

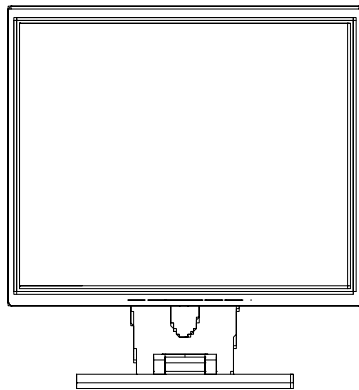


TFT-LCD MONITOR

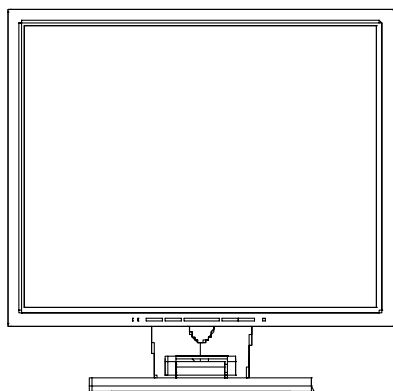
Chassis	Model
NB17A*	172N
NB19A*	192N

SERVICE Manual

TFT-LCD MONITOR



NB17A*



NB19A*

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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*).

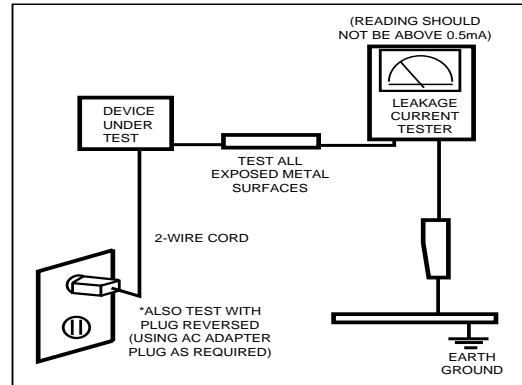


Figure 1-1. Leakage Current Test Circuit

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 Specifications

Item	Description	
	NB17A*	NB19A*
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally black transmissive, 17-Inch viewable, 0.264 (H) x 0.264 (V) mm pixel pitch	TFT-LCD panel, RGB vertical stripe, normally black transmissive, 19-Inch viewable, 0.298 (H) x 0.298(V) mm pixel pitch
Scanning Frequency	Horizontal : 31 kHz ~ 81 kHz (Automatic) Vertical : 56 Hz ~ 75 Hz	Horizontal : 31 kHz ~ 81 kHz (Automatic) Vertical : 56 Hz ~ 85 Hz
Display Colors	16.2 Million colors	16.7 Million colors
Maximum Resolution	Horizontal : 1280 Pixels Vertical : 1024 Pixels	
Input Video Signal	Analog, 0.714 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	338 \pm 3 mm / 270 \pm 3 mm	376.32 \pm 3 mm / 301.056 \pm 3 mm
AC power voltage & Frequency	AC 90 ~ 264 Volts, 60/50 Hz \pm 3 Hz	
Power Consumption	42 W (max), 40W (normal)	42 W (max), 40W (normal)
Dimensions Set (W x D x H)	14.5 x 15.5 x 7.0 Inches (368.2 x 394.3 x 177.0mm) With stand 14.5 x 12.2 x 2.3 Inches (368.2x 310.1x 58.8 mm) Without stand	16.4 x 16.2 x 8.1 Inches (416.3 x 411.7 x 207.0 mm) With stand 16.4 x 13.5 x 2.3 Inches (416.3 x 342.0 x 57.9 mm) Without stand
Package	17.9 x 7.7 x 19.1 Inches (454x 195 x 483 mm)	20.1 x 7.7 x 20.0 Inches (510x 195 x 507 mm)
Weight (Set/Package)	4.7 kg (10.4 lbs) / 6.0 kg (13.2 lbs)	5.95 kg (13.1 lbs) / 7.8 kg (17.2 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"> • NB17A*/NB19A* complies with SWEDAC (TCO 99) recommendations for reduced electromagnetic fields. • Designs and specifications are subject to change without prior notice. 		

2-2 Pin Assignments

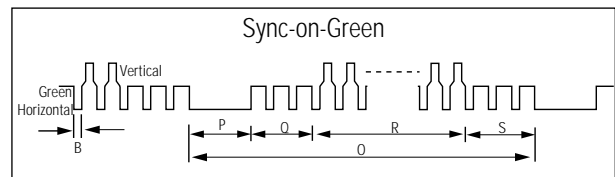
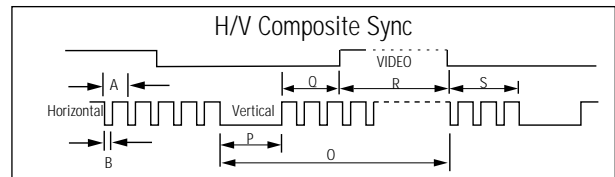
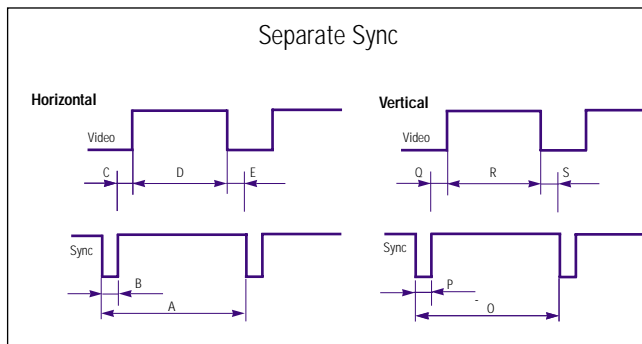
Pin No.	Sync Type	15-Pin D-Sub Signal Cable Connector		
		Separate	Composite	Sync-on-green
1		Red	Red	Red
2		Green	Green	Green + H/V Sync.
3		Blue	Blue	Blue
4		GND	GND	GND
5		DDC Return (GND)	DDC Return (GND)	DDC Return (GND)
6		GND-R	GND-R	GND-R
7		GND-G	GND-G	GND-G
8		GND-B	GND-B	GND-B
9		DDC Power 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)

2-3 Timing Chart

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

Table 2-1 Timing Chart

Mode Timing	IBM		VESA						
	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 (Analog)	1280/75 Hz 1280 x 1024 (Analog)
fH (kHz)	31.469	31.469	37.500	37.879	46.875	48.363	60.023	63.981	79.975
A μ sec	31.777	31.778	26.667	26.400	21.333	20.677	16.660	11.852	12.504
B μ sec	3.813	3.813	2.032	3.200	1.616	2.092	1.219	1.037	1.067
C μ sec	1.589	1.589	3.810	2.200	3.232	2.462	2.235	2.296	1.837
D μ sec	26.058	26.058	20.317	20.000	16.162	15.754	13.003	9.259	9.481
E μ sec	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



A : Line time total	B : Horizontal sync width	O : Frame time total	P : Vertical sync width
C : Back porch	D : Active time	Q : Back porch	R : Active time
E : Front porch		S : Front porch	

Memo

3 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the NB17A*/NB19A* monitor.

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 metal instruments to pry apart the cabinet.
 3. R/Cover opening jig : BH81-00001A



1. Place monitor face down on cushioned table. Remove 2 screws from grip on the stand and remove signal cable. (CAUTION : Remove screw grip don't on the stand than fall the stand from the top side of the foot.)



2. Remove front cover and remove back cover.

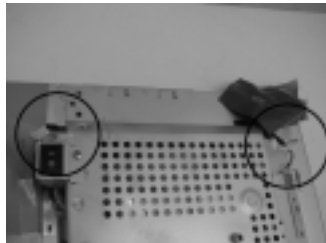
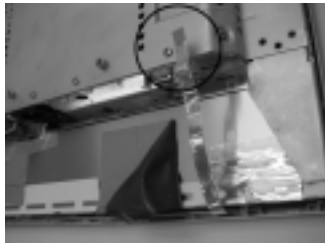


(NB17A*)



(NB19A*)

3. Remove 2 screws shield TCO and remove 1 screw shield power.



4. Remove casket tape and disconnect function cable, inverter cable.

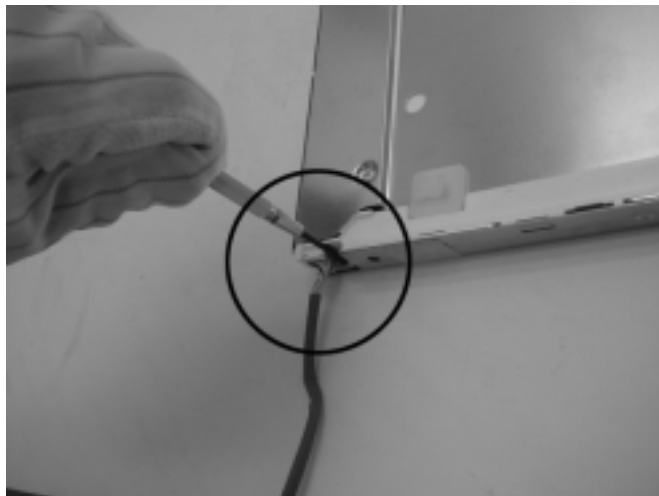


5. Disconnect LVDS cable and remove 4 screws from the shield.
(the corner of the shield 4 screws)



6. Lift up shield from the panel.

3-2 Replacement Order of Lamp Assemblies

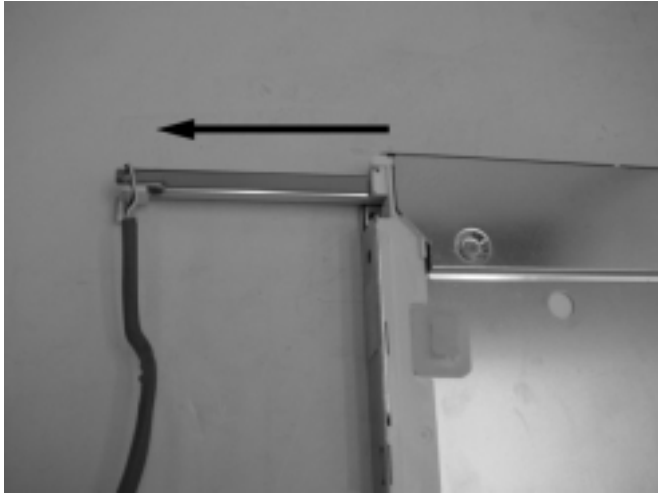


1. Remove 2 screws from LCD module.
(top & bottom)

Note : Always clear the work table before operation.



2. Slide out the lamp unit.
Do not use excessive force.



3. Take out the lamp unit from the LCD module.



4. This picture shows the complete lamp ass'y removal from LCD module.

* Replacement of lamp unit should be done at the power off state and with a recommended clean bench condition.

3-3 Reassembly

Reassembly procedures are in the reverse order of disassembly procedures.

Memo

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. If OSD settings vary with relevant sales region, OSD language for 'Auto Color' displays default language setting for each region.
2. Press the "Exit" key for 5 seconds.

* Note : For models supporting the 4 languages (English, Simplified Chinese, Japanese, Korean), select English and press and hold the 'Exit' 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.

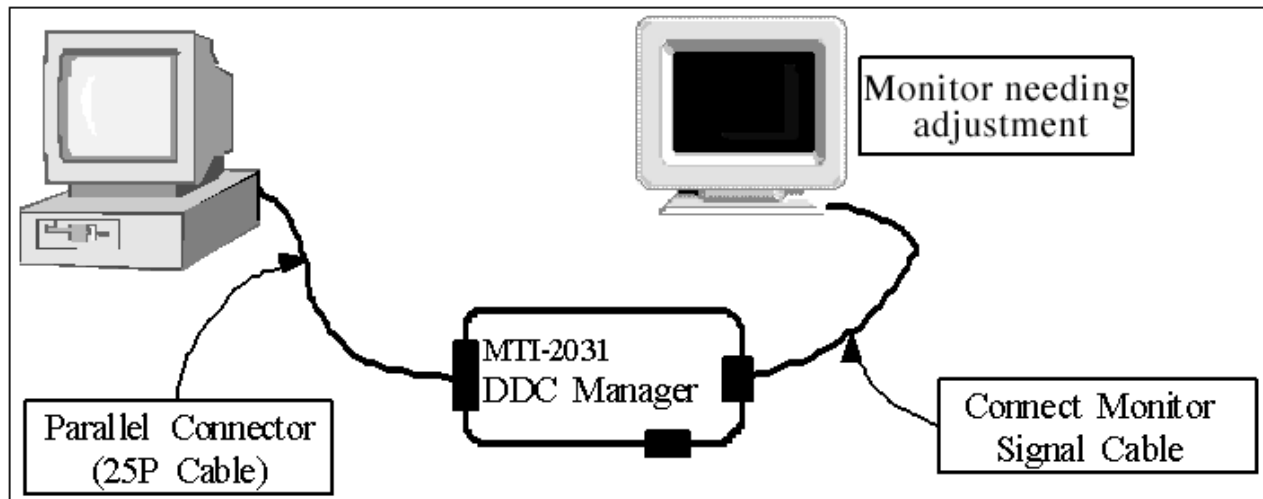


Figure 1.

4-4 OSD Adjustment When Replacing Panel

1. Adjust brightness and contrast to 0. Then, press the exit 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 exit key.
3. Service function OSD will be displayed.

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

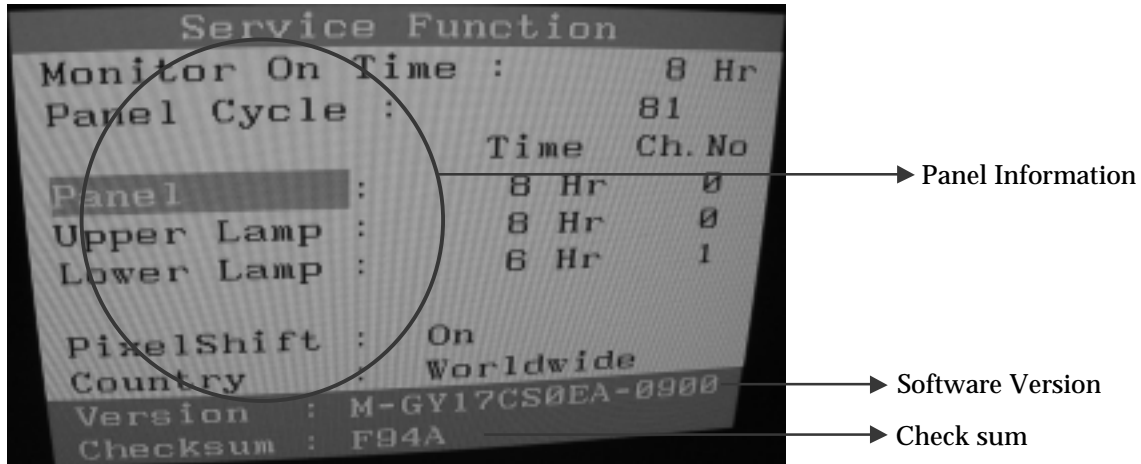


Figure 2. The example of service function OSD

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 check sum.

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 “Country”, “Pixel Shift”, “Lower Lamp”, “Upper Lamp”.

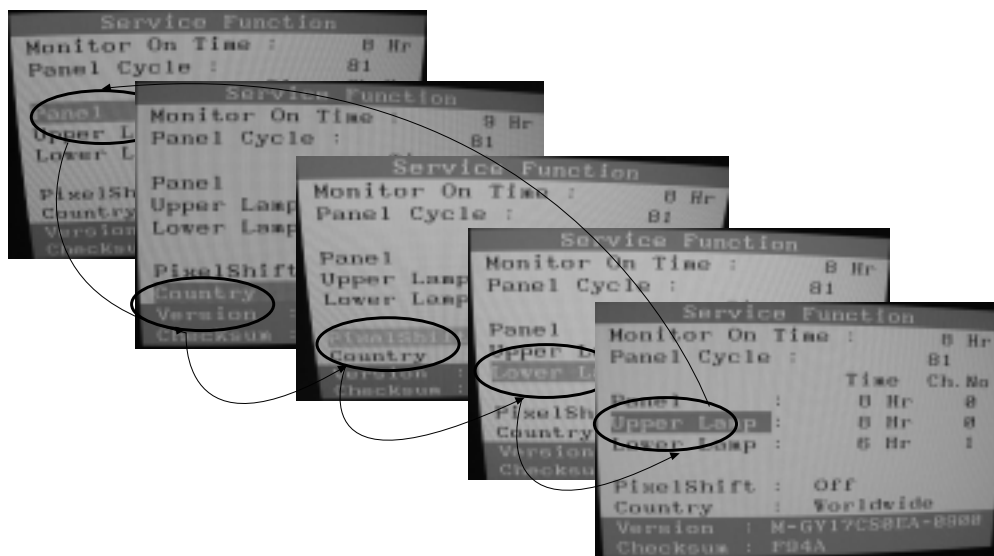


Figure 3.

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).

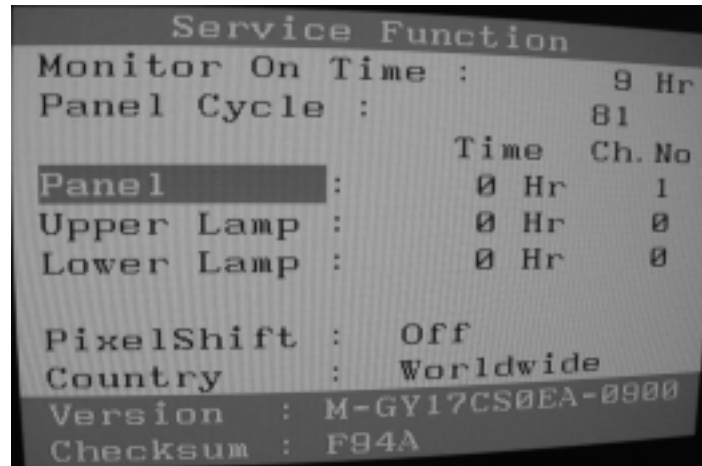


Figure 4.

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).

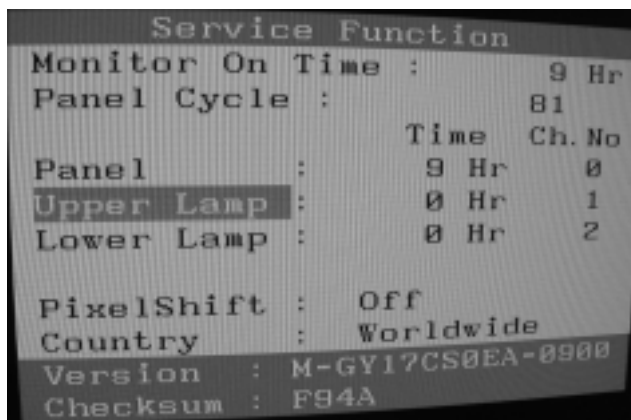


Figure 5.

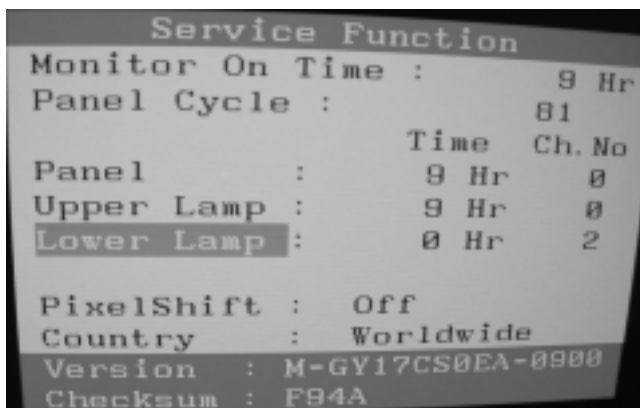


Figure 6.

4-6-5 Pixel shift and language selection change

* Note : Use the '-' key to vary values for new pixel shift and country menu.

1. Pixel shift : on → off

- When a same picture is displayed with no change for an extended period of time, this function prevents the display panel from image sticking.

* On for '0 x 01' with EEPROM 0x2E, Off for others; Always restart the monitor after EEPROM adjustment.

- Motion path : see Figure 7. One-step movement requires 4 minutes (total of 32 steps : 128 minutes)

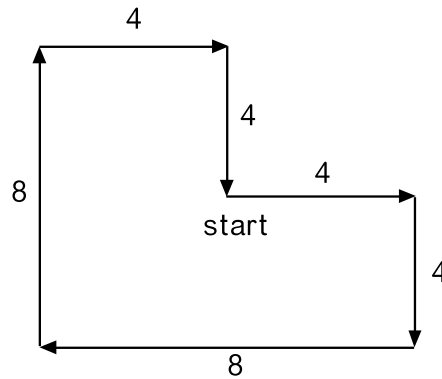


Figure 7.

- Location is reset.

- a) the monitor is restarted
- b) image mode is adjusted
- c) user adjusts a key

* Note : Pixel shift is not available in service menu.

2. Country : Worldwide → Korean → Chinese → Japanese

- This function enables to select relevant OSD language for each region / country.

- Worldwide : 7 languages (English, German, Spanish, French, Italian, Swedish, Russian)
- Korean : 2 languages (Korean, English)
- Chinese : 2 languages (Simplified Chinese, English)
- Japanese : 2 languages (Japanese, English)

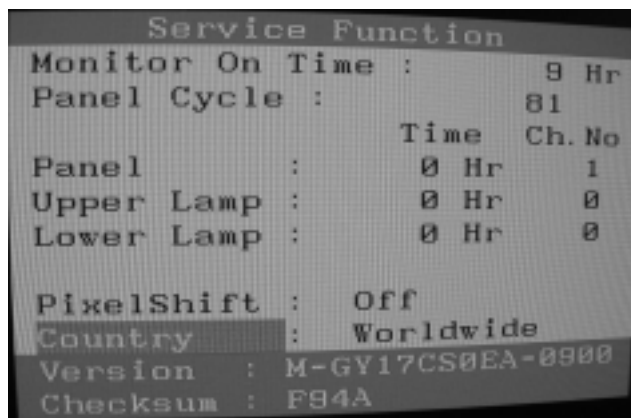


Figure 8.

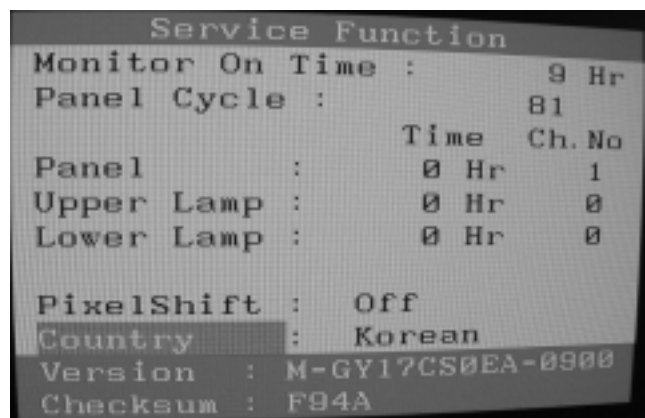


Figure 8-1.

```

Service Function
Monitor On Time :      9 Hr
Panel Cycle :         81
                        Time Ch.No
Panel      :          0 Hr   1
Upper Lamp :          0 Hr   0
Lower Lamp :          0 Hr   0

PixelShift : Off
Country    : Chinese
Version   : M-GY17CS0EA-0900
Checksum  : F94A
    
```

Figure 8-2.

```

Service Function
Monitor On Time :      9 Hr
Panel Cycle :         81
                        Time Ch.No
Panel      :          0 Hr   1
Upper Lamp :          0 Hr   0
Lower Lamp :          0 Hr   0

PixelShift : Off
Country    : Japanese
Version   : M-GY17CS0EA-0900
Checksum  : F94A
    
```

Figure 8-3.

```

Service Function
Monitor On Time :      9 Hr
Panel Cycle :         81
                        Time Ch.No
Panel      :          0 Hr   1
Upper Lamp :          0 Hr   0
Lower Lamp :          0 Hr   0

PixelShift : On
Country    : Worldwide
Version   : M-GY17CS0EA-0900
Checksum  : F94A
    
```

Figure 9.

```

Service Function
Monitor On Time :      8 Hr
Panel Cycle :         81
                        Time Ch.No
Panel      :          8 Hr   0
Upper Lamp :          8 Hr   0
Lower Lamp :          6 Hr   1

PixelShift : Off
Country    : Worldwide
Version   : M-GY17CS0EA-0900
Checksum  : F94A
    
```

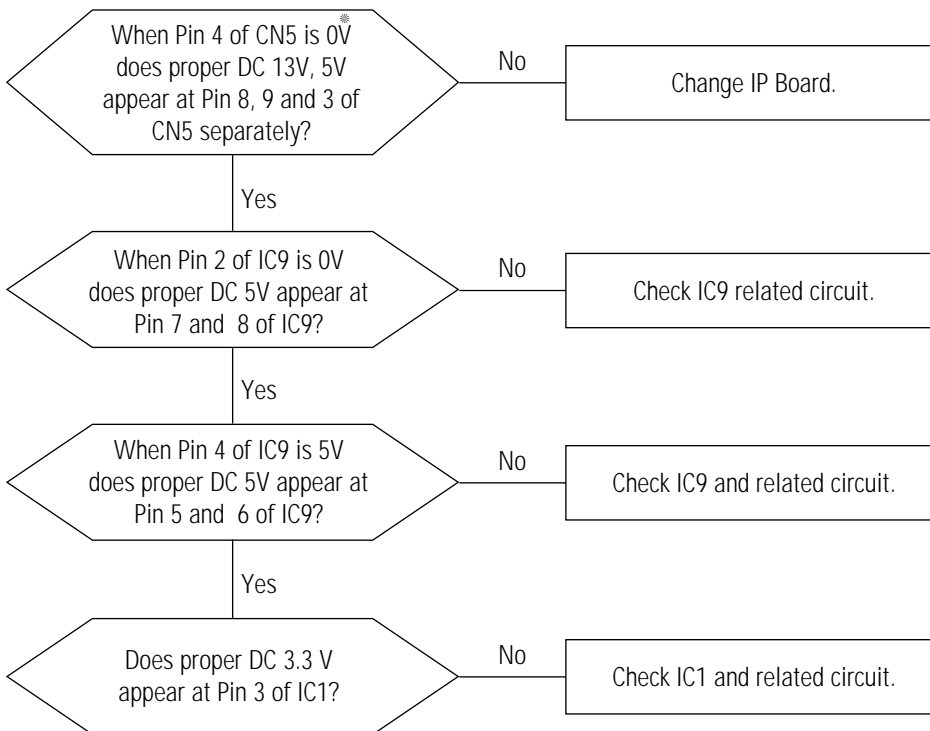
Figure 9-1.

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5 Troubleshooting

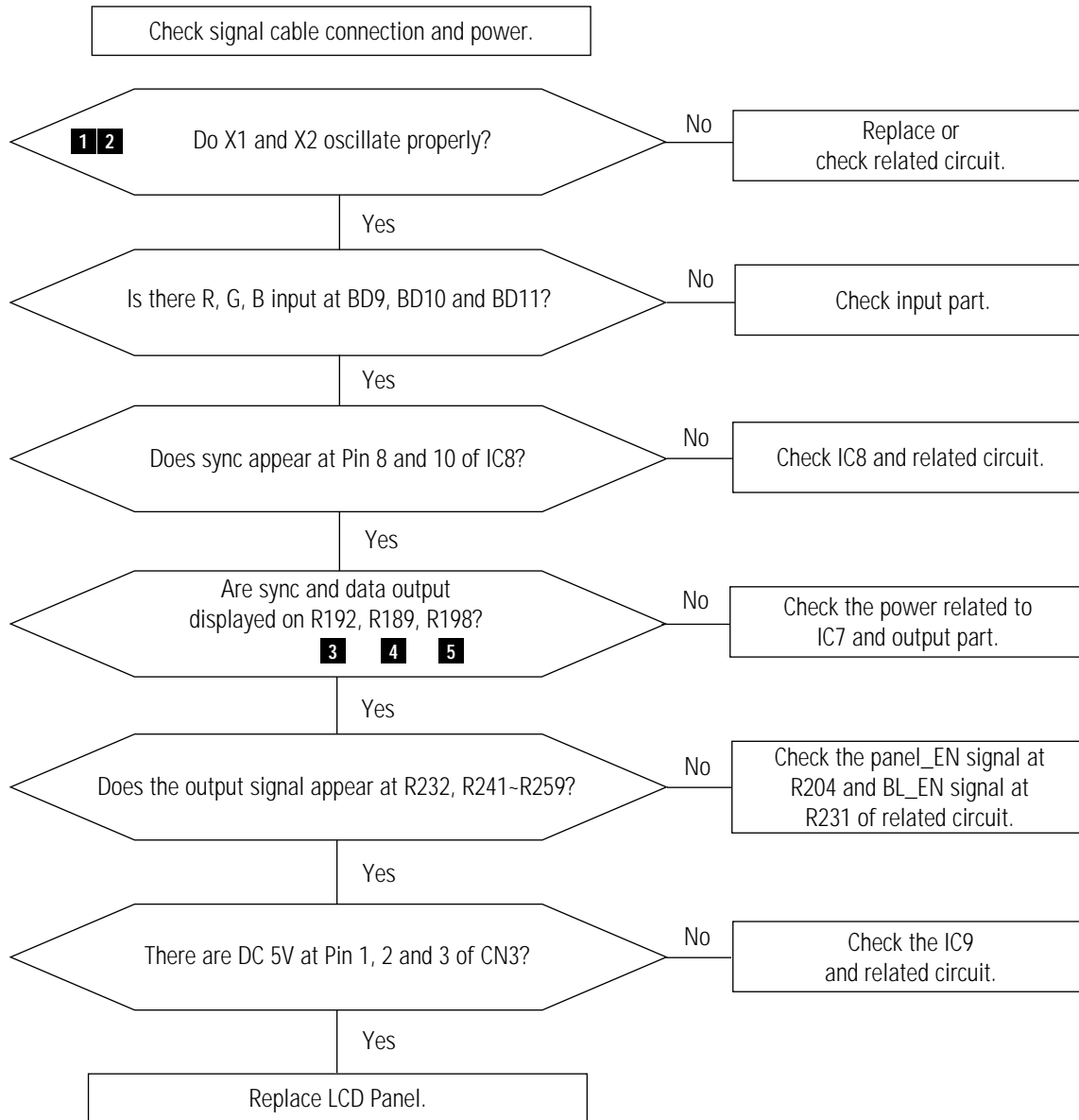
- Notes:**
- Before troubleshooting, setup the PC's display as below.
 - Resolution: 1280 x 1024
 - H-frequency: 64 kHz
 - V-frequency: 60 Hz
 - If no picture appears, make sure the power cord is correctly connected.
 - Check the following circuits.
 - No raster appears: Audio PCB, SMPS PCB, Main PCB
 - 13V develop but no screen: Main PCB
 - 13V does not develop: Main PCB
 - If you push and hold the "EXIT" button for more than 5 seconds, the monitor automatically returns to the factory preset.

5-1 No Power

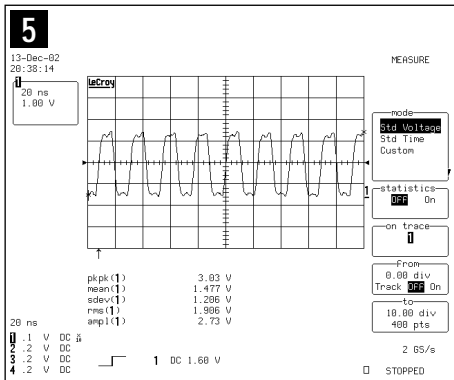
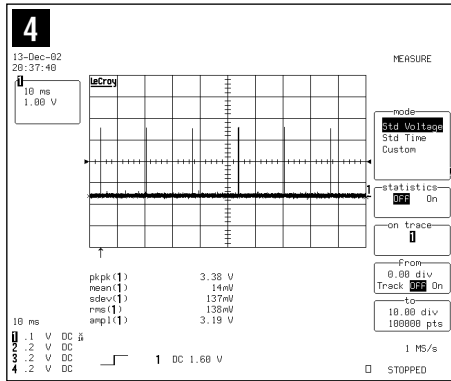
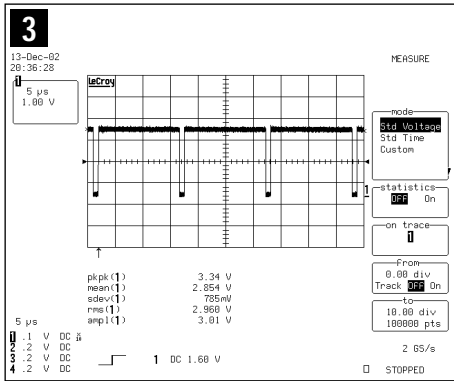
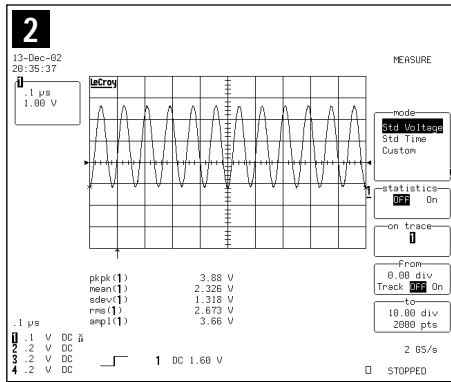
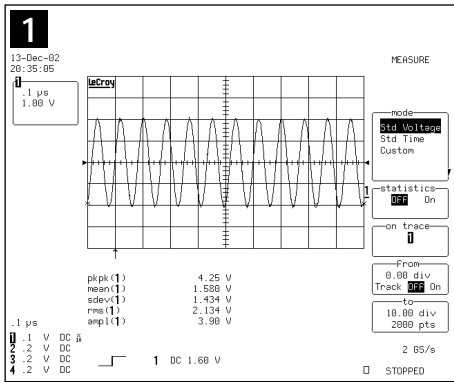


* 0V means power on state.
When the monitor work well except DPMS and power switch off,
0V should be applied to number 4 of CN5.

5-2 No Video



WAVEFORMS



Memo

7 Electrical Parts List

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

URL : <http://ecms.samsungelectronics.com/>

7-1-1 NB17A* Main PCB Parts

Loc. No.	Code No.	Description	Specification	Remarks
-	BN94-00476K	ASSY PCB MAIN EJ ET	NB17ASPS/EDC,NETHERLANDS	
CIS1	0202-001044	SOLDER-WIRE.	S63S-W3.0,S63S,D3.63Sn/37Pb,-	SNA
CIS2	0204-001677	FLUX	DF-201TVS,MIX,0.820,FLUX 13%,G	SNA
CIS3	0202-001222	SOLDER-WIRE FLUX	RS-107,RS60-1.2AA,D1.2,SN60/PB40,-	SNA
CIS4	0204-001095	THINNER	#4520,-,-,-	SNA
CIS8	BN39-00207E	WIRE HARNESS	GH17AS,UL1617#22,UL/CSA,3(2)P,85MM,#22,JRA-1102HS(W),YH396-03V,BK,1617#22,SJ02-	
CIS9	BN39-00232A	LEAD CONNECTOR-ASSY	MP19PO,UL1571#30,UL/CSA,30P,150MM,#30,12507HS-30,FI-X30H,BK,1571#30,CORE	
CN1	3722-000117	JACK-DC POWER	3P,3.5MM,AG,BLK,NO	SNA
CN4	3701-001219	CONNECTOR-DSUB	15P,3R,FEMALE,ANGLE,AUF	
CN5	3711-004712	CONNECTOR-HEADER	BOX,9P,1R,2mm,STRAIGHT,SN	
S/PB+SMP+M/PB	6003-000117	SCREW-TAPTITE	BH,+B,M3,L6,ZPC(YEL),SWRCH18A	SNA
SH/PCB+SH/D_SUB	6003-000117	SCREW-TAPTITE	BH,+B,M3,L6,ZPC(YEL),SWRCH18A	SNA
SH/PCB+SH/POW	6003-000117	SCREW-TAPTITE	BH,+B,M3,L6,ZPC(YEL),SWRCH18A	SNA
MICOM	BN97-00221W	ASSY MICOM	NB17AS	
CIS	BN82-00093X	A/S MICOM	NB17AS	SNA
IC7	0903-001266	IC-MICROCONTROLLER	NT68F63,8BIT,PLCC,44P,653MIL,12MHZ,ST,CMOS,PLASTIC,5V,-,0TO-70C,256B,4KB,-,MC	SNA
-	BN97-00223W	ASSY SMD	NB17ASPS/EDC,NETHERLAND	SNA
BD1	3301-001653	CORE-FERRITE BEAD	AB,470OHM,2X1.25X0.9MM,2000MA,TP,L,0.070HM	SNA
BD10	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
BD11	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
BD12	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
BD13	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
BD2	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
BD3	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
BD4	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
BD5	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
BD6	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
BD7	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
BD8	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
BD9	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
C1	2402-001086	C-AL,SMD	100UF,20%,16V,WT,TP,6.6X6.6X5.3	
C11	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C12	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C13	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C14	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C15	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C16	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C17	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C18	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C19	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C20	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C21	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C22	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C23	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C24	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C25	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C26	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C27	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	

7 Electrical Parts List

Loc. No.	Code No.	Description	Specification	Remarks
C28	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C29	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C3	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C30	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C31	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C33	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C34	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C35	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C36	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C37	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C38	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C39	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C4	2401-002463	C-AL	470uF,20%,16V,GP,TP,8x11.5,5	
C40	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C41	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C42	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C44	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C45	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C46	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C47	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C48	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C49	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C5	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C50	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C52	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C53	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C54	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C55	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C56	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C57	2203-000384	C-CERAMIC,CHIP	0.015NF,5%,50V,COG,TP,1608	
C58	2203-000384	C-CERAMIC,CHIP	0.015NF,5%,50V,COG,TP,1608	
C6	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C62	2203-000626	C-CERAMIC,CHIP	0.022NF,5%,50V,COG,TP,1608	
C63	2203-000626	C-CERAMIC,CHIP	0.022NF,5%,50V,COG,TP,1608	
C65	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C66	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C67	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C68	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C69	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C7	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C70	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C71	2203-000315	C-CERAMIC,CHIP	0.12NF,5%,50V,COG,TP,1608	
C72	2203-000236	C-CERAMIC,CHIP	0.1NF,5%,50V,COG,TP,1608	
C73	2203-000236	C-CERAMIC,CHIP	0.1NF,5%,50V,COG,TP,1608	
C74	2203-005065	C-CERAMIC,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608	
C75	2203-005065	C-CERAMIC,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608	
C76	2203-005065	C-CERAMIC,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608	
C77	2203-001652	C-CERAMIC,CHIP	470nF,+80-20%,16V,Y5V,TP,1608	
C78	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C79	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C8	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C80	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C81	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C82	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C83	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C84	2203-000975	C-CERAMIC,CHIP	47nF,10%,25V,X7R,TP,1608,-	

Loc. No.	Code No.	Description	Specification	Remarks
C85	2402-001158	C-AL,SMD	1UF,20%,50V,WT,TP,4X5.2MM	
CIS5	0202-001162	SOLDER-CREAM	RMA-20-21L,S63,-,SN63/PB36.6/AGO.4,FLUX9.5%	SNA
CN3	3711-004070	CONNECTOR-HEADER	BOX,30P,1R,1.25mm,SMD-A,SN	
CN6	3708-000461	CONNECTOR-FPC/FFC/PIC	8P,1MM,SMD-A,AUF	SNA
D1	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D15	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D16	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D2	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D3	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
FT1	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
FT11	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT12	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
FT13	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
FT2	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
FT3	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
FT4	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
FT5	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
FT6	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT7	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT8	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT9	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
IC1	1203-001293	IC-POSI.FIXED REG.	033,TO-252,3P,6.5MIL,PLASTIC,3	
IC10	0505-001170	FET-SILICON	SI9933ADY-T1,P,-20V,3.4A,0.06ohm,2W,SO-8	
IC11	0505-001772	FET-SILICON	FDS9933A,P,-20V,-3.8A,0.075OHM,2W,SO-8	
IC12	1003-001590	IC-LCD CONTROLLER	MST9111,QFP,128P,20X14MM,-,-,TR,PLASTIC,3.3V,-20TO+85C,-,-,-	
IC2	1203-002986	IC-VOLTAGE REGULATOR	7812R,DPAK,3P,6.6x6.1MM,PLASTIC,11.5/12.5V,-,OTO+125C,1A,-,TP	SNA
IC3	1203-002450	IC-VOLTAGE REGULATOR	MC33375ST-2.5T3,SOT-223,4P,137MIL,PLASTIC,2.475/2.525V,-,40TO+125C,300MA,-,TP	
IC5	1103-001023	IC-EEPROM	524C80D81,1028x8Bit,SOP,8P,150MIL,10mS,5V,10%,PLASTIC,0to+70C,110uA,CMOS,TP	
IC7_SOCKET	3704-000001	SOCKET-IC	44P,PLCC,SN,-	
IC8	0803-000117	IC-TTL	74F14,INVERTER,SOP,14P,150MIL,	
IC9	0505-001772	FET-SILICON	FDS9933A,P,-20V,-3.8A,0.075OHM,2W,SO-8	
MP1.0	BN41-00313A	PCB MAIN	NB17AS,FR-4,2L,1.0,1.6T,123.110,2A	SNA
Q1	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q2	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q4	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
R177	2007-000075	R-CHIP	220ohm,5%,1/10W,TP,1608	
R178	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R179	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R183	2007-000075	R-CHIP	220ohm,5%,1/10W,TP,1608	
R184	2007-000075	R-CHIP	220ohm,5%,1/10W,TP,1608	
R185	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R186	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R187	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R188	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R189	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R190	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R191	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R192	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R193	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R194	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R195	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R196	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R197	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R198	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R199	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R200	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	

7 Electrical Parts List

Loc. No.	Code No.	Description	Specification	Remarks
R201	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R202	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R203	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R204	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R205	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R206	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R207	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R208	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R209	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R210	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R211	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R212	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R213	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R214	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R215	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R217	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R218	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R219	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R220	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R221	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R222	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R223	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R225	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R226	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R227	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R228	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R229	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R231	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R232	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R233	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	
R234	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	
R235	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	
R236	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	
R237	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	
R238	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	
R239	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	
R240	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	
R241	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R242	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R243	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R244	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R245	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R246	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R247	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R248	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R249	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R250	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R251	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R252	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R253	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R254	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R255	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R256	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R257	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R258	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R259	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
R260	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R261	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R262	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R263	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R264	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R265	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R266	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R267	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R268	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R269	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R270	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R271	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R272	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R273	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R274	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R275	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R276	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R279	2007-000109	R-CHIP	1Mohm,5%,1/10W,TP,1608	
R283	2007-000077	R-CHIP	470ohm,5%,1/10W,TP,1608	
R287	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R290	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R294	2007-000821	R-CHIP	390ohm,1%,1/10W,TP,1608	
R295	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R296	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R297	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R298	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R299	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R300	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R301	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R302	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R303	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R304	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R306	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R307	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R308	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R309	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R310	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	
R311	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	
R312	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	
R313	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R314	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
X1	2801-003773	CRYSTAL-SMD	12MHZ,30PPM,28-AAN,20PF,500HM,TP	
X2	2801-003667	CRYSTAL-SMD	14.3182MHZ,50PPM,28-AAN,16,500HM,TP	
ZD1	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
ZD2	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
ZD3	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
ZD4	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
ZD5	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
ZD7	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
CIS	BN96-00551A	ASSY MISC P-SHIELD/PCB	NB17AS/BS,SECC T1.0,(EL/CL/PL)	SNA
CIS	BN96-00552D	ASSY MISC P-SHIELD D SUB	NB17AS/BS,CORE D TYPE,SPT E T0.5	SNA

7-1-2 NB17A* Others

Loc. No.	Code No.	Description	Specification	Remarks
-	BN90-00408E	ASSY STAND	GH17BSPS/EDC,EDC,ABS HB,BK07	
CIS	BN96-00094C	ASSY STAND P-MULTI-MEDIA	GH17BS,ABS HB ,BK07	
-	6005-001005	SCREW-WOOD	HH,+ ,M4.0,L19,NI PLT,SWRCH18A	SNA
-	BN60-00002A	SCREW-MACHINE	-,SWCH18A,-,L10,BH,+,-,M4,NI	SNA
C101	BN81-00050A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF160010,SEDA	SNA
C102	BN81-00050A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF160010,SEDA	SNA
C103	BN81-00057A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50472,SEDA	SNA
C104	BN81-00057A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50472,SEDA	SNA
C105	BN81-00054A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50153,SEDA	SNA
C106	BN81-00054A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50153,SEDA	SNA
C107	BN81-00058A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50563,SEDA	SNA
C108	BN81-00058A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50563,SEDA	SNA
C109	BN81-00056A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50224,SEDA	SNA
C110	BN81-00056A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50224,SEDA	SNA
C111	BN81-00051A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF160022,SEDA	SNA
C112	BN81-00051A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF160022,SEDA	SNA
C113	BN81-00049A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF100470,SEDA	SNA
C114	BN81-00049A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF100470,SEDA	SNA
C115	BN81-00055A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50154,SEDA	SNA
C116	BN81-00055A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50154,SEDA	SNA
C117	BN81-00049A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF100470,SEDA	SNA
C118	BN81-00049A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF100470,SEDA	SNA
C119	BN81-00052A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF160100,SEDA	SNA
C120	BN81-00046A	A/S-CAP/CERAMIC	GH17ASPS/XAZ,5CD50103,SEDA	SNA
C121	BN81-00053A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF160220,SEDA	SNA
C122	BN81-00048A	A/S-CAP/CERAMIC	GH17ASPS/XAZ,5CD50821,SEDA	SNA
C123	BN81-00048A	A/S-CAP/CERAMIC	GH17ASPS/XAZ,5CD50821,SEDA	SNA
C124	BN81-00047A	A/S-CAP/CERAMIC	GH17ASPS/XAZ,5CD50104,SEDA	SNA
C125	BN81-00047A	A/S-CAP/CERAMIC	GH17ASPS/XAZ,5CD50104,SEDA	SNA
C126	BN81-00047A	A/S-CAP/CERAMIC	GH17ASPS/XAZ,5CD50104,SEDA	SNA
C127	BN81-00047A	A/S-CAP/CERAMIC	GH17ASPS/XAZ,5CD50104,SEDA	SNA
C130	BN81-00051A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF160022,SEDA	SNA
C131	BN81-00051A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF160022,SEDA	SNA
CIS	BN81-00080A	A/S-BOTTOM PLATE	GH17ASPS/XAZ,3BP0076,SEDA	SNA
CIS	BN81-00081A	A/S-CONE PAPER	GH17ASPS/XAZ,3CPBF01,SEDA	SNA
CIS	BN81-00082A	A/S-DAMPER	GH17ASPS/XAZ,3DA0109,SEDA	SNA
CIS	BN81-00083A	A/S-DUST CAP	GH17ASPS/XAZ,3DC0045,SEDA	SNA
CIS	BN81-00084A	A/S-FRAME	GH17ASPS/XAZ,3FABG01,SEDA	SNA
CIS	BN81-00085A	A/S	GH17ASPS/XAZ,3KW0024,SEDA	SNA
CIS	BN81-00086A	A/S-MAGNET	GH17ASPS/XAZ,3MG0050,SEDA	SNA
CIS	BN81-00087A	A/S-MAGNET	GH17ASPS/XAZ,3MG0051,SEDA	SNA
CIS	BN81-00041A	A/S-EXTEND CORD	GH17ASPS/XAZ,5COEWC0821,SEDA	SNA
CIS	BN81-00042A	A/S-MINI CONNECTOR	GH17ASPS/XAZ,5MN0257,SEDA	SNA
CIS	BN81-00043A	A/S-MINI CONNECTOR	GH17ASPS/XAZ,5MN0261,SEDA	SNA
CIS	BN81-00044A	A/S-5PAGH17	GH17AS,SDMA	SNA
CIS	BN81-00045A	A/S-HEAT SINK	GH17ASPS/XAZ,4HSGH17,SEDA	SNA
CIS	BN81-00068A	A/S-PCB	GH17ASPS/XAZ,5PREAP1421,SEDA	SNA
CN101	BN81-00060A	A/S-FLAT WIRE	GH17ASPS/XAZ,5FLEFC0106,SEDA	SNA
D101	BN81-00059A	A/S-ZENER	GH17ASPS/XAZ,5DDZ8.2B,SEDA	SNA
D102	BN81-00059A	A/S-ZENER	GH17ASPS/XAZ,5DDZ8.2B,SEDA	SNA
J101	BN81-00078A	A/S-WAFER	GH17ASPS/XAZ,5WA02H13,SEDA	SNA
J102	BN81-00078A	A/S-WAFER	GH17ASPS/XAZ,5WA02H13,SEDA	SNA
J103	BN81-00079A	A/S-WAFER	GH17ASPS/XAZ,5WA03H08,SEDA	SNA
JK101	BN81-00063A	A/S-JACK PHONE	GH17ASPS/XAZ,5JCHS03495,SEDA	SNA
JK102	BN81-00064A	A/S-JACK PHONE	GH17ASPS/XAZ,5JCS03495SW,SEDA	SNA

Loc. No.	Code No.	Description	Specification	Remarks
JW1	BN81-00066A	A/S-JUMP WIRE	GH17ASPS/XAZ,5JW06075,SEDA	SNA
JW2	BN81-00067A	A/S-JUMP WIRE	GH17ASPS/XAZ,5JW06125,SEDA	SNA
JW3	BN81-00065A	A/S-JUMP WIRE	GH17ASPS/XAZ,5JW0605,SEDA	SNA
JW4	BN81-00066A	A/S-JUMP WIRE	GH17ASPS/XAZ,5JW06075,SEDA	SNA
JW5	BN81-00066A	A/S-JUMP WIRE	GH17ASPS/XAZ,5JW06075,SEDA	SNA
JW6	BN81-00066A	A/S-JUMP WIRE	GH17ASPS/XAZ,5JW06075,SEDA	SNA
R101	BN81-00071A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF161.5KM,SEDA	SNA
R102	BN81-00071A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF161.5KM,SEDA	SNA
R103	BN81-00073A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF164.7KM,SEDA	SNA
R104	BN81-00073A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF164.7KM,SEDA	SNA
R105	BN81-00074A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF165.6KM,SEDA	SNA
R106	BN81-00074A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF165.6KM,SEDA	SNA
R107	BN81-00071A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF161.5KM,SEDA	SNA
R108	BN81-00071A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF161.5KM,SEDA	SNA
R109	BN81-00073A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF164.7KM,SEDA	SNA
R110	BN81-00073A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF164.7KM,SEDA	SNA
R111	BN81-00069A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF160100M,SEDA	SNA
R112	BN81-00069A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF160100M,SEDA	SNA
R113	BN81-00070A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF160150M,SEDA	SNA
R114	BN81-00070A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF160150M,SEDA	SNA
R115	BN81-00075A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF169.1KM,SEDA	SNA
R116	BN81-00072A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF162.2KM,SEDA	SNA
STD	6001-000137	SCREW-MACHINE	BH,+,M3,L8,ZPC(YEL),SM20C,-	SNA
STD	6001-000157	SCREW-MACHINE	BH,+,M4,L8,ZPC(YEL),SM20C,-	SNA
STD	6003-000278	SCREW-TAPTITE	BH,+,B,M3,L14,ZPC(YEL),SWCH101	SNA
STD	6003-000301	SCREW-TAPTITE	BH,+,S,M4,L6,ZPC(YEL),SWRCH18A	SNA
STD	6003-001238	SCREW-TAPTITE	FH,+,S,M4,L8,ZPC(BLK),SWRCH18A	SNA
STD	6003-001334	SCREW-TAPTITE	BH,+,S,M4,L14,ZPC(BLK),SWRCH18A,-	SNA
STD	6003-001374	SCREW-TAPTITE	FH,+,B,M4,L12,NI PLT,SWRCH18A,-	SNA
STD	BN61-00153A	NECK-SLIDE	GH17BS,ACETAL	SNA
STD	BN61-00154A	FRAME-NECK	GH17BS,EGI,T2.0	SNA
STD	BN61-00155A	FRAME-MAIN	GH17BS,EGI,T2.0	SNA
STD	BN61-00156A	BASE	GH17BS,EGI,T2.0	SNA
STD	BN61-00194A	STOPPER-STAND	GH17BS,ACETAL,M/M STAND	SNA
STD	BN61-00251A	FOOT-RUBBER	GH17BS,RUBBER,T1.6	SNA
STD	BN61-00252A	SUPPORT-BOTTOM	GH17BS,P.O.M,STAND SUPPORT	SNA
STD	BN61-00253A	STOPPER-BOLT	GH17BS,MBSBE,M/M STAND	SNA
STD	BN61-00254A	SPRING ETC-LIFT	GH17BS,SUS 304 1/2H,M/M STAND	SNA
STD	BN63-00284A	COVER-FRONT-STAND	GH17BS,ABS,HB,IV16	SNA
STD	BN63-00285A	COVER-REAR-STAND	GH17BS,ABS,HB,IV16	SNA
STD	BN63-00286A	COVER-FRONT-NECK	GH17BS,ABS,HB,IV16	SNA
STD	BN63-00287A	COVER-REAR-NECK	GH17BS,ABS,HB,IV16	SNA
STD	BN63-00288A	COVER-BASE	GH17BS,ABS,HB,IV16	SNA
STD	BN63-00289A	COVER-BASE-BOTTOM	GH17BS,ABS,HB,IV16	SNA
STD	BN63-00290A	COVER-BASE-ROTATOR	GH17BS,ACETAL	SNA
STD	BN63-00944A	FELT-STAND	GH17BS,FELT,T1.0,10,10	SNA
STD	BN64-00087A	KNOB-VOL	GH17BS,ABS,HB,IV16	SNA
STD	BN72-00213A	COVER-VESA PLATE	GH17PS,ABS ,HB,IV16	SNA
STD	BN72-00214A	COVER-PIVOT	GH17PS,ABS,HB,IV16	SNA
STD	BN75-00222A	UNIT-STOPPER PIN	GH15,-,SUS ,DIA 1.0MM,-,-,CKD,-	SNA
STD	BN81-00100A	A/S-SPEAKER	GH17ASPS/XAZ,2FBG04,SEDA	SNA
STD	BN81-00101A	A/S-PCB	GH17ASPS/XAZ,SEDA	SNA
U101	BN81-00062A	A/S-IC	GH17ASPS/XAZ,5ICTEA2025,SEDA	SNA
U102	BN81-00061A	A/S-IC	GH17ASPS/XAZ,5IC278R12,SEDA	SNA
VR101	BN81-00076A	A/S-VOLUME	GH17ASPS/XAZ,5VLOB050V,SEDA	SNA
VR102	BN81-00076A	A/S-VOLUME	GH17ASPS/XAZ,5VLOB050V,SEDA	SNA

7 Electrical Parts List

Loc. No.	Code No.	Description	Specification	Remarks
VR102	BN81-00077A	A/S-S/W VOLUME	GH17ASPS/XAZ,5VLJPA15F,SEDA	SNA
-	BN96-00275A	ASSY MISC P-VESA-HINGE	M/M STAND,CHINA,CKD	SNA
-	BN90-00432B	ASSY COVER REAR	GH17ASMB/XSJ,SEJ,ABS HB	SNA
CIS	BN90-00332B	ASSY REAR-COVER		
CIS	BN63-00301A	COVER-REAR	GH17PS,ABS HB,-	SNA
-	BN90-00526A	ASSY COVER FRONT	NB17AS	SNA
C/F	BN96-00586A	ASSY COVER P-FRONT	NB17AS(S/M172N),ABS HB IV16,SULVER	
C/F	BN59-00229A	BOARD	-,FUNCTION ASSY,-,-,-,-,-	SNA
C/F	BN61-00067A	SUPPORT-FUNCTION	GH19PS,ABS+PC 5V,-,-,-,IV16,-	SNA
C/F	BN63-00300B	COVER-FRONT	GH17AS,ABS HB IV16,S33-795-A1390S	SNA
C/F	BN63-00376A	COVER-SPACER	E171,ABS ,DELL	SNA
C/F	BN64-00038D	KNOB-FUNCTION	GG15AS,ABS+ PC 5V,IV16,SILVER	SNA
C/F	BN67-00021A	LENS-LED	GH18PS,ACRYL,CLR,-,-,-,-	
CIS	BN83-00290A	CKD-PCB SUB	BN41-00125A,GH17ASPS/XAZ,SEDA	SNA
CN1	BN83-00306A	CKD-CABLE-FLAT	3809-001306,GH17ASPS/XAZ,SEDA	SNA
R101	BN83-00298A	CKD-R-CHIP	2007-000076,GH17ASPS/XAZ,SEDA	SNA
R102	BN83-00298A	CKD-R-CHIP	2007-000076,GH17ASPS/XAZ,SEDA	SNA
R103	BN83-00304A	CKD-R-CHIP	2007-000402,GH17ASPS/XAZ,SEDA	SNA
R104	BN83-00304A	CKD-R-CHIP	2007-000402,GH17ASPS/XAZ,SEDA	SNA
R105	BN83-00305A	CKD-R-CHIP	2007-000643,GH17ASPS/XAZ,SEDA	SNA
R106	BN83-00305A	CKD-R-CHIP	2007-000643,GH17ASPS/XAZ,SEDA	SNA
SW601	BN83-00292A	CKD-SWITCH-TACT	3404-001209,GH17ASPS/XAZ,SEDA	SNA
SW602	BN83-00292A	CKD-SWITCH-TACT	3404-001209,GH17ASPS/XAZ,SEDA	SNA
SW603	BN83-00292A	CKD-SWITCH-TACT	3404-001209,GH17ASPS/XAZ,SEDA	SNA
SW604	BN83-00292A	CKD-SWITCH-TACT	3404-001209,GH17ASPS/XAZ,SEDA	SNA
SW605	BN83-00292A	CKD-SWITCH-TACT	3404-001209,GH17ASPS/XAZ,SEDA	SNA
SW606	BN83-00292A	CKD-SWITCH-TACT	3404-001209,GH17ASPS/XAZ,SEDA	SNA
U1	BN83-00294A	CKD-LED	0601-001610,GH17ASPS/XAZ,SEDA	SNA
U2	BN83-00296A	CKD-LED	0601-001313,GH17ASPS/XAZ,SEDA	SNA
U3	BN83-00296A	CKD-LED	0601-001313,GH17ASPS/XAZ,SEDA	SNA
-	BN91-00388F	ASSY LCD-EJ	GH17AS	SNA
CIS	BN07-00071A	LCD	LTM170EU-L01,GH17LS,1280*1024,17,16,19M,56,0.264*0.264,0-55,5.0,TN,-	
-	BN91-00671H	ASSY CHASSIS EJ ET	NB17ASPS/EDC,NETHERLANDS	
APT-INV	BN44-00086B	ADAPTOR-INVERTER	PSCV410701A,GOYA17 NARROW,110V/230VAC,50/60HZ,+13V/-5V/+3.3V,2.5A/1.5A/0.3A,48W	
-	BN91-00675A	ASSY SHIELD	NB17AS	SNA
CIS	0203-001160	TAPE-FILAMENT	SCOTCH#8915,TO.16,W48,L55M,TRP	SNA
CIS	0203-001318	TAPE-CONDUCTOR	DK-K102-100-140,TO.13,W140,L80,GRAY	SNA
CIS	0203-001319	TAPE-CONDUCTOR	DK-K102-60-130,TO.13,W130,L60,GRAY	SNA
CIS	BN63-00982A	SHIELD-TCO BOTTOM	NB17AS/BS,SECC,TO.5,EL/CL/PL	
CIS	BN63-00983A	SHIELD-TCO TOP	NB17AS/BS,SPT,TO.2	
SH/BTM+SH/PCB	6003-000113	SCREW-TAPTITE	BH,+ ,B,M3,L4,ZPC(YEL),SM20C	SNA
SH/PCB+PAN	6001-000559	SCREW-MACHINE	FH,+ ,M3,L6,ZPC(YEL),SWRCH18A,UP,-	
SH/TOP+SH/PCB	6003-000113	SCREW-TAPTITE	BH,+ ,B,M3,L4,ZPC(YEL),SM20C	SNA
SIGNAL	BN39-00244E	CBF SIGNAL	GY17LS,15P/15P,20276-N,1830mm,UL20276,BLACK,D-SUB/MALE,CORE:220mm,DET. TYPE	
-	BN92-00815S	ASSY LABEL	NB17ASHS/EDC,EDC,NETHERLANDS	SNA
CIS	BN68-00219P	LABEL-BARCODE	W/W,PE,TO.05,60*35,POLYESTER,BLK	SNA
CIS	BN68-00329F	LABEL RATING	GH17MS,SS,PE,TO.05,100*45,BLK,POLYESTER,W/W,NB17AS,BS	SNA

Loc. No.	Code No.	Description	Specification	Remarks
-	BN92-00885N	ASSY P/MATERIAL	NB17ASBBY,ADC,UNITED STATES	SNA
P/M	0203-001100	TAPE-OPP MASKING	OPP/W75/CLR,TO.05,W75,L800000,CLR	SNA
P/M	6902-000114	BAG PE	HDPE/NITRON/HDPE,TO.02/TO.5/TO.02,L800,W850,TRP,28,4,PE MARK	SNA
P/M	6902-000564	BAG PE	HDPE+NITRON(DOUBLE),TO.015+TO.5(DOUBLE),W300,L180,TRP,8,2	SNA
P/M	BH69-00328B	PAD-EDGE	ML17,DW3,200,1370,-,-,YEL,-,-	SNA
P/M	BH69-00457B	PACKING-PAD	GH15,FOAM,T3.0,930,1000	SNA
P/M	BH69-30360A	BAG-AIR	HDPE,TO.2,W1000*L1800,N,-,ALL	SNA
P/M	BH69-40379A	PACKING-WRAP	LDPE,W500*TO.02,-,-	SNA
P/M	BH69-40380A	PACKING-PAD	DW-2,500X2200X200,-,CGK5527	SNA
P/M	BH69-40385A	PACKING-PALLET	WOOD,W999*L913*H120,13500,CKC5277	SNA
P/M	BN68-00129A	LABEL SHIPPING	-,LABEL SHIPPING,ART-PAPER,100G,-,WHT,BLACK,-,-,-	SNA
P/M	BN69-00140Q	PAD-PALLET COVER	FP1701,SW,1000*4000,1350,-,-,-,-,-	SNA
CIS	BN69-00514A	CUSHION-T/B	GH17AS(M/M STAND),EPS,M50	SNA
-	BN92-00901L	ASSY ACCESSORY	NB17ASPS/EDC,EDC,NETHERLANDS	SNA
CIS	BN96-00649L	ASSY ACCESSORY	NB17ASPS/EDC,EDC,NETHERLANDS	SNA
ACCESSORY	0203-000214	TAPE-OPP MASKING	OPP/W50/CLR,TO.05,W50,L400000,	SNA
ACCESSORY	6801-001073	CARD-REGISTRATION	RUS,XEV,RUS,MOJO100,-,W220,L318,2,-	SNA
ACCESSORY	6902-000110	BAG PE	LDPE,TO.05,L356,W240,TRP,28,2,PE MARK	SNA
ACCESSORY	BH39-10339H	CBF POWER CORD	DET,H05VV-F,250V/10,16A,BLK,25	SNA
ACCESSORY	BH68-00374A	CARD WARRANTY-01	ASC List,Samsung,ART100G,Russian,EDC,295,210	SNA
ACCESSORY	BH68-00489A	MANUAL-02	RUSSIAN W/CARD,SER,RUSSIAN,RUSSIA,MOJO100G	SNA
ACCESSORY	BH68-70438A	CARD-BLOC WARRANTY-09	TFT LCD,BASIC,EU,MOJO,100G,W21	SNA
ACCESSORY	BH68-70448A	CARD-01	TFT LCD,SRC,RUSSIA,S/W,120,W210*L120,INSTALL CARD	SNA
CIS	BN39-00061A	CBF SIGNAL-STEREO	-,2000MM,-,-,UL2851,-	SNA
CIS	BN59-00048A	S/W DRIVER-7.0	SYNCMaster,PIVOT,SAMSUNG	SNA
ACCESSORY	BN96-00668E	ASSY MANUAL P-IB+QSG	NB17AS/BS,19AS/BS,SyncMaster,W/W,18 Langs,BN59-361E+BH68-376L	SNA
CIS	BH68-00376L	MANUAL	LCDQUICK SETUP GUIDE,SYNCMaster,E/F/S/G/P/L.13LANGS,W/W,MOJO100G,298,420	SNA
CIS	BN59-00361E	S/W DRIVER-MANUAL	NB17AS/BS,19AS/BS,W/W,SYNCMaster,18 LANGS	SNA
-	BN92-00912K	ASSY BOX	NB17ASPS/EDC,EDC,NETHERLANDS	SNA
CIS	BH68-00328Q	LABEL BOX	LABEL-BARCODE,W/W,CE+P+TC099,ART-PAPER 100G,70*60,90*95,WHT	SNA
CIS	BH75-10529C	UNIT-HANDLE/PACKING	S/M170MP,PE-LD,PE-HD,-,WHITE,-	SNA
CIS	BN72-60001A	LEVER TOP	LSD210TL,PE-LD,WHITE,TFT_LCD	SNA
CIS	BN72-60002C	LEVER BOTTOM	S/M170MP,PE-HD,BLUE	SNA
CIS	BN69-00578A	BOX	S/M172N(NB17AS) W/W,CB-SW4,YEL,A-1,L458*W436*H213,MULTI STAND	SNA
-	ET-NB17ASPS/EDC	2	LTM170EU-L01(ZPD)	-

7-2-1 NB19A* Main PCB Parts

Loc. No.	Code No.	Description	Specification	Remarks
-	BN94-00476M	ASSY PCB MAIN RK RM	NB19ASPS/EDC,NETHERLANDS	
CIS1	0202-001044	SOLDER-WIRE.	S63S-W3.0,S63S,D3,63Sn/37Pb,-	SNA
CIS10	0204-001095	THINNER	#4520,-,-,-	SNA
CIS2	0204-001677	FLUX	DF-201TVS,MIX,0.820,FLUX 13%,G	SNA
CIS3	0202-001222	SOLDER-WIRE FLUX	RS-107,RS60-1.2AA,D1.2,SN60/PB40,-	SNA
CIS30	BN71-00024A	EARTH-PLATE	GH17LS,SUS,T0.15	SNA
CIS8	BN39-00207E	WIRE HARNESS	GH17AS,UL1617#22,UL/CSA,3(2P,85MM,#22,JRA-1102H(S/W),YH396-03V,BK,1617#22,SJ02-	
CIS9	BN39-00232A	LEAD CONNECTOR-ASSY	MP19PO,UL1571#30,UL/CSA,30P,150MM,#30,12507HS-30,FI-X30H,BK,1571#30,CORE	
CN1	3722-000117	JACK-DC POWER	3P,3.5MM,AG,BLK,NO	SNA
CN4	3701-001219	CONNECTOR-DSUB	15P,3R,FEMALE,ANGLE,AUF	
CN5	3711-004712	CONNECTOR-HEADER	BOX,9P,1R,2mm,STRAIGHT,SN	
SH/PCB+IP/PCB	6003-000117	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
SH/PCB+M/PCB	6003-000117	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
SH/PCB+SH/D_SUB	6003-000117	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
SH/PCB+SH/POW	6003-000117	SCREW-TAPTITE	BH,+,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
MICOM	BN97-00221W	ASSY MICOM	NB17AS	
CIS	BN82-00093X	A/S MICOM	NB17AS	SNA
IC7	0903-001266	IC-MICROCONTROLLER	NT68F63,8BIT,PLCC,44P,653MIL,12MHZ,ST,CMOS,PLASTIC,5V,-,OTO+70C,256B,4KB,-,MC	SNA
-	BN97-00223Y	ASSY SMD	NB19ASPS/EDC,NETHERLAND	SNA
BD1	3301-001653	CORE-FERRITE BEAD	AB,4700HM,2X1.25X0.9MM,2000MA,TP,L,0.07OHM	SNA
BD10	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
BD11	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
BD12	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
BD13	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
BD2	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
BD3	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
BD4	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
BD5	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
BD6	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
BD7	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
BD8	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
BD9	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
C1	2402-001086	C-AL,SMD	100uF,20%,16V,WT,TP,6.6X6.6X5.3	
C11	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C12	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C13	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C14	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C15	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C16	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C17	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C18	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C19	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C2	2402-001042	C-AL,SMD	100uF,20%,16V,GP,TP,6.6x6.6x5.4mm	
C20	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C21	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C22	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C23	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C24	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C25	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C26	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C27	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C28	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C29	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
C3	2402-000179	C-AL,SMD	47uF,20%,16V,GP,TP,6.6x6.6x5.4	
C30	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C31	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C33	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C34	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C35	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C36	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C37	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C38	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C39	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C4	2401-002463	C-AL	470uF,20%,16V,GP,TP,8x11.5,5	
C40	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C41	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C42	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C44	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C45	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C46	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C47	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C48	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C49	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C5	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C50	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C52	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C53	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C54	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C55	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C56	2203-005437	C-CERAMIC,CHIP	10000nF,+80-20%,10V,Y5V,TP,3216	
C57	2203-000384	C-CERAMIC,CHIP	0.015NF,5%,50V,COG,TP,1608	
C58	2203-000384	C-CERAMIC,CHIP	0.015NF,5%,50V,COG,TP,1608	
C6	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C62	2203-000626	C-CERAMIC,CHIP	0.022NF,5%,50V,COG,TP,1608	
C63	2203-000626	C-CERAMIC,CHIP	0.022NF,5%,50V,COG,TP,1608	
C65	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C66	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C67	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C68	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C69	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C7	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C70	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C71	2203-000315	C-CERAMIC,CHIP	0.12NF,5%,50V,COG,TP,1608	
C72	2203-000236	C-CERAMIC,CHIP	0.1NF,5%,50V,COG,TP,1608	
C73	2203-000236	C-CERAMIC,CHIP	0.1NF,5%,50V,COG,TP,1608	
C74	2203-005065	C-CERAMIC,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608	
C75	2203-005065	C-CERAMIC,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608	
C76	2203-005065	C-CERAMIC,CHIP	1000nF,+80-20%,10V,Y5V,TP,1608	
C77	2203-001652	C-CERAMIC,CHIP	470nF,+80-20%,16V,Y5V,TP,1608	
C78	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C79	2402-000176	C-AL,SMD	10uF,20%,16V,GP,TP,4.3x4.3x5.4	
C8	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C80	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C81	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C82	2203-005005	C-CERAMIC,CHIP	100nF,10%,16V,X7R,TP,1608	
C83	2203-000257	C-CERAMIC,CHIP	10nF,10%,50V,X7R,TP,1608	
C84	2203-000975	C-CERAMIC,CHIP	47nF,10%,25V,X7R,TP,1608,-	
C85	2402-001158	C-AL,SMD	1UF,20%,50V,WT,TP,4X5.2MM	

7 Electrical Parts List

Loc. No.	Code No.	Description	Specification	Remarks
CIS5	0202-001162	SOLDER-CREAM	RMA-20-21L,S63,-,SN63/PB36.6/AGO.4,FLUX9.5%	SNA
CN3	3711-004070	CONNECTOR-HEADER	BOX,30P,1R,1.25mm,SMD-A,SN	
CN6	3708-000461	CONNECTOR-FPC/FFC/PIC	8P,1MM,SMD-A,AUF	SNA
D1	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D15	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D16	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
D2	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
D3	0401-001056	DIODE-SWITCHING	MMBD4148SE,75V,200MA,SOT-23,TP	
FT1	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
FT11	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT12	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
FT13	2703-001334	INDUCTOR-SMD	1.5uH,10%,2x1.25x0.85mm	
FT2	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
FT3	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
FT4	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
FT5	3301-001145	CORE-FERRITE BEAD	AB,4.5x1.6x1.6mm,-,-	SNA
FT6	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT7	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT8	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
FT9	2901-001114	FILTER-EMI SMD	25VDC,2.0ADC,-,100nF,3.2x1.6x1	
IC1	1203-001293	IC-POS.FIXED REG.	033,TO-252,3P,6.5MIL,PLASTIC,3	
IC10	0505-001170	FET-SILICON	SI9933ADY-T1,P,-20V,3.4A,0.06ohm,2W,SO-8	
IC11	0505-001772	FET-SILICON	FDS9933A,P,-20V,-3.8A,0.075OHM,2W,SO-8	
IC12	1003-001590	IC-LCD CONTROLLER	MST9111,QFP,128P,20X14MM,-,-,TR,PLASTIC,3.3V,-20TO+85C,-,-,-	
IC2	1203-002986	IC-VOLTAGE REGULATOR	7812R,DPAK,3P,6.6X6.1MM,PLASTIC,11.5/12.5V,-,OTO+125C,1A,-,TP	SNA
IC3	1203-002450	IC-VOLTAGE REGULATOR	MC33375ST-2.5T3,SOT-223,4P,137MIL,PLASTIC,2.475/2.525V,-,40TO+125C,300MA,-,TP	
IC5	1103-001023	IC-EEPROM	524C80D81,1028x8Bit,SOP,8P,150MIL,10mS,5V,10%,PLASTIC,0to+70C,110uA,CMOS,TP	
IC7_SOCKET	3704-000001	SOCKET-IC	44P,PLCC,SN,-	
IC8	0803-000117	IC-TTL	74F14,INVERTER,SOP,14P,150MIL,	
IC9	0505-001772	FET-SILICON	FDS9933A,P,-20V,-3.8A,0.075OHM,2W,SO-8	
MP1.0	BN41-00313A	PCB MAIN	NB17AS,FR-4,2L,1.0,1.6T,123.110,2A	SNA
Q1	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q2	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
Q4	0501-002080	TR-SMALL SIGNAL	2SC2412K,NPN,200mW,SC-59,TP,120-270	
R177	2007-000075	R-CHIP	220ohm,5%,1/10W,TP,1608	
R178	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R179	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R183	2007-000075	R-CHIP	220ohm,5%,1/10W,TP,1608	
R184	2007-000075	R-CHIP	220ohm,5%,1/10W,TP,1608	
R185	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R186	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R187	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R188	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R189	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R190	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R191	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R192	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R193	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R194	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R195	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R196	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R197	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R198	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R199	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R200	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	

Loc. No.	Code No.	Description	Specification	Remarks
R201	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R202	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R203	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R204	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R205	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R206	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R207	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R208	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R209	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R210	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R211	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R212	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R213	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R214	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R215	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R217	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R218	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R219	2007-000074	R-CHIP	100ohm,5%,1/10W,TP,1608	
R220	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R221	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R222	2007-001167	R-CHIP	75ohm,5%,1/10W,TP,1608	
R223	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R225	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R226	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R227	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R228	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R229	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R231	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R232	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R233	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	
R234	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	
R235	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	
R236	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	
R237	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	
R238	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	
R239	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	
R240	2007-000309	R-CHIP	10ohm,5%,1/10W,TP,1608	
R241	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R242	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R243	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R244	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R245	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R246	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R247	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R248	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R249	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R250	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R251	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R252	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R253	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R254	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R255	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R256	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R257	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R258	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	

7 Electrical Parts List

Loc. No.	Code No.	Description	Specification	Remarks
R259	2007-000072	R-CHIP	47ohm,5%,1/10W,TP,1608	
R260	2007-000070	R-CHIP	0ohm,5%,1/10W,TP,1608	
R261	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R262	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R263	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R264	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R265	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R266	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R267	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R268	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R269	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R270	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R271	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R272	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R273	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R274	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R275	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R276	2007-000084	R-CHIP	4.7Kohm,5%,1/10W,TP,1608	
R279	2007-000109	R-CHIP	1Mohm,5%,1/10W,TP,1608	
R283	2007-000077	R-CHIP	470ohm,5%,1/10W,TP,1608	
R287	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
R290	2007-000078	R-CHIP	1Kohm,5%,1/10W,TP,1608	
R294	2007-000821	R-CHIP	390ohm,1%,1/10W,TP,1608	
R295	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R296	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R297	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R298	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R299	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R300	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R301	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R302	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R303	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R304	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R306	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R307	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R308	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R309	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R310	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	
R311	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	
R312	2007-000092	R-CHIP	15Kohm,5%,1/10W,TP,1608	
R313	2007-000090	R-CHIP	10Kohm,5%,1/10W,TP,1608	
R314	2007-000102	R-CHIP	100Kohm,5%,1/10W,TP,1608	
X1	2801-003773	CRYSTAL-SMD	12MHZ,30PPM,28-AAN,20PF,500HM,TP	
X2	2801-003667	CRYSTAL-SMD	14.3182MHZ,50PPM,28-AAN,16,500HM,TP	
ZD1	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
ZD2	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
ZD3	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
ZD4	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
ZD5	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
ZD7	0403-000579	DIODE-ZENER	BZX84C5V1,5.1V,5%,200mW,SOT-23	
CIS	BN96-00529A	ASSY MISC P-SHIELD PCB	NB19AS/BS,SECC T1.0 (EL/CL/PL)	SNA
CIS	BN96-00530C	ASSY MISC P-SHIELD D SUB	NB19BS/AS,C CORE TYPE,SPT E T0.5	SNA

7-2-2 NB19A* Others

Loc. No.	Code No.	Description	Specification	Remarks
- C/R	BN90-00347A BN63-00306C	ASSY COVER REAR COVER-REAR	GH19AS,GH19AS-SXM8/0001 GH19AS,ABS HB BL21,S33-595-A1114S	SNA
-	BN90-00408E	ASSY STAND	GH17BSPS/EDC,EDC,ABS HB,BK07	
CIS	BN96-00094C	ASSY STAND P-MULTI-MEDIA	GH17BS,ABS HB ,BK07	
-	6005-001005	SCREW-WOOD	HH,+ ,M4.0,L19,NI PLT,SWRCH18A	SNA
-	BN60-00002A	SCREW-MACHINE	-,SWCH18A,-,L10,BH,+,-,M4,NI	SNA
C101	BN81-00050A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF160010,SEDA	SNA
C102	BN81-00050A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF160010,SEDA	SNA
C103	BN81-00057A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50472,SEDA	SNA
C104	BN81-00057A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50472,SEDA	SNA
C105	BN81-00054A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50153,SEDA	SNA
C106	BN81-00054A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50153,SEDA	SNA
C107	BN81-00058A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50563,SEDA	SNA
C108	BN81-00058A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50563,SEDA	SNA
C109	BN81-00056A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50224,SEDA	SNA
C110	BN81-00056A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50224,SEDA	SNA
C111	BN81-00051A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF160022,SEDA	SNA
C112	BN81-00051A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF160022,SEDA	SNA
C113	BN81-00049A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF100470,SEDA	SNA
C114	BN81-00049A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF100470,SEDA	SNA
C115	BN81-00055A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50154,SEDA	SNA
C116	BN81-00055A	A/S-CAP/MYLAR	GH17ASPS/XAZ,5CN50154,SEDA	SNA
C117	BN81-00049A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF100470,SEDA	SNA
C118	BN81-00049A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF100470,SEDA	SNA
C119	BN81-00052A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF160100,SEDA	SNA
C120	BN81-00046A	A/S-CAP/CERAMIC	GH17ASPS/XAZ,5CD50103,SEDA	SNA
C121	BN81-00053A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF160220,SEDA	SNA
C122	BN81-00048A	A/S-CAP/CERAMIC	GH17ASPS/XAZ,5CD50821,SEDA	SNA
C123	BN81-00048A	A/S-CAP/CERAMIC	GH17ASPS/XAZ,5CD50821,SEDA	SNA
C124	BN81-00047A	A/S-CAP/CERAMIC	GH17ASPS/XAZ,5CD50104,SEDA	SNA
C125	BN81-00047A	A/S-CAP/CERAMIC	GH17ASPS/XAZ,5CD50104,SEDA	SNA
C126	BN81-00047A	A/S-CAP/CERAMIC	GH17ASPS/XAZ,5CD50104,SEDA	SNA
C127	BN81-00047A	A/S-CAP/CERAMIC	GH17ASPS/XAZ,5CD50104,SEDA	SNA
C130	BN81-00051A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF160022,SEDA	SNA
C131	BN81-00051A	A/S-CAP/ELECT	GH17ASPS/XAZ,5CF160022,SEDA	SNA
CIS	BN81-00080A	A/S-BOTTOM PLATE	GH17ASPS/XAZ,3BP0076,SEDA	SNA
CIS	BN81-00081A	A/S-CONE PAPER	GH17ASPS/XAZ,3CPBF01,SEDA	SNA
CIS	BN81-00082A	A/S-DAMPER	GH17ASPS/XAZ,3DA0109,SEDA	SNA
CIS	BN81-00083A	A/S-DUST CAP	GH17ASPS/XAZ,3DC0045,SEDA	SNA
CIS	BN81-00084A	A/S-FRAME	GH17ASPS/XAZ,3FABG01,SEDA	SNA
CIS	BN81-00085A	A/S	GH17ASPS/XAZ,3KW0024,SEDA	SNA
CIS	BN81-00086A	A/S-MAGNET	GH17ASPS/XAZ,3MG0050,SEDA	SNA
CIS	BN81-00087A	A/S-MAGNET	GH17ASPS/XAZ,3MG0051,SEDA	SNA
CIS	BN81-00041A	A/S-EXTEND CORD	GH17ASPS/XAZ,5COEWC0821,SEDA	SNA
CIS	BN81-00042A	A/S-MINI CONNECTOR	GH17ASPS/XAZ,5MNO257,SEDA	SNA
CIS	BN81-00043A	A/S-MINI CONNECTOR	GH17ASPS/XAZ,5MNO261,SEDA	SNA
CIS	BN81-00044A	A/S-5PAGH17	GH17AS,SDMA	SNA
CIS	BN81-00045A	A/S-HEAT SINK	GH17ASPS/XAZ,4HSGH17,SEDA	SNA
CIS	BN81-00068A	A/S-PCB	GH17ASPS/XAZ,5PREAP1421,SEDA	SNA
CN101	BN81-00060A	A/S-FLAT WIRE	GH17ASPS/XAZ,5FLEFC0106,SEDA	SNA
D101	BN81-00059A	A/S-ZENER	GH17ASPS/XAZ,5DDZ8.2B,SEDA	SNA
D102	BN81-00059A	A/S-ZENER	GH17ASPS/XAZ,5DDZ8.2B,SEDA	SNA
J101	BN81-00078A	A/S-WAFER	GH17ASPS/XAZ,5WA02H13,SEDA	SNA

7 Electrical Parts List

Loc. No.	Code No.	Description	Specification	Remarks
J102	BN81-00078A	A/S-WAFER	GH17ASPS/XAZ,5WA02H13,SEDA	SNA
J103	BN81-00079A	A/S-WAFER	GH17ASPS/XAZ,5WA03H08,SEDA	SNA
JK101	BN81-00063A	A/S-JACK PHONE	GH17ASPS/XAZ,5JCHS0349S,SEDA	SNA
JK102	BN81-00064A	A/S-JACK PHONE	GH17ASPS/XAZ,5JCS0349SW,SEDA	SNA
JW1	BN81-00066A	A/S-JUMP WIRE	GH17ASPS/XAZ,5JW06075,SEDA	SNA
JW2	BN81-00067A	A/S-JUMP WIRE	GH17ASPS/XAZ,5JW06125,SEDA	SNA
JW3	BN81-00065A	A/S-JUMP WIRE	GH17ASPS/XAZ,5JW06005,SEDA	SNA
JW4	BN81-00066A	A/S-JUMP WIRE	GH17ASPS/XAZ,5JW06075,SEDA	SNA
JW5	BN81-00066A	A/S-JUMP WIRE	GH17ASPS/XAZ,5JW06075,SEDA	SNA
JW6	BN81-00066A	A/S-JUMP WIRE	GH17ASPS/XAZ,5JW06075,SEDA	SNA
R101	BN81-00071A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF161.5KM,SEDA	SNA
R102	BN81-00071A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF161.5KM,SEDA	SNA
R103	BN81-00073A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF164.7KM,SEDA	SNA
R104	BN81-00073A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF164.7KM,SEDA	SNA
R105	BN81-00074A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF165.6KM,SEDA	SNA
R106	BN81-00074A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF165.6KM,SEDA	SNA
R107	BN81-00071A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF161.5KM,SEDA	SNA
R108	BN81-00071A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF161.5KM,SEDA	SNA
R109	BN81-00073A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF164.7KM,SEDA	SNA
R110	BN81-00073A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF164.7KM,SEDA	SNA
R111	BN81-00069A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF160100M,SEDA	SNA
R112	BN81-00069A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF160100M,SEDA	SNA
R113	BN81-00070A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF160150M,SEDA	SNA
R114	BN81-00070A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF160150M,SEDA	SNA
R115	BN81-00075A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF169.1KM,SEDA	SNA
R116	BN81-00072A	A/S-RESISTER CARBON	GH17ASPS/XAZ,5RF162.2KM,SEDA	SNA
STD	6001-000137	SCREW-MACHINE	BH,+,M3,L8,ZPC(YEL),SM20C,-	SNA
STD	6001-000157	SCREW-MACHINE	BH,+,M4,L8,ZPC(YEL),SM20C,-	SNA
STD	6003-000278	SCREW-TAPTITE	BH,+,B,M3,L14,ZPC(YEL),SWCH101	SNA
STD	6003-000301	SCREW-TAPTITE	BH,+,S,M4,L6,ZPC(YEL),SWRCH18A	SNA
STD	6003-001238	SCREW-TAPTITE	FH,+,S,M4,L8,ZPC(BLK),SWRCH18A	SNA
STD	6003-001334	SCREW-TAPTITE	BH,+,S,M4,L14,ZPC(BLK),SWRCH18A,-	SNA
STD	6003-001374	SCREW-TAPTITE	FH,+,B,M4,L12,NI PLT,SWRCH18A,-	SNA
STD	BN61-00153A	NECK-SLIDE	GH17BS,ACETAL	SNA
STD	BN61-00154A	FRAME-NECK	GH17BS,EGI,T2.0	SNA
STD	BN61-00155A	FRAME-MAIN	GH17BS,EGI,T2.0	SNA
STD	BN61-00156A	BASE	GH17BS,EGI,T2.0	SNA
STD	BN61-00194A	STOPPER-STAND	GH17BS,ACETAL,M/M STAND	SNA
STD	BN61-00251A	FOOT-RUBBER	GH17BS,RUBBER,T1.6	SNA
STD	BN61-00252A	SUPPORT-BOTTOM	GH17BS,P.O.M,STAND SUPPORT	SNA
STD	BN61-00253A	STOPPER-BOLT	GH17BS,MBSBE,M/M STAND	SNA
STD	BN61-00254A	SPRING ETC-LIFT	GH17BS,SUS 304 1/2H,M/M STAND	SNA
STD	BN63-00284A	COVER-FRONT-STAND	GH17BS,ABS,HB,IV16	SNA
STD	BN63-00285A	COVER-REAR-STAND	GH17BS,ABS,HB,IV16	SNA
STD	BN63-00286A	COVER-FRONT-NECK	GH17BS,ABS,HB,IV16	SNA
STD	BN63-00287A	COVER-REAR-NECK	GH17BS,ABS,HB,IV16	SNA
STD	BN63-00288A	COVER-BASE	GH17BS,ABS,HB,IV16	SNA
STD	BN63-00289A	COVER-BASE-BOTTOM	GH17BS,ABS,HB,IV16	SNA
STD	BN63-00290A	COVER-BASE-ROTATOR	GH17BS,ACETAL	SNA
STD	BN63-00944A	FELT-STAND	GH17BS,FELT,T1.0,10,10	SNA
STD	BN64-00087A	KNOB-VOL	GH17BS,ABS,HB,IV16	SNA
STD	BN72-00213A	COVER-VESA PLATE	GH17PS,ABS ,HB,IV16	SNA
STD	BN72-00214A	COVER-PIVOT	GH17PS,ABS,HB,IV16	SNA
STD	BN75-00222A	UNIT-STOPPER PIN	GH15,-,SUS ,DIA 1.0MM,-,CKD,-	SNA
STD	BN81-00100A	A/S-SPEAKER	GH17ASPS/XAZ,2FBG04,SEDA	SNA

Loc. No.	Code No.	Description	Specification	Remarks
STD	BN81-00101A	A/S-PCB	GH17ASPS/XAZ,SEDA	SNA
U101	BN81-00062A	A/S-IC	GH17ASPS/XAZ,5ICTEA2025,SEDA	SNA
U102	BN81-00061A	A/S-IC	GH17ASPS/XAZ,5IC278R12,SEDA	SNA
VR101	BN81-00076A	A/S-VOLUME	GH17ASPS/XAZ,5VLOB050V,SEDA	SNA
VR102	BN81-00076A	A/S-VOLUME	GH17ASPS/XAZ,5VLOB050V,SEDA	SNA
VR102	BN81-00077A	A/S-S/W VOLUME	GH17ASPS/XAZ,5VLJPA15F,SEDA	SNA
-	BN96-00275A	ASSY MISC P-VESA-HINGE	M/M STAND,CHINA,CKD	SNA
-	BN90-00549A	ASSY COVER FRONT	NB19AS	SNA
C/F	BN96-00587A	ASSY COVER P-FRONT	NB19AS(S/M192N),ABS HB IV16,SULVER	
C/F	BN59-00229A	BOARD	-,FUNCTION ASSY,-,-,-,-,-	SNA
C/F	BN61-00336A	SUPPORT-FUNCTION	GH19PS,ABS+PC 5V,IV16	SNA
C/F	BN63-00855A	COVER-FRONT	NB19,ABS HB IV16,SILVER	SNA
C/F	BN64-00038D	KNOB-FUNCTION	GG15AS,ABS+ PC 5V,IV16,SILVER	SNA
C/F	BN67-00021A	LENS-LED	GH18PS,ACRYL,CLR,-,-,-,-	
CIS	BN83-00290A	CKD-PCB SUB	BN41-00125A,GH17ASPS/XAZ,SEDA	SNA
CN1	BN83-00306A	CKD-CABLE-FLAT	3809-001306,GH17ASPS/XAZ,SEDA	SNA
R101	BN83-00298A	CKD-R-CHIP	2007-000076,GH17ASPS/XAZ,SEDA	SNA
R102	BN83-00298A	CKD-R-CHIP	2007-000076,GH17ASPS/XAZ,SEDA	SNA
R103	BN83-00304A	CKD-R-CHIP	2007-000402,GH17ASPS/XAZ,SEDA	SNA
R104	BN83-00304A	CKD-R-CHIP	2007-000402,GH17ASPS/XAZ,SEDA	SNA
R105	BN83-00305A	CKD-R-CHIP	2007-000643,GH17ASPS/XAZ,SEDA	SNA
R106	BN83-00305A	CKD-R-CHIP	2007-000643,GH17ASPS/XAZ,SEDA	SNA
SW601	BN83-00292A	CKD-SWITCH-TACT	3404-001209,GH17ASPS/XAZ,SEDA	SNA
SW602	BN83-00292A	CKD-SWITCH-TACT	3404-001209,GH17ASPS/XAZ,SEDA	SNA
SW603	BN83-00292A	CKD-SWITCH-TACT	3404-001209,GH17ASPS/XAZ,SEDA	SNA
SW604	BN83-00292A	CKD-SWITCH-TACT	3404-001209,GH17ASPS/XAZ,SEDA	SNA
SW605	BN83-00292A	CKD-SWITCH-TACT	3404-001209,GH17ASPS/XAZ,SEDA	SNA
SW606	BN83-00292A	CKD-SWITCH-TACT	3404-001209,GH17ASPS/XAZ,SEDA	SNA
U1	BN83-00294A	CKD-LED	0601-001610,GH17ASPS/XAZ,SEDA	SNA
U2	BN83-00296A	CKD-LED	0601-001313,GH17ASPS/XAZ,SEDA	SNA
U3	BN83-00296A	CKD-LED	0601-001313,GH17ASPS/XAZ,SEDA	SNA
-	BN91-00567X	ASSY LCD-RK	GH19AS	SNA
CIS	BN07-00098A	LCD	TM190SX-70N01,G718MS,6BIT FRC,403.2*321.2*22.5,16.7M,40,0.2805*0.2805,0-40,5,0,T	
-	BN91-00671K	ASSY CHASSIS RK RM	NB19ASPS/EDC,NETHERLANDS	
APT+INV	BN44-00086B	ADAPTOR-INVERTER	PSCV410701A,GOYA17 NARROW,110V/230VAC,50/60HZ,+13V/+5V/+3.3V,2.5A/1.5A/0.3A,48W	
-	BN91-00676A	ASSY SHIELD	NB19AS	SNA
CIS	0203-001160	TAPE-FILAMENT	SCOTCH#8915,TO.16,W48,L55M,TRP	SNA
CIS	0203-001318	TAPE-CONDUCTOR	DK-K102-100-140,TO.13,W140,L80,GRAY	SNA
SH/PCB+PANEL	6001-000559	SCREW-MACHINE	FH,+ ,M3,L6,ZPC(YEL),SWRCH18A,UP,-	
SH/TCO+SH/PCB	6003-000113	SCREW-TAPTITE	BH,+ ,B,M3,L4,ZPC(YEL),SM20C	SNA
S/PB+S/LVDS_CAP	6003-000117	SCREW-TAPTITE	BH,+ ,B,M3,L6,ZPC(YEL),SWRCH18A	SNA
SIGNAL	BN39-00244E	CBF SIGNAL	GY17LS,15P/15P,20276-N,1830mm,UL20276,BLACK,D-SUB/MALE,CORE:220mm,DET. TYPE	
CIS	BN63-00791A	SHIELD CASE-LVDS/CAP	GH19BS,SPT,TO.3,CMO-PANEL	SNA
CIS	BN96-00706A	ASSY MISC P-SHIELD TCO	NB19AS/BS,SECC TO.5(EL/CL/PL)	SNA
-	BN92-00815U	ASSY LABEL	NB19ASHS/XSA,SEAU,AUSTRALIA	SNA
CIS	BN68-00219P	LABEL-BARCODE	W/W,PE,TO.05,60*35,POLYESTER,BLK	SNA
CIS	BN68-00286E	LABEL RATING	GH19BS,SS,PE,TO.05,90*30,BLK,POLYESTER,W/W,NB19AS,BS	SNA

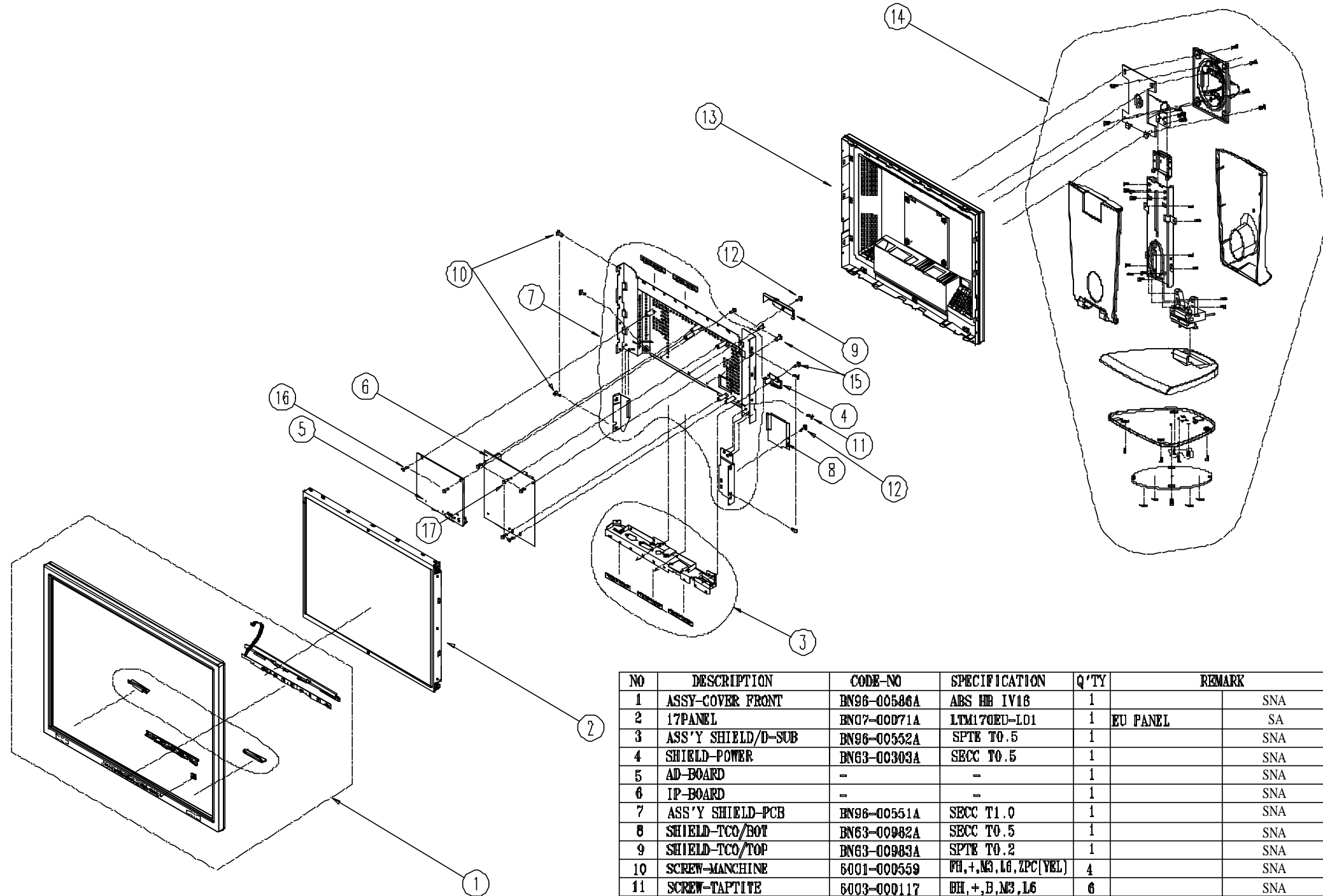
Loc. No.	Code No.	Description	Specification	Remarks
-	BN92-00885M	ASSY P/MATERIAL	NB19ASBB,ADC,UNITED STATES	SNA
P/M	0203-001100	TAPE-OPP MASKING	OPP/W75/CLR,T0.05,W75,L800000,CLR	SNA
P/M	6902-000522	BAG PE	HDPE/NITRON/HDPE,T0.015/T0.5/T0.015,W700,L800,TRP,28 LANGUAGE,2-	SNA
P/M	6902-000564	BAG PE	HDPE+NITRON(DOUBLE),T0.015+T0.5(DOUBLE),W300,L180,TRP,8,2	SNA
P/M	BH69-00256A	PAD-PACKING-EDGE	MV540,B400,200,2170,-,-,YEL,-,-	SNA
P/M	BH69-00457B	PACKING-PAD	GH15,FOAM,T3.0,930,1000	SNA
P/M	BH69-40319A	PACKING-PAD	DW-2,-,-,CSD5577,-,-,-,-,-,-,-,-	SNA
P/M	BH69-40379A	PACKING-WRAP	LDPE,W500*T0.02,-,-	SNA
P/M	BN68-00129A	LABEL SHIPPING	-,LABEL SHIPPING,ART-PAPER,100G,-,-,WHT,BLACK,-,-,-	SNA
P/M	BN69-00139L	PALLET-PACKING	LN17HO,WOODEN,W:1030,D:1020,H:120,-,-,-	SNA
CIS	BN69-00517A	CUSHION-T/B	GH19AS(NARROW 19),EPS,M50	SNA
-	BN92-00901L	ASSY ACCESSORY	NB17ASPS/EDC,EDC,NETHERLANDS	SNA
CIS	BN96-00649L	ASSY ACCESSORY	NB17ASPS/EDC,EDC,NETHERLANDS	
ACCESSORY	0203-000214	TAPE-OPP MASKING	OPP/W50/CLR,T0.05,W50,L400000,	SNA
ACCESSORY	6801-001073	CARD-REGISTRATION	RUS,XEV,RUS,MOJO100,-,W220,L318,2,-	SNA
ACCESSORY	6902-000110	BAG PE	LDPE,T0.05,L356,W240,TRP,28,2,PE MARK	SNA
ACCESSORY	BH39-10339H	CBF POWER CORD	DET,H05VV-F,250V/10,16A,BLK,25	
ACCESSORY	BH68-00374A	CARD WARRANTY-01	ASC List,Samsung,ART100G,Russian,EDC,295,210	SNA
ACCESSORY	BH68-00489A	MANUAL-02	RUSSIAN W/CARD,SER,RUSSIAN,RUSSIA,MOJO100G	SNA
ACCESSORY	BH68-70438A	CARD-BLOC WARRANTY-09	TFT LCD,BASIC,EU,MOJO,100G,W21	SNA
ACCESSORY	BH68-70448A	CARD-01	TFT LCD,SRC,RUSSIA,S/W,120,W210*L120,INSTALL CARD	SNA
CIS	BN39-00061A	CBF SIGNAL-STEREO	-,2000MM,-,-,UL2851,-	
CIS	BN59-00048A	S/W DRIVER-7.0	SYNCMaster,PIVOT,SAMSUNG	SNA
ACCESSORY	BN96-00668E	ASSY MANUAL P-IB+QSG	NB17AS/BS,19AS/BS,SyncMaster,W/W,18 Langs,BN59-361E+BH68-376L	SNA
CIS	BH68-00376L	MANUAL	LCDQUICK SETUP GUIDE,SYNCMaster,EJ/FS/G/PI.13LANGS,W/W,MOJO100G,298,420	
CIS	BN59-00361E	S/W DRIVER-MANUAL	NB17AS/BS,19AS/BS,W/W,SYNCMaster,18 LANGS	SNA
-	BN92-00912M	ASSY BOX	NB19ASPS/EDC,EDC,NETHERLANDS	SNA
CIS	BH68-00328Q	LABEL BOX	LABEL-BARCODE,W/W,CE+P+TC099,ART-PAPER 100G,70*60,90*95,WHT	SNA
BOX	BH75-10529C	UNIT-HANDLE/PACKING	S/M170MP,PE-LD,PE-HD,-,-,WHITE,-	
CIS	BN72-60001A	LEVER TOP	LSD210TL,PE-LD,WHITE,TFT_LCD	SNA
CIS	BN72-60002C	LEVER BOTTOM	S/M170MP,PE-HD,BLUE	SNA
CIS	BN69-00580A	BOX	S/M192N(NB19AS) W/W,CB-SW4,YEL,A-1,L497*W476*H213,MULTI STAND	SNA
-	RM-NB19ASPS/EDC	2	TM190SX-70N01(ZPD)	-

6 Exploded View and Parts List

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

URL : <http://ecms.samsungelectronics.com/>

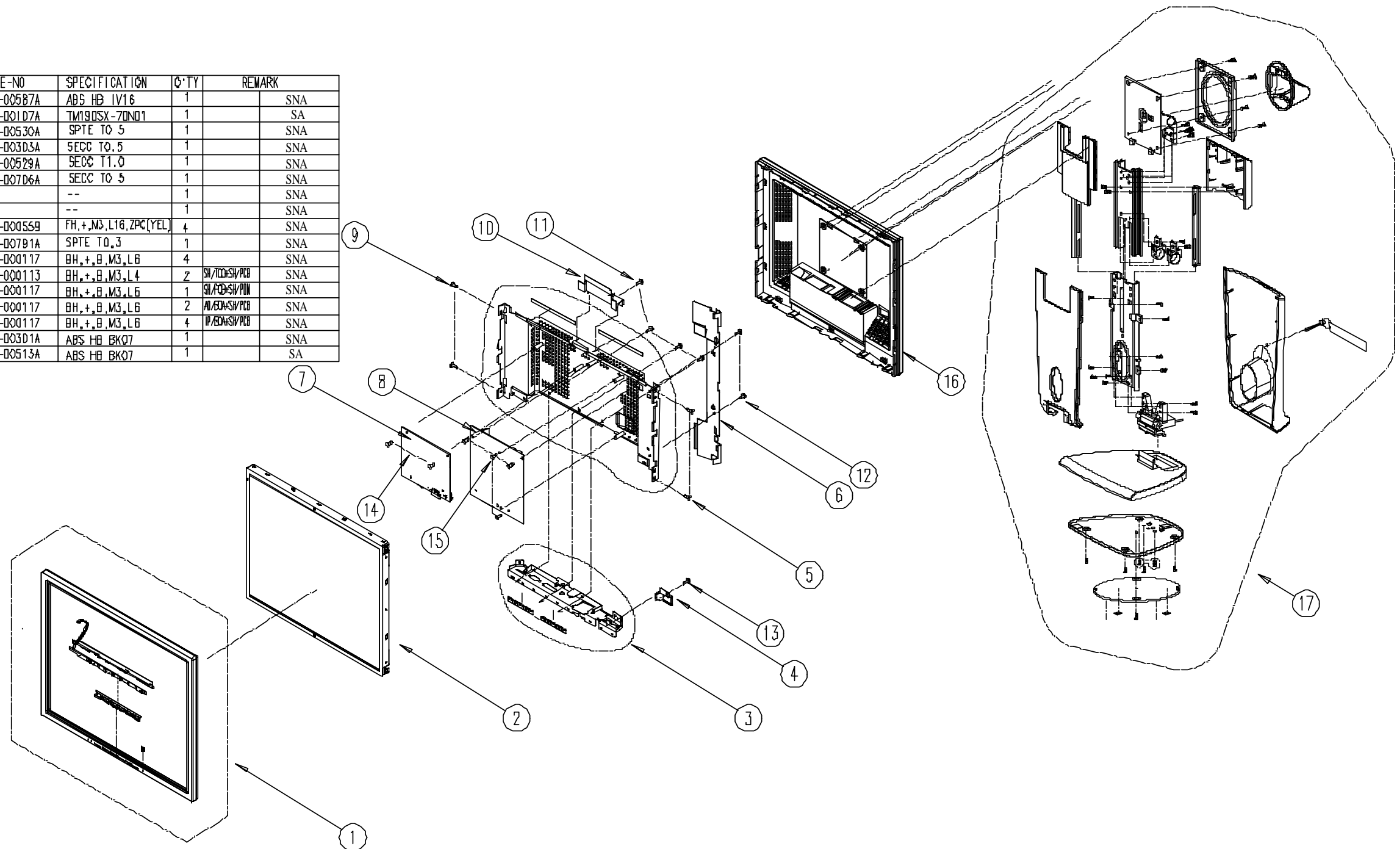
6-1 NB17A*



NO	DESCRIPTION	CODE-NO	SPECIFICATION	Q'TY	REMARK
1	ASSY-COVER FRONT	BN96-00586A	ABS HB IV16	1	SNA
2	17PANEL	BN07-00071A	LTM170ED-L01	1	EU PANEL SA
3	ASS'Y SHIELD/D-SUB	BN96-00552A	SPTC T0.5	1	SNA
4	SHIELD-POWER	BN63-00303A	SECC T0.5	1	SNA
5	AD-BOARD	-	-	1	SNA
6	IP-BOARD	-	-	1	SNA
7	ASS'Y SHIELD-PCB	BN96-00551A	SECC T1.0	1	SNA
8	SHIELD-TCO/BOT	BN63-00982A	SECC T0.5	1	SNA
9	SHIELD-TCO/TOP	BN63-00983A	SPTC T0.2	1	SNA
10	SCREW-MACHINE	6001-000559	PH,+M3,L6,ZPC(YEL)	4	SNA
11	SCREW-TAPTITE	6003-000117	BH,+B,M3,L6	6	SNA
12	SCREW-TAPTITE	6003-000113	BH,+B,M3,L4	2	SNA
13	ASSY-COVER REAR	BN90-00332A	ABS HB	1	SNA
14	ASSY-STAND(SIMPLE)	BN96-00512A	ABS HB BK07	1	SA
15	SCREW-TAPTITE	6003-000117	BH,+B,M3,L6	6	SNA
16	SCREW-TAPTITE	6003-000117	BH,+B,M3,L6	2	AD/BOARD+SH/PCB SNA
17	SCREW-TAPTITE	6003-000117	BH,+B,M3,L6	5	IP/BOARD+SH/PCB SNA

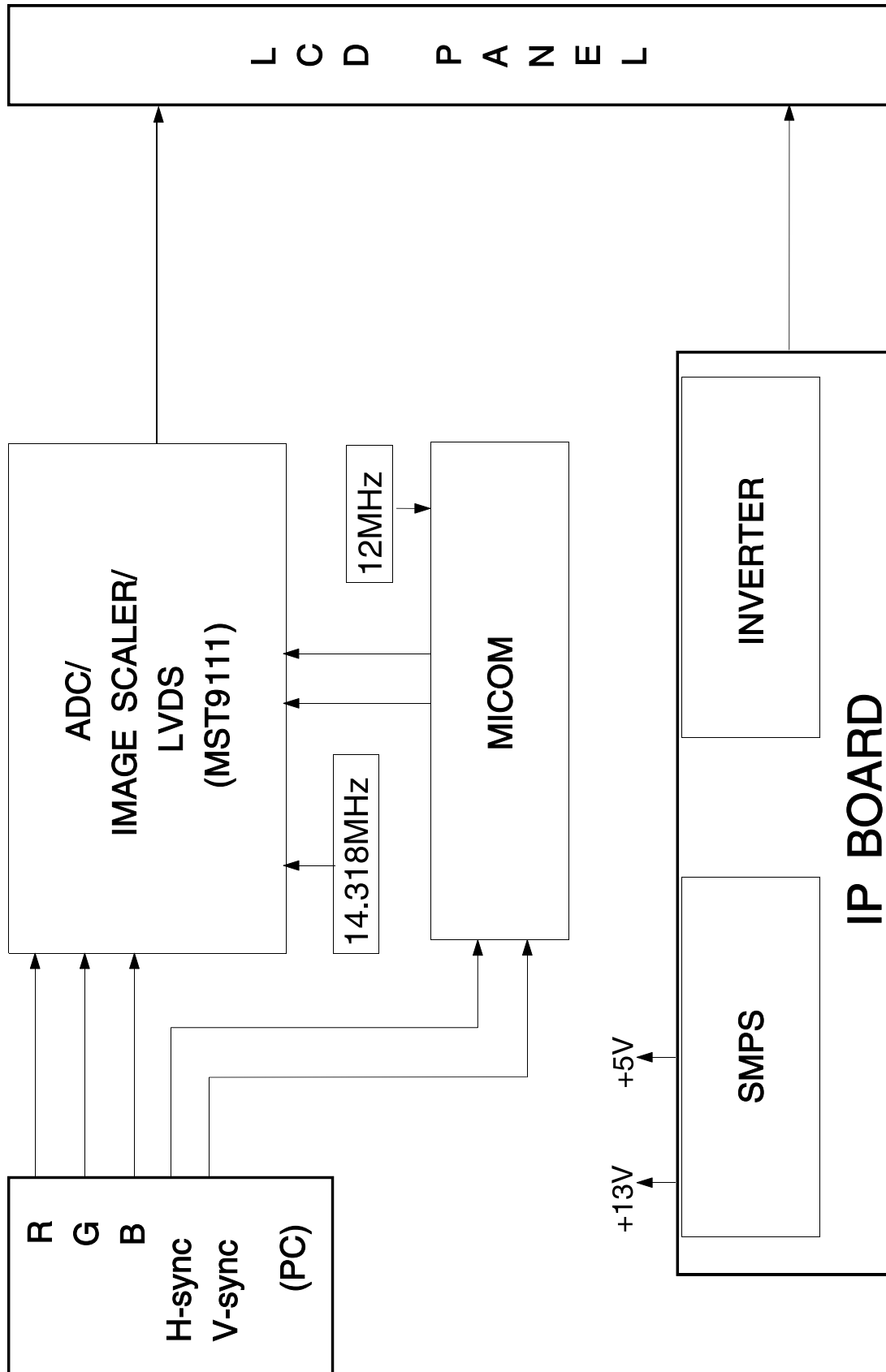
6-2 NB19A*

NO	DESCRIPTION	CODE-NO	SPECIFICATION	QTY	REMARK
1	ASSY-COVER FRONT	BN96-00587A	ABS HB 1V16	1	SNA
2	19PANEL	BN07-00107A	TM19DSX-70ND1	1	SA
3	ASS'Y SHIELD/O-SUB	BN96-00530A	SPTC TO 5	1	SNA
4	SHIELD-POWER	BN63-00303A	SECC TO 5	1	SNA
5	ASS'Y SHIELD-PCB	BN96-00529A	SECC T1.0	1	SNA
6	ASS'Y SHIELD-TCO	BN96-00706A	SECC TO 5	1	SNA
7	AD-BOARD	--	--	1	SNA
8	1P-BOARD	--	--	1	SNA
9	SCREW-MACHINE	B001-000559	FH,+M3,L16,ZPC(YEL)	4	SNA
10	SHIELD-LVDS/CAP	BN63-00701A	SPTC TO 3	1	SNA
11	SCREW-TAPTITE	6003-000117	BH,+B,M3,L6	4	SNA
12	SCREW-TAPTITE	6003-000113	BH,+B,M3,L4	2	SH/DCSHV/PCB SNA
13	SCREW-TAPTITE	6003-000117	BH,+B,M3,L6	1	SH/PCB-SH/PIN SNA
14	SCREW-TAPTITE	6003-000117	BH,+B,M3,L6	2	AD/PCB-SH/PCB SNA
15	SCREW-TAPTITE	B003-000117	BH,+B,M3,L6	4	1P/PCB-SH/PCB SNA
16	COVER-REAR	BN63-00301A	ABS HB BK07	1	SNA
17	ASS'Y-STAND	BN96-00513A	ABS HB BK07	1	SA



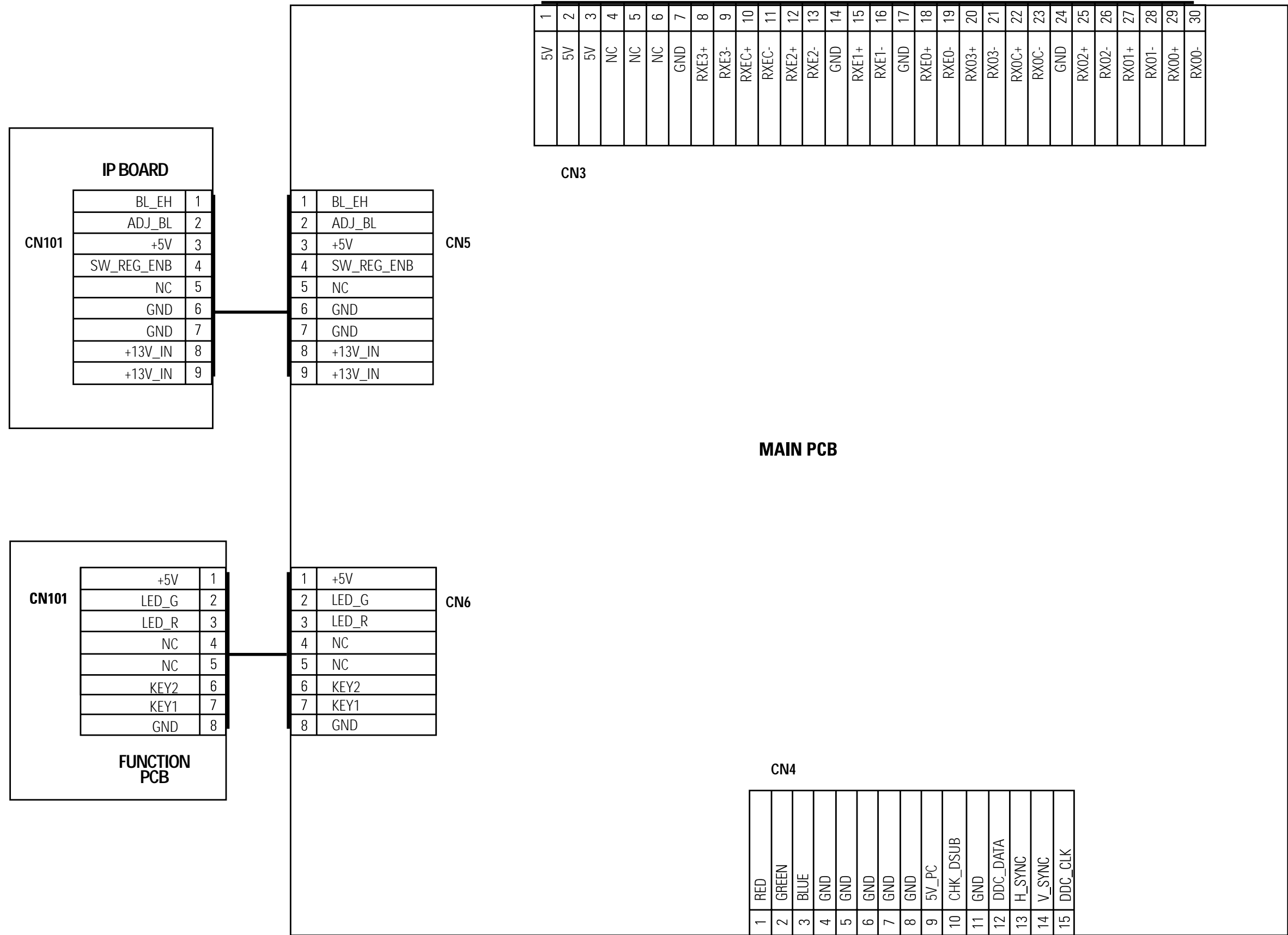
8 Block Diagram

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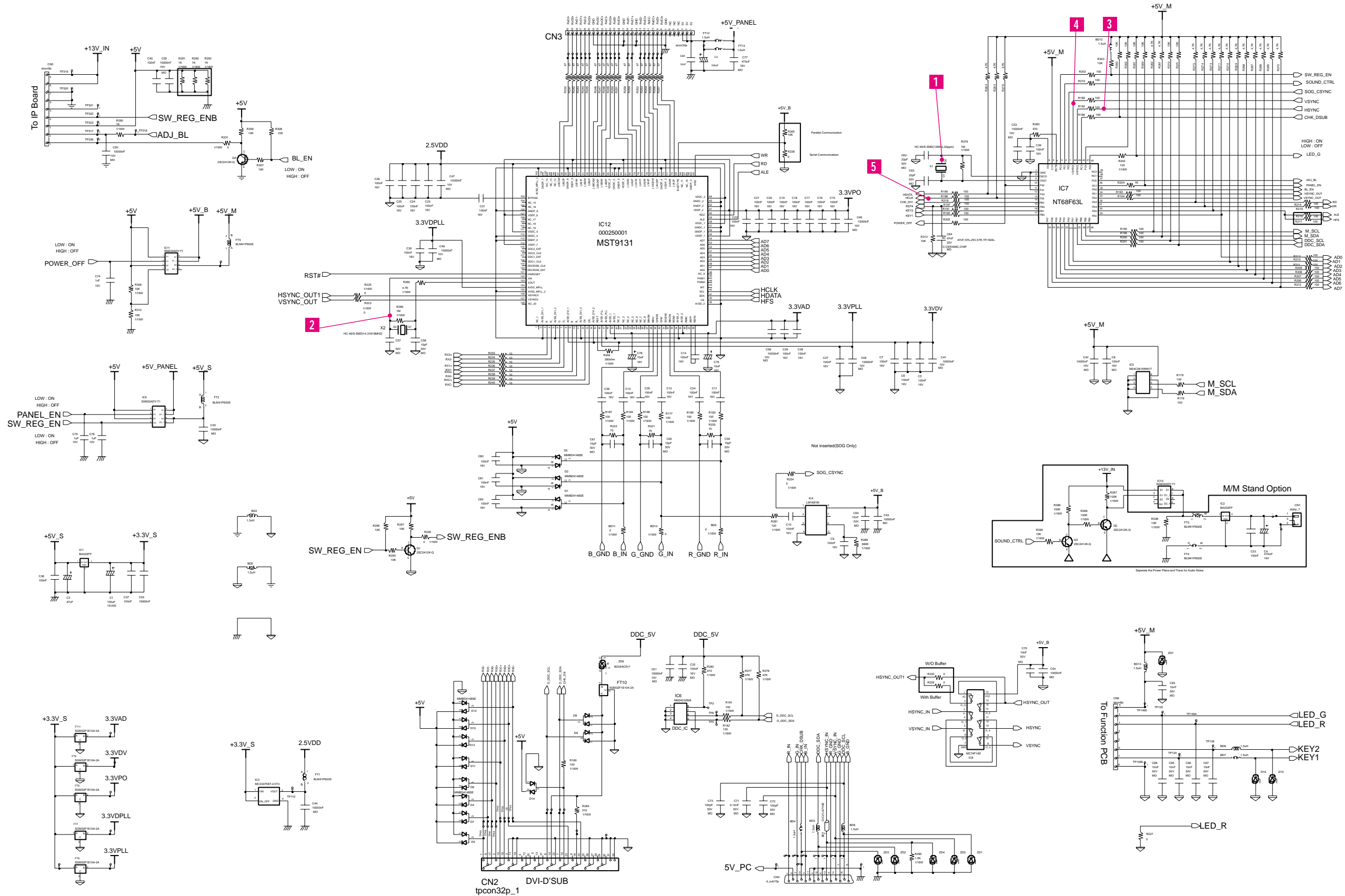
9 Wiring Diagram



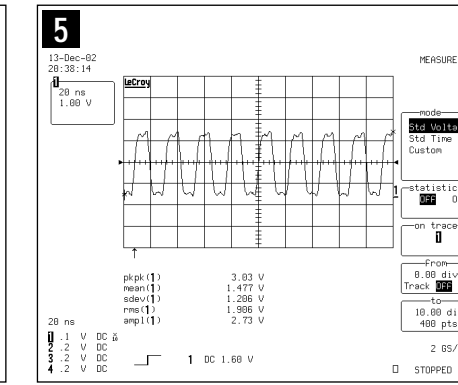
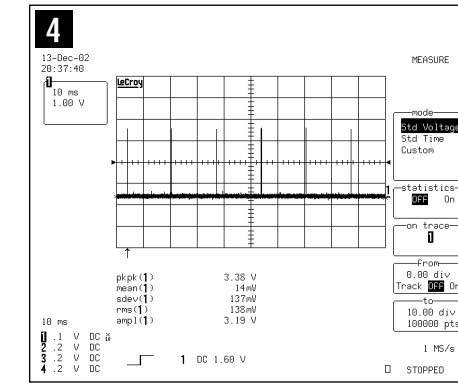
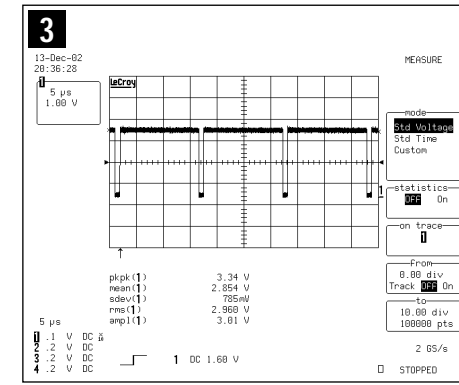
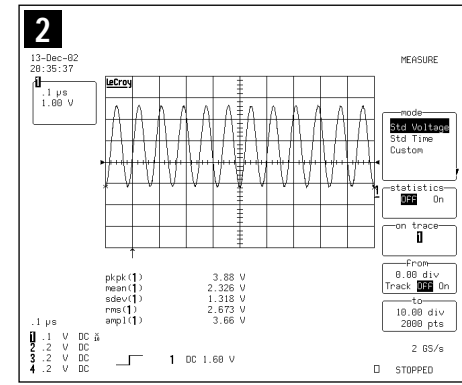
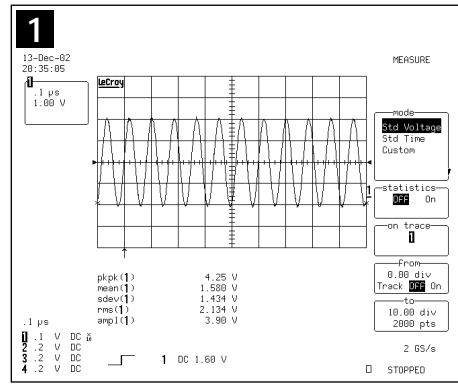
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11 Schematic Diagrams

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11 Schematic Diagrams





Samsung Electronics Co.,Ltd.

416, Maetan-3Dong, Paldal-Gu, Suwon City, Kyungki-Do, Korea, 442-742

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