

SAMSUNG

TFT-LCD MONITOR

| Chassis | Model |
|----------------|--------------|
| MJ15AS* | 510N |
| MJ15BS* | 510T |
| MJ17AS* | 710N |
| MJ17BS* | 710T |
| MJ19AS* | 910N |
| MJ19BS* | 910T |

SERVICE Manual

TFT-LCD MONITOR



Simple Stand



Pivot Stand

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1 Precautions

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

1-1 Safety Precautions

1-1-1 Warnings

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

1-1-2 Servicing the LCD Monitor

1. When servicing the LCD Monitor, 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).

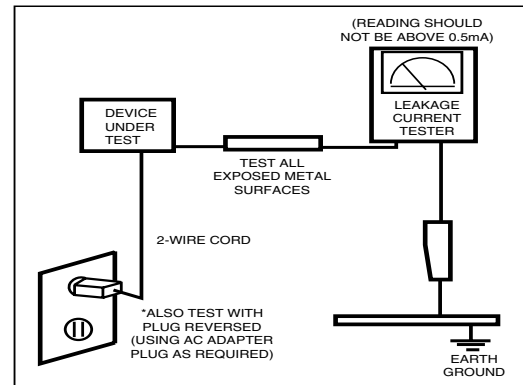


Figure 1-1. Leakage Current Test Circuit

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 MJ15AS*/MJ15BS*/MJ17AS*/MJ17BS* Specifications

| Item | Description | |
|--|---|--|
| | MJ15AS*/MJ15BS* | MJ17AS*/MJ17BS* |
| LCD Panel | TFT-LCD panel, RGB vertical stripe, normally black transmissive, 15-Inch viewable, 0.297 (H) x 0.297 (V) mm pixel pitch | TFT-LCD panel, RGB vertical stripe, normally black transmissive, 17-Inch viewable, 0.264 (H) x 0.264 (V) mm pixel pitch |
| Scanning Frequency | Horizontal : 31 kHz ~ 61 kHz (Automatic) Vertical : 50 Hz ~ 75 Hz | Horizontal : 30 kHz ~ 81 kHz (Automatic) Vertical : 56 Hz ~ 75 Hz |
| Display Colors | 16.2 Million colors | |
| Maximum Resolution | Horizontal : 1024 Pixels Vertical : 768 Pixels | Horizontal : 1280 Pixels Vertical : 1024 Pixels |
| Input Video Signal | Analog, 0.714 Vp-p ± 5% positive at 75 Ω, internally terminated | |
| Input Sync Signal | Type : Separate H/V sync, Composite H/V Level : TTL level (V high ≥ 2.0 V, V low ≤ 0.8 V), Sync-on-Green (≤ -0.25 V) | |
| Maximum Pixel Clock rate | 80 MHz | 135 MHz |
| Active Display Horizontal/Vertical | 304.1 mm / 228.1 mm | 338 ± 3 mm / 270 ± 3 mm |
| AC power voltage & Frequency | AC 90 ~ 264 Volts, 60/50 Hz ± 12V / 3A | AC 90 ~ 264 Volts, 60/50 Hz ± 3 Hz |
| Power Consumption | 25W (normal) | 34W (normal) |
| Dimensions | Simple Stand / Pivot Stand | Simple Stand |
| Set (W x D x H) | 13.3 x 2.2 x 10.7 Inches (338.0 x 56.3 x 272.0 mm) State of stand disassembled 13.3 x 6.9 x 13.3 Inches (338.0 x 175.0 x 337.0 mm) State of stand installed | 14.6 x 2.4 x 12.4 Inches (370.0 x 60.3 x 316.0 mm) State of stand disassembled 14.6 x 6.9 x 15 Inches (370.0 x 175.0 x 381.0 mm) State of stand installed |
| Package | 15.3 x 4.9 x 15.1 Inches (388 x 125 x 383 mm) | 17.9 x 5.6 x 17.2 Inches (455 x 141 x 437 mm) |
| Weight (Set/Package) | 3.1 kg (6.8 lbs) / 4.25 kg (9.4 lbs) | 4.5 kg (9.9 lbs) / 6.15 kg (13.6 lbs) |
| Dimensions | | Pivot Stand |
| Set (W x D x H) | - | 14.6 x 2.4 x 12.4 Inches (370.0 x 60.3 x 316.0 mm) State of stand disassembled 14.6 x 7.5 x 16.0 Inches (370.0 x 190.9 x 406.8 mm) State of stand installed |
| Package | | 20.0 x 10.1 x 16.0 Inches (508 x 256 x 407 mm) |
| Weight (Set/Package) | - | 6.25 kg (13.8 lbs) / 7.95 kg (17.5 lbs) |
| Environmental Considerations | Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -13°F ~ 113°F (-25°C ~ 45°C) Storage Humidity : 5 % ~ 95 % | |
| <ul style="list-style-type: none"> • Designs and specifications are subject to change without prior notice. | | |

2-2 MJ19AS*/MJ19BS* Specifications

| Item | Description | |
|--|---|--|
| LCD Panel | TFT-LCD panel, RGB vertical stripe, normally black transmissive, 19-Inch viewable, 0.297 (H) x 0.297 (V) mm pixel pitch | |
| Scanning Frequency | Horizontal : 31 kHz ~ 61 kHz (Automatic) Vertical : 55 Hz ~ 76 Hz | |
| Display Colors | 16.2 Million colors | |
| Maximum Resolution | Horizontal : 1280 Pixels Vertical : 1024 Pixels | |
| Input Video Signal | Analog, 0.7 Vp-p \pm 5% positive at 75 Ω , internally terminated | |
| Input Sync Signal | Type : Separate H/V sync, Composite H/V Level : TTL level (V high \geq 2.0 V, V low \leq 0.8 V), Sync-on-Green (\leq -0.25 V) | |
| Maximum Pixel Clock rate | 135 MHz | |
| Active Display Horizontal/Vertical | 376.32 mm \pm 3 mm / 301.056 mm \pm 3 mm | |
| AC power voltage & Frequency | AC 90 ~ 264 Volts, 60/50 Hz \pm 3Hz | |
| Power Consumption | 38W (normal) | |
| Dimensions | Simple Stand | Pivot Stand |
| Set (W x D x H) | 16.4 x 2.4 x 13.8 Inches (416.6 x 60.2 x 349.4 mm) State of stand disassembled 16.4 x 7.7 x 16.7 Inches (416.6 x 195.7 x 424.6 mm) State of stand installed | 16.4 x 2.4 x 13.8 Inches (416.6 x 60.2 x 349.4 mm) State of stand disassembled 16.4 x 7.5 x 16.7 Inches (416.6 x 190.9 x 423.4 mm) State of stand installed |
| Package | 20.0 x 5.9 x 19.4 Inches (509 x 150 x 494 mm) | 21.1 x 9.4 x 17.4 Inches (535 x 238 x 443 mm) |
| Weight (Set/Package) | 5.85 kg (12.9 lbs) / 7.8 kg (17.2 lbs) | 7.30 kg (16.1 lbs) / 9.1 kg (20.1 lbs) |
| Environmental Considerations | Operating Temperature : 50°F ~ 104°F (10°C ~ 40°C) Operating Humidity : 10 % ~ 80 % Storage Temperature : -13°F ~ 113°F (-25°C ~ 45°C) Storage Humidity : 5 % ~ 95 % | |
| <ul style="list-style-type: none"> • Designs and specifications are subject to change without prior notice. | | |

2-3 Pin Assignments

| Pin No. | Sync Type | 15-Pin D-Sub 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 | | DDC Return (GND) | DDC Return (GND) | DDC Return (GND) |
| 6 | | GND-R | GND-R | GND-R |
| 7 | | GND-G | GND-G | GND-G |
| 8 | | GND-B | GND-B | GND-B |
| 9 | | DDC Power Input (+5V) | DDC Power Input (+5V) | DDC Power Input (+5V) |
| 10 | | Self Raster | Self Raster | Self Raster |
| 11 | | GND | GND | GND |
| 12 | | Bi-Dr Data (SDA) | Bi-Dr Data (SDA) | Bi-Dr Data (SDA) |
| 13 | | H-Sync. | H/V-Sync. | Not Used |
| 14 | | V-Sync. | Not Used | Not Used |
| 15 | | DDC Clock (SCL) | DDC Clock (SCL) | DDC Clock (SCL) |

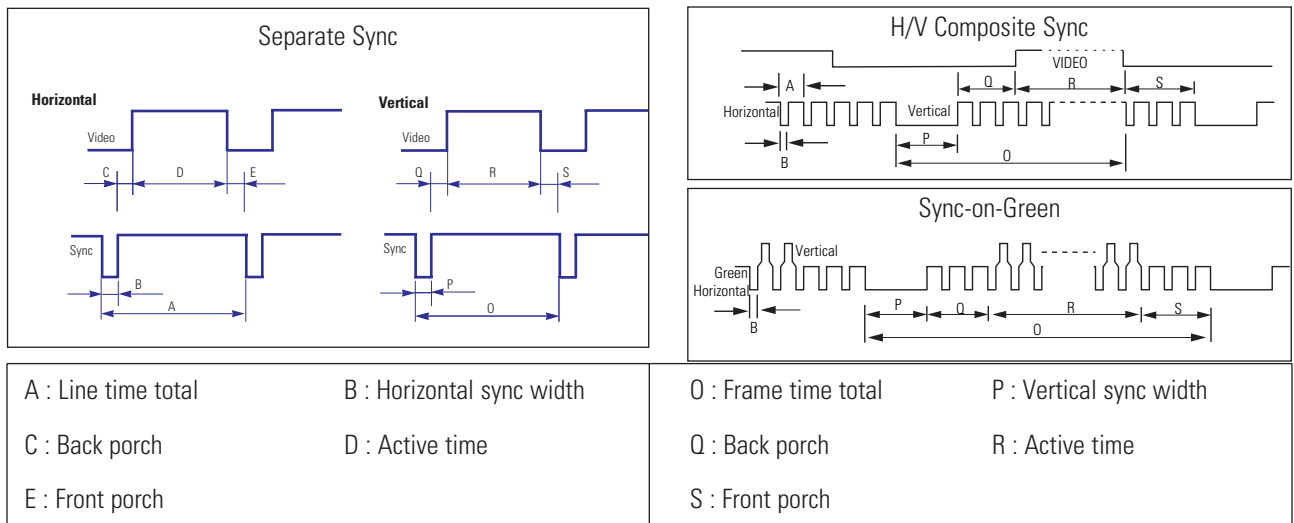
| Pin No. | Sync Type | 24P DVI-D | | |
|---------|-----------|-----------------|----|---------------|
| | | | | |
| 1 | | Rx2- | 13 | No Connection |
| 2 | | Rx2+ | 14 | +5V_M |
| 3 | | GND | 15 | Self Raster |
| 4 | | No Connection | 16 | +5V_M |
| 5 | | No Connection | 17 | Rx0- |
| 6 | | DDC Clock (SCL) | 18 | Rx0+ |
| 7 | | DDC Data (SDA) | 19 | NC |
| 8 | | NC | 20 | No Connection |
| 9 | | Rx1- | 21 | No Connection |
| 10 | | Rx1+ | 22 | NC |
| 11 | | NC | 23 | RxC+ |
| 12 | | No Connection | 24 | RxC- |

2-4 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 Timing | IBM | | VESA (MJ15AS*/MJ15BS*/MJ17AS*/MJ17BS*/MJ19AS*/MJ19BS*) | | | | | VESA(MJ17AS*/MJ17BS*/ MJ19AS*/MJ19BS*) | |
|--------------------|-----------------------------|-----------------------------|---|------------------------|------------------------|--------------------------|--------------------------|---|---------------------------|
| | VGA2/ 70 Hz 720 x 400 | VGA3/ 60 Hz 640 x 480 | 640/75 Hz 640 x 480 | 800/60 Hz 800 x 600 | 800/75 Hz 800 x 600 | 1024/60 Hz 1024 x 768 | 1024/75 Hz 1024 x 768 | 1280/60 Hz 1280 x 1024 | 1280/75 Hz 1280 x 1024 |
| fH (kHz) | 31.469 | 31.469 | 37.500 | 37.879 | 46.875 | 48.363 | 60.023 | 63.981 | 79.975 |
| A μsec | 31.777 | 31.778 | 26.667 | 26.400 | 21.333 | 20.677 | 16.660 | 11.852 | 12.504 |
| B μsec | 3.813 | 3.813 | 2.032 | 3.200 | 1.616 | 2.092 | 1.219 | 1.037 | 1.067 |
| C μsec | 1.589 | 1.589 | 3.810 | 2.200 | 3.232 | 2.462 | 2.235 | 2.296 | 1.837 |
| D μsec | 26.058 | 26.058 | 20.317 | 20.000 | 16.162 | 15.754 | 13.003 | 9.259 | 9.481 |
| E μsec | 0.318 | 0.318 | 0.508 | 0.000 | 0.323 | 0.369 | 0.203 | 0.000 | 0.119 |
| fV (Hz) | 70.087 | 59.940 | 75.000 | 60.317 | 75.000 | 60.004 | 75.029 | 60.020 | 75.025 |
| O msec | 14.268 | 16.683 | 13.333 | 16.579 | 13.333 | 16.666 | 13.328 | 16.005 | 13.329 |
| P msec | 0.064 | 0.064 | 0.080 | 0.106 | 0.064 | 0.124 | 0.050 | 0.047 | 0.038 |
| Q msec | 0.858 | 0.794 | 0.427 | 0.607 | 0.448 | 0.600 | 0.466 | 0.594 | 0.475 |
| R msec | 13.155 | 15.761 | 12.800 | 15.840 | 12.800 | 15.880 | 12.795 | 15.630 | 12.804 |
| S msec | 0.191 | 0.064 | 0.027 | 0.0261 | 0.021 | 0.062 | 0.017 | 0.016 | 0.013 |
| Clock Freq. (MHz) | 28.322 | 26.175 | 31.500 | 40.000 | 49.500 | 75.000 | 78.750 | 108.000 | 135.000 |
| Polarity H.Sync | Negative | Negative | Negative | Positive | Positive | Negative | Positive | Positive | Positive |
| V.Sync | Positive | Negative | Negative | Positive | Positive | Negative | Positive | Positive | Positive |
| Remark | Separate | Separate | Separate | Separate | Separate | Separate | Separate | Separate | Separate |



3 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the MJ15AS*/MJ17AS*/MJ19AS*/MJ15BS*/MJ17BS*/MJ19BS* TFT-LCD monitors.

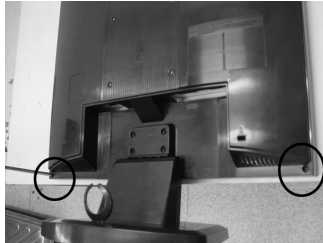
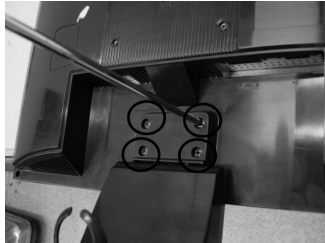
WARNING: This monitor contains electrostatically sensitive devices. Use caution when handling these components.

3-1 Disassembly

Cautions: 1. Disconnect the monitor from the power source before disassembly.

2. Follow these directions carefully; never use any metal instrument except provided jig to separate the cabinet.

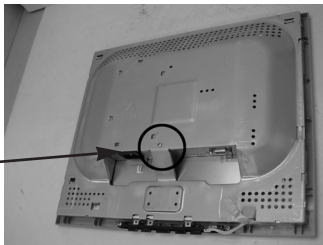
3. R/Cover opening jig : BH81-00001A



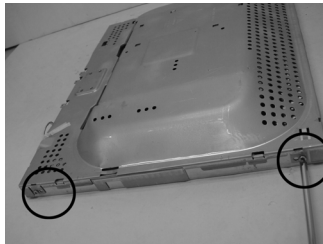
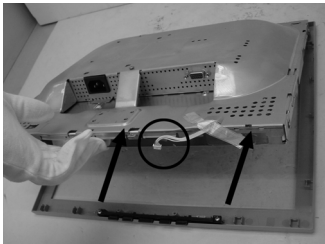
1. Place monitor face down on cushioned table. Remove 4 screws from grip on the stand and remove the stand. Remove 2 screws from the rear cover.



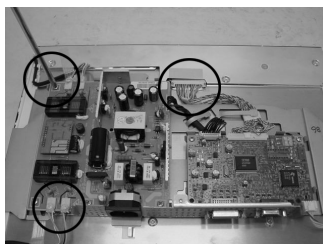
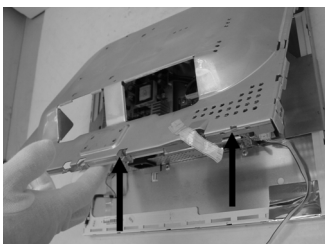
2. Insert the opening stand into the grooves at a hole and press until it clicks and lift the rear cover.



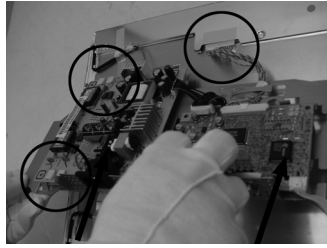
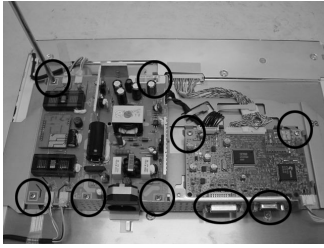
3. Remove 2 screws from the shield.



4. Disconnect function cable from the cover front and lift up the panel. Remove 4 screws from the panel shield. (Right / Left)



5. Lift up the panel shield and carefully remove the silicon glue on the cables with a nipper. **⚠Caution : Lamp wire may be easily damaged. Please use caution when removing the silicon.**



6. Remove 7 screws, 4 hexa screws from the boards and lift up the boards.
⚠ Caution : When repairing panel only, disconnect just LVDS cable, Panel-Lamp / Wire marked in circle in the picture without removing the screws on board in order to lift the board up.



7. This picture is panel.

3-2 Reassembly

Reassembly procedures are in the reverse order of disassembly procedures.

4 Alignments and Adjustments

This section of the service manual explains how to use the RS232 JIG.
This function is needed for AD board change and program memory (IC110) change.


4-1 Required Equipment

The following equipment is necessary for adjusting the monitor:

- Computer with Windows 95, Windows 98, or Windows NT.
- MTI-2031 DDC MANAGER JIG

4-2 Automatic Color Adjustment

To input video, use 16 gray or any pattern using black and white.

1. Select english for OSD language.
2. Press the “ (Enter/Source)” key for 5 seconds.

4-3 DDC EDID Data Input

1. Input DDC EDID data when replacing AD PCB.
2. Receive/Download the proper DDC file for the model from HQ quality control department.
Install the below jig (Figure 1) and enter the data.

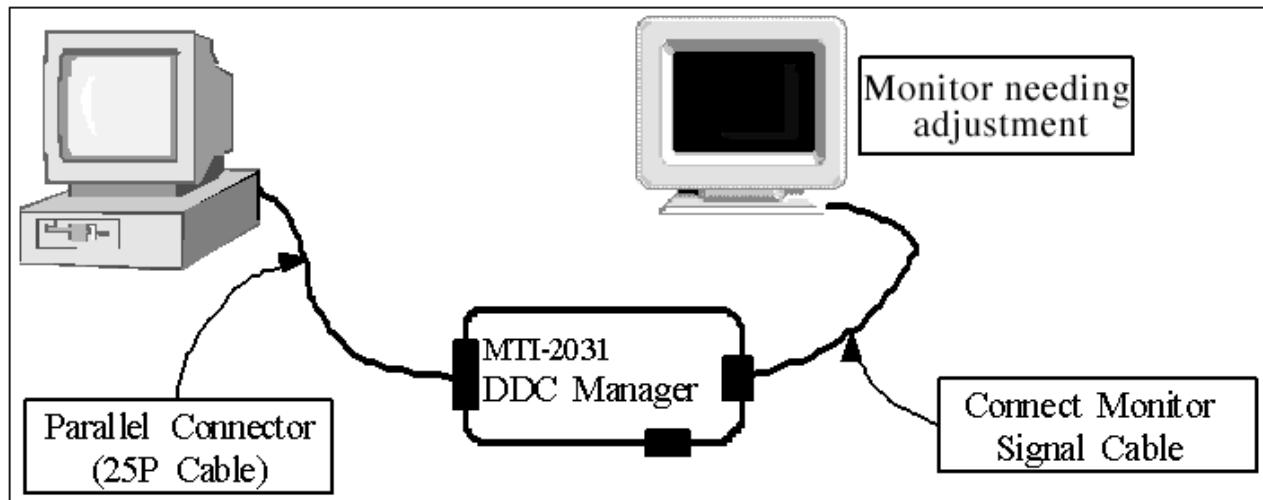



Figure 1.

4-4 OSD Adjustment When Replacing Panel

1. Adjust brightness and contrast to 0. Then, press the  (Enter/Source) key for 5 second.
Service function OSD will appear on screen.
2. Press the + key to place the cursor on the panel. Press the menu key for 5 seconds.


4-5 OSD Adjustment When Replacing Lamp Only

1. Adjust brightness and contrast to 0. Then, press the exit key for 5 seconds.
Service function OSD will appear on the screen.
2. Press the + key. Select upper lamp and press the menu key for 5 seconds.
Then, select lower lamp and press the menu key for 5 seconds.

* **Note** : Please be sure to read the following instructions for details on service function.

4-6 Service Function Spec.

4-6-1 How to Display Service Function OSD

1. The value for brightness and contrast should be changed to zero.
2. Within 5 seconds, press the  (Enter/Source) key.
3. Service function OSD will be displayed.

* If you want to disable the service function OSD, you will have to power off.

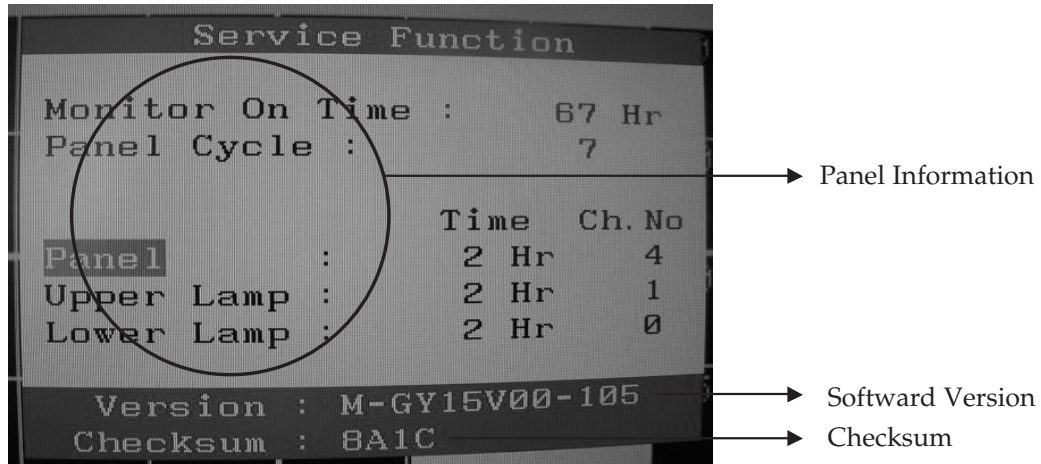


Figure 2. The example of service function OSD

The service function OSD is based on a grid of 29 columns x 12 rows.

The service function OSD consists of panel information, software version and MICOM checksum.

4-6-2 How to Control Service Function OSD

1. With the panel selected on OSD, whenever you press the right key, the base color will change to blue from "Panel" to "Upper Lamp", "Lower Lamp".

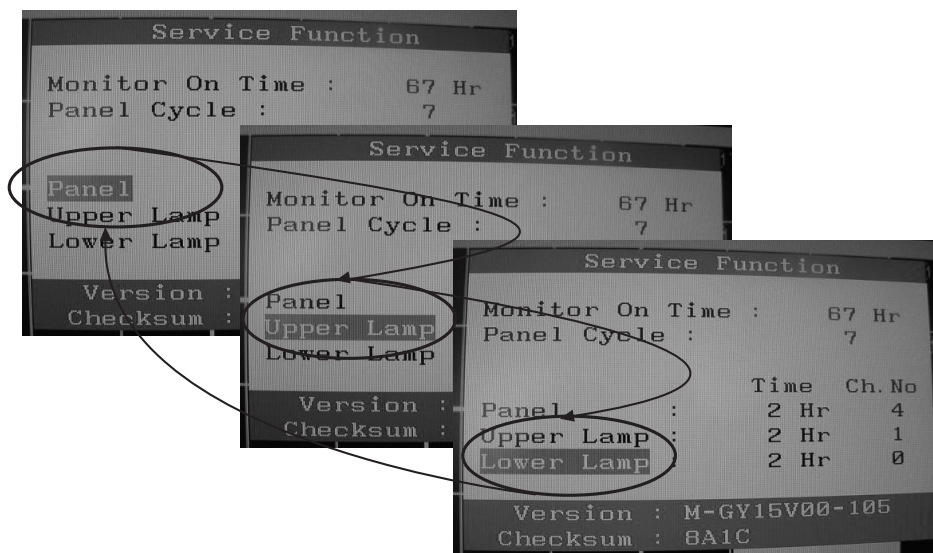


Figure 3.

4-6-3 How to Control Service Function OSD

•After change the panel or lamp, you must reset service function OSD.

•The case of panel change

After changing the panel, press the menu key within 5 seconds,.

Then, panel Ch. No increases one step and the panel time information is reset to zero.

Simultaneously, other information is reset to zero (Upper/Lower lamp, Panel cycle).

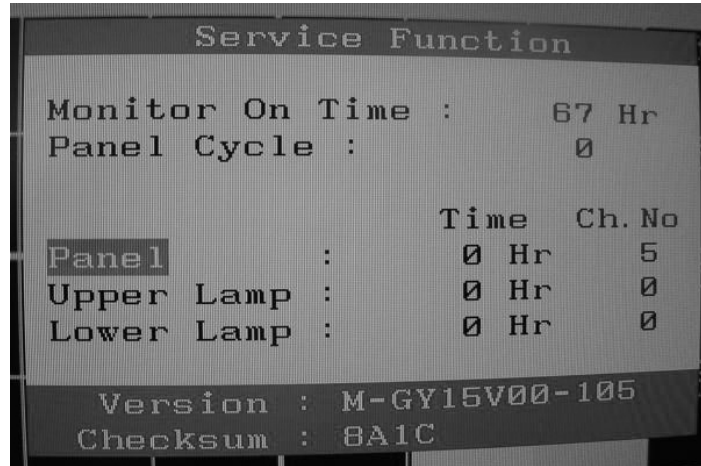


Figure 4.

4-6-4 How to Control Service Function OSD

•In the case of Upper Lamp or Lower Lamp change

After changing the Upper Lamp or Lower Lamp,

1. Select the Upper Lamp or Lower Lamp
2. Press the Menu key within an 5 seconds.

Then, Ch. No and time will be reset to zero (selected item only).

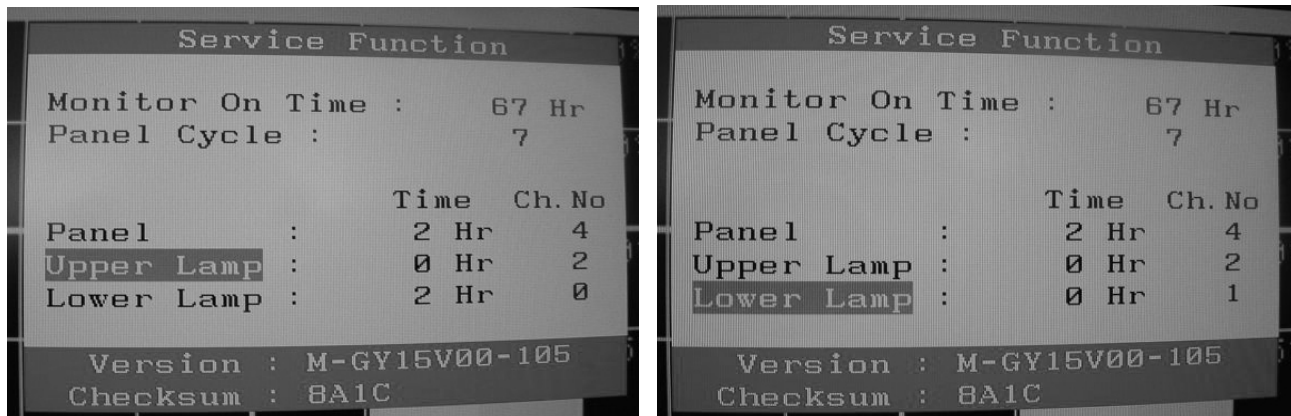


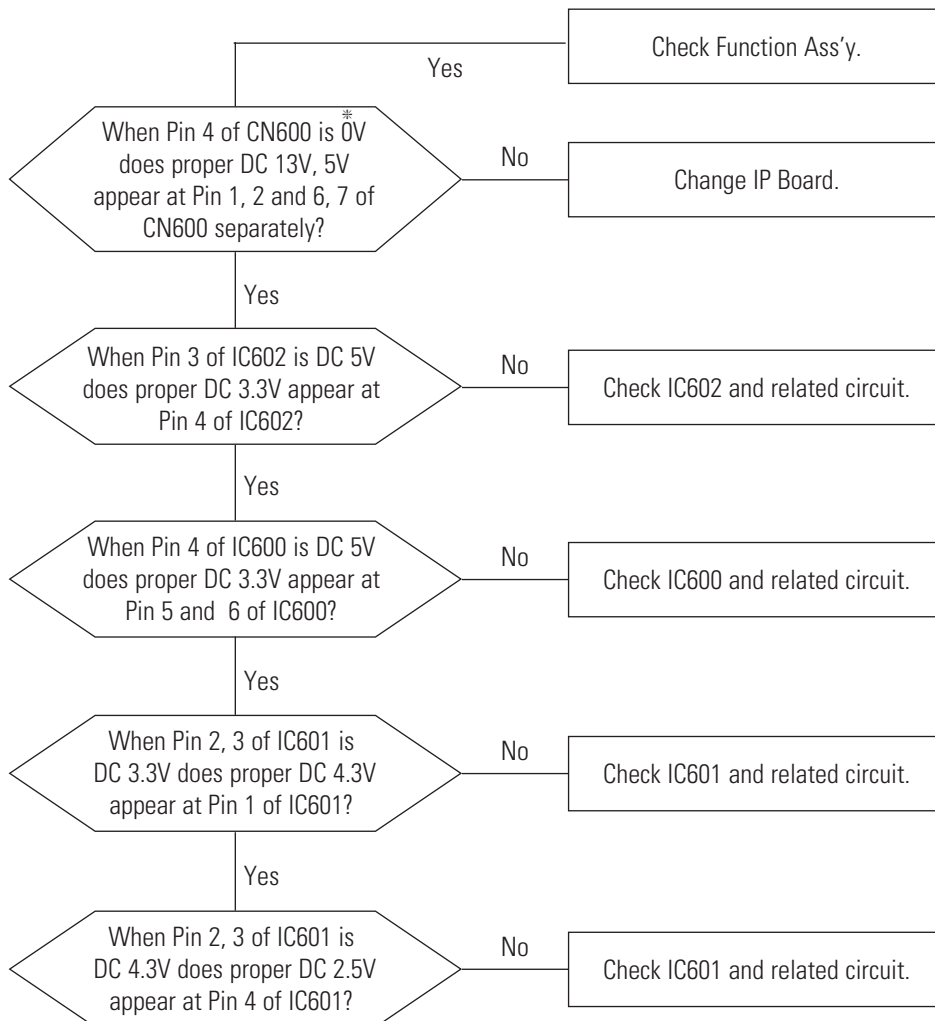
Figure 5, 6.

Memo

5 Troubleshooting

- Notes:**
- Before troubleshooting, setup the PC's display as below.
 - Resolution: 1024 x 768
 - H-frequency: 61 kHz
 - V-frequency: 75 Hz
 - If no picture appears, make sure the power cord is correctly connected.
 - Check the following circuits.
 - No raster appears: Function PBA, Main PBA, I/D PBA
 - 5V develop but no screen: Main PBA
 - 5V does not develop: I/D PBA
 - If you push and hold the " (Enter, Source)" button for more than 5 seconds, the monitor automatically returns to the factory preset.

5-1-1 No Power (MJ15A*/MJ15B*)

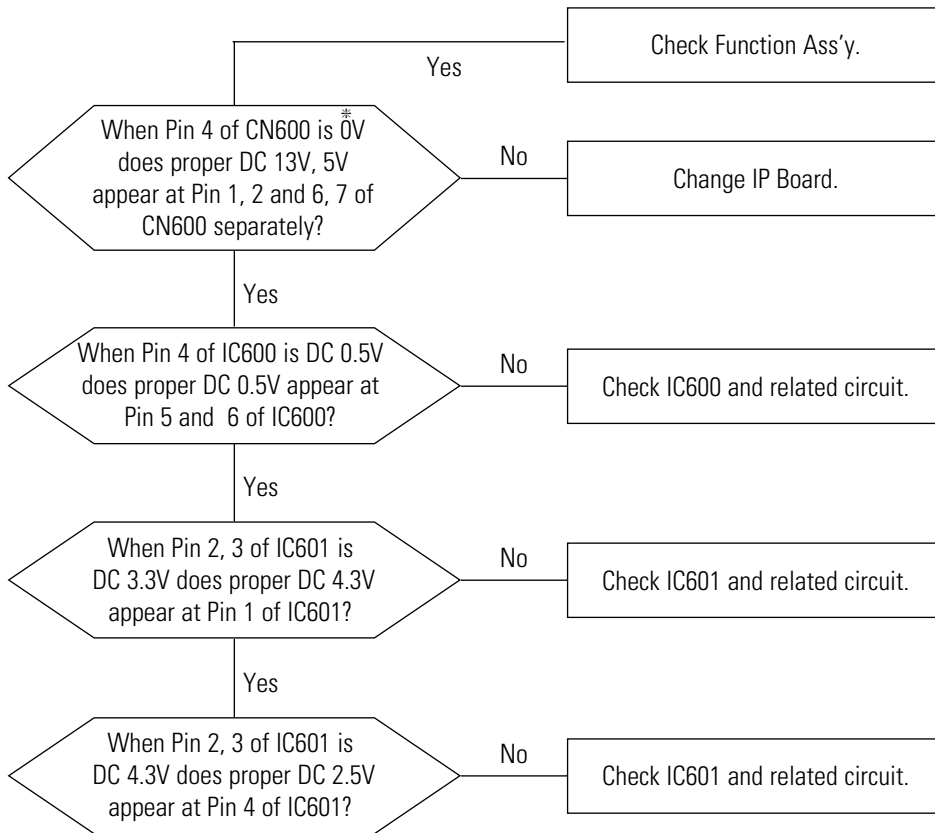


* 0V means power on state.

When the monitor work well except DPMS and power switch off,
0V should be applied to number 4 of CN600.

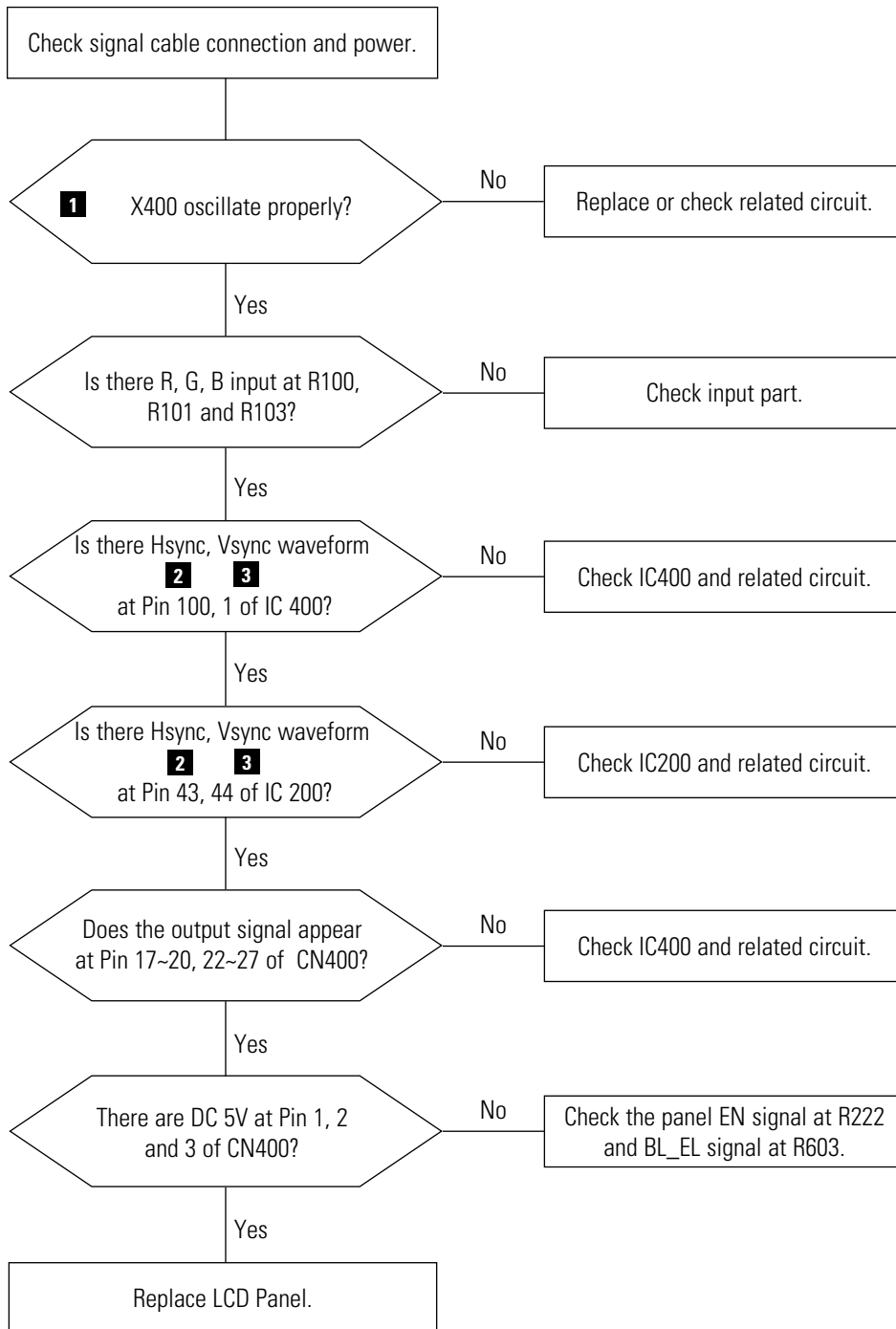
- Notes:**
1. Before troubleshooting, setup the PC's display as below.
 - Resolution: 1280 x 1024
 - H-frequency: 64 kHz
 - V-frequency: 60 Hz
 2. If no picture appears, make sure the power cord is correctly connected.
 3. Check the following circuits.
 - No raster appears: Function PBA, Main PBA, I/P PBA
 - 5V develop but no screen: Main PBA
 - 5V does not develop: I/P PBA
 4. If you push and hold the "⏏(Enter/Source)" button for more than 5 seconds, the monitor automatically returns to the factory preset.

5-1-2 No Power (MJ17A*/MJ19A*/MJ17B*/MJ19B*)

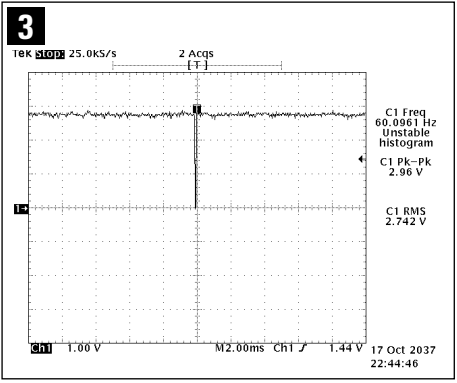
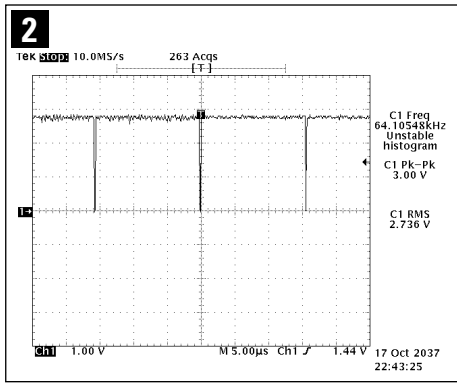
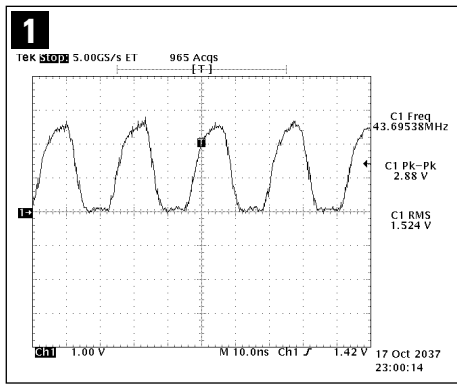


* 0V means power on state.
When the monitor work well except DPMS and power switch off,
0V should be applied to number 4 of CN600.

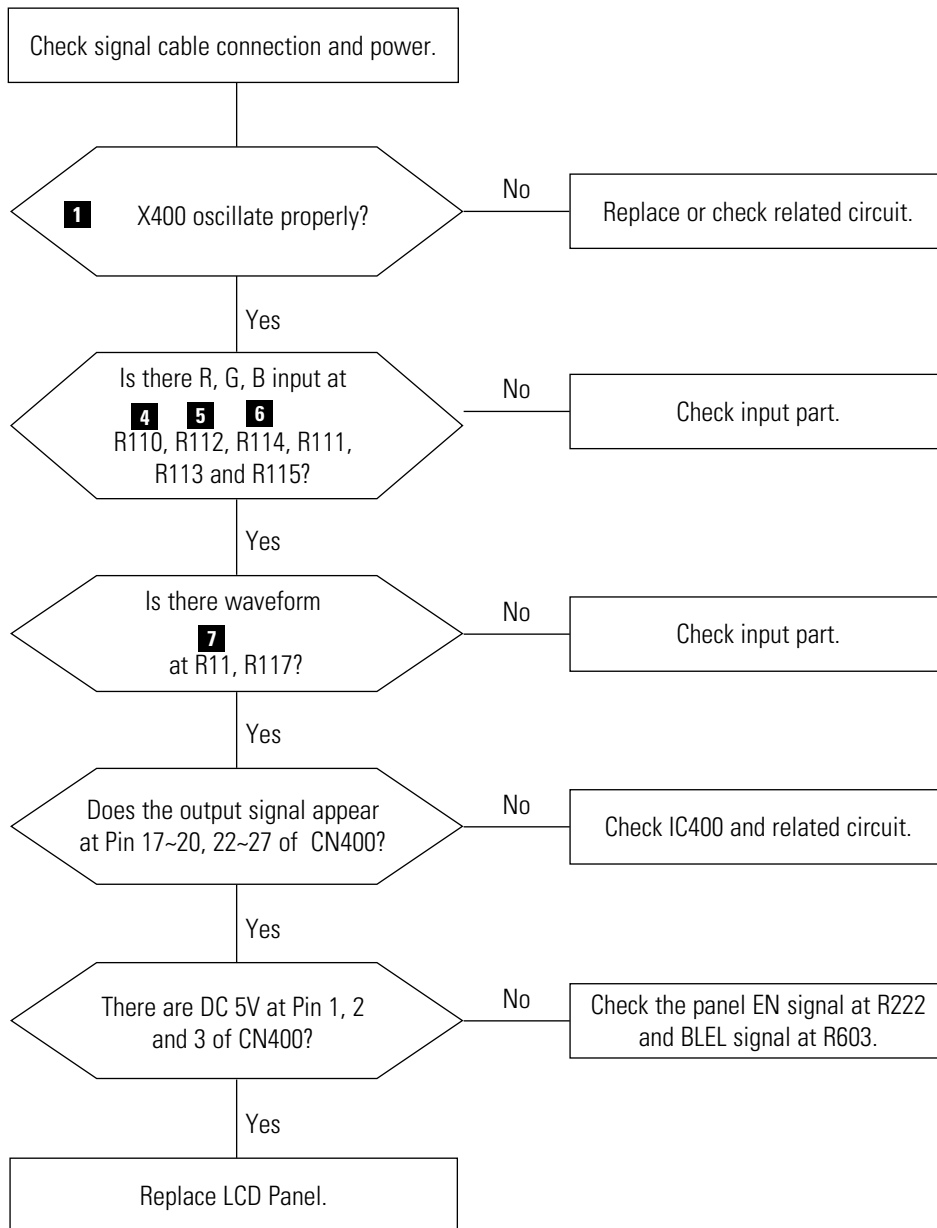
5-2-1 No Video (ANALOG)



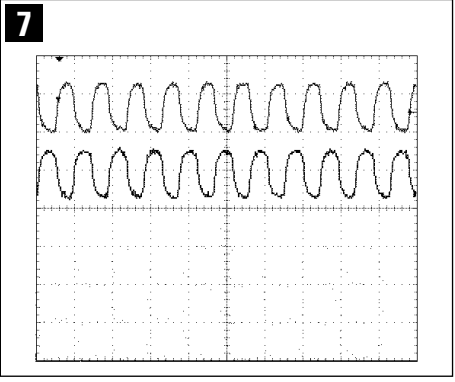
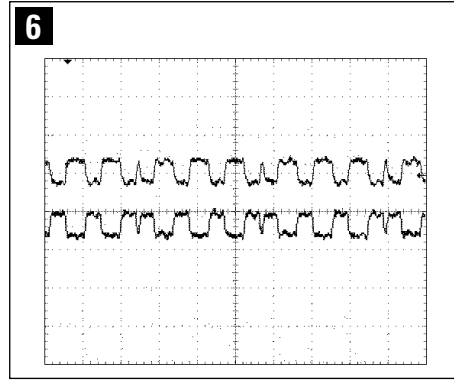
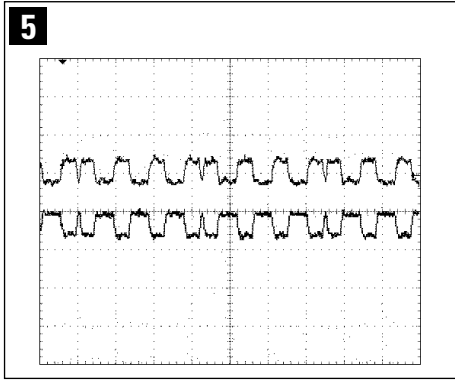
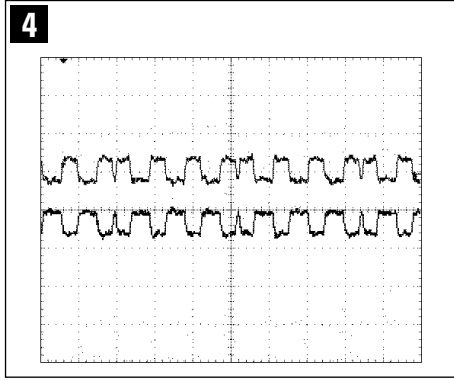
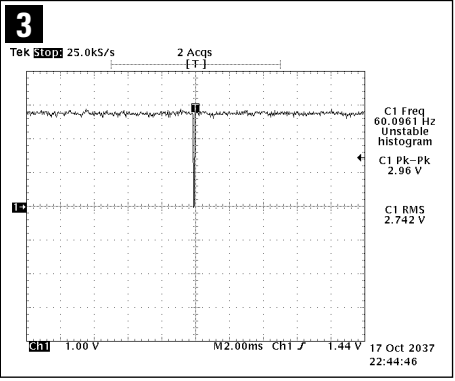
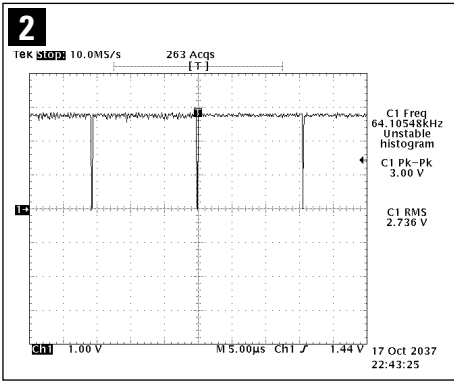
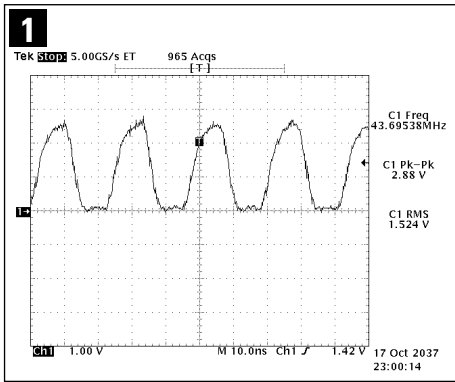
WAVEFORMS



5-2-2 No Video (DIGITAL)



WAVEFORMS

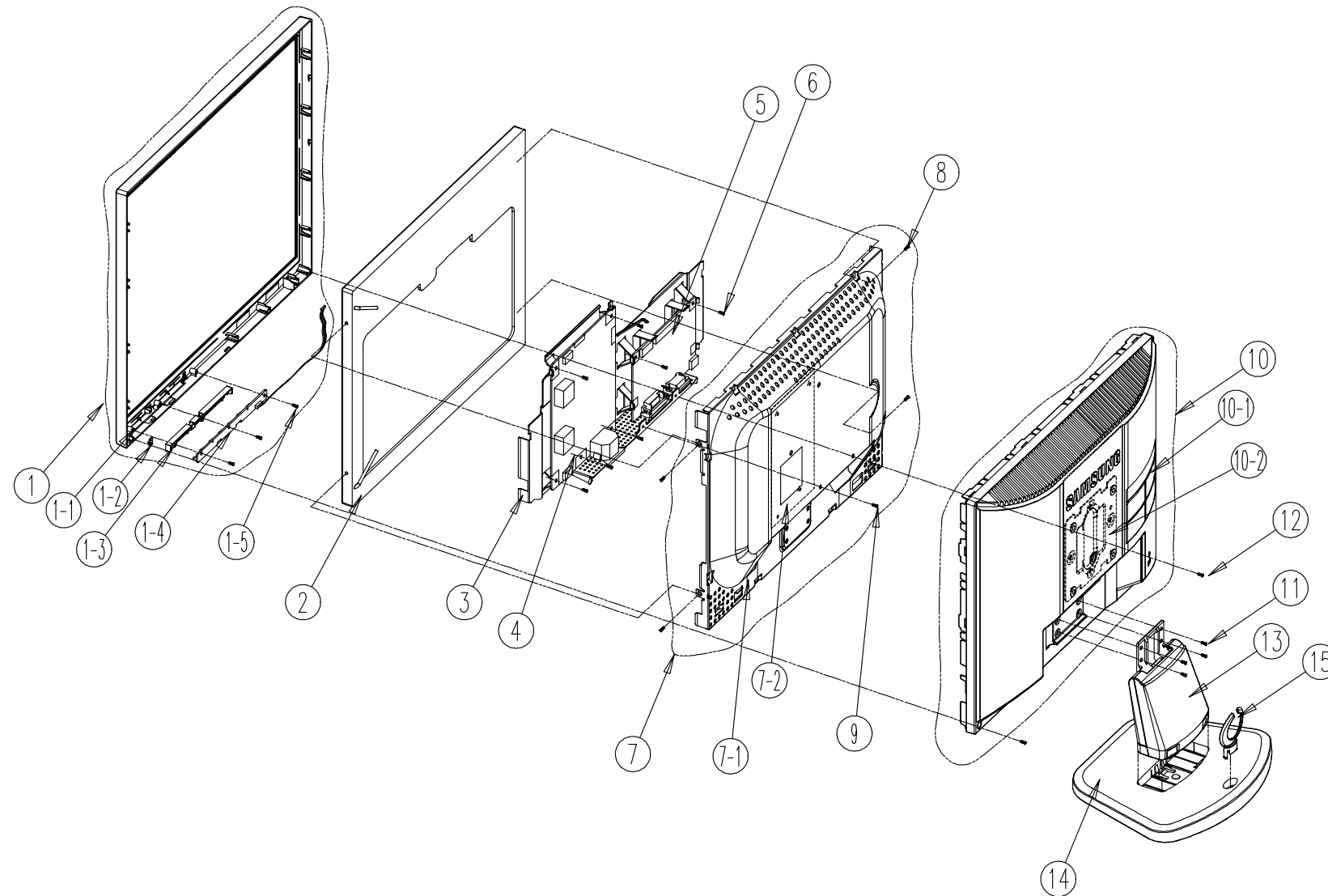


6 Exploded View and Parts List

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

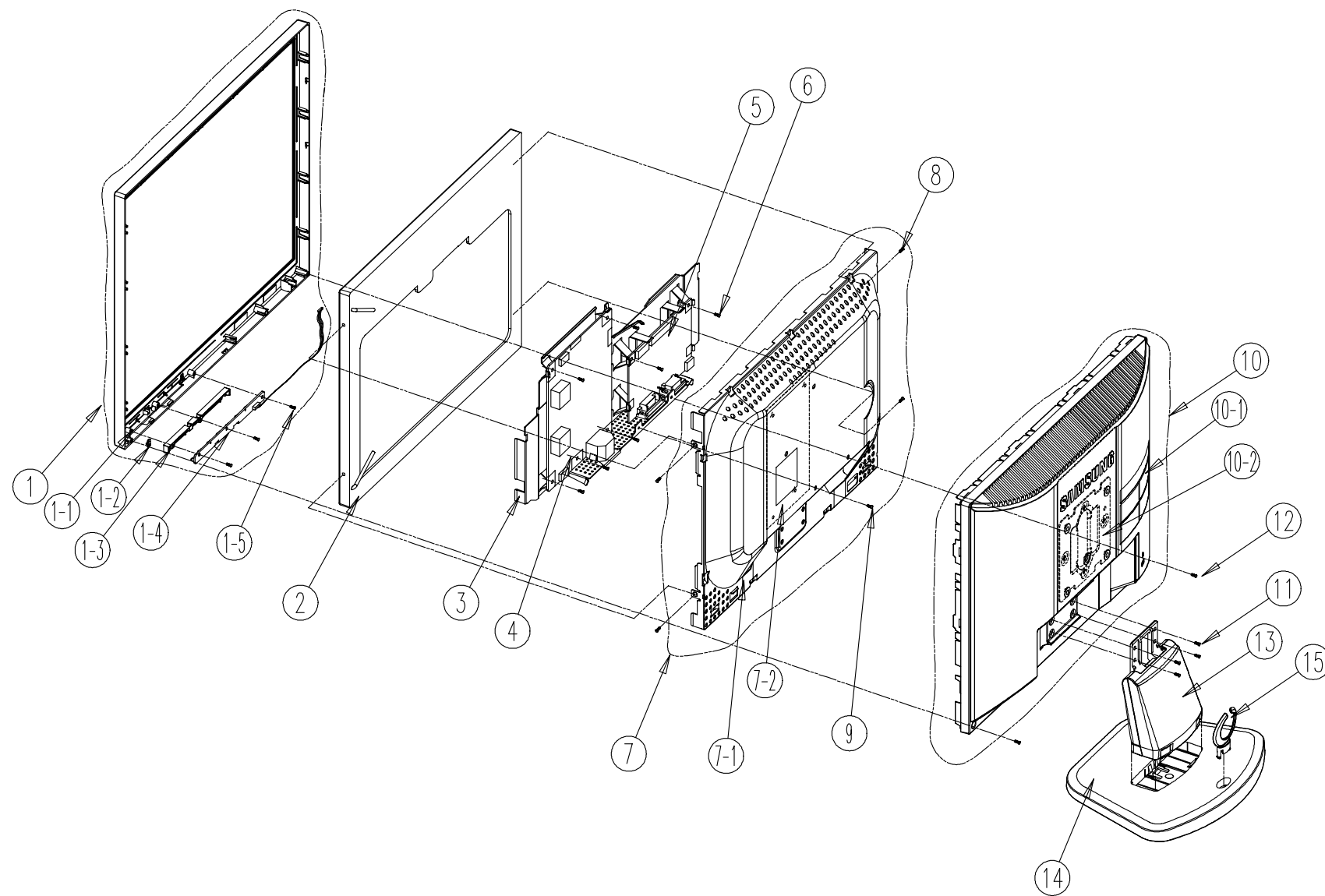
URL : <http://itself.sec.samsung.co.kr>

6-1 MJ15AS*



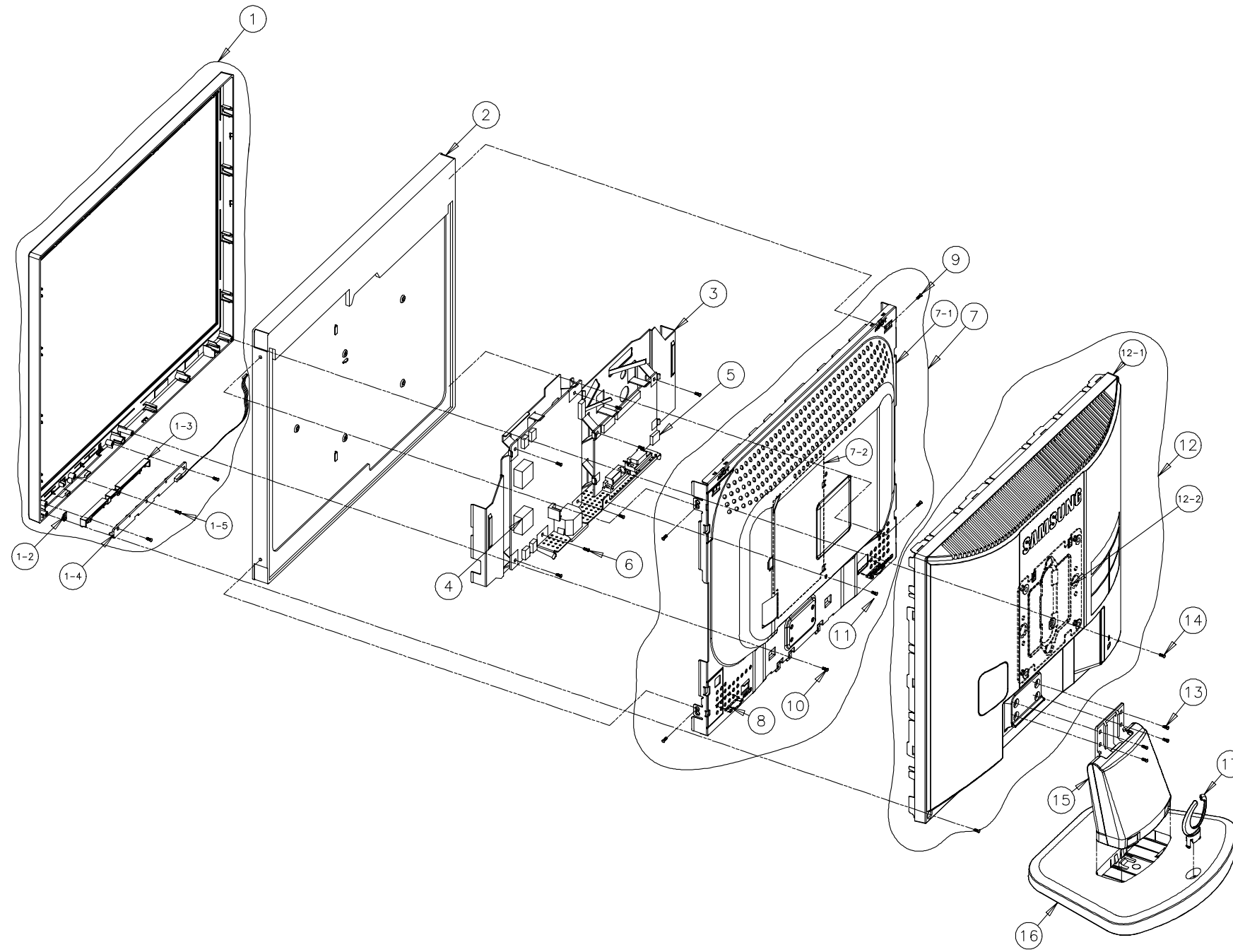
| No. | DESCRIPTION | CODE No. | SPECIFICATION | Q'ty | REMARK |
|------|--------------------|-------------|--------------------------------------|------|--------|
| 1 | ASSY, COVER-FRONT | BN96-01052B | ABS HB, CR70, SILVER | 1 | SA |
| 1-1 | COVER-FRONT | BN63-01206A | ABS HB CR70 SILVER | 1 | SNA |
| 1-2 | LENS-LED | BN67-00120A | ACRYL, CLEAR | 1 | SNA |
| 1-3 | KNOB-FUNCTION | BN64-00257A | ABS+PC, CR70 SILVER | 1 | SNA |
| 1-4 | FUNCTION-PCB | BN96-01111A | - | 1 | SNA |
| 1-5 | SCREW TAPTITE | 6003-000282 | BH, +, B, M3, L8, ZPC(BLK), SWRC | 3 | SA |
| 2 | PANEL | BN07-00164B | LTM150X0-L01 | 1 | SA |
| 3 | BRKT-PCB | BN61-01068A | SECC T1.0, ANALOG TYPE | 1 | SNA |
| 4 | IP-BOARD | BN44-00107B | - | 1 | SA |
| 5 | MAIN-BOARD | BN94-00527D | - | 1 | SA |
| 6 | SCREW TAPTITE | 6003-000117 | BH, +, B, M3, L6, ZPC(YEL), SWRC | 7 | SA |
| 7 | ASSY, SHIELD-COVER | BN96-01058A | - | 1 | SNA |
| 7-1 | SHIELD-COVER | BN63-01192A | SECC T1.0 | 1 | SNA |
| 7-2 | COVER-INSULATOR | BN63-01213A | PC SHEET V2, T0.35 | 1 | SNA |
| 8 | SCREW-MACHINE | 6001-000125 | BH, +, M3, L4, ZPC(YEL), SM20C, | 4 | SA |
| 9 | SCREW-TAPTITE | 6003-000117 | BH, +, B, M3, L6, ZPC(YEL), SWRC | 1 | SA |
| 10 | ASSY, COVER-REAR | BN96-01053B | ABS HB, BK07 | 1 | SA |
| 10-1 | COVER-REAR | BN63-01207B | ABS HB, BK07 | 1 | SNA |
| 10-2 | BRKT-VESA | BN61-00379A | GOYA 153S, SECC, T2.0 | 1 | SNA |
| 11 | SCREW-TAPTITE | 6003-000337 | BH, +, S, M4, L10, ZPC(BLK), SWRCH18 | 4 | SA |
| 12 | SCREW-TAPTITE | 6003-001086 | BH, +, B, M3, L12, ZPC(BLK), SWRCH18 | 2 | SA |
| 13 | ASSY, STAND | BN96-01063A | ABS HB, BK07 | 1 | SA |
| 14 | STAND-BASE | BN61-00824A | ABS HB, BK07 | 1 | SNA |
| 15 | STAND-HOLDER | BN61-00821A | ABS HB, BK07 | 1 | SNA |

6-2 MJ15BS*



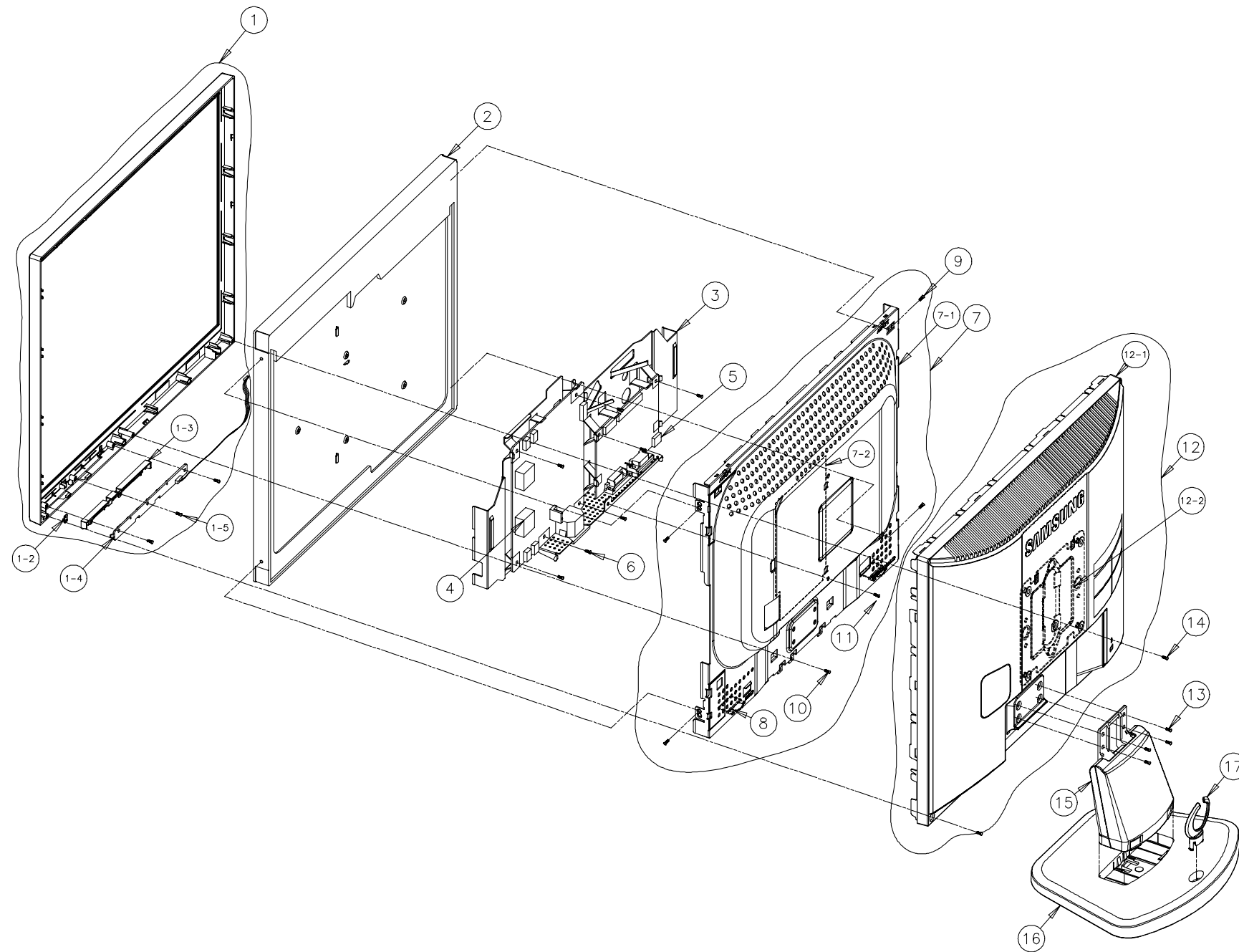
| No. | DESCRIPTION | CODE No. | SPECIFICATION | Q'ty | REMARK |
|------|--------------------|-------------|--------------------------------------|------|--------|
| 1 | ASSY, COVER-FRONT | BN96-01052A | ABS HB, GR70, SILVER | 1 | SA |
| 1-1 | COVER-FRONT | BN63-01206A | ABS HB GR70 SILVER | 1 | SNA |
| 1-2 | LENS-LED | BN67-00120A | ACRYL, CLEAR | 1 | SNA |
| 1-3 | KNOB-FUNCTION | BN64-00257A | ABS+PC, GR70 SILVER | 1 | SNA |
| 1-4 | FUNCTION-PCB | BN96-01111A | - | 1 | SNA |
| 1-5 | SCREW TAPTITE | 6003-000282 | BH, +, B, M3, L8, ZPC(BLK), SWRC | 3 | SA |
| 2 | PANEL | BN07-00164B | LTM150X0-L01 | 1 | SA |
| 3 | BRKT-PCB | BN61-01068B | SECC T1.0, DUAL TYPE | 1 | SNA |
| 4 | IP-BOARD | BN44-00107B | - | 1 | SA |
| 5 | MAIN-BOARD | BN94-00527D | - | 1 | SA |
| 6 | SCREW TAPTITE | 6003-000117 | BH, +, B, M3, L6, ZPC(YEL), SWRC | 7 | SA |
| 7 | ASSY, SHIELD-COVER | BN96-01058A | - | 1 | SNA |
| 7-1 | SHIELD-COVER | BN63-01192A | SECC T1.0 | 1 | SNA |
| 7-2 | COVER-INSULATOR | BN63-01213A | PC SHEET V2, T0.35 | 1 | SNA |
| 8 | SCREW-MACHINE | 6001-000125 | BH, +, M3, L4, ZPC(YEL), SM20C, | 4 | SA |
| 9 | SCREW-TAPTITE | 6003-000117 | BH, +, B, M3, L6, ZPC(YEL), SWRC | 1 | SA |
| 10 | ASSY, COVER-REAR | BN96-01053A | ABS HB, BK07 | 1 | SA |
| 10-1 | COVER-REAR | BN63-01207A | ABS HB, BK07 | 1 | SNA |
| 10-2 | BRKT-VESA | BN61-00379A | GOYA 153S, SECC, T2.0 | 1 | SNA |
| 11 | SCREW-TAPTITE | 6003-000337 | BH, +, S, M4, L10, ZPC(BLK), SWRCH18 | 4 | SA |
| 12 | SCREW-TAPTITE | 6003-001086 | BH, +, B, M3, L12, ZPC(BLK), SWRCH18 | 2 | SA |
| 13 | ASSY, STAND | BN96-01063A | ABS HB, BK07 | 1 | SA |
| 14 | STAND-BASE | BN61-00824A | ABS HB, BK07 | 1 | SNA |
| 15 | STAND-HOLDER | BN61-00821A | ABS HB, BK07 | 1 | SNA |

6-3 MJ17AS*



| No. | DESCRIPTION | CODE No. | SPECIFICATION | Q'ty | REMARK |
|------|--------------------|-------------|--|------|--------|
| 1 | ASSY, COVER-FRONT | BN96-01056B | ABS HB, SILVER | 1 | SA |
| 1-1 | COVER-FRONT | BN63-01208A | ABS HB GR70 SILVER | 1 | SNA |
| 1-2 | LENS-LED | BN67-00120A | ACRYL, CLEAR | 1 | SNA |
| 1-3 | KNOB-FUNCTION | BN64-00257A | ABS+PC, GR70 SILVER | 1 | SNA |
| 1-4 | FUNCTION-PCB | BN96-01111A | - | 1 | SNA |
| 1-5 | SCREW TAPTITE | 6003-000282 | BH, +, B, M3, L8, ZPC(BLK), SWRC | 3 | SA |
| 2 | PANEL | BN07-00160B | L107703-111, 0009, 0011, 001, 5-026, 5-117.5, 16, 30, 40, 0, 2, 28+0, 28, 0, 20, 5, 10 | 1 | SA |
| 3 | BRKT-PCB | BN61-01102A | SECC T1.0 | 1 | SNA |
| 4 | IP-BOARD | BN44-00113A | - | 1 | SA |
| 5 | MAIN-BOARD | BN94-00527C | - | 1 | SA |
| 6 | SCREW TAPTITE | 6003-000117 | BH, +, B, M3, L6, ZPC(YEL), SWRC | 7 | SA |
| 7 | ASSY, SHIELD-COVER | BN96-01059A | - | 1 | SNA |
| 7-1 | SHIELD-COVER | BN63-01211A | SECC T1.0 | 1 | SNA |
| 7-2 | COVER-INSULATOR | BN63-01313A | PC SHEET V2, T0.35, 106*144 | 1 | SNA |
| 8 | PANEL-SPACER | BN64-00258A | ABS, HB, BK07 | 2 | SNA |
| 9 | SCREW-MACHINE | 6001-000559 | FH, +, M3, L6, ZPC(YEL) | 4 | SA |
| 10 | SCREW-TAPTITE | 6003-000117 | BH, +, B, M3, L6, ZPC(YEL), SWRC | 1 | SA |
| 11 | SCREW-TAPTITE | 6003-000276 | BH, +, B, M3, L10, ZPC(YEL), SWRC | 1 | SA |
| 12 | ASSY, COVER-REAR | BN96-01054B | ABS HB, BK07 | 1 | SA |
| 12-1 | COVER-REAR | BN63-01216B | ABS HB, BK07 | 1 | SNA |
| 12-2 | BRKT-VESA | BN61-00377A | GY17LS, SECC, T1.0, 100*100 | 1 | SNA |
| 13 | SCREW-TAPTITE | 6003-000337 | BH, +, S, M4, L10, ZPC(BLK), SWRCH18 | 4 | SA |
| 14 | SCREW-TAPTITE | 6003-001086 | BH, +, B, M3, L12, ZPC(BLK), SWRCH18 | 2 | SA |
| 15 | ASSY, STAND | BN96-01063A | ABS HB, BK07 | 1 | SA |
| 16 | STAND-BASE | BN61-00824A | ABS HB, BK07 | 1 | SNA |
| 17 | STAND-HOLDER | BN61-00821A | ABS HB, BK07 | 1 | SNA |

6-4 MJ17BS*



| No. | DESCRIPTION | CODE No. | SPECIFICATION | Q'ty | REMARK |
|------|--------------------|-------------|---|------|--------|
| 1 | ASSY, COVER-FRONT | BN96-01056A | ABS HB, SILVER | 1 | SA |
| 1-1 | COVER-FRONT | BN63-01208A | ABS HB GR70 SILVER | 1 | SNA |
| 1-2 | LENS-LED | BN67-00120A | ACRYL, CLEAR | 1 | SNA |
| 1-3 | KNOB-FUNCTION | BN64-00257A | ABS+PC, GR70 SILVER | 1 | SNA |
| 1-4 | FUNCTION-PCB | BN96-01111A | - | 1 | SNA |
| 1-5 | SCREW TAPTITE | 6003-000282 | BH, +, B, M3, L8, ZPC(BLK), SWRC | 3 | SA |
| 2 | PANEL | BN07-00160B | L100*111, 0.001, 0.017, 1.58, 5.4*26, 5*11.5, 16, 20, 40, 0, 20*4, 24, 0*30, 31, 20 | 1 | SA |
| 3 | BRKT-PCB | BN61-01102B | SECC T1.0, DUAL TYPE | 1 | SNA |
| 4 | IP-BOARD | BN44-00113A | - | 1 | SA |
| 5 | MAIN-BOARD | BN94-00527C | - | 1 | SA |
| 6 | SCREW TAPTITE | 6003-000117 | BH, +, B, M3, L6, ZPC(YEL), SWRC | 7 | SA |
| 7 | ASSY, SHIELD-COVER | BN96-01059A | - | 1 | SNA |
| 7-1 | SHIELD-COVER | BN63-01211A | SECC T1.0 | 1 | SNA |
| 7-2 | COVER-INSULATOR | BN63-01313A | PC SHEET V2, T0.35, 106*144 | 1 | SNA |
| 8 | PANEL-SPACER | BN64-00258A | ABS, HB, BK07 | 2 | SNA |
| 9 | SCREW-MACHINE | 6001-000559 | FH, +, M3, L6, ZPC(YEL) | 4 | SA |
| 10 | SCREW-TAPTITE | 6003-000117 | BH, +, B, M3, L6, ZPC(YEL), SWRC | 1 | SA |
| 11 | SCREW-TAPTITE | 6003-000276 | BH, +, B, M3, L10, ZPC(YEL), SWRC | 1 | SA |
| 12 | ASSY, COVER-REAR | BN96-01054A | ABS HB, BK07 | 1 | SA |
| 12-1 | COVER-REAR | BN63-01216A | ABS HB, BK07 | 1 | SNA |
| 12-2 | BRKT-VESA | BN61-00377A | GY17LS, SECC, T1.0, 100*100 | 1 | SNA |
| 13 | SCREW-TAPTITE | 6003-000337 | BH, +, S, M4, L10, ZPC(BLK), SWRCH18 | 4 | SA |
| 14 | SCREW-TAPTITE | 6003-001086 | BH, +, B, M3, L12, ZPC(BLK), SWRCH18 | 2 | SA |
| 15 | ASSY, STAND | BN96-01063A | ABS HB, BK07 | 1 | SA |
| 16 | STAND-BASE | BN61-00824A | ABS HB, BK07 | 1 | SNA |
| 17 | STAND-HOLDER | BN61-00821A | ABS HB, BK07 | 1 | SNA |

7 Electrical Parts List

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

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

7-1-1 MJ15AS* Main PCB Parts

| Level | Loc. No. | Code No. | Description | Specification | Remarks |
|-------|-------------|-----------------|--------------------|--|---------|
| 0 | MJ15AS | | | | |
| 1 | E27-MJ15AS | - | 1 | SEC,LTM150X0-L01 | - |
| 3 | BN94-00527D | - | ASSY PCB MAIN | MJ15AS | SNA |
| 4 | 0204-002420 | CIS3 | SOLVENT | 1M-1000,C3H7OH,96,-,- | SNA |
| 4 | 0204-002426 | CIS4 | FLUX | DF-201TVS,MIX,0.820,FLUX13%,14KG,- | SNA |
| 4 | 3701-001219 | CN101 | CONNECTOR-DSUB | 15P,3R,FEMALE,ANGLE,AUF | SA |
| 4 | 3711-004712 | CN600 | CONNECTOR-HEADER | BOX,9P,1R,2mm,STRAIGHT,SN | SA |
| 4 | 6003-000117 | IP/PCB+BRKT/PCB | SCREW-TAPTITE | BH,+,B,M3,L6,ZPC(YEL),SWRCH18A | SNA |
| 4 | 6003-000117 | M/PCB+BRKT/PCB | SCREW-TAPTITE | BH,+,B,M3,L6,ZPC(YEL),SWRCH18A | SNA |
| 4 | BN97-00354K | MICOM | ASSY MICOM | GS17VS | SA |
| 5 | 0903-001347 | IC200 | IC-MICROCONTROLLER | NT68F63GL,88it,PLCC,44P,653MIL,12MHz,ST,-,PLASTIC,5.000000V,-,0to+70C,256B,-,- | SNA |
| 5 | BN82-00114L | CIS | A/S MICOM | GS17VS | SNA |
| 4 | BN97-00358T | - | ASSY SMD | MJ15AS | SNA |
| 5 | 3301-000314 | BD100 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm | SNA |
| 5 | 3301-000314 | BD101 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm | SNA |
| 5 | 3301-000314 | BD102 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm | SNA |
| 5 | 3301-000314 | BD103 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm | SNA |
| 5 | 3301-000314 | BD104 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm | SNA |
| 5 | 3301-000314 | BD105 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm | SNA |
| 5 | 2703-001334 | BD106 | INDUCTOR-SMD | 1.5uH,10%,2012 | SA |
| 5 | 3301-000314 | BD200 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm | SNA |
| 5 | 3301-000314 | BD201 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,,40000ohm | SNA |
| 5 | 2203-005005 | C100 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C101 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C102 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C103 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C104 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C105 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-000257 | C106 | C-CER,CHIP | 10nF,10%,50V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C110 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C112 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C114 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-000236 | C116 | C-CER,CHIP | 0.1nF,5%,50V,COG,TP,1608 | SA |
| 5 | 2203-000998 | C117 | C-CER,CHIP | 0.047nF,5%,50V,COG,TP,1608 | SA |
| 5 | 2203-005005 | C200 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005437 | C201 | C-CER,CHIP | 1000nF,+80-20%,10V,Y5V,TP,3216 | SA |
| 5 | 2203-005005 | C203 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005437 | C205 | C-CER,CHIP | 1000nF,+80-20%,10V,Y5V,TP,3216 | SA |
| 5 | 2203-005065 | C206 | C-CER,CHIP | 1000nF,+80-20%,10V,Y5V,-,1608 | SA |
| 5 | 2203-000257 | C221 | C-CER,CHIP | 10nF,10%,50V,X7R,TP,1608 | SA |
| 5 | 2203-000257 | C222 | C-CER,CHIP | 10nF,10%,50V,X7R,TP,1608 | SA |
| 5 | 2203-000189 | C224 | C-CER,CHIP | 100nF,+80-20%,25V,Y5V,TP,1608, | SA |
| 5 | 2203-005005 | C400 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2402-001042 | C401 | C-AL,SMD | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA |
| 5 | 2203-005005 | C402 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C403 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C404 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C405 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C406 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C407 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C408 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C409 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C410 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C411 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C412 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C413 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C414 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C415 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-000426 | C416 | C-CER,CHIP | 0.018nF,5%,50V,COG,TP,1608 | SA |
| 5 | 2203-000257 | C417 | C-CER,CHIP | 10nF,10%,50V,X7R,TP,1608 | SA |
| 5 | 2203-000426 | C418 | C-CER,CHIP | 0.018nF,5%,50V,COG,TP,1608 | SA |
| 5 | 2203-005005 | C419 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C420 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C421 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2402-000108 | C422 | C-AL,SMD | 10uF,20%,16V,WT,TP,4.3x4.3x5.4 | SA |

| Level | Loc. No. | CodeNo. | Description | Specification | Remarks |
|-------|-------------|---------|---------------------------|--|---------|
| 5 | 2203-005005 | C423 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C424 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C603 | C-CER,CHIP | 1000nF,+80-20%,10V,Y5V,-,1608 | SA |
| 5 | 2203-005005 | C604 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C605 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C606 | C-CER,CHIP | 1000nF,+80-20%,10V,Y5V,-,1608 | SA |
| 5 | 2402-001042 | C607 | C-AL,SMD | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA |
| 5 | 2203-005005 | C608 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2402-001042 | C609 | C-AL,SMD | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA |
| 5 | 2203-005005 | C610 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2402-001042 | C611 | C-AL,SMD | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA |
| 5 | 2402-001042 | C612 | C-AL,SMD | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA |
| 5 | 3711-005543 | CN200 | CONNECTOR-HEADER | BOX,6P,1R,1.25mm,SMD-A,SnPb,IVR | SA |
| 5 | 3711-005470 | CN400 | CONNECTOR-HEADER | BOX,30P,1R,1.25mm,SMD-A,Sn+Pb,IVR | SA |
| 5 | 0403-001411 | D100 | DIODE-ZENER | -,5.49-5.73V,200MW,SOD-323,TP | SA |
| 5 | 0401-001056 | D101 | DIODE-SWITCHING | MIMD4148SE,100V,200MA,SOT-23,TP | SA |
| 5 | 0401-001056 | D103 | DIODE-SWITCHING | MIMD4148SE,100V,200MA,SOT-23,TP | SA |
| 5 | 0401-001056 | D105 | DIODE-SWITCHING | MIMD4148SE,100V,200MA,SOT-23,TP | SA |
| 5 | 0402-001080 | D600 | DIODE-RECTIFIER | GF1G,400V,1A,DO,TP | SA |
| 5 | 0406-001061 | IC106 | DIODE-TVS | MMQA5V6T3,5.32/5.6/5.88V,24W,S | SA |
| 5 | 1103-001023 | IC201 | IC-EEPROM | 24C08,1Kx8,SOP,8P,5x4mm,2.5/5.5V,Oto+70C | SA |
| 5 | 1003-001674 | IC400 | IC-LCD CONTROLLER | SE7889,PQFP,100P,23.45x17.45mm,-,TR,PLASTIC,0.3-3.6V,Oto+70C,-,-,- | SNA |
| 5 | 0505-001772 | IC600 | FET-SILICON | FDS9933A,P,-20V,-3.8A,0.075OHM,2W,SO-8 | SA |
| 5 | 1203-003209 | IC601 | IC-DUAL VOLTAGE REGULATOR | APL5522,SOP,8P,4.9x3.9mm,PLASTIC,3.3V/2.5V,-,Oto+150C,500mA/300mA,-,TP | SA |
| 5 | 1203-001293 | IC602 | IC-POSI.FIXED REG. | 033,TO-252,3P,6.5MIL,PLASTIC,3 | SA |
| 5 | BN41-00412A | MP1.0 | PCB MAIN | MJ/GS,SILVER THROUGH HOLE,2L,1.0,1.6T,118*78.2,4A | SNA |
| 5 | 0501-002080 | Q601 | TR-SMALL SIGNAL | 2SC2412K,NPN,200mW,SC-59,TP,120-270 | SA |
| 5 | 2007-000821 | R106 | R-CHIP | 390ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2007-001164 | R107 | R-CHIP | 75ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2007-001164 | R108 | R-CHIP | 75ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2007-001164 | R109 | R-CHIP | 75ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2007-001164 | R118 | R-CHIP | 75ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2703-001334 | R119 | INDUCTOR-SMD | 1.5uH,10%,2012 | SA |
| 5 | 2007-001164 | R120 | R-CHIP | 75ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2703-001334 | R121 | INDUCTOR-SMD | 1.5uH,10%,2012 | SA |
| 5 | 2007-000084 | R122 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R123 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000078 | R124 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000113 | R134 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000113 | R135 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000113 | R136 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000113 | R137 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000113 | R138 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000113 | R139 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000070 | R200 | R-CHIP | 0ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R202 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R203 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R204 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R205 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R206 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R207 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R208 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R209 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R210 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R211 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R212 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R214 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R216 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R217 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R219 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000077 | R221 | R-CHIP | 470ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000080 | R222 | R-CHIP | 2Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R223 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R224 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R225 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R226 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000070 | R227 | R-CHIP | 0ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R228 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R229 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R230 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R231 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R232 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000083 | R233 | R-CHIP | 3Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R234 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R235 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R236 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |

| Level | Loc. No. | Code No. | Description | Specification | Remarks |
|-------|-------------|----------|-----------------------|--|---------|
| 5 | 2007-000074 | R237 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R238 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R239 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R240 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000078 | R241 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R242 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000077 | R243 | R-CHIP | 470ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R244 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R247 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R400 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R401 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000078 | R402 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000821 | R403 | R-CHIP | 390ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2007-000070 | R502 | R-CHIP | 0ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000070 | R503 | R-CHIP | 0ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R600 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R602 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R603 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R604 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2801-003773 | X400 | CRYSTAL-SMD | 12MHZ,30PPM,28-AAN,20PF,500HM,TP | SA |
| 5 | 0403-001411 | ZD100 | DIODE-ZENER | -5.49-5.73V,200MW,SOD-323,TP | SA |
| 5 | 0403-001411 | ZD101 | DIODE-ZENER | -5.49-5.73V,200MW,SOD-323,TP | SA |
| 5 | 0403-001411 | ZD102 | DIODE-ZENER | -5.49-5.73V,200MW,SOD-323,TP | SA |
| 5 | 0403-001411 | ZD103 | DIODE-ZENER | -5.49-5.73V,200MW,SOD-323,TP | SA |
| 5 | 0403-001411 | ZD104 | DIODE-ZENER | -5.49-5.73V,200MW,SOD-323,TP | SA |
| 5 | 0403-001411 | ZD200 | DIODE-ZENER | -5.49-5.73V,200MW,SOD-323,TP | SA |
| 2 | BN90-00486D | - | ASSY STAND | MJ17BS/GS17VT/GS17MS,EDC | SNA |
| 3 | BN96-01063A | STD | ASSY STAND P-SIMPLE | MJ15/17ASBS,ABS HB,BK07 | SNA |
| 4 | 6003-000269 | STD | SCREW-TAPTITE | BH,+S,M3,L6,ZPC(YEL),SWRCH18A | SNA |
| 4 | 6003-001086 | STD | SCREW-TAPTITE | BH,+B,M3,L12,ZPC(BLK),SWRCH18A | SNA |
| 4 | BN61-00822A | STD | STAND-BRKT HINGE | GS17VS,SECC,T1.2 | SNA |
| 4 | BN61-00825A | STD | STAND-FRONT | GS17VS,ABS HB,BK07 | SNA |
| 4 | BN61-00826A | STD | STAND-REAR | GS17VS,ABS HB,BK07 | SNA |
| 4 | BN96-01061A | STD | ASSY MISC P-HINGE | MJ15-17AS/BS,ZNDC2 | SNA |
| 2 | BN90-00640L | - | ASSY COVER FRONT | MJ15AS | SNA |
| 3 | 6003-001086 | C/F+C/R | SCREW-TAPTITE | BH,+B,M3,L12,ZPC(BLK),SWRCH18A | SNA |
| 3 | BN96-01052B | C/F | ASSY COVER P-FRONT | MJ15*S,ABS HB,GR70,SILVER SPRAY | SNA |
| 4 | 6003-000282 | C/F | SCREW-TAPTITE | BH,+B,M3,L8,ZPC(BLK),SWCH10 | SNA |
| 4 | BN63-01206A | C/F | COVER-FRONT | MJ15*S,ABS HB,GR70,SILVER | SNA |
| 4 | BN64-00257A | C/F | KNOB-FUNCTION | MJ17AS/BS,ABS+PC,HB,GR70 | SNA |
| 4 | BN67-00120A | C/F | LENS-LED | MATISSE,ACRYL,CLEAR | SA |
| 4 | BN96-01111A | C/F | ASSY BOARD P-FUNCTION | MATISSE,FUNCTION | SNA |
| 2 | BN90-00641E | - | ASSY COVER REAR | MJ15AS | SNA |
| 3 | 6003-000337 | C/R+STD | SCREW-TAPTITE | BH,+S,M4,L10,ZPC(BLK),SWRCH18 | SNA |
| 3 | BN96-01053B | C/R | ASSY COVER P-REAR | MJ15*S,ABS HB,BK07 | SNA |
| 4 | BN61-00379A | C/R | BRACKET-STAND VESA | GOYA153S,SECC,T2.0,,, | SNA |
| 4 | BN63-01207B | C/R | COVER-REAR | MJ15AS,ABS HB,BK07,NONE,1.5 | - |
| 2 | BN91-00403W | - | ASSY LCD-E27 | MJ15BS | SNA |
| 3 | BN07-00164A | LCD | LCD-PANEL | LTM150X0-L01,Matisse,6 BIT,326.5*253.5*12,16.2M,40,0.297*0.297,0-50,3.3V,TN | SNA |
| 2 | BN91-00784U | - | ASSY CHASSIS | GY17HS | SA |
| 3 | BN44-00107B | CIS | IP BOARD | DAC-12M001B,MT15,4.5mA,8.0mA,48KHZ,2,30V/264VAC,+13V/+5V,0 to +40,-20 to +60,50/ | SNA |
| 3 | BN61-01068A | CIS | BRACKET-PCB | MJ15AS,SECC,T1.0 | SNA |

7-1-2 MJ15AS* Others

| Level | Loc. No. | Code No. | Description | Specification | Remarks |
|-------|-------------|-----------------|--------------------------|--|---------|
| 2 | BN91-00785H | - | ASSY SHIELD | MJ15BS/GS15MS/MJ15AS | SNA |
| 3 | 0203-001598 | CIS | TAPE-FILAMENT | #8915,0.15,12,55000,CLR | SNA |
| 3 | 6001-000125 | SH/COV+PAN | SCREW-MACHINE | BH,+M3,L4,ZPC(YEL),SM20C,- | SNA |
| 3 | 6003-000117 | SH/COV+BRKT/PCB | SCREW-TAPTITE | BH,+B,M3,L6,ZPC(YEL),SWRCH18A | SNA |
| 3 | BN39-00244A | CIS | CBF SIGNAL | BU15A0(I541A),15P/15P,20276-N,1830MM,UL20276,BLACK,D-SUB/MALE,DET. TYPE | SA |
| 3 | BN39-00507A | CIS | LEAD CONNECTOR | MJ15*S,UL1571#30,20P/30P,90mm,#30,12507HS-20,12507HS-30L,BK,SJ03-01-636,AT TAPE | SNA |
| 3 | BN39-00523B | CIS | LEAD CONNECTOR | GS(MJ15*,UL1061#28,UL/CSA,6P/5P,250mm,#28,12507HS-06L,12505HS-05,BK,HP04-01-006 | SNA |
| 3 | BN96-01058A | CIS | ASSY MISC P-SHIELD COVER | MJ15AS/BS,SECC TO.8 | SNA |
| 2 | BN92-00709A | - | ASSY LABEL | GY17VS,,,, | SNA |
| 3 | BN68-00614A | LABEL | LABEL RATING-00 | ALL,SS,PE,TO.05,90*45,BLK,POLYESTER,NO SILK | SNA |
| 2 | BN92-00809Q | - | ASSY ACCESSORY | MJ17ASSS/EDC,EDC,NETHERLANDS | - |
| 3 | BN96-01108A | ACCESSORY | ASSY STAND P-BASE | MJ17AS/BS,ABS HB,BK07 | SNA |
| 4 | 6003-001185 | STAND/BASE | SCREW-TAPTITE | FH,+B,M3,L8,NI PLT,SWRCH18A | SNA |
| 4 | 6009-001442 | STAND/BASE | SCREW-SPECIAL | CH,-,M4,L10(5),ZPC(YEL),SWRCH18A,-,HD12,2,BODY | SA |
| 4 | 6902-000110 | STAND/BASE | BAG PE | LDPE,TO.05,L356,W240,TRP,28,2,PE MARK | SNA |
| 4 | 6902-000336 | STAND/BASE | BAG ZIPPER | LDPE,TO.05,L80,W70,TRP,,PE MARK | SNA |
| 4 | BH68-20366B | STAND/BASE | LABEL-00,STANDE BASE | MJ15,17,ART PAPER,55X10,RED | SNA |
| 4 | BN61-00048A | STAND/BASE | FOOT-RUBBER | GH15LS,PORON,DIA13.5MM,BLACK,2MM,-,- | SNA |
| 4 | BN61-00821A | STAND/BASE | STAND-HOLDER | GS17VS,ABS HB,BK07 | SNA |
| 4 | BN61-00824A | STAND/BASE | STAND-BASE | GS17VS,ABS HB,BK07 | SNA |
| 4 | BN61-01167A | STAND/BASE | BRACKET-BASE/SUPPORT | MJ17AS/BS,SECC,T1.2 | SNA |
| 4 | BN68-00473P | STAND/BASE | MANUAL INSTALL | Goya2 Stand Guide,SyncMaster,W/W | SNA |
| 3 | BN96-01154V | UNIT/ACCESSORY | ASSY ACCESSORY | MJ15/17/19AS,BS,EDC,NETHERLANDS | SA |
| 4 | 0203-000214 | ACCESSORY | TAPE-OPP MASKING | OPP/W50/CLR,TO.05,W50,L400000, | SNA |
| 4 | 3903-000042 | ACCESSORY | CBF-POWER CORD | DT,EU,FP3/YES,IEC320 C13/C14,250/250V,10-16/10A,BLK,1830MM,-,H05VV-F 3X0.75MM^2, | SA |
| 4 | 6902-000110 | ACCESSORY | BAG PE | LDPE,TO.05,L356,W240,TRP,28,2,PE MARK | SNA |
| 4 | BH68-70438A | ACCESSORY | CARD-BLOC WARRANTY-09 | TFT LCD,BASIC,EU,MOJO,100G,W21 | SNA |
| 4 | BH68-70448A | ACCESSORY | CARD-01 | TFT LCD,SRC,RUSSIA,S/W,120,W210*120,INSTALL CARD | SNA |
| 4 | BN96-01171A | ACCESSORY | ASSY MANUAL P-IB+QSG | 710N,SyncMaster,W/W,27Lang,BN59-420A+BH68-376L | SNA |
| 5 | BH68-00376L | CIS | MANUAL-01 | LCDOUICK SETUP GUIDE,SYNCMASTER,E/F/S/G/P/L.13LANGS,W/W,MOJO100G,298,420 | SA |
| 5 | BN59-00420A | CIS | S/W DRIVER-00,IB | 710T,W/W,SyncMaster,27 Lang | SNA |
| 2 | BN92-00982J | - | ASSY P/MATERIAL | MJ15BS/AS,EDC | SNA |
| 3 | 0203-001100 | P/M | TAPE-OPP MASKING | OPP/W75/CLR,TO.05,W75,L800000,CLR | SNA |
| 3 | 6902-000379 | P/M | BAG AIR | HDPE,TO.2,L1800,W1000,TRP,,PAPER | SNA |
| 3 | 6902-000520 | P/M | BAG PE | HDPE/NITRON(DOUBLE),TO.015/TO.5(DOUBLE),W700,L700,TRP,28 LANGUAGE,2- | SNA |
| 3 | 6902-000604 | P/M | BAG WRAPPING | LDPE,TO.02,W500,L10000,TRP,-,- | SNA |
| 3 | 6902-000609 | P/M | BAG ROLL | LDPE,TO.05,W2400,L1000,TRP,-,- | SNA |
| 3 | BH69-00457B | P/M | PACKING-PAD BOTTOM | GH15,FOAM,T3.0,930,1000 | SNA |
| 3 | BH69-40321A | P/M | PACKING-PAD | SW-4,W2155*L140,-DEC,-,-,-,- | SNA |
| 3 | BN68-00129A | P/M | LABEL SHIPPING | - LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,- | SNA |
| 3 | BN69-00140R | P/M | PAD-PALLET COVER | IBM(T85),SW,1000*3500,1166,-,-,-,-,- | SNA |
| 3 | BN69-00140W | P/M | PAD PACKING | VR22KO,CB SW-4,700,3800,YEL | SNA |
| 3 | BN69-00617J | P/M | PALLET-PACKING | TS15AS,WOODEN,1150,780,120 | SNA |
| 3 | BN69-00739A | P/M | CUSHION | MJ15AS,EPS M50 | SNA |
| 2 | BN92-01043C | - | ASSY BOX | MJ15BS/AS,EDC | SNA |
| 3 | BH68-00329C | BOX | LABEL BAR CODE-02 | ALL,TC099,DOMESTIC,MOJO 90G,WHT | SNA |
| 3 | BN69-00760A | BOX | BOX-01 | S/M510N(MJ15AS),W/W,SW4,YEL,A-1,W376*D371*H101,SIMPLE | SNA |
| 1 | E28-MJ15AS | - | 2 | SEC,LTM150X0-L01(ZPD) | - |

7-2-1 MJ17AS* Main PCB Parts

| Level | Loc. No. | Code No. | Description | Specification | Remarks |
|-------|--------------|----------|----------------|------------------------------------|---------|
| 0 | MJ17ASAB | - | 1 | SEC,LTM170EU-L11 | - |
| 1 | E23-MJ17ASAB | - | | | |
| 3 | BN94-00527C | - | ASSY PCB MAIN | MJ17AS | SNA |
| 4 | 0204-002420 | CIS3 | SOLVENT | 1M-1000,C3H7OH,96,-,- | SNA |
| 4 | 0204-002426 | CIS4 | FLUX | DF-201TVS,MIX,0.820,FLUX13%,14KG,- | SNA |
| 4 | 3701-001219 | CN101 | CONNECTOR-DSUB | 15P,3R,FEMALE,ANGLE,AUF | SA |

| Level | Loc. No. | Code No. | Description | Specification | Remarks |
|-------|-------------|-----------------|--------------------|---|---------|
| 4 | 3711-004712 | CN600 | CONNECTOR-HEADER | BOX,9P,1R,2mm,STRAIGHT,SN | SA |
| 4 | 6003-000117 | IP/PCB+BRKT/PCB | SCREW-TAPTITE | BH,+B,M3,L6,ZPC(YEL),SWRCH18A | SNA |
| 4 | 6003-000117 | M/PCB+BRKT/PCB | SCREW-TAPTITE | BH,+B,M3,L6,ZPC(YEL),SWRCH18A | SNA |
| 4 | BN97-00354K | MICOM | ASSY MICOM | GS17VS | SA |
| 5 | 0903-001347 | IC200 | IC-MICROCONTROLLER | NT68F63GL,8Bit,PLCC,44P,653MIL,12MHz,ST,-,PLASTIC,5.000000V,-,0to+70C,256B,-, | SNA |
| 5 | BN82-00114L | CIS | A/S MICOM | GS17VS | SNA |
| 4 | BN97-00358S | - | ASSY SMD | MJ17AS | SNA |
| 5 | 3301-000314 | BD100 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,,4000ohm | SNA |
| 5 | 3301-000314 | BD101 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,,4000ohm | SNA |
| 5 | 3301-000314 | BD102 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,,4000ohm | SNA |
| 5 | 3301-000314 | BD103 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,,4000ohm | SNA |
| 5 | 3301-000314 | BD104 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,,4000ohm | SNA |
| 5 | 3301-000314 | BD105 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,,4000ohm | SNA |
| 5 | 2703-001334 | BD106 | INDUCTOR-SMD | 1.5uH,10%,2012 | SA |
| 5 | 3301-000314 | BD200 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,,4000ohm | SNA |
| 5 | 3301-000314 | BD201 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,,4000ohm | SNA |
| 5 | 2203-005005 | C100 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C101 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C102 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C103 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C104 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C105 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-000257 | C106 | C-CER,CHIP | 10nF,10%,50V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C110 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C112 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C114 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-000236 | C116 | C-CER,CHIP | 0.1nF,5%,50V,COG,TP,1608 | SA |
| 5 | 2203-000998 | C117 | C-CER,CHIP | 0.047nF,5%,50V,COG,TP,1608 | SA |
| 5 | 2203-005005 | C200 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005437 | C201 | C-CER,CHIP | 10000nF,+80-20%,10V,Y5V,TP,3216 | SA |
| 5 | 2203-005005 | C203 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005437 | C205 | C-CER,CHIP | 10000nF,+80-20%,10V,Y5V,TP,3216 | SA |
| 5 | 2203-005065 | C206 | C-CER,CHIP | 1000nF,+80-20%,10V,Y5V,-,1608 | SA |
| 5 | 2203-000257 | C221 | C-CER,CHIP | 10nF,10%,50V,X7R,TP,1608 | SA |
| 5 | 2203-000257 | C222 | C-CER,CHIP | 10nF,10%,50V,X7R,TP,1608 | SA |
| 5 | 2203-000189 | C224 | C-CER,CHIP | 100nF,+80-20%,25V,Y5V,TP,1608, | SA |
| 5 | 2203-005005 | C400 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2402-001042 | C401 | C-AL,SMD | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA |
| 5 | 2203-005005 | C402 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C403 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C404 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C405 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C406 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C407 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C408 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C409 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C410 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C411 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C412 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C413 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C414 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C415 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-000426 | C416 | C-CER,CHIP | 0.018nF,5%,50V,COG,TP,1608 | SA |
| 5 | 2203-000257 | C417 | C-CER,CHIP | 10nF,10%,50V,X7R,TP,1608 | SA |
| 5 | 2203-000426 | C418 | C-CER,CHIP | 0.018nF,5%,50V,COG,TP,1608 | SA |
| 5 | 2203-005005 | C419 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C420 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C421 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2402-00108 | C422 | C-AL,SMD | 10uF,20%,16V,WT,TP,4.3x4.3x5.4 | SA |
| 5 | 2203-005005 | C423 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C424 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005065 | C603 | C-CER,CHIP | 1000nF,+80-20%,10V,Y5V,-,1608 | SA |
| 5 | 2203-005005 | C604 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C605 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005065 | C606 | C-CER,CHIP | 1000nF,+80-20%,10V,Y5V,-,1608 | SA |
| 5 | 2402-001042 | C607 | C-AL,SMD | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA |
| 5 | 2203-005005 | C608 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2402-001042 | C609 | C-AL,SMD | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA |
| 5 | 2203-005005 | C610 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2402-001042 | C611 | C-AL,SMD | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA |
| 5 | 2402-001042 | C612 | C-AL,SMD | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA |
| 5 | 3711-005543 | CN200 | CONNECTOR-HEADER | BOX,6P,1R,1.25mm,SMD-A,SnPb,IVR | SA |
| 5 | 3711-005470 | CN400 | CONNECTOR-HEADER | BOX,30P,1R,1.25mm,SMD-A,Sn+Pb,IVR | SA |
| 5 | 0403-001411 | D100 | DIODE-ZENER | -5.49-5.73V,200MW,SOD-323,TP | SA |

| Level | Loc. No. | Code No. | Description | Specification | Remarks |
|-------|-------------|----------|---------------------------|--|---------|
| 5 | 0401-001056 | D101 | DIODE-SWITCHING | MMBD4148SE,100V,200MA,SOT-23,TP | SA |
| 5 | 0401-001056 | D103 | DIODE-SWITCHING | MMBD4148SE,100V,200MA,SOT-23,TP | SA |
| 5 | 0401-001056 | D105 | DIODE-SWITCHING | MMBD4148SE,100V,200MA,SOT-23,TP | SA |
| 5 | 0402-001080 | D600 | DIODE-RECTIFIER | GF1G,400V,1A,DO,TP | SA |
| 5 | 3301-001145 | FT600 | BEAD-SMD | 60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm | SNA |
| 5 | 0406-001061 | IC106 | DIODE-TVS | MMQA5V6T3,5.32/5.6/5.88V,24W,S | SA |
| 5 | 1103-001023 | IC201 | IC-EEPROM | 24C08,1Kx8,SOP,8P,5x4mm,2.5/5.5V,0to+70C | SA |
| 5 | 1003-001674 | IC400 | IC-LCD CONTROLLER | SE7889,PQFP,100P,23.45x17.45mm,-,TR,PLASTIC,0.3-3.6V,0to+70C,-,- | SNA |
| 5 | 0505-001772 | IC600 | FET-SILICON | FDS9933A,P,-20V,-3.8A,0.075OHM,2W,SO-8 | SA |
| 5 | 1203-003209 | IC601 | IC-DUAL VOLTAGE REGULATOR | APL5522,SOP,8P,4.9x3.9mm,PLASTIC,3.3V/2.5V,-,0to+150C,500mA/300mA,-,TP | SA |
| 5 | BN41-00412A | MP1.0 | PCB MAIN | MJ/GS,SILVER THROUGH HOLE,2L,1.0,1.6T,118*78.2,4A | SNA |
| 5 | 0501-002080 | Q601 | TR-SMALL SIGNAL | 2SC2412K,NPN,200mW,SC-59,TP,120-270 | SA |
| 5 | 2007-000821 | R106 | R-CHIP | 390ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2007-001164 | R107 | R-CHIP | 75ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2007-001164 | R108 | R-CHIP | 75ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2007-001164 | R109 | R-CHIP | 75ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2007-001164 | R118 | R-CHIP | 75ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2703-001334 | R119 | INDUCTOR-SMD | 1.5uH,10%,2012 | SA |
| 5 | 2007-001164 | R120 | R-CHIP | 75ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2703-001334 | R121 | INDUCTOR-SMD | 1.5uH,10%,2012 | SA |
| 5 | 2007-000084 | R122 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R123 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000078 | R124 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000113 | R134 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000113 | R135 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000113 | R136 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000113 | R137 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000113 | R138 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000113 | R139 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000070 | R200 | R-CHIP | 0ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R202 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R203 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R204 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R205 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R206 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R207 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R208 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R209 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R210 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R211 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R212 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R214 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R216 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R217 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R219 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000077 | R221 | R-CHIP | 470ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000080 | R222 | R-CHIP | 2Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R223 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R224 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R225 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R226 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000070 | R227 | R-CHIP | 0ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R228 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R229 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R230 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R231 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R232 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000083 | R233 | R-CHIP | 3Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R234 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R235 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R236 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R237 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R238 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R239 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R240 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000078 | R241 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R242 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000077 | R243 | R-CHIP | 470ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R244 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R247 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R400 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R401 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000078 | R402 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000821 | R403 | R-CHIP | 390ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2007-000070 | R502 | R-CHIP | 0ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000070 | R503 | R-CHIP | 0ohm,5%,1/10W,TP,1608 | SA |

| Level | Loc. No. | Code No. | Description | Specification | Remarks |
|-------|-------------|----------|-------------|---------------------------------|---------|
| 5 | 2007-00090 | R600 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-00090 | R602 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-00074 | R603 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-00090 | R604 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2801-003773 | X400 | CRYSTAL-SMD | 12MHZ,30PPM,28-AA,20PF,500HM,TP | SA |
| 5 | 0403-001411 | ZD100 | DIODE-ZENER | -.5,49-5.73V,200MW,SOD-323,TP | SA |
| 5 | 0403-001411 | ZD101 | DIODE-ZENER | -.5,49-5.73V,200MW,SOD-323,TP | SA |
| 5 | 0403-001411 | ZD102 | DIODE-ZENER | -.5,49-5.73V,200MW,SOD-323,TP | SA |
| 5 | 0403-001411 | ZD103 | DIODE-ZENER | -.5,49-5.73V,200MW,SOD-323,TP | SA |
| 5 | 0403-001411 | ZD104 | DIODE-ZENER | -.5,49-5.73V,200MW,SOD-323,TP | SA |
| 5 | 0403-001411 | ZD200 | DIODE-ZENER | -.5,49-5.73V,200MW,SOD-323,TP | SA |

7-2-2 MJ17AS* Others

| Level | Loc. No. | Code No. | Description | Specification | Remarks |
|-------|-------------|-----------------|--------------------------|---|---------|
| 2 | BN90-00329T | - | ASSY STAND | MJ17ASAB/* ,BK07,PIVOT | SNA |
| 3 | BN96-01193B | STD | ASSY STAND P-PIVOT | Matisse17/19,ABS HB,BK07 | SNA |
| 2 | BN90-00641C | - | ASSY COVER REAR | MJ17AS | SNA |
| 3 | 6003-000337 | C/R+STD | SCREW-TAPTITE | BH,+ ,S,M4,L10,ZPC(BLK),SWRCH18 | SNA |
| 3 | BN96-01054B | C/R | ASSY COVER P-REAR | MJ17AS,ABS HB,BK07 | SNA |
| 4 | BN61-00377A | C/R | BRACKET-VESA | GOYA19(193V),SECC,T1.0 | SNA |
| 4 | BN63-01209B | C/R | COVER-REAR | MJ17AS,ABS HB,BK07,NONE1.5 | - |
| 2 | BN90-00642V | - | ASSY COVER FRONT | MJ17ASAB,ADC,BK07,S/M711N | SNA |
| 3 | 6003-001086 | C/F+C/R | SCREW-TAPTITE | BH,+ ,B,M3,L12,ZPC(BLK),SWRCH18A | SNA |
| 3 | BN96-01056G | C/F | ASSY COVER P-FRONT | MJ17AS (S/M 711N),ABS HB,BK07 | SNA |
| 4 | BN61-01243A | C/F | HOLDER-PCB | MJ17,ABS HB,BK07 | SNA |
| 4 | BN63-01208B | C/F | COVER-FRONT | MJ17AS,ABS HB,BK07 | - |
| 4 | BN64-00288C | C/F | KNOB-FUNCTION | MJ15/17/19,ABS,PC,BK07 | SNA |
| 4 | BN67-00120A | C/F | LENS-LED | MATISSE,ACRYL,CLEAR | SA |
| 4 | BN96-01111A | C/F | ASSY BOARD P-FUNCTION | MATISSE,FUNCTION | SNA |
| 2 | BN91-00349P | - | ASSY LCD-E23 | GY17HS | SNA |
| 3 | BN07-00160A | LCD | LCD-PANEL | LTM170EU-L11,G0GH,6BIT,358.5*296.5*17.5,16.2M,40,0.264*0.264,0-50,5V,7N | SA |
| 2 | BN91-00784S | - | ASSY CHASSIS | MJ17AS | SA |
| 3 | BN44-00113A | CIS | IP BOARD | MATISSE,1.5mA-3.0mA,6.1mA-7.3mA,48kHz,4,AC90V-264VAC,5Vdc /13Vdc,0°...°±32°...50/ | SNA |
| 3 | BN61-01102A | CIS | BRACKET-PCB | MJ17AS,SECC,T1.0 | SNA |
| 2 | BN91-00785D | - | ASSY SHIELD | MJ17BS/AS | SNA |
| 3 | 0203-001598 | CIS | TAPE-FILAMENT | #8915,0.15,12,55000,CLR | SNA |
| 3 | BN39-00244A | CIS | CBF SIGNAL | BU15A0(T541A),15P/15P,20276-N,1830MM,UL20276,BLACK,D-SUB/MALE .DET. TYPE | SA |
| 3 | BN39-00513A | CIS | LEAD CONNECTOR | MJ17AS(BS)UL1571#30,UL/CSA,30P,160mm#30,1635L-30,12507HS-30L,BK,SJ03-01-838,AT | SNA |
| 3 | BN39-00523C | CIS | LEAD CONNECTOR | MJ17/19*,UL1061#28,UL/CSA,6P/5P,90mm,#28,12507HS-06L,12506HS-05,BK,AT TAPE | SNA |
| 3 | BN61-01234A | CIS | HOLDER-INVERTER | MATISSE,ABS VO,BK07 | SNA |
| 3 | BN64-00258A | CIS | PANEL-SPACER | MJ17AS/BS,ABS HB,BK07 | SNA |
| 3 | 6003-000117 | SH/COV+BRKT/PCB | SCREW-TAPTITE | BH,+ ,B,M3,L6,ZPC(YEL),SWRCH18A | SNA |
| 3 | 6003-000276 | SH/COV+C/F | SCREW-TAPTITE | BH,+ ,B,M3,L10,ZPC(YEL),SWCH10 | SNA |
| 3 | 6001-000559 | SH/COV+PAN | SCREW-MACHINE | FH,+ ,M3,L6,ZPC(YEL),SWRCH18A,FP,- | SNA |
| 3 | BN96-01059A | CIS | ASSY MISC P-SHIELD COVER | MJ17AS/BS,SECC T1.0 | SNA |
| 4 | BN63-01211A | CIS | SHIELD-COVER | MJ17AS,SECC,TO.8 | SNA |
| 4 | BN63-01313A | CIS | COVER-INSULATOR | MJ17,19AS/BS,PET,TO.35 | SA |
| 2 | BN92-00752R | - | ASSY LABEL | GG15AS | SNA |
| 3 | BN68-00614A | CIS | LABEL RATING-00 | ALL,SS,PE,TO.05,90*45,BLK,POLYESTER,NO SILK | SA |
| 2 | BN92-00936S | - | ASSY P/MATERIAL | MJ17ASAS/* ,W/W,PIVOT | SNA |
| 3 | 0203-001102 | P/M | TAPE-OPP MASKING | OPP-2,TO.05,W100,L400M,CLR | SNA |
| 3 | 6902-000379 | P/M | BAG AIR | HDPE,TO.2,L1800,W1000,TRP,-,PAPER | SNA |
| 3 | 6902-000520 | P/M | BAG PE | HDPE/NITRON(DOUBLE),TO.015,(TO.5(DOUBLE)),W700,L700,TRP,28 LANGUAGE,2- | SNA |
| 3 | 6902-000604 | P/M | BAG WRAPPING | LDPE,TO.02,W500,L10000,TRP,-,- | SNA |
| 3 | 6902-000609 | P/M | BAG ROLL | LDPE,TO.05,W2400,L1000,TRP,-,- | SNA |
| 3 | BH69-00457C | P/M | PACKING-PAD BOTTOM | CY15PQ,FOAM,T3.0,1320,880 | SNA |

| Level | Loc. No. | Code No. | Description | Specification | Remarks |
|-------|--------------|----------------|----------------------|---|---------|
| 3 | BH69-40321A | P/M | PACKING-PAD | SW-4,W2155*1140,-DEC,-,-,-,- | SNA |
| 3 | BN68-00129A | P/M | LABEL SHIPPING | -,LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,- | SNA |
| 3 | BN69-00123L | P/M | PAD PACKING | R,J15PO | SNA |
| 3 | BN69-00140T | P/M | PAD-PALLET COVER | SUN(LSA810),SW,900,3760,-,-,-,-,- | SNA |
| 3 | BN69-00617K | P/M | PALLET-PACKING | TS17AS,WOODEN,1310,910,120 | SNA |
| 3 | BN69-00741A | P/M | CUSHION-PIVOT | MJ17AS,EPS M50 | SNA |
| 2 | BN92-01052V | - | ASSY ACCESSORY | MJ17/19,ADC,UNITED STATES,PIVOT | SNA |
| 3 | BN96-01192V | UNIT/ACCESSORY | ASSY ACCESSORY | MJ17/19,ADC,UNITED STATES,PIVOT | SNA |
| 4 | 0203-000214 | ACCESSORY | TAPE-OPP MASKING | OPP/W50/CLR,TO.05,W50,L400000, | SNA |
| 4 | 3903-000085 | ACCESSORY | CBF-POWER CORD | DT,US,BP3/YES,IIIEC C13/C14,125/125V,10/10A,BLK,1830MM,-,SVT AWG18X3,UL/CSA,-,- | SA |
| 4 | 6902-000110 | ACCESSORY | BAG PE | LDPE,TO.05,L356,W240,TRP,28,2,PE MARK | SNA |
| 4 | AA68-40065B | ACCESSORY | CARD-01,REGISTRATION | ,SEA,A5,ENG,A/P220,2P(SIDES),4 | SNA |
| 4 | BH68-00261F | ACCESSORY | CARD WARRANTY-03 | SyncMaster14-1,ADC,MOJO180G,E/F,USA | SNA |
| 4 | BH68-00261R | ACCESSORY | MANUAL-00 | 3 MONTHS CRM CARD,SECA,E/F,CANADA,MOJO120G,173,234 | SNA |
| 4 | BH68-00344C | ACCESSORY | CARD WARRANTY-00 | SECA W/TY & CRM CARD,SECA,MOJO100G,E/F,CANADA | SNA |
| 4 | BN59-00048A | ACCESSORY | S/W DRIVER-7.5 | SYNCMaster,PIVOT,SAMSUNG | SNA |
| 4 | BN96-01171A | ACCESSORY | ASSY MANUAL P-IB+QSG | 710N,SyncMaster,W/W,27Lang,BN59-420A+BH68-376L | SNA |
| 5 | BH68-00376L | CIS | MANUAL-01 | LCDQUICK SETUP GUIDE,SYNCMaster,E/F/S/G/P/L,13LANGS,W/W,MOJO100G,298,420 | SA |
| 5 | BN59-00420A | CIS | S/W DRIVER-00,IB | 710T,W/W,SyncMaster,27 Lang | SNA |
| 2 | BN92-01057Y | - | ASSY BOX | MJ17ASAB,ADC,UNITED STATES,S/M711N,POIVOT,TCO99 | SNA |
| 3 | BH68-00530E | BOX | LABEL BOX-01 | ALL MODEL,MOJO 90G,90,95,WHT,3Y W/T+TCO99+PIVOT | SNA |
| 3 | BN69-00806E | BOX | BOX-00 | S/M711N(MJ17AS) W/W,CB-SW4,YEL,A-1,L496*W395*H214,PIVOT | SNA |
| 1 | E29-MJ17ASAB | - | 2 | SEC,LTM170EU-L11 ZPD | - |

7-3-1 MJ19AS* Main PCB Parts

| Level | Loc. No. | Code No. | Description | Specification | Remarks |
|-------|------------------|-----------------|-----------------------|---|---------|
| 0 | MJ19ASAB/XSH | - | 1 | LTM190E1-L02 | - |
| 1 | E10-MJ19ASAB/XSH | - | | | |
| 3 | BN94-00516T | - | ASSY PCB MAIN-E10/E17 | GS19VS/MJ19AS | SNA |
| 4 | 0204-002420 | CIS3 | SOLVENT | 1M-1000,C3H7OH,96,-,- | SNA |
| 4 | 0204-002426 | CIS4 | FLUX | DF-201TVS,MIX,0.820,FLUX13%,14KG,- | SNA |
| 4 | BN63-00995A | CIS8 | GASKET | GY17MS CONDUCTIVE FAB,4MM,15MM,100MM,GRAY,32K,71TSSK-15-4-100-13 | SNA |
| 4 | 3701-001219 | CN101 | CONNECTOR-DSUB | 15P,3R,FEEMALE,ANGLE,AUF | SA |
| 4 | 3711-004712 | CN600 | CONNECTOR-HEADER | BOX,9P,1R,2mm,STRAIGHT,SN | SA |
| 4 | 6003-000117 | IP/PCB+BRKT/PCB | SCREW-TAPTITE | BH,+B,M3,L6,ZPC(YEL),SWRCH18A | SNA |
| 4 | 6003-000117 | M/PCB+BRKT/PCB | SCREW-TAPTITE | BH,+B,M3,L6,ZPC(YEL),SWRCH18A | SNA |
| 4 | BN97-00354K | MICOM | ASSY MICOM | GS17VS | SA |
| 5 | 0903-001347 | IC200 | IC-MICROCONTROLLER | NT68F63GL,8Bit,PLCC,44P,653MIL,12MHz,ST,-,PLASTIC,5.000000V,-,0ta+70C,256B,-,-, | SNA |
| 5 | BN82-00114L | CIS | A/S MICOM | GS17VS | SNA |
| 4 | BN97-00358G | - | ASSY SMD | GS17VS/17VT/GS19VT | SNA |
| 5 | 3301-000314 | BD100 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,40000ohm | SNA |
| 5 | 3301-000314 | BD101 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,40000ohm | SNA |
| 5 | 3301-000314 | BD102 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,40000ohm | SNA |
| 5 | 3301-000314 | BD103 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,40000ohm | SNA |
| 5 | 3301-000314 | BD104 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,40000ohm | SNA |
| 5 | 3301-000314 | BD105 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,40000ohm | SNA |
| 5 | 2703-001334 | BD106 | INDUCTOR-SMD | 1.5uH,10%,2012 | SA |
| 5 | 3301-000314 | BD200 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,40000ohm | SNA |
| 5 | 3301-000314 | BD201 | BEAD-SMD | 120ohm,1.6x0.8x0.8mm,150mA,,,40000ohm | SNA |
| 5 | 2203-005005 | C100 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C101 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C102 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C103 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C104 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C105 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-000257 | C106 | C-CER,CHIP | 10nF,10%,50V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C110 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C112 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |

| Level | Loc. No. | Code No. | Description | Specification | Remarks |
|-------|--------------|----------|---------------------------|--|---------|
| 5 | 2203-005005 | C114 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-000236 | C116 | C-CER,CHIP | 0.1nF,5%,50V,COG,TP,1608 | SA |
| 5 | 2203-000998 | C117 | C-CER,CHIP | 0.047nF,5%,50V,COG,TP,1608 | SA |
| 5 | 2203-005005 | C200 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005437 | C201 | C-CER,CHIP | 10000nF,+80-20%,10V,Y5V,TP,3216 | SA |
| 5 | 2203-005005 | C203 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005437 | C205 | C-CER,CHIP | 10000nF,+80-20%,10V,Y5V,TP,3216 | SA |
| 5 | 2203-005065 | C206 | C-CER,CHIP | 1000nF,+80-20%,10V,Y5V,-,1608 | SA |
| 5 | 2203-000257 | C221 | C-CER,CHIP | 10nF,10%,50V,X7R,TP,1608 | SA |
| 5 | 2203-000257 | C222 | C-CER,CHIP | 10nF,10%,50V,X7R,TP,1608 | SA |
| 5 | 2203-000189 | C224 | C-CER,CHIP | 100nF,+80-20%,25V,Y5V,TP,1608, | SA |
| 5 | 2203-005005 | C400 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2402-001042 | C401 | C-AL,SMD | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA |
| 5 | 2203-005005 | C402 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C403 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C404 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C405 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C406 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C407 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C408 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C409 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C410 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C411 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C412 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C413 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C414 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C415 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-000426 | C416 | C-CER,CHIP | 0.018nF,5%,50V,COG,TP,1608 | SA |
| 5 | 2203-000257 | C417 | C-CER,CHIP | 10nF,10%,50V,X7R,TP,1608 | SA |
| 5 | 2203-000426 | C418 | C-CER,CHIP | 0.018nF,5%,50V,COG,TP,1608 | SA |
| 5 | 2203-005005 | C419 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C420 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C421 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2402-000108 | C422 | C-AL,SMD | 10uF,20%,16V,WT,TP,4.3x4.3x5.4 | SA |
| 5 | 2203-005005 | C423 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C424 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005065 | C603 | C-CER,CHIP | 1000nF,+80-20%,10V,Y5V,-,1608 | SA |
| 5 | 2203-005005 | C604 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005005 | C605 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2203-005065 | C606 | C-CER,CHIP | 1000nF,+80-20%,10V,Y5V,-,1608 | SA |
| 5 | 2402-001042 | C607 | C-AL,SMD | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA |
| 5 | 2203-005005 | C608 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2402-001042 | C609 | C-AL,SMD | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA |
| 5 | 2203-005005 | C610 | C-CER,CHIP | 100nF,10%,16V,X7R,TP,1608 | SA |
| 5 | 2402-001042 | C611 | C-AL,SMD | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA |
| 5 | 2402-001042 | C612 | C-AL,SMD | 100uF,20%,16V,GP,TP,6.6x6.6x5.4mm | SA |
| 5 | 3711-005543 | CN200 | CONNECTOR-HEADER | BOX,6P,1R,1.25mm,SMD-A,SnPb,IVR | SA |
| 5 | 3711-005470 | CN400 | CONNECTOR-HEADER | BOX,30P,1R,1.25mm,SMD-A,Sn+Pb,IVR | SA |
| 5 | 0403-001411 | D100 | DIODE-ZENER | -5.49-5.73V,200MW,SOD-323,TP | SA |
| 5 | 0401-001056 | D101 | DIODE-SWITCHING | MIMBD4148SE,100V,200MA,SOT-23,TP | SA |
| 5 | 0401-001056 | D103 | DIODE-SWITCHING | MIMBD4148SE,100V,200MA,SOT-23,TP | SA |
| 5 | 0401-001056 | D105 | DIODE-SWITCHING | MIMBD4148SE,100V,200MA,SOT-23,TP | SA |
| 5 | 0402-001080 | D600 | DIODE-RECTIFIER | GF1G,400V,1A,DO,TP | SA |
| 5 | 3301-001145 | FT600 | BEAD-SMD | 60ohm,4516,6000mA,TP,70ohm/45MHz,82ohm/760MHz,0.01ohm | SNA |
| 5 | 0406-001061 | IC106 | DIODE-TVS | MMQA5V6T3.5.32/5.6/5.88V,24W,S | SA |
| 5 | 1103-001023 | IC201 | IC-EEPROM | 24C08,1Kx8,SOP,8P,5x4mm,2.5/5.5V,0to+70C | SA |
| 5 | 1003-001674 | IC400 | IC-LCD CONTROLLER | SE7889,POQF,100P,23.45x17.45mm,-,TR,PLASTIC,0.3-3.6V,0to+70C,-,- | SNA |
| 5 | 0505-0001772 | IC600 | FET-SILICON | FDS9933A,P,-20V,-3.8A,0.075OHM,2W,SO-8 | SA |
| 5 | 1203-003209 | IC601 | IC-DUAL VOLTAGE REGULATOR | APL5522,SOP,8P,4.9x3.9mm,PLASTIC,3.3V/2.5V,-,0to+150C,500mA/300mA,-,TP | SA |
| 5 | BN41-00412A | MP1.0 | PCB MAIN | MJ/GS,SILVER THROUGH HOLE,2L,1.0,1.6T,118*78.2,4A | SNA |
| 5 | 0501-002080 | Q601 | TR-SMALL SIGNAL | 2SC2412K,NPN,200mW,SC-59,TP,120-270 | SA |
| 5 | 2007-000821 | R106 | R-CHIP | 390ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2007-001164 | R107 | R-CHIP | 75ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2007-001164 | R108 | R-CHIP | 75ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2007-001164 | R109 | R-CHIP | 75ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2007-001164 | R118 | R-CHIP | 75ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2703-001334 | R119 | INDUCTOR-SMD | 1.5uH,10%,2012 | SA |
| 5 | 2007-001164 | R120 | R-CHIP | 75ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2703-001334 | R121 | INDUCTOR-SMD | 1.5uH,10%,2012 | SA |
| 5 | 2007-000084 | R122 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R123 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000078 | R124 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000113 | R134 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000113 | R135 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000113 | R136 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000113 | R137 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | SA |

7 Electrical Parts List

| Level | Loc. No. | Code No. | Description | Specification | Remarks |
|-------|-------------|----------|-------------|----------------------------------|---------|
| 5 | 2007-000113 | R138 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000113 | R139 | R-CHIP | 33ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000070 | R200 | R-CHIP | 0ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R202 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R203 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R204 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R205 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R206 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R207 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R208 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R209 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R210 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R211 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R212 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R214 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R216 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R217 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R219 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000077 | R221 | R-CHIP | 470ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000080 | R222 | R-CHIP | 2Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R223 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R224 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R225 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R226 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000070 | R227 | R-CHIP | 0ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R228 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R229 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R230 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R231 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R232 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000083 | R233 | R-CHIP | 3Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R234 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R235 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R236 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R237 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000084 | R238 | R-CHIP | 4.7Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R239 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R240 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000078 | R241 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R242 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000077 | R243 | R-CHIP | 470ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R244 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R247 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R400 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R401 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000078 | R402 | R-CHIP | 1Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000821 | R403 | R-CHIP | 390ohm,1%,1/10W,TP,1608 | SA |
| 5 | 2007-000070 | R502 | R-CHIP | 0ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000070 | R503 | R-CHIP | 0ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R600 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R602 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000074 | R603 | R-CHIP | 100ohm,5%,1/10W,TP,1608 | SA |
| 5 | 2007-000090 | R604 | R-CHIP | 10Kohm,5%,1/10W,TP,1608 | SA |
| 5 | 2801-003773 | X400 | CRYSTAL-SMD | 12MHZ,30PPM,28-AAN,20PF,500HM,TP | SA |
| 5 | 0403-001411 | ZD100 | DIODE-ZENER | -5.49-5.73V,200MW,SOD-323,TP | SA |
| 5 | 0403-001411 | ZD101 | DIODE-ZENER | -5.49-5.73V,200MW,SOD-323,TP | SA |
| 5 | 0403-001411 | ZD102 | DIODE-ZENER | -5.49-5.73V,200MW,SOD-323,TP | SA |
| 5 | 0403-001411 | ZD103 | DIODE-ZENER | -5.49-5.73V,200MW,SOD-323,TP | SA |
| 5 | 0403-001411 | ZD104 | DIODE-ZENER | -5.49-5.73V,200MW,SOD-323,TP | SA |
| 5 | 0403-001411 | ZD200 | DIODE-ZENER | -5.49-5.73V,200MW,SOD-323,TP | SA |

7-3-2 MJ19AS* Others

| Level | Loc. No. | Code No. | Description | Specification | Remarks |
|-------|------------------|-----------------|--------------------------|---|---------|
| 2 | BN90-00329T | - | ASSY STAND | MJ17ASAB/*,BK07,PIVOT | SNA |
| 3 | BN96-01193B | STD | ASSY STAND P-PIVOT | Matisse17/19,ABS HB,BK07 | SNA |
| 2 | BN90-00641D | - | ASSY COVER REAR | MJ19AS | SNA |
| 3 | 6003-000337 | C/R+STD | SCREW-TAPTITE | BH,+,S,M4,L10,ZPC(BLK),SWRCH18 | SNA |
| 3 | BN96-01055B | C/R | ASSY COVER P-REAR | MJ19AS,ABS HB,BK07 | SNA |
| 4 | BN61-00377A | C/R | BRACKET-VESA | GOYA19(193V),SECC,T1.0 | SNA |
| 4 | BN63-01215B | C/R | COVER-REAR | MJ19AS,ABS HB,BK07,NONE,1.5 | - |
| 2 | BN90-00642Q | - | ASSY COVER FRONT | MJ19ASSB/*,BK07,S/M910N | SNA |
| 3 | 6003-001086 | C/F+C/R | SCREW-TAPTITE | BH,+,B,M3,L12,ZPC(BLK),SWRCH18A | SNA |
| 3 | BN96-01057F | C/F | ASSY COVER P-FRONT | MJ19AS,ABS HB,BK07 | SNA |
| 4 | BN61-01243A | C/F | HOLDER-PCB | MJ17,ABS HB,BK07 | SNA |
| 4 | BN63-01214C | C/F | COVER-FRONT | MJ19AS/BS,ABS HB,BK07 | - |
| 4 | BN64-00288C | C/F | KNOB-FUNCTION | MJ15/17/19,ABS,PC,BK07 | SNA |
| 4 | BN67-00120A | C/F | LENS-LED | MATISSE,ACRYL,CLEAR | SA |
| 4 | BN96-01111A | C/F | ASSY BOARD P-FUNCTION | MATISSE,FUNCTION | SNA |
| 2 | BN91-00403C | - | ASSY LCD-E10 | MO19ES | SNA |
| 3 | BN07-00128A | LCD | LCD | LTM190E1-L02,Goya,16.1M,404.2*330*20,16.2M,63,0.294*0.294,0-50,5V,PvA | SA |
| 2 | BN91-00784T | - | ASSY CHASSIS | MJ19AS | SA |
| 3 | BN44-00113A | CIS | IP BOARD | MATISSE,1.5mA-3.0mA,6.1mA-7.3mA,48kHz,4,AC90V-264VAC,5Vdc /13Vdc,0°...°±32°...50/ | SNA |
| 3 | BN61-01103A | CIS | BRACKET-PCB | MJ19AS,SECC,T1.0 | SNA |
| 2 | BN91-00785C | - | ASSY SHIELD | MJ19BS/AS | SNA |
| 3 | 0203-001598 | CIS | TAPE-FILAMENT | #8915,0.15,12,55000,CLR | SNA |
| 3 | BN39-00244A | CIS | CBF SIGNAL | BU15A0(T541A)15P/15P,20276-N,1830MM,UL20276,BLACK,D-SUB/MALE,DET. TYPE | SA |
| 3 | BN39-00506A | CIS | LEAD CONNECTOR | GS17/19*/MJ19,UL1571#30,UL/CSA,30P,160mm,#30,12507HS-30L,1615A-30,BK,SJ03-01-293 | SNA |
| 3 | BN39-00523C | CIS | LEAD CONNECTOR | MJ17/19*/UL1061#28,UL/CSA,6P/5P,90mm,#28,12507HS-06L,12506HS-05,BK,AT TAPE | SNA |
| 3 | BN61-01234A | CIS | HOLDER-INVERTER | MATISSE,ABS V0,BK07 | SNA |
| 3 | 6003-000117 | SH/COV+BRKT/PCB | SCREW-TAPTITE | BH,+,B,M3,L6,ZPC(YEL),SWRCH18A | SNA |
| 3 | 6003-000276 | SH/COV+C/F | SCREW-TAPTITE | BH,+,B,M3,L10,ZPC(YEL),SWCH10 | SNA |
| 3 | 6001-000364 | SH/COV+PAN | SCREW-MACHINE | FH,+,M3,L8,ZPC(YEL),SWRCH18A,-,- | SNA |
| 3 | BN96-01060A | CIS | ASSY MISC P-SHIELD COVER | MJ19AS/BS,SECC T1.0 | SNA |
| 4 | BN63-01217A | CIS | SHIELD-COVER | MJ19AS,SECC,T1.0 | SNA |
| 4 | BN63-01313A | CIS | COVER-INSULATOR | MJ17,19AS/BS,PET,TO.35 | SNA |
| 2 | BN92-00936T | - | ASSY P/MATERIAL | MJ19AS/BS | SNA |
| 3 | 0203-001102 | P/M | TAPE-OPP MASKING | OPP-2,TO.05,W100,L400M,CLR | SNA |
| 3 | 6902-000379 | P/M | BAG AIR | HDPE,TO.2,L1800,W1000,TRP,.,PAPER | SNA |
| 3 | 6902-000520 | P/M | BAG PE | HDPE(NITRON(DOUBLE)),TO.015,(TO.5(DOUBLE)),W700,L700,TRP,28 LANGUAGE,2- | SNA |
| 3 | 6902-000604 | P/M | BAG WRAPPING | LDPE,TO.02,W500,L10000,TRP,-,- | SNA |
| 3 | 6902-000609 | P/M | BAG ROLL | LDPE,TO.05,W2400,L1000,TRP,-,- | SNA |
| 3 | BH69-00457B | P/M | PACKING-PAD BOTTOM | GH15,FOAM,T3,0.930,1000 | SNA |
| 3 | BH69-40303L | P/M | PACKING-PALLET | WOOD,1020*994*130,-,ML15NS | SNA |
| 3 | BH69-40321A | P/M | PACKING-PAD | SW-4,W2155*L140,-,DEC,-,-,-,- | SNA |
| 3 | BN68-00129A | P/M | LABEL SHIPPING | -,LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,- | SNA |
| 3 | BN69-00140P | P/M | PAD-PALLET COVER | SUN15,SW,1000*3780,1310,-,-,-,-,- | SNA |
| 3 | BN69-00743A | P/M | CUSHION-PIVOT | MJ19AS,EPS M50 | SNA |
| 2 | BN92-00946H | - | ASSY LABEL | GY19VSSS/XSH,SEHK,HONG KONG | SNA |
| 3 | 0203-001598 | CIS | TAPE-FILAMENT | #8915,0.15,12,55000,CLR | SNA |
| 3 | BN68-00021F | CIS | LABEL | PROTECTOR W/W19,PE,-,410,330,-,-,PE CLEAR,-,- | SNA |
| 3 | BN68-00614A | CIS | LABEL RATING-00 | ALL,SS,PE,TO.05,90*45,BLK,POLYESTER,NO SILK | SNA |
| 2 | BN92-01052C | - | ASSY ACCESSORY | MJ17ASAS/XSS,SAPL,SINGAPORE,PIVOT | SNA |
| 3 | BN96-01192C | UNIT/ACCESSORY | ASSY ACCESSORY | MJ17ASAS/XSS,SAPL,SINGAPORE,PIVOT | SNA |
| 4 | 0203-000214 | ACCESSORY | TAPE-OPP MASKING | OPP/W50/CLR,TO.05,W50,L400000, | SNA |
| 4 | 3903-000067 | ACCESSORY | CBF-POWER CORD | DT,6B,6P3/YES(A),MEC C13/C14,250/250V,10/10A,BLK,1830MM,-,H05VV-F 3X1.0MM*2,A | SA |
| 4 | 6902-000110 | ACCESSORY | BAG PE | LDPE,TO.05,L356,W240,TRP,28,2,PE MARK | SNA |
| 4 | BN59-00048A | ACCESSORY | S/W DRIVER-7.5 | SYNCMaster,PIVOT,SAMSUNG | SNA |
| 4 | BN96-01171A | ACCESSORY | ASSY MANUAL P-IB+QSG | 710N,SyncMaster,W/W,27Lang,BN59-420A+BH68-376L | SNA |
| 5 | BH68-00376L | CIS | MANUAL-01 | LCD QUICK SETUP GUIDE,SYNCMaster,E/F/S/G/P/L13LANGS,W/W,MOJ0100G,298,420 | SA |
| 5 | BN59-00420A | CIS | S/W DRIVER-00,IB | 710T,W/W,SyncMaster,27 Lang | SNA |
| 2 | BN92-01059D | - | ASSY BOX | MJ19ASAS/*,W/W,PIVOT | SNA |
| 3 | BH68-00328Q | BOX | LABEL BOX | LABEL-BARCODE,W/W,CE+P+TC099,ART-PAPER100G,70*60,90*95,WHT | SNA |
| 3 | BN69-00805A | BOX | BOX-00 | S/M910N(MJ19AS)W/W,CB-SW4,YEL,A-1,L523*W431*H214,PIVOT | - |
| 1 | E17-MJ19ASAB/XSH | - | 2 | LTM190E1-L02(ZPD) | - |

7-4 MJ15BS*/MJ17BS*/MJ19BS* Different Circuit Part List

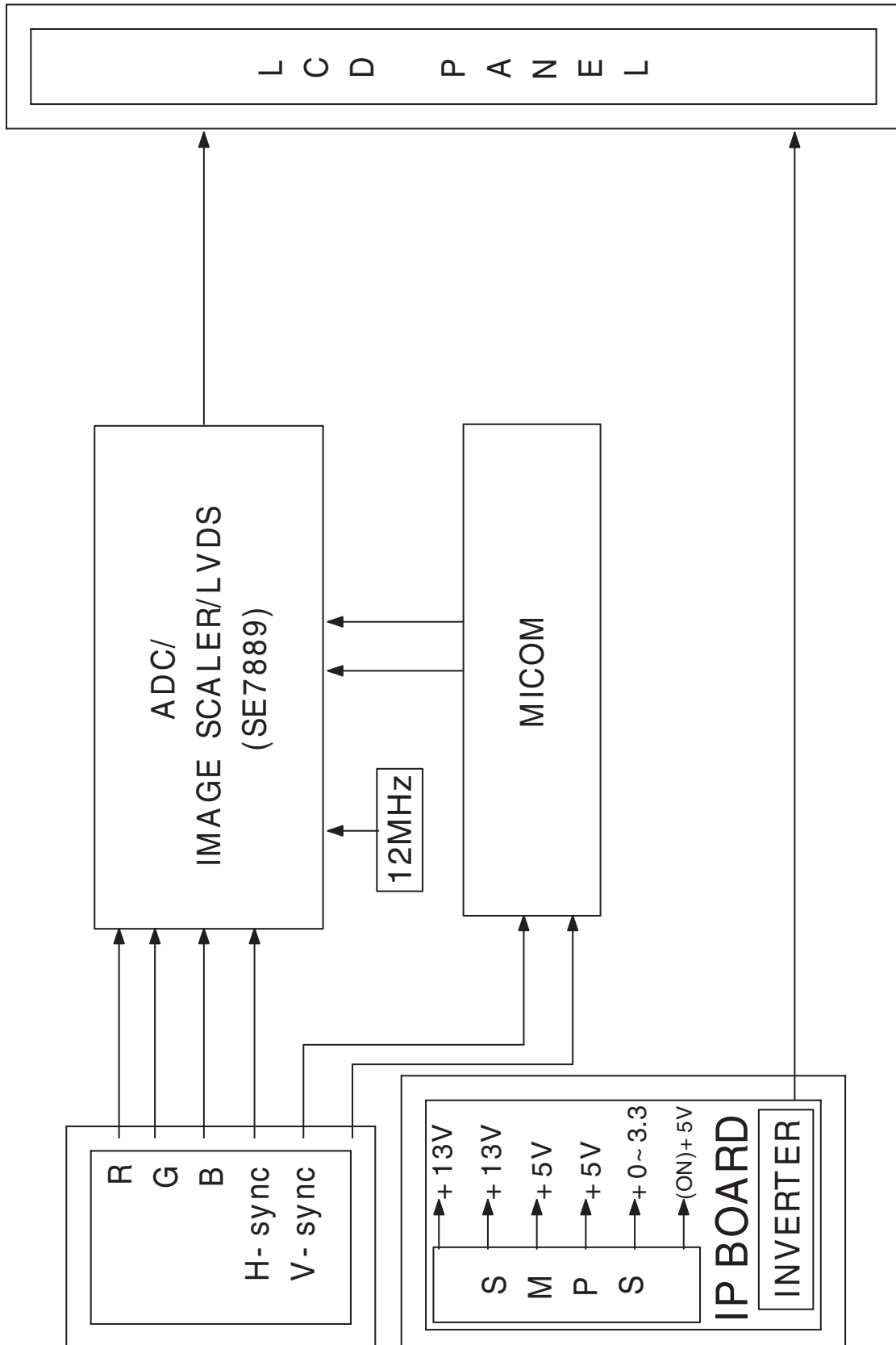
| Loc. No | Code | Description |
|---------|-------------|-----------------|
| C111 | 2203-001402 | C-CERAMIC,CHIP |
| C113 | 2203-001402 | C-CERAMIC,CHIP |
| C119 | 2203-001402 | C-CERAMIC,CHIP |
| C120 | 2203-001402 | C-CERAMIC,CHIP |
| C123 | 2203-001402 | C-CERAMIC,CHIP |
| C125 | 2203-001402 | C-CERAMIC,CHIP |
| C126 | 2203-005005 | C-CERAMIC,CHIP |
| C127 | 2203-001402 | C-CERAMIC,CHIP |
| C128 | 2203-001402 | C-CERAMIC,CHIP |
| CN102 | 3701-001173 | CONNECTOR-DSUB |
| D102 | 0401-001056 | DIODE-SWITCHING |
| D104 | 0401-001056 | DIODE-SWITCHING |
| D106 | 0401-001056 | DIODE-SWITCHING |
| D107 | 0401-001056 | DIODE-SWITCHING |
| D108 | 0401-001056 | DIODE-SWITCHING |
| D109 | 0403-001411 | DIODE-ZENER |
| D110 | 0403-001411 | DIODE-ZENER |
| D111 | 0401-001056 | DIODE-SWITCHING |
| D112 | 0401-001056 | DIODE-SWITCHING |
| D113 | 0401-001056 | DIODE-SWITCHING |
| D114 | 0403-001411 | DIODE-ZENER |
| D115 | 0403-001411 | DIODE-ZENER |
| IC101 | 1103-000129 | IC-EEPROM |
| IC107 | 0406-001061 | DIODE-TVS |
| Q100 | 0501-002080 | TR-SMALL SIGNAL |
| R110 | 2007-000071 | R-CHIP |
| R111 | 2007-000071 | R-CHIP |
| R112 | 2007-000071 | R-CHIP |
| R113 | 2007-000071 | R-CHIP |
| R114 | 2007-000071 | R-CHIP |
| R115 | 2007-000071 | R-CHIP |
| R116 | 2007-000071 | R-CHIP |
| R117 | 2007-000071 | R-CHIP |
| R125 | 2007-000078 | R-CHIP |
| R126 | 2007-000092 | R-CHIP |
| R127 | 2007-000092 | R-CHIP |
| R128 | 2007-000074 | R-CHIP |
| R129 | 2007-000074 | R-CHIP |
| R130 | 2007-001002 | R-CHIP |
| R131 | 2007-000090 | R-CHIP |
| R132 | 2007-000074 | R-CHIP |

7-5 MJ15AS*/MJ17AS*/MJ19AS*/MJ15BS*/MJ17BS*/MJ19BS* Different Mechanical Part List

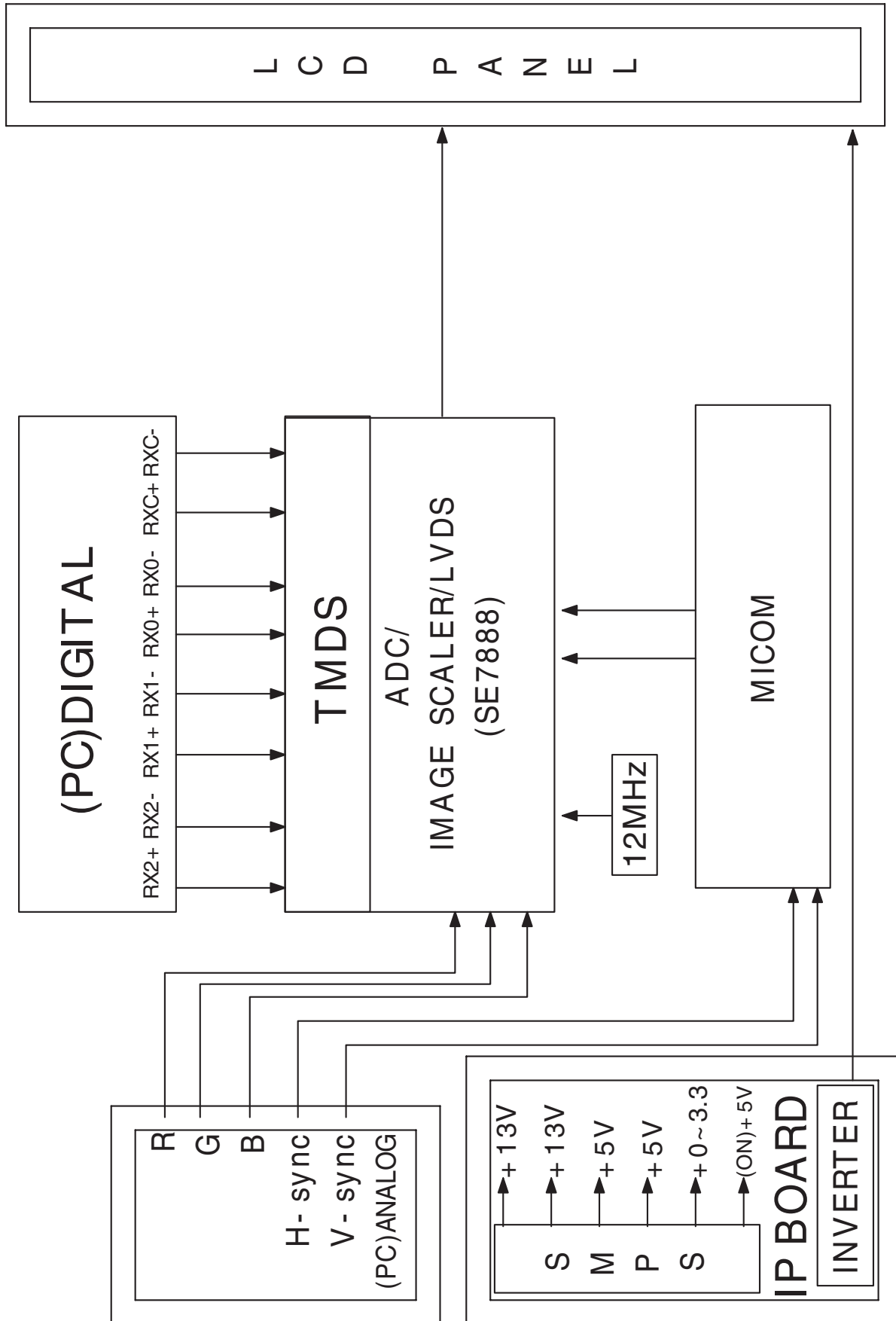
*** Refer to Chapter 6 Exploded View and Parts List for All Models Different Mechanically Part List.**

8 Block Diagram

8-1 MJ15AS*/MJ17AS*/MJ19AS* ANALOG Block Diagram

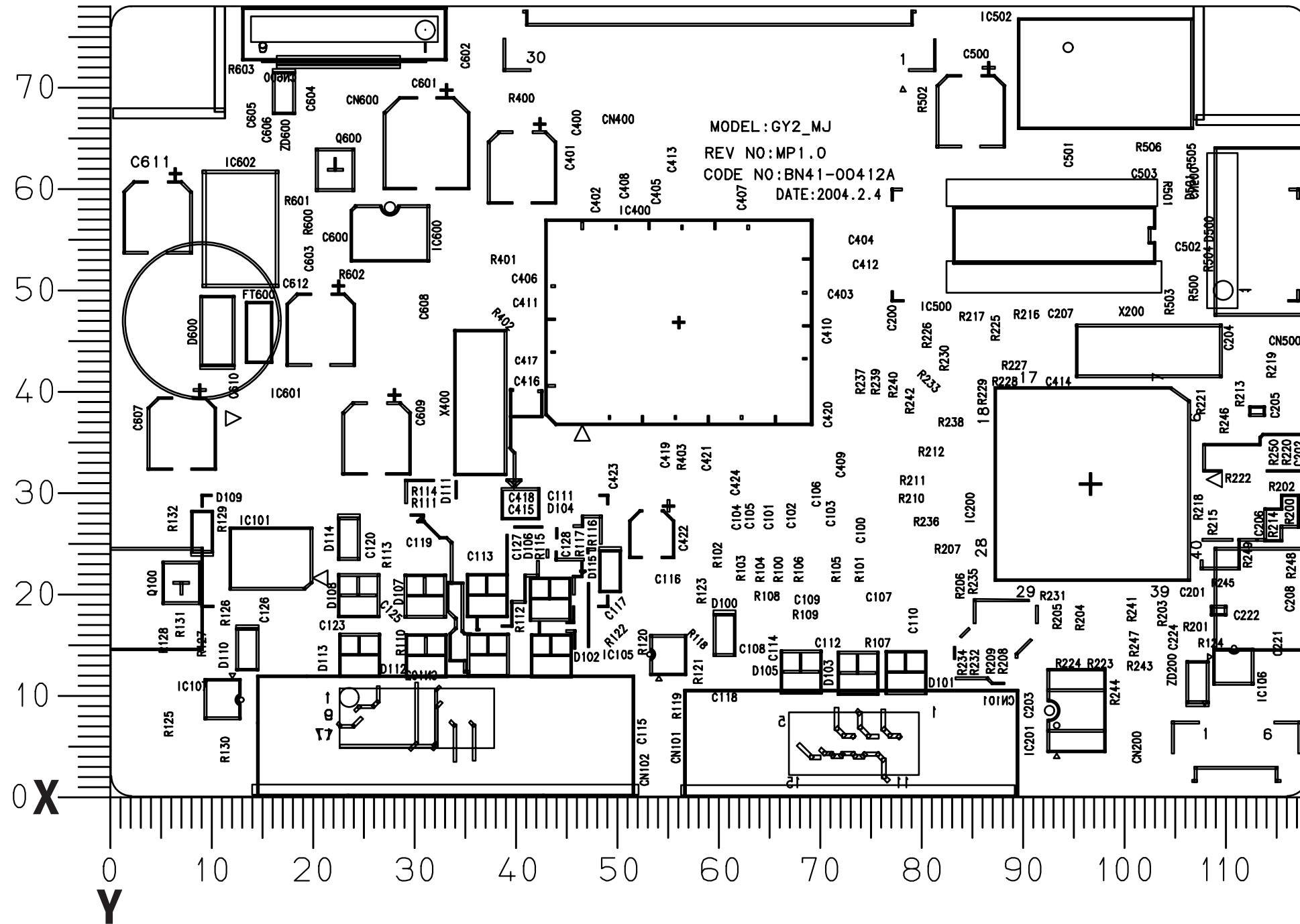


8-2 MJ15BS*/MJ17BS*/MJ19BS* DIGITAL Block Diagram



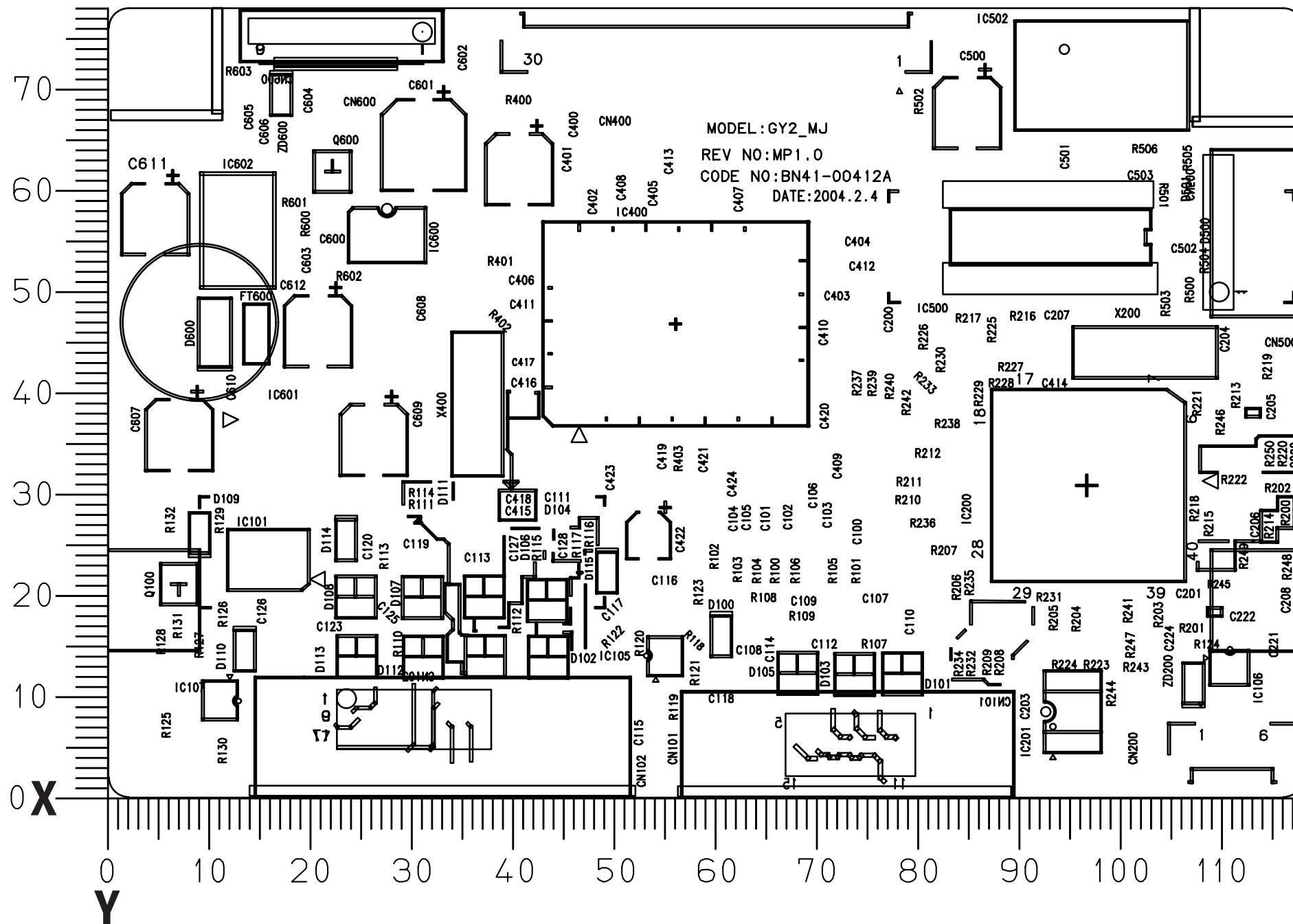
10 PCB Layout

10-1 MJ15AS* ANALOG PCB



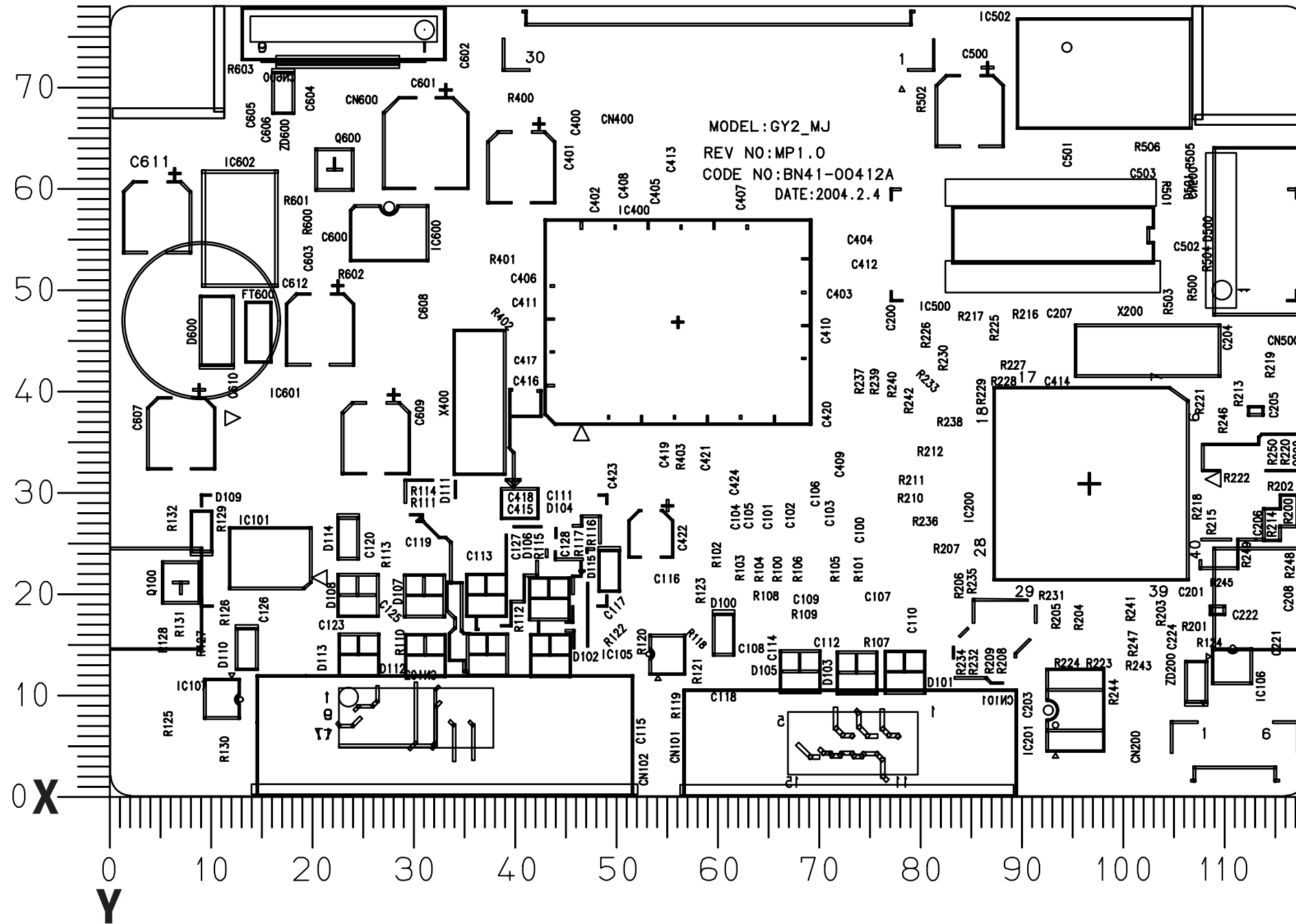
| Loc. No. | Description | X | Y |
|--------------|---------------------------|-------|------|
| DIODE | | | |
| D100 | DIODE-ZENER | 60.5 | 16.0 |
| D101 | DIODE-SWITCHING | 78.3 | 12.3 |
| D103 | DIODE-SWITCHING | 73.6 | 12.2 |
| D105 | DIODE-SWITCHING | 68.0 | 12.4 |
| D600 | DIODE-RECTIFIER | 10.5 | 46.1 |
| ZD200 | DIODE-ZENER | 107.1 | 11.3 |
| ZD600 | DIODE-ZENER | 17.1 | 69.6 |
| IC | | | |
| IC105 | DIODE-TVS | 55.0 | 14.0 |
| IC106 | DIODE-TVS | 110.7 | 12.9 |
| IC200 | IC-MICROCONTROLLER | 96.6 | 30.9 |
| IC201 | IC-EEPROM | 95.2 | 8.5 |
| IC400 | IC-LCD CONTROLLER | 56.0 | 46.9 |
| IC600 | FET-SILICON | 27.5 | 55.8 |
| IC601 | IC-DUAL VOLTAGE REGULATOR | 17.4 | 35.5 |
| IC602 | IC-VOLTAGE REGULATOR | 12.8 | 56.1 |

10-2 MJ15BS* DIGITAL PCB



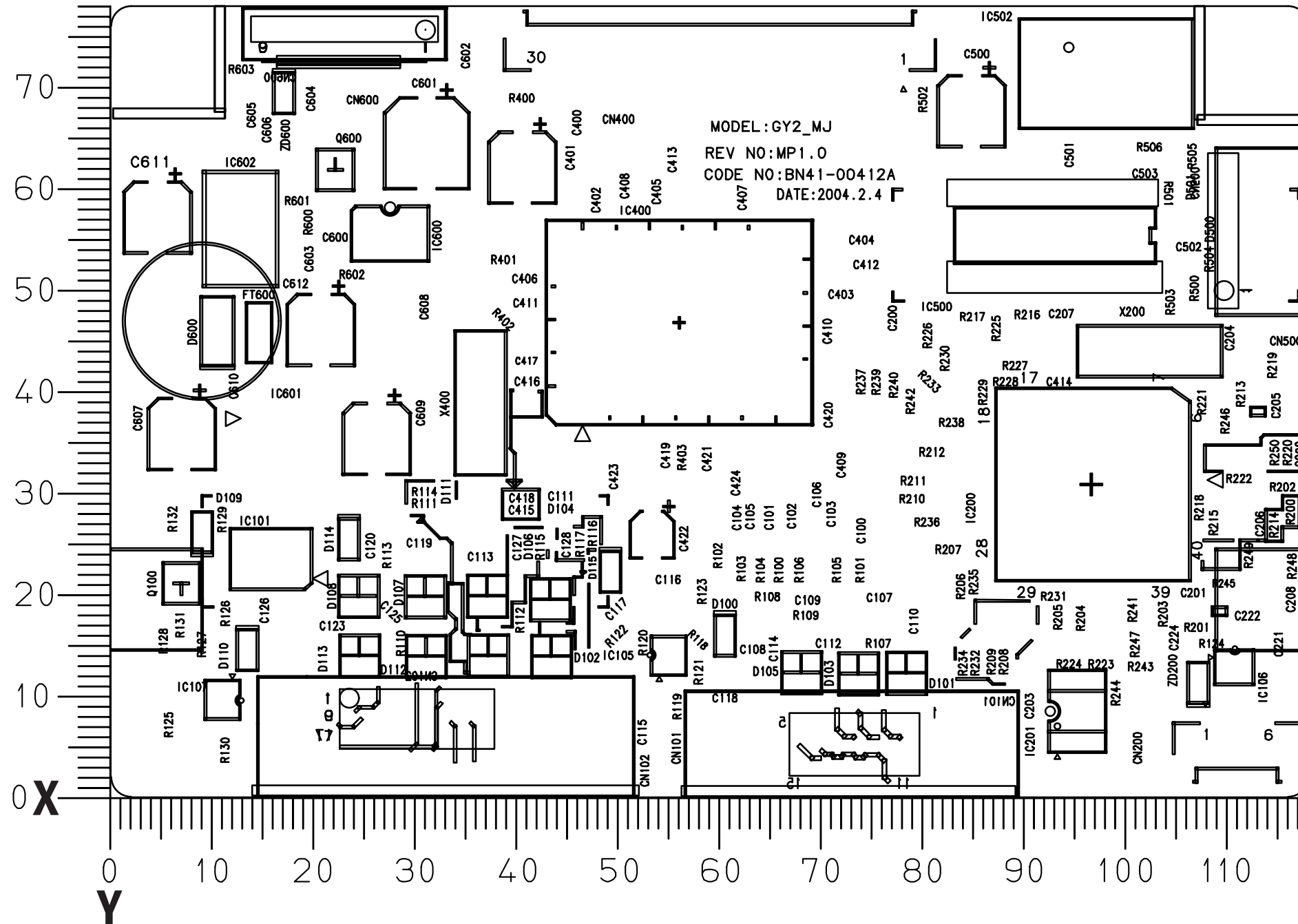
| Loc. No. | Description | X | Y |
|-------------------|---------------------------|-------|------|
| DIODE | | | |
| D100 | DIODE-ZENER | 60.5 | 16.0 |
| D101 | DIODE-SWITCHING | 78.3 | 12.3 |
| D102 | DIODE-SWITCHING | 43.4 | 14.0 |
| D103 | DIODE-SWITCHING | 73.6 | 12.2 |
| D104 | DIODE-SWITCHING | 43.3 | 19.6 |
| D105 | DIODE-SWITCHING | 68.0 | 12.4 |
| D106 | DIODE-SWITCHING | 37.1 | 19.9 |
| D107 | DIODE-SWITCHING | 31.0 | 19.9 |
| D108 | DIODE-SWITCHING | 24.4 | 19.9 |
| D109 | DIODE-ZENER | 9.0 | 26.2 |
| D110 | DIODE-ZENER | 13.5 | 14.6 |
| D111 | DIODE-SWITCHING | 37.2 | 14.0 |
| D112 | DIODE-SWITCHING | 31.1 | 14.0 |
| D113 | DIODE-SWITCHING | 24.5 | 14.0 |
| D114 | DIODE-ZENER | 23.5 | 25.5 |
| D115 | DIODE-ZENER | 49.2 | 22.3 |
| D600 | DIODE-RECTIFIER | 10.5 | 46.1 |
| ZD200 | DIODE-ZENER | 107.1 | 11.3 |
| ZD600 | DIODE-ZENER | 17.1 | 69.6 |
| IC | | | |
| IC101 | IC-EEPROM | 15.8 | 23.6 |
| IC105 | DIODE-TVS | 55.0 | 14.0 |
| IC106 | DIODE-TVS | 110.7 | 12.9 |
| IC107 | DIODE-TVS | 11.0 | 9.6 |
| IC200 | IC-MICROCONTROLLER | 96.6 | 30.9 |
| IC201 | IC-EEPROM | 95.2 | 8.5 |
| IC400 | IC-LCD CONTROLLER | 56.0 | 46.9 |
| IC600 | FET-SILICON | 27.5 | 55.8 |
| IC601 | IC-DUAL VOLTAGE REGULATOR | 17.4 | 35.5 |
| IC602 | IC-VOLTAGE REGULATOR | 12.8 | 56.1 |
| TRANSISTOR | | | |
| Q100 | TR-SMALL SIGNAL | 7.0 | 21.1 |

10-3 MJ17AS*/MJ19AS* ANALOG PCB



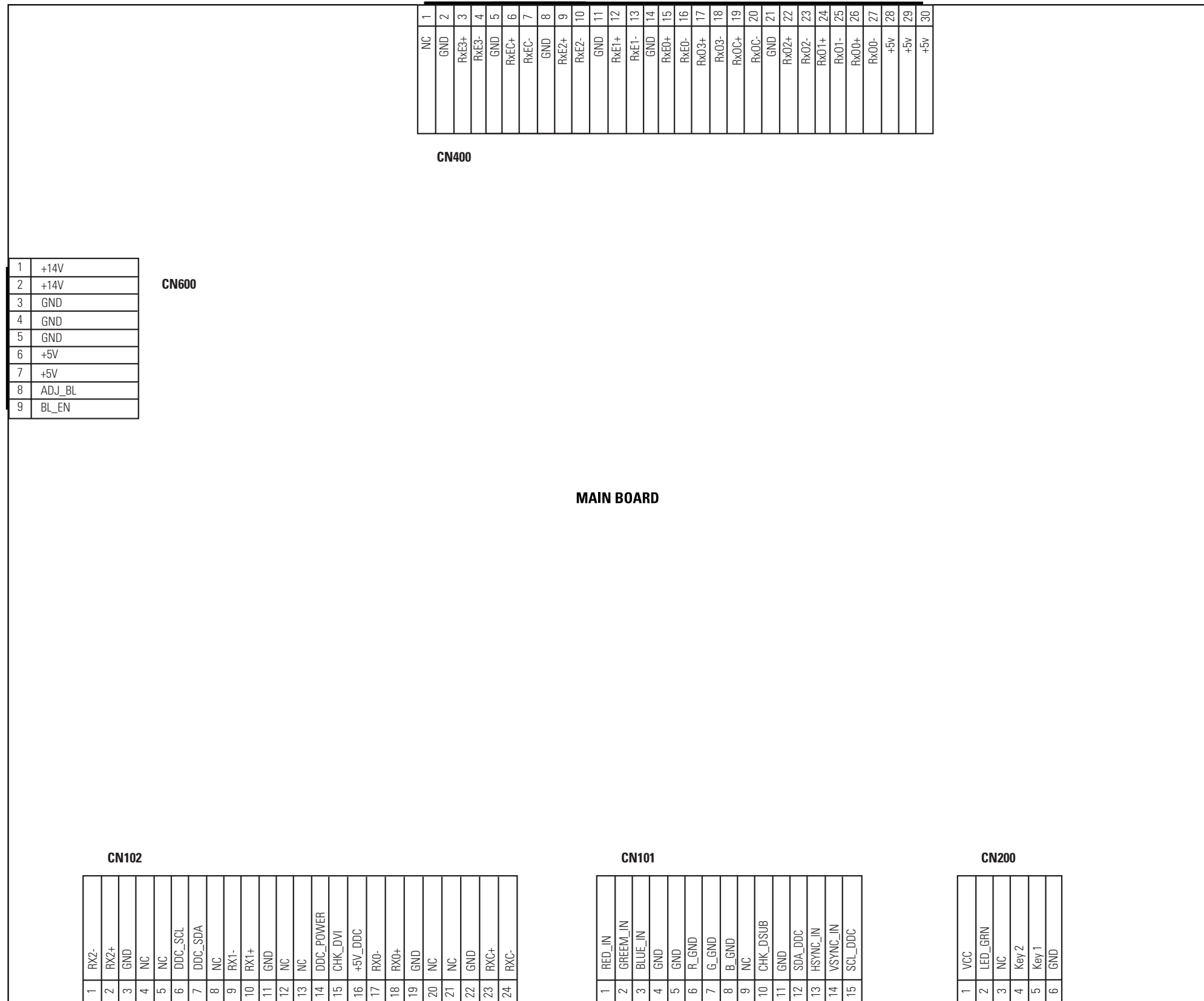
| Loc. No. | Description | X | Y |
|--------------|---------------------------|-------|------|
| DIODE | | | |
| D100 | DIODE-ZENER | 60.5 | 16.0 |
| D101 | DIODE-SWITCHING | 78.3 | 12.3 |
| D103 | DIODE-SWITCHING | 73.6 | 12.2 |
| D105 | DIODE-SWITCHING | 68.0 | 12.4 |
| D600 | DIODE-RECTIFIER | 10.5 | 46.1 |
| ZD200 | DIODE-ZENER | 107.1 | 11.3 |
| ZD600 | DIODE-ZENER | 17.1 | 69.6 |
| IC | | | |
| IC105 | DIODE-TVS | 55.0 | 14.0 |
| IC106 | DIODE-TVS | 110.7 | 12.9 |
| IC200 | IC-MICROCONTROLLER | 96.6 | 30.9 |
| IC201 | IC-EEPROM | 95.2 | 8.5 |
| IC400 | IC-LCD CONTROLLER | 56.0 | 46.9 |
| IC600 | FET-SILICON | 27.5 | 55.8 |
| IC601 | IC-DUAL VOLTAGE REGULATOR | 17.4 | 35.5 |

10-4 MJ17BS*/MJ19BS* DIGITAL PCB



| Loc. No. | Description | X | Y |
|-------------------|---------------------------|-------|------|
| DIODE | | | |
| D100 | DIODE-ZENER | 60.5 | 16.0 |
| D101 | DIODE-SWITCHING | 78.3 | 12.3 |
| D102 | DIODE-SWITCHING | 43.4 | 14.0 |
| D103 | DIODE-SWITCHING | 73.6 | 12.2 |
| D104 | DIODE-SWITCHING | 43.3 | 19.6 |
| D105 | DIODE-SWITCHING | 68.0 | 12.4 |
| D106 | DIODE-SWITCHING | 37.1 | 19.9 |
| D107 | DIODE-SWITCHING | 31.0 | 19.9 |
| D108 | DIODE-SWITCHING | 24.4 | 19.9 |
| D109 | DIODE-ZENER | 9.0 | 26.2 |
| D110 | DIODE-ZENER | 13.5 | 14.6 |
| D111 | DIODE-SWITCHING | 37.2 | 14.0 |
| D112 | DIODE-SWITCHING | 31.1 | 14.0 |
| D113 | DIODE-SWITCHING | 24.5 | 14.0 |
| D114 | DIODE-ZENER | 23.5 | 25.5 |
| D115 | DIODE-ZENER | 49.2 | 22.3 |
| D600 | DIODE-RECTIFIER | 10.5 | 46.1 |
| ZD200 | DIODE-ZENER | 107.1 | 11.3 |
| ZD600 | DIODE-ZENER | 17.1 | 69.6 |
| IC | | | |
| IC101 | IC-EEPROM | 15.8 | 23.6 |
| IC105 | DIODE-TVS | 55.0 | 14.0 |
| IC106 | DIODE-TVS | 110.7 | 12.9 |
| IC107 | DIODE-TVS | 11.0 | 9.6 |
| IC200 | IC-MICROCONTROLLER | 96.6 | 30.9 |
| IC201 | IC-EEPROM | 95.2 | 8.5 |
| IC400 | IC-LCD CONTROLLER | 56.0 | 46.9 |
| IC600 | FET-SILICON | 27.5 | 55.8 |
| IC601 | IC-DUAL VOLTAGE REGULATOR | 17.4 | 35.5 |
| TRANSISTOR | | | |
| Q100 | TR-SMALL SIGNAL | 7.0 | 21.1 |

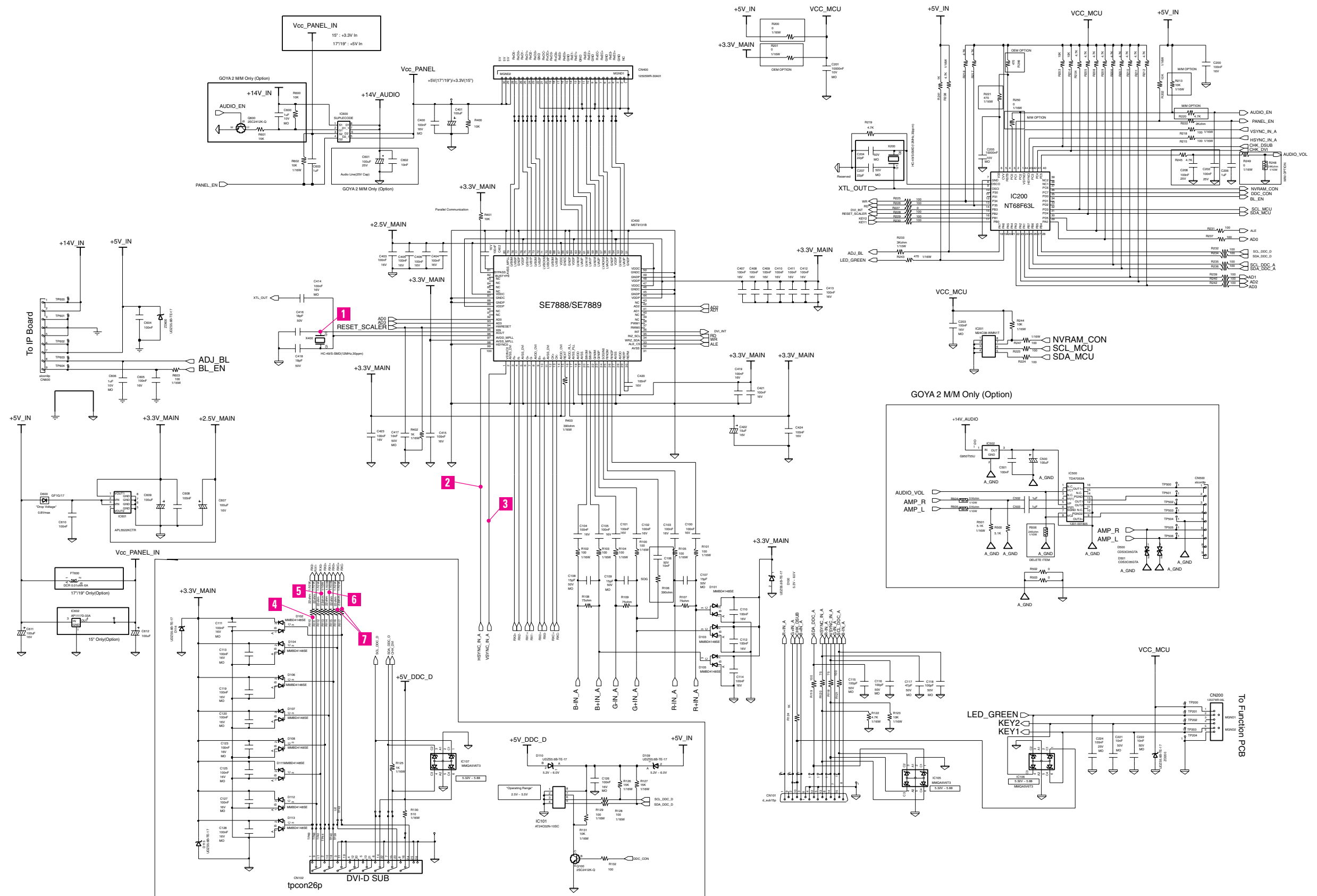
9 Wiring Diagram



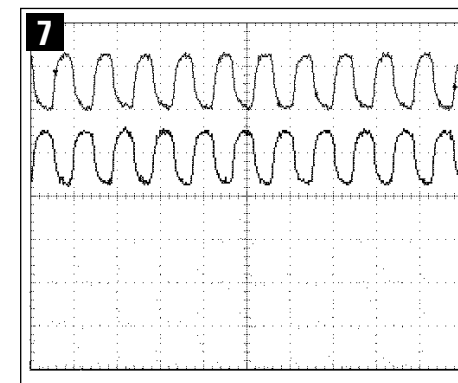
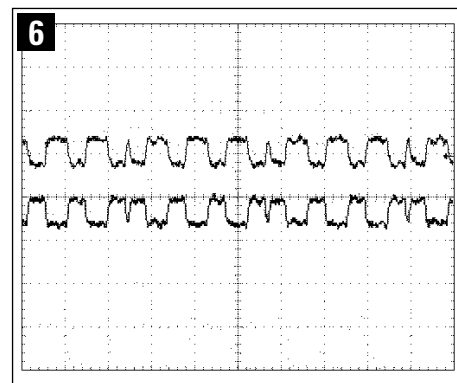
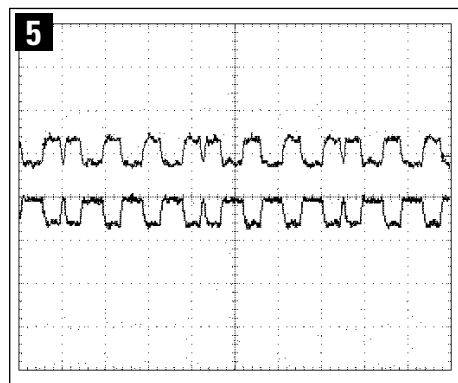
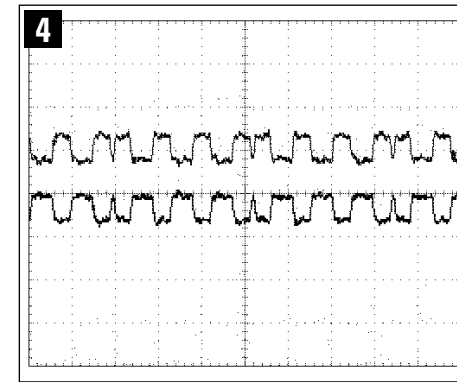
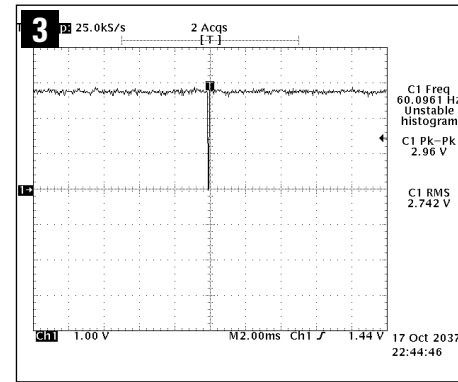
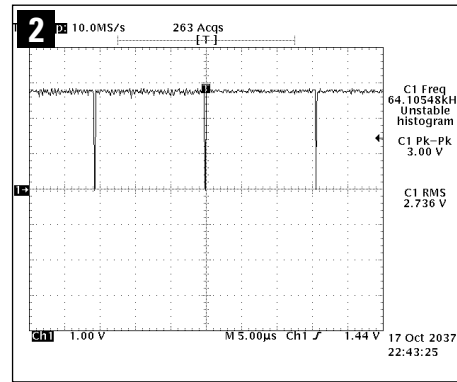
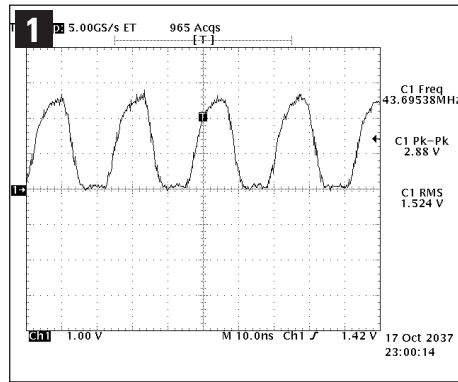
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11 Schematic Diagrams

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11 Schematic Diagrams



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