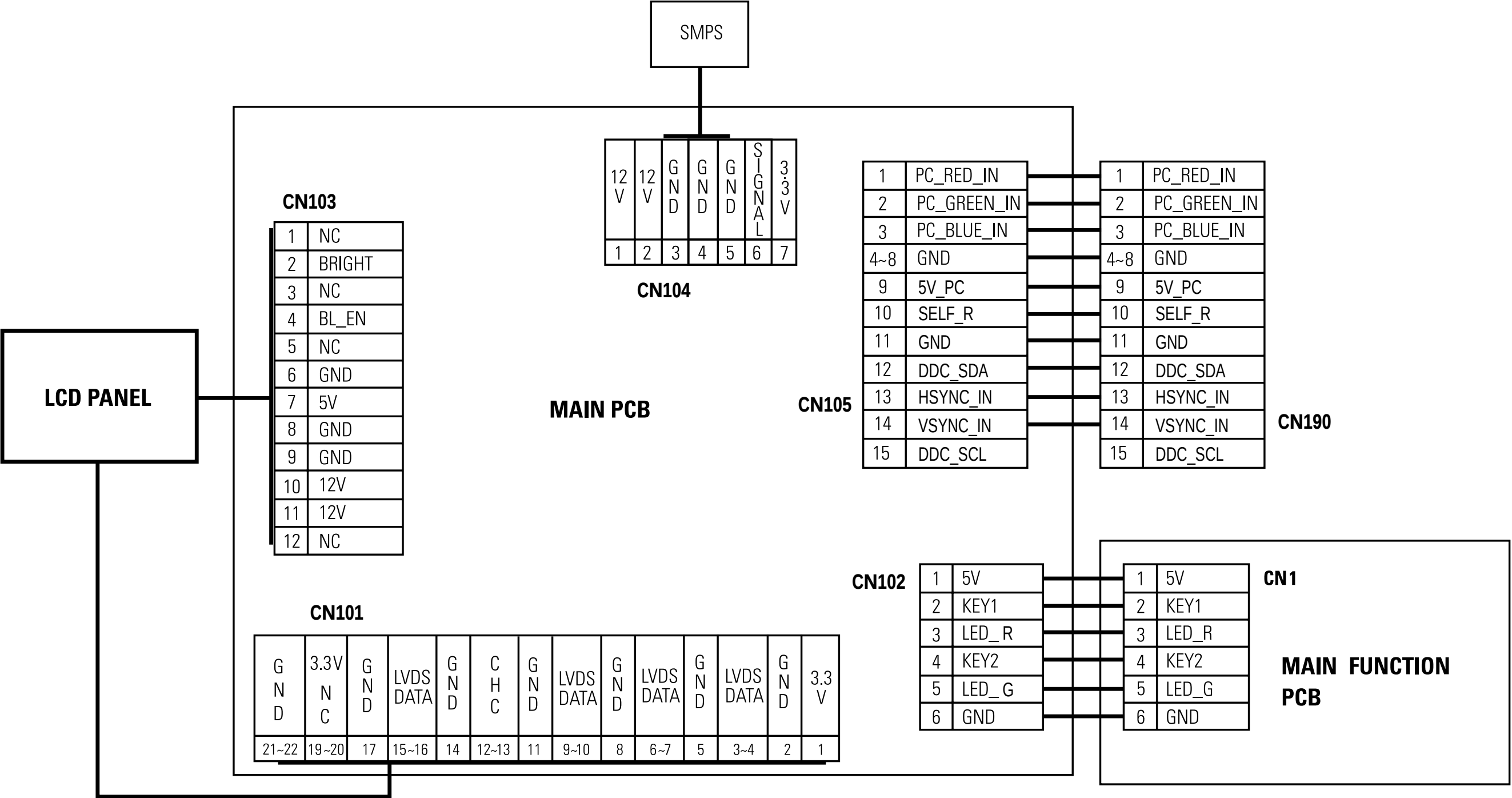
## Memo

8 Wiring Diagram

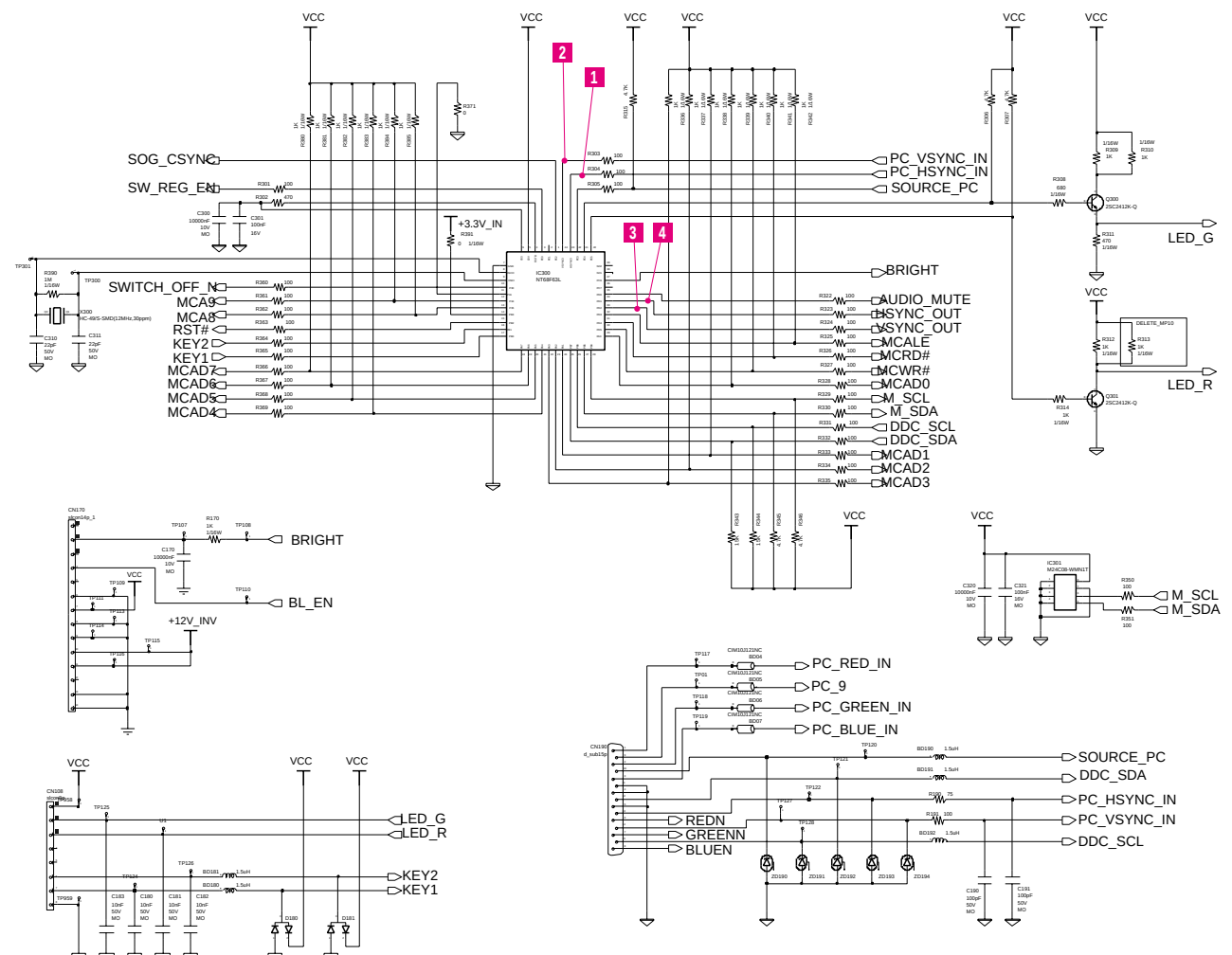
8-1 GG15AS/GG15L\*/GG15V\*/GG15E\*

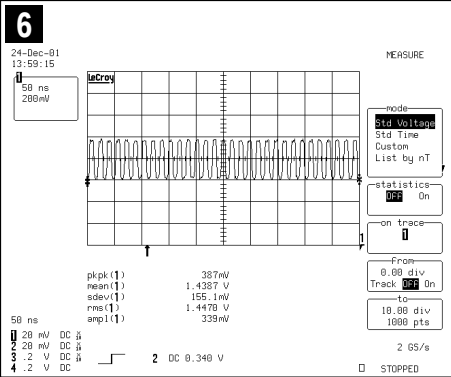
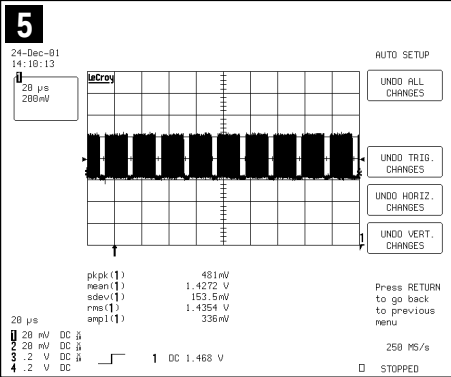
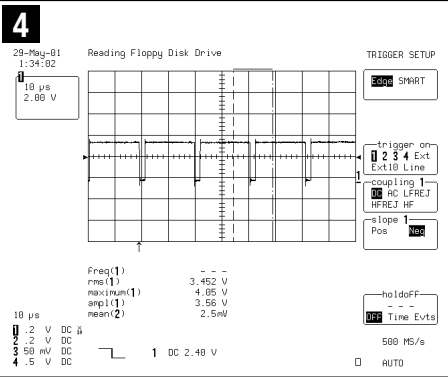
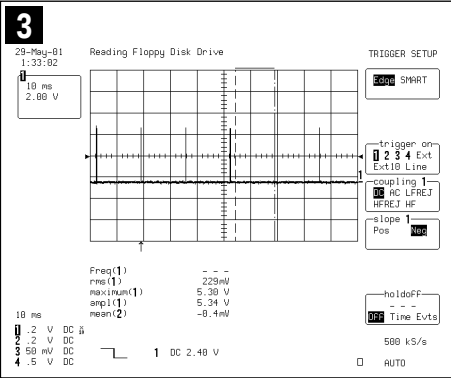
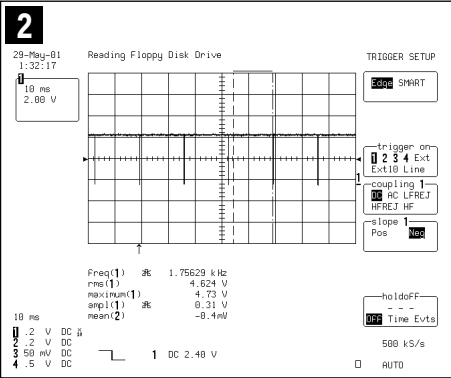
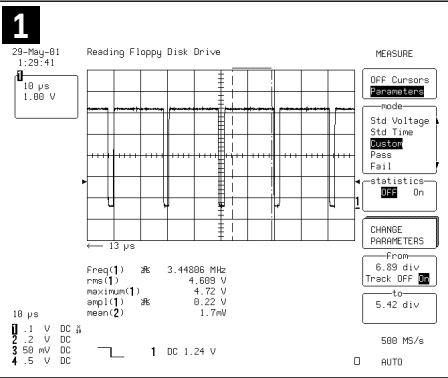


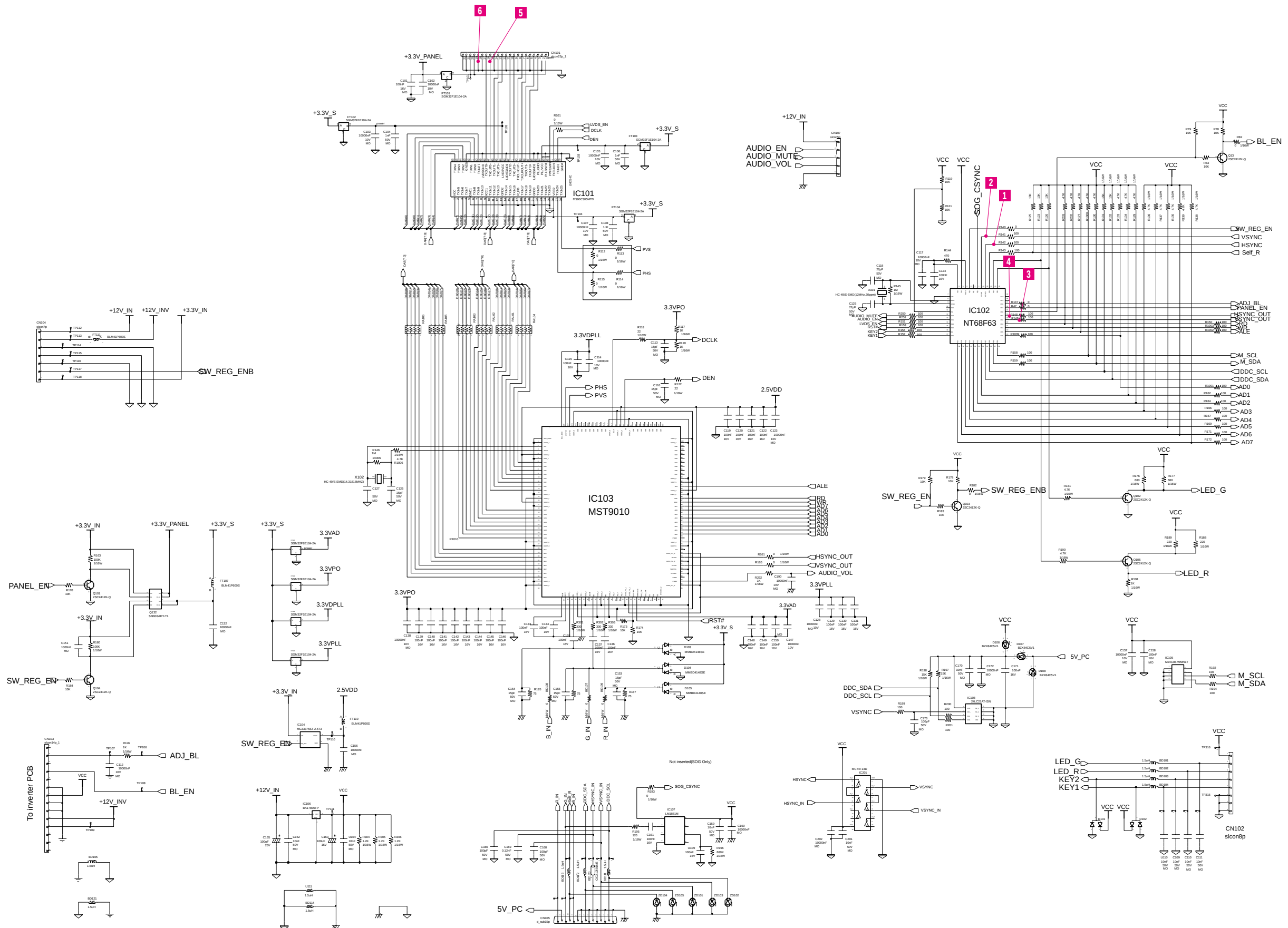
8-2 GG15AS(R)/GG15L\*(R)/GG15V\*(R)/GG15E\*(R)

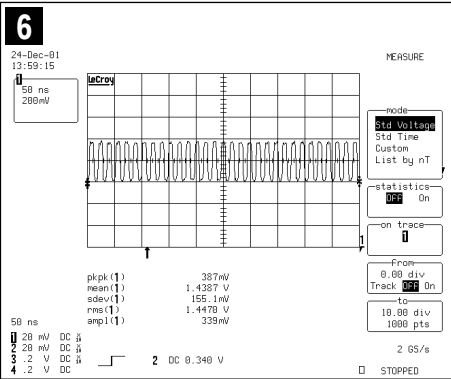
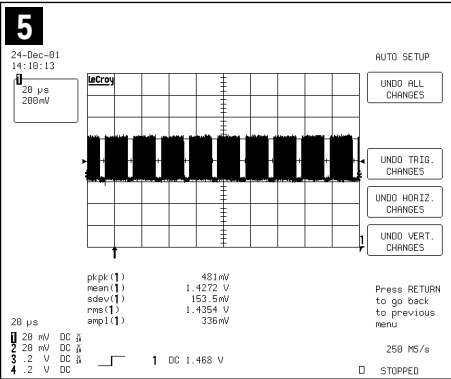
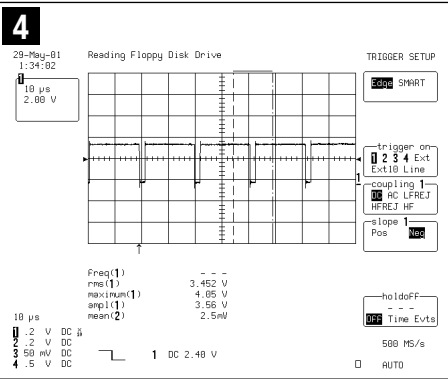
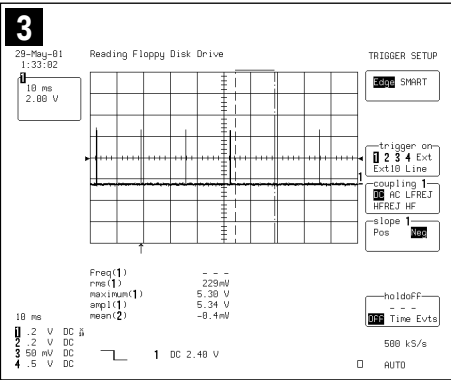
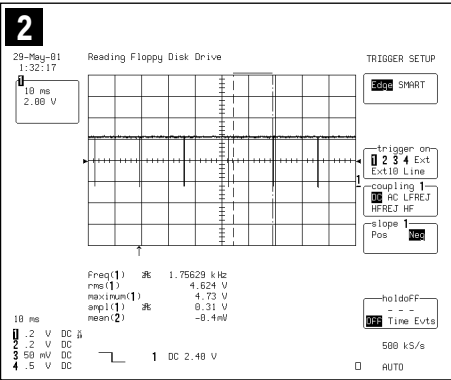
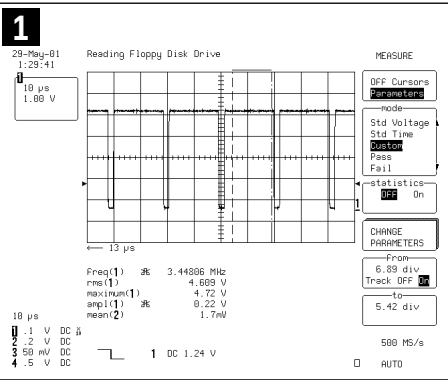


### 9-1 GG15AS Part Schematic diagram





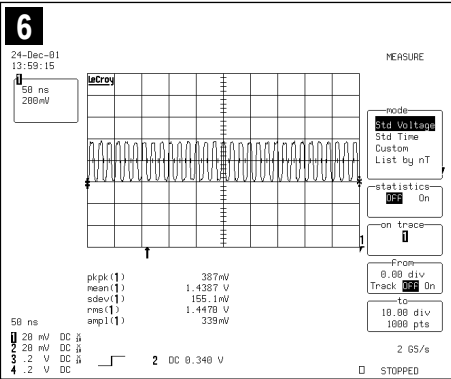
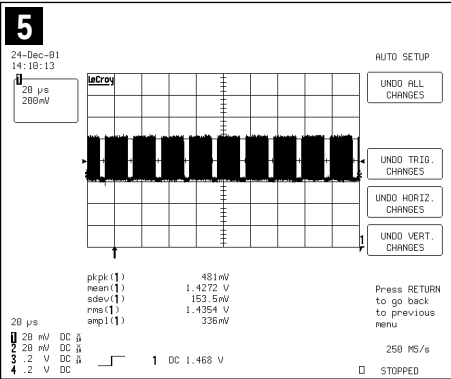
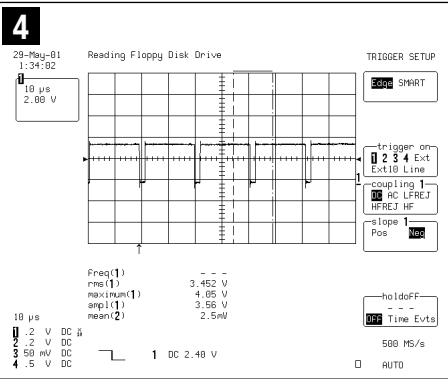
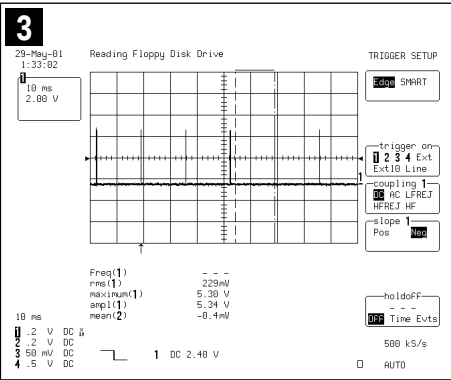
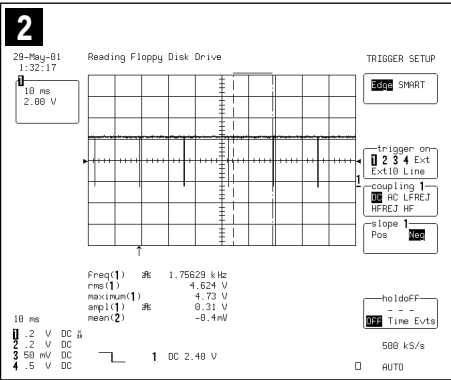
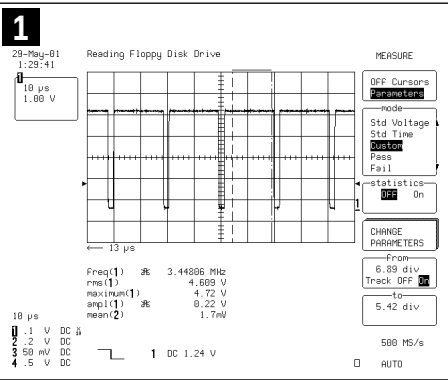




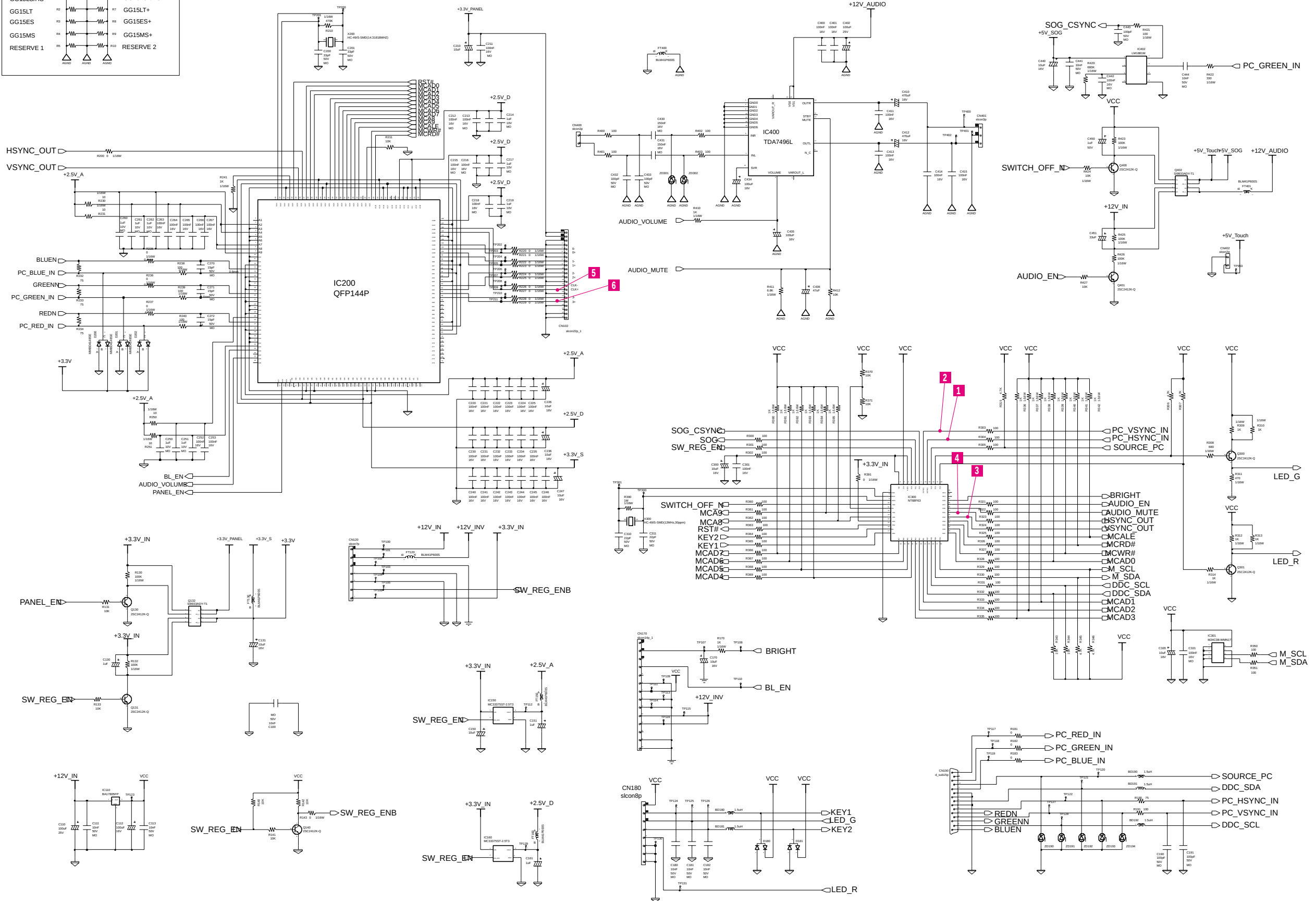


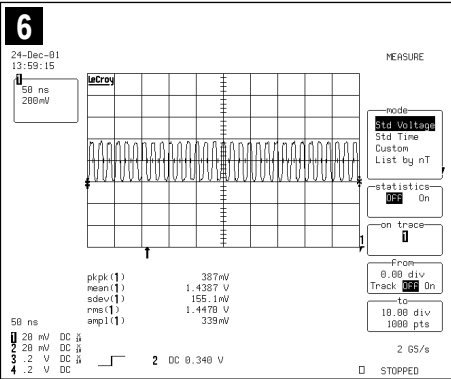
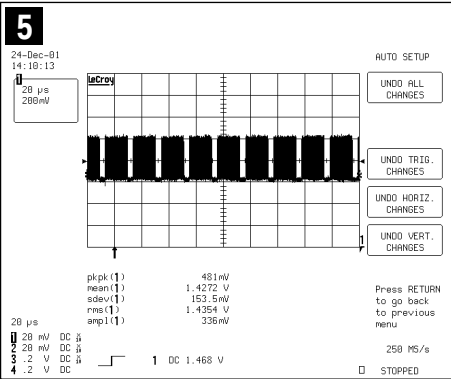
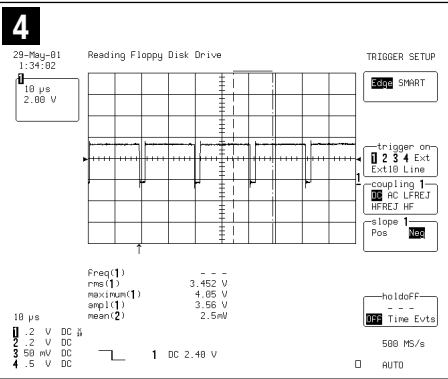
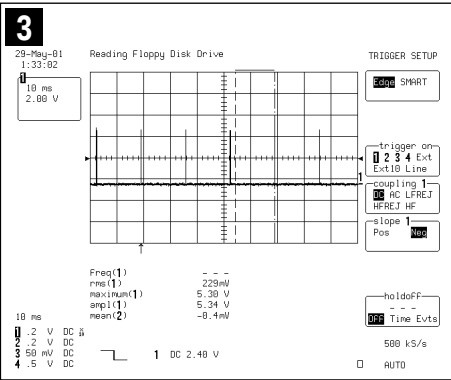
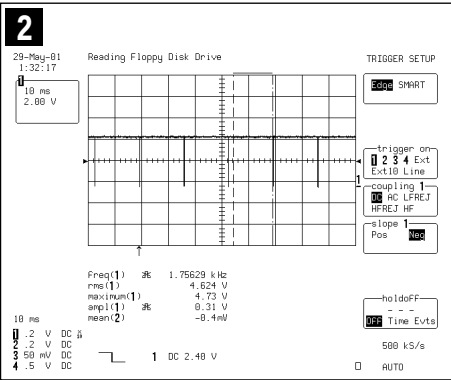
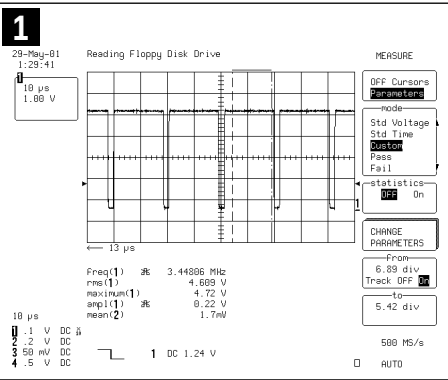






|           |                                                                                   |                                                                                   |                                                                                   |             |
|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------|
| GG15LS/HS | R5                                                                                |  | R6                                                                                | GG15LS+/HS+ |
| GG15LT    | R2                                                                                |  | R7                                                                                | GG15LT+     |
| GG15ES    | R3                                                                                |  | R8                                                                                | GG15ES+     |
| GG15MS    | R4                                                                                |  | R9                                                                                | GG15MS+     |
| RESERVE 1 |                                                                                   |  | R10                                                                               | RESERVE 2   |
|           |  |  |  |             |







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