



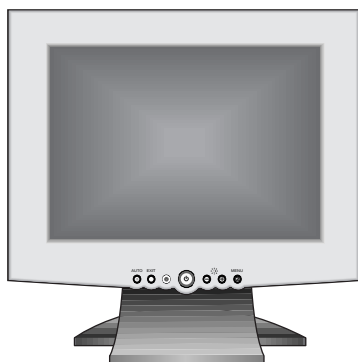
COLOR MONITOR

SyncMaster 570B TFT (CN15MS*)

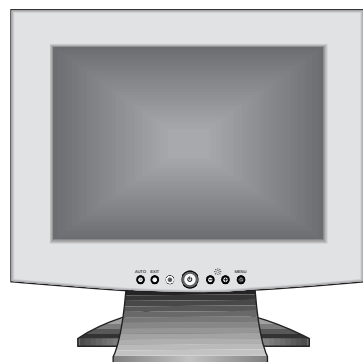
SyncMaster 580B TFT (CN15MO*)

SERVICE Manual

COLOR MONITOR



SyncMaster 570B TFT



SyncMaster 580B TFT

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1 Precautions

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

1-1 Safety Precautions

1-1-1 Warnings

1. For continued safety, do not attempt to modify the circuit board.
2. Disconnect the AC power and DC Power Jack before servicing.
3. When the chassis is operating, semiconductor heatsinks are potential shock hazards.

1-1-2 Servicing the LCD Monitor

1. When servicing the LCD Monitor, remove the static charge by connecting a 10k ohm resistor in series with an insulated wire (such as a test probe) between the chassis and the anode lead. (Disconnect the AC line cord from the AC outlet.)
2. It is essential that service technicians have an accurate voltage meter available at all times. Check the calibration of this meter periodically.

1-1-3 Fire and Shock Hazard

Before returning the monitor to the user, perform the following safety checks:

1. Inspect each lead dress to make certain that the leads are not pinched or that hardware is not lodged between the chassis and other metal parts in the monitor.
2. Inspect all protective devices such as nonmetallic control knobs, insulating materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. Leakage Current Hot Check (Figure 1-1): **WARNING: Do not use an isolation transformer during this test.** Use a leakage current tester or a metering system that complies with American National Standards Institute (*ANSI C101.1, Leakage Current for Appliances*), and Underwriters Laboratories (*UL Publication UL1410, 59.7*).

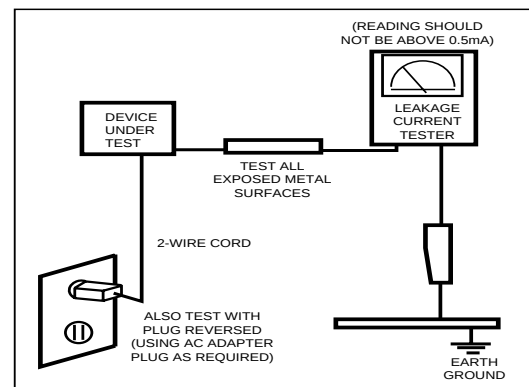


Figure 1-1. Leakage Current Test Circuit

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

1-1-4 Product Safety Notices

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

1-2 Servicing Precautions

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

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

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

1-2-1 General Servicing Precautions

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

1-3 Electrostatically Sensitive Devices (ESD) Precautions

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

1. Immediately before handling any semiconductor components or assemblies, drain the electrostatic charge from your body by touching a known earth ground. Alternatively, wear a discharging wrist-strap device. To avoid a shock hazard, be sure to remove the wrist strap before applying power to the monitor.
2. After removing an ESD-equipped assembly, place it on a conductive surface such as aluminum foil to prevent accumulation of an electrostatic charge.
3. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ESDs.
4. Use only a grounded-tip soldering iron to solder or desolder ESDs.
5. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ESDs.
6. Do not remove a replacement ESD from its protective package until you are ready to install it. Most replacement ESDs are packaged with leads that are electrically shorted together by conductive foam, aluminum foil or other conductive materials.
7. Immediately before removing the protective material from the leads of a replacement ESD, touch the protective material to the chassis or circuit assembly into which the device will be installed.
Caution: Be sure no power is applied to the chassis or circuit and observe all other safety precautions.
8. Minimize body motions when handling unpackaged replacement ESDs. Motions such as brushing clothes together, or lifting your foot from a carpeted floor can generate enough static electricity to damage an ESD.

2 Product Specifications

2-1 Specifications

Item	Description
LCD Panel	TFT-LCD panel, RGB vertical stripe, normally white, 15-Inch viewable, 0.297 (H) x 0.297 (V) pixel pitch
Scanning Frequency	Horizontal : 30 kHz to 61 kHz (Automatic) Vertical : 50 Hz to 75 Hz (Automatic)
Display Colors	16,003,008 colors
Maximum Resolution	Horizontal : 1024 Pixels Vertical : 768 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, Sync-on-Green, automatic synchronization without external switch of sync type Level: TTL level
Maximum Pixel Clock rate	80 MHz
Active Display Horizontal/Vertical	304.1 mm / 228.1 mm
AC power voltage & Frequency	AC 90 to 264 Volts, 60/50 Hz to 12V/3A
Power Consumption	25 W (normal)
Dimensions / Unit Weight / incl. Carton Unit (W x D x H) with:	
Standard base	385.4 x 364.7 x 173 mm / 5.20kg / 8.4kg
MultiMedia base	385.4 x 406.2 x 179 mm / 5.95kg / 9.6kg
Pivot MM base	385.4 x 406.2 x 179 mm / 5.95kg / 9.6kg
Angle Pivot base	385.4 x 431.6 x 179.9 mm / 6.6kg / 9.8kg
Wire-frame base	385.4 x 339.2 x 79.7 mm / 4.4kg / 7.6kg
Carton (W x D x H)	500 x 260 x 457 mm
Environmental Considerations	Operating Temperature : 50 °F to 104 °F (10 °C to 40 °C) Humidity : 10 % to 80 % Storage Temperature : 13 °F to 113 °F (-25 °C to 45 °C) Humidity : 5 % to 95 %
Audio Characteristics	• Built-in Microphone: High-sensitivity condenser microphone (mono) • Audio input: Left/Right Stereo phone jack, 0.5 Vrms • Sound output: 1.0 W (left) + 1.0 W (right)/THD 1% at 8ohm • Frequency response: 80 Hz~20 kHz (at -3dB) • Headphone: Max 50mW output (3.5-pi jack) • Speaker: Internal semi Dome (16ohm x 2)
• SyncMaster 570B TFT/580B TFT complies with SWEDAC (MPR II) recommendations for reduced electromagnetic fields. • Designs and specifications are subject to change without prior notice.	

2-2 Pin Assignments

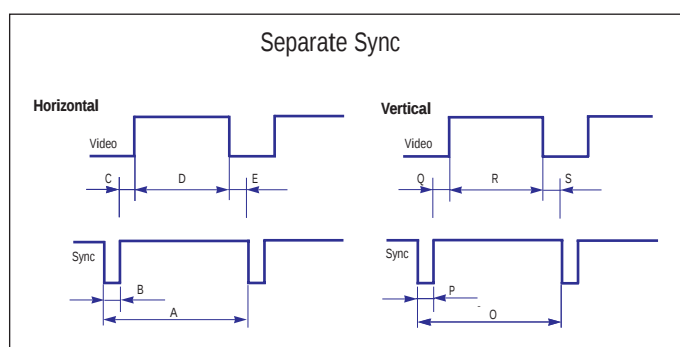
Sync Type Pin No.	15-Pin Signal Cable Connector		
	Separate	Composite	Sync-on-green
1	Red	Red	Red
2	Green	Green	Green + H/V Sync
3	Blue	Blue	Blue
4	GND	GND	GND
5	GND (DDC Return)	GND (DDC Return)	GND (DDC Return)
6	GND-R	GND-R	GND-R
7	GND-G	GND-G	GND-G
8	GND-B	GND-B	GND-B
9	No Connection	No Connection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

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



A : Line time total

B : Horizontal sync width

O : Frame time total

P : Vertical sync width

C : Back porch

D : Active time

Q : Back porch

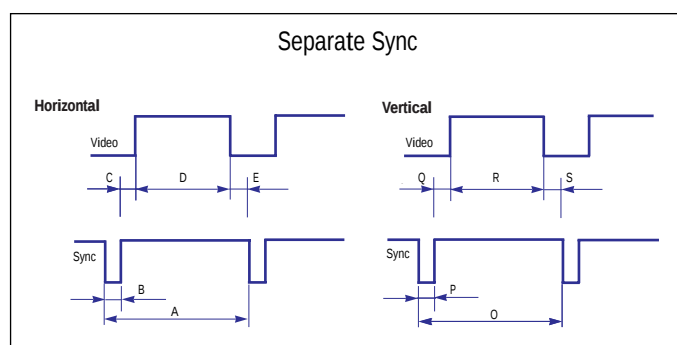
R : Active time

E : Front porch

S : Front porch

Table 2-1. Timing Chart Continued

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



A : Line time total

B : Horizontal sync width

O : Frame time total

P : Vertical sync width

C : Back porch

D : Active time

Q : Back porch

R : Active time

E : Front porch

S : Front porch

3 Disassembly and Reassembly

This section of the service manual describes the disassembly and reassembly procedures for the Sync Master 570B TFT / 580B TFT 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 metal instruments to pry apart the cabinet.

3-1-1 Removing the Stand

1. Remove 4 screws in the hinge area.
2. Pry it off the back of the monitor.
3. Disconnect Power Cord and Signal Cable.

3-1-2 Main Body Disassembly

1. Remove the 4 screws on the four corner of the Rear Cover.
2. Remove Rear Cover from the Front Cover.
3. Remove 11 screws on the Shield and remove the shield.
4. Disconnect Inverter wire, Function PCB wire and Interface wire.
Remove 4 screws on the Main PCB and remove 2 screws on the D sub shield.
5. Remove the Main PCB Assembly.
6. Remove 6 screws on the Inverter PCB Assembly and then remove it
7. Remove 6 screws on the Rear Panel Bracket.
8. Remove the Bracket Assembly from the Front Cover.
9. Remove 3 screws on the Function PCB from locking area of Function knob and remove Function PCB.
10. Remove 4 screws on the Shield of Panel.
11. Remove the Shield.
12. Remove Rear Bracket from Panel.
13. Remove 2 screws between Panel Rear and Inverter PCB.
14. Remove the Interface wire on the Rear Side of Panel.

3-1-3 Standard Stand Disassembly

1. Remove 5 screws from the Stand Rear
2. Remove 4 screws from the Stand Bottom.

3. Remove Stand Front from the Stand assembly.
4. Remove 2 screws from the Stand assembly.
5. Remove the Stand Rear from the Stand assembly.
6. Remove 5 screws on the Vesa Brkt from the Stand assembly.
7. Remove cover hinge from the Stand assembly.
8. Remove Stand Base from the Stand assembly.

3-1-4 Pivot Multi-media Stand Disassembly (option)

1. Stand the stand assembly with the base close to you.
2. Remove the 4 screws on the back cover of the stand and remove it.
3. Stand the stand assembly upside down.
4. Remove the 4 screws.
5. Disconnect CN805, CN806, CN807, CN808, CN809, CN812 and F1.
6. Remove the Back Cover of the Stand Front assembly.
7. Remove 4 screws on the external adaptor and remove the adaptor.
8. Remove 2 screws between hinge and Stand Body.
9. Remove the hinge
10. Remove 2 screws on Audio main PCB and remove it
11. Remove 2 screws on the Audio Function PCB and remove it.

3-1-5 Angle Pivot Stand Disassembly (option)

1. Remove the cap pivot from the stand assembly.
2. Remove the 4 screws on the hinge assembly.
3. Remove the 4 screws on the Stand Rear

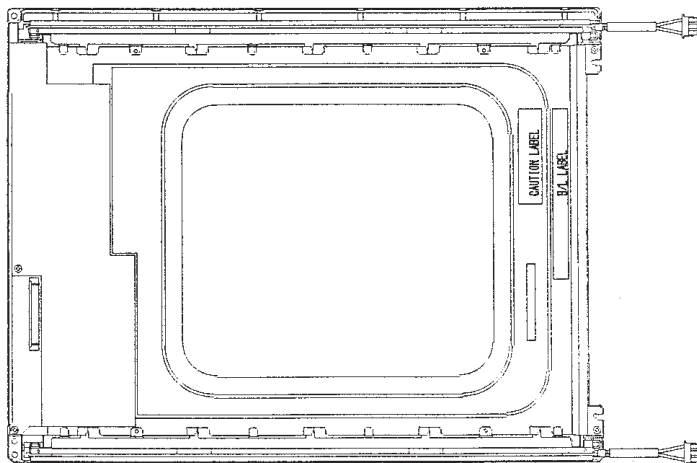
3 Disassembly and Reassembly

4. Remove the Stand Rear from the Stand assembly.
5. Remove the Stand Front from the Stand assembly.
6. Remove the Neck Rear from the Stand assembly.
7. Remove the 4 Rubbers on the four corner of the Stand Bottom and the 4 screws on the four corner of the Stand Bottom.
8. Remove the 5 stopper hinges from the Bracket Bottom.
9. Remove the Stand Base from the Stand Assembly.

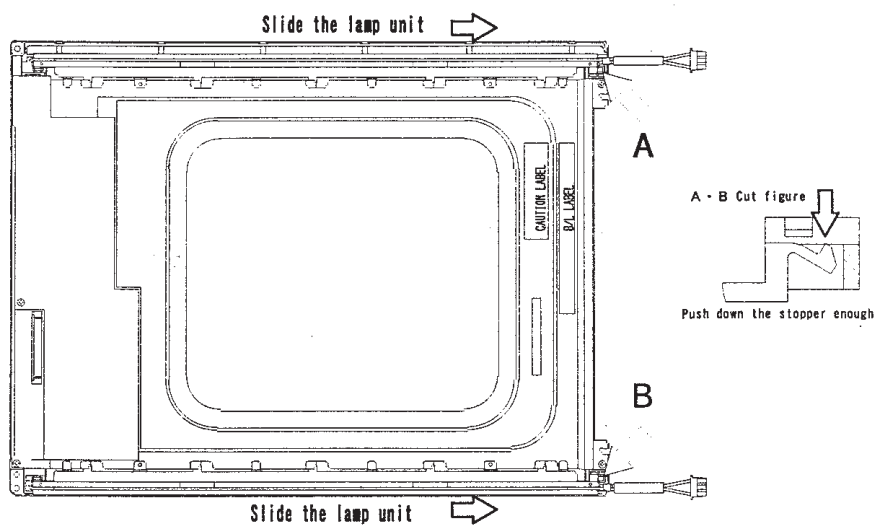
3-1-6 Wire frame stand Disassembly (option)

1. Carefully pull the cover hinge.
2. Remove the cover vesa from the Stand assembly.
3. Remove 4 screws on the assembly Bracket assembly.

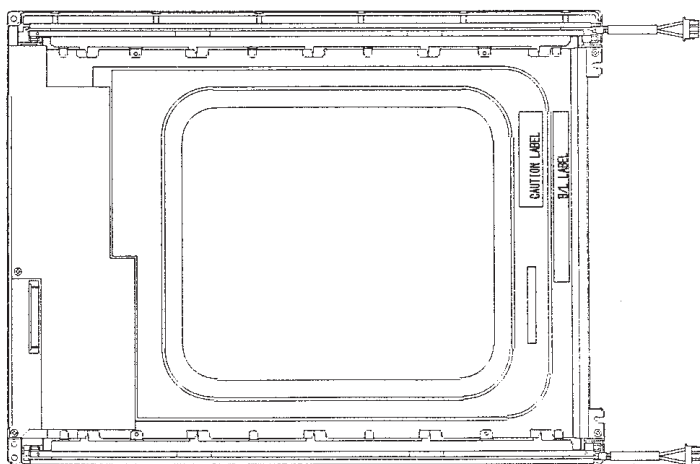
3-2 Replacement Order of Lamp Assemblies (CN15MSS/CN15MOS : Samsung Panel)



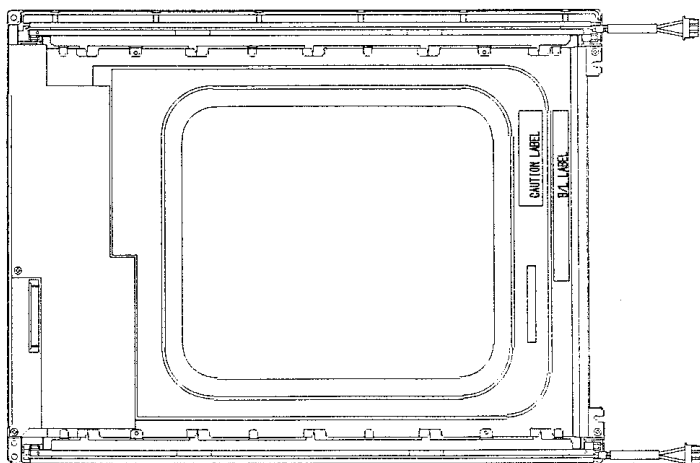
1. After confirm there is nothing on the disk
Turn the LCD module over and put it on a flat desk set to the ground.



2. Push down the stopper and slide the lamp unit.



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



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

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

3-3 Reassembly

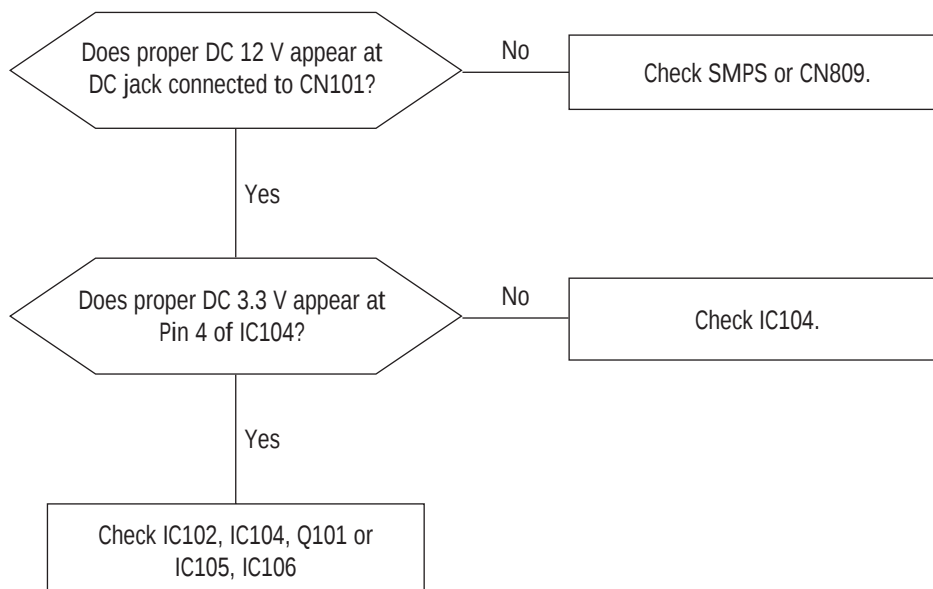
Reassembly procedures are in the reverse order of Disassembly procedures.

MEMO

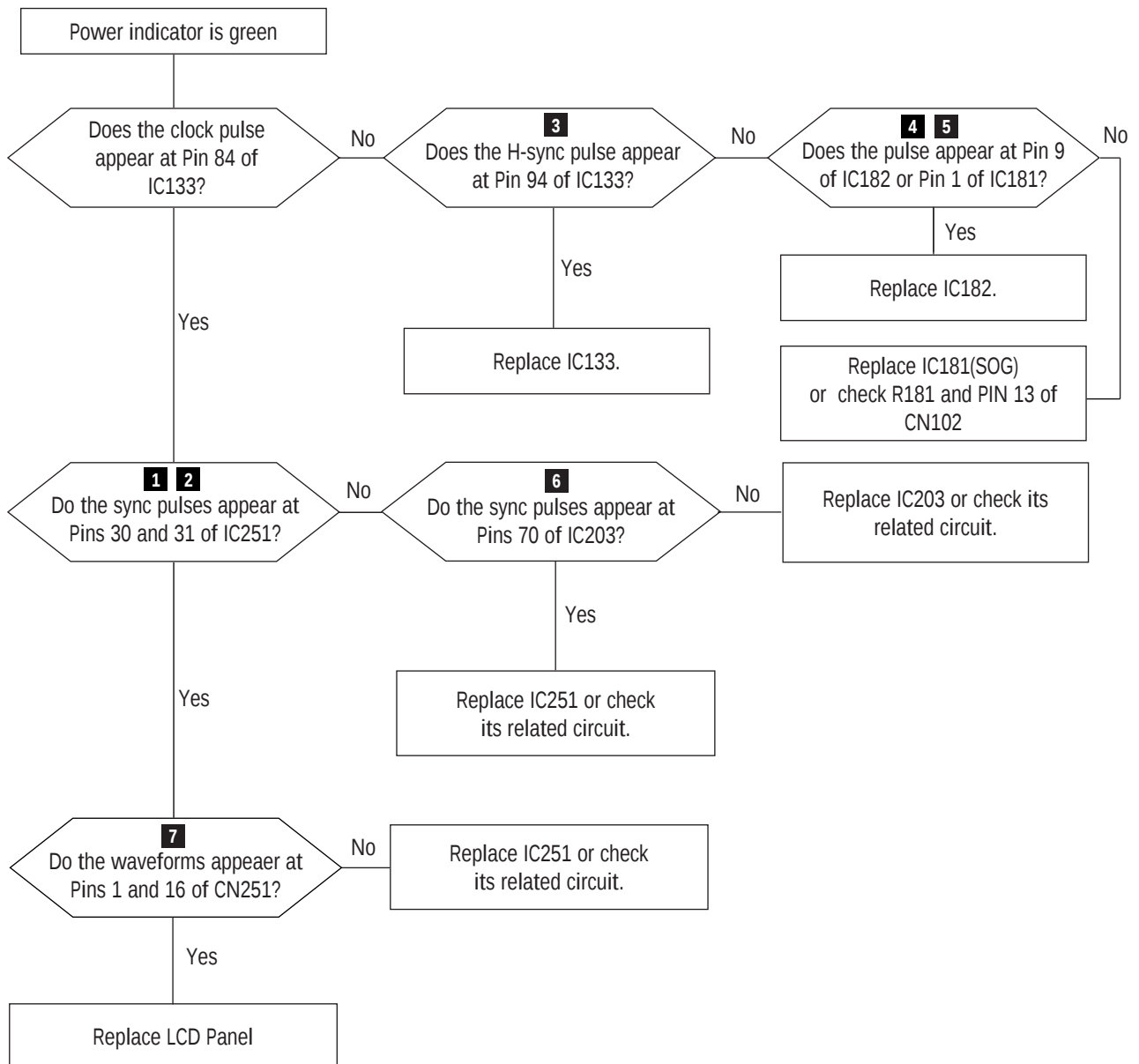
4 Troubleshooting

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

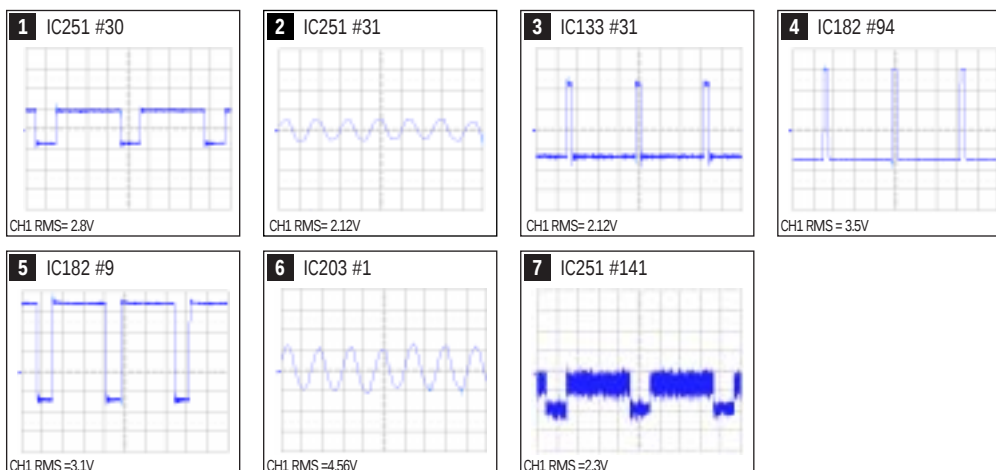
4-1 No Power (CN15MSS/MOS)



4-2 No Video (CN15MSS/MOS)

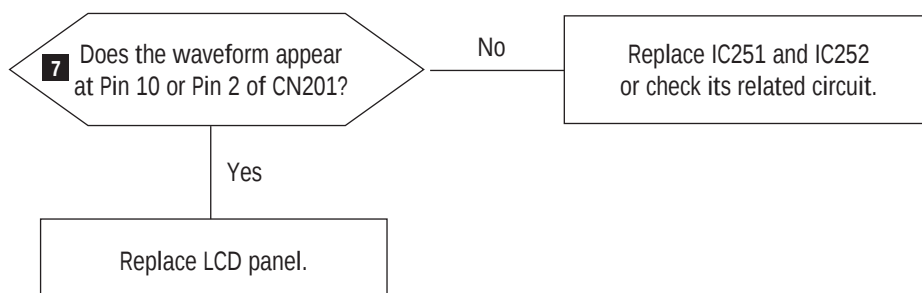


WAVEFORMS

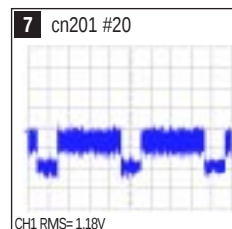


4-3 No Video of Alternate Vertical Line (CN15MSS/MOS)

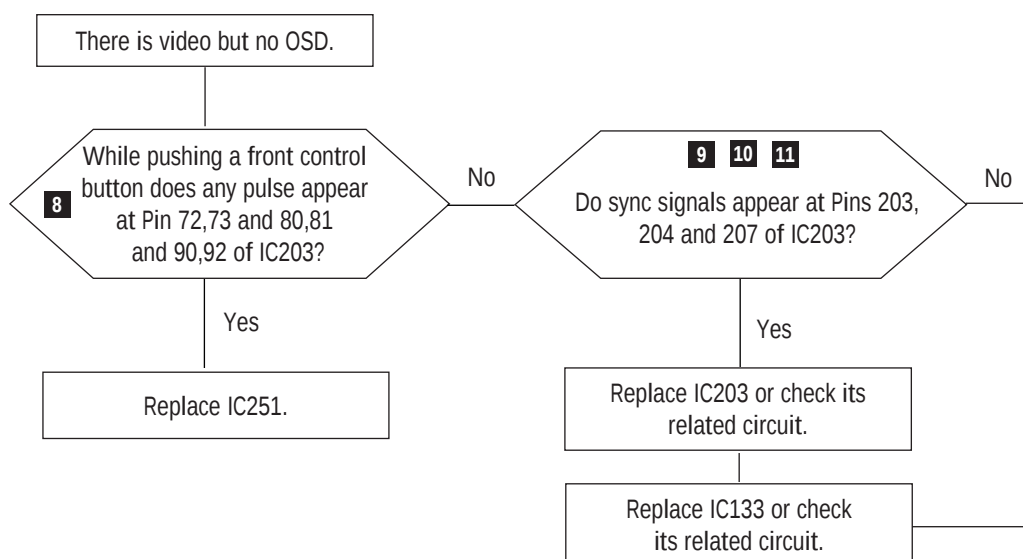
One or more even or odd vertical lines do not display.



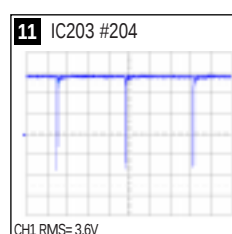
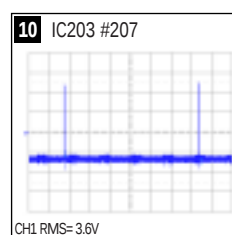
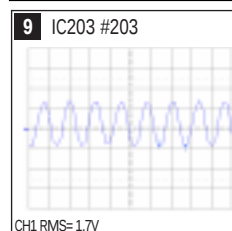
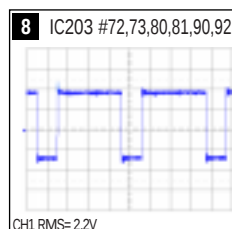
WAVEFORMS



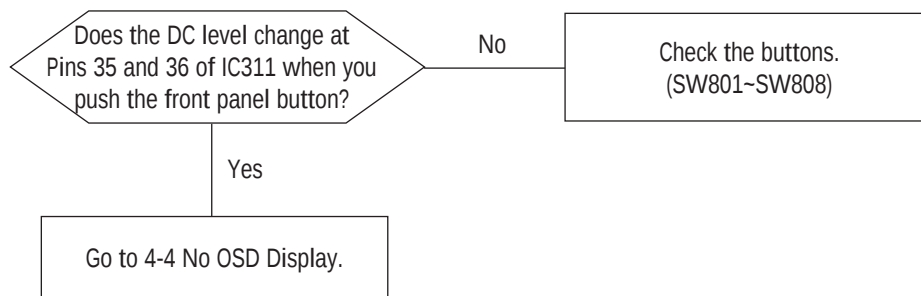
4-4 No OSD (CN15MSS/MOS)



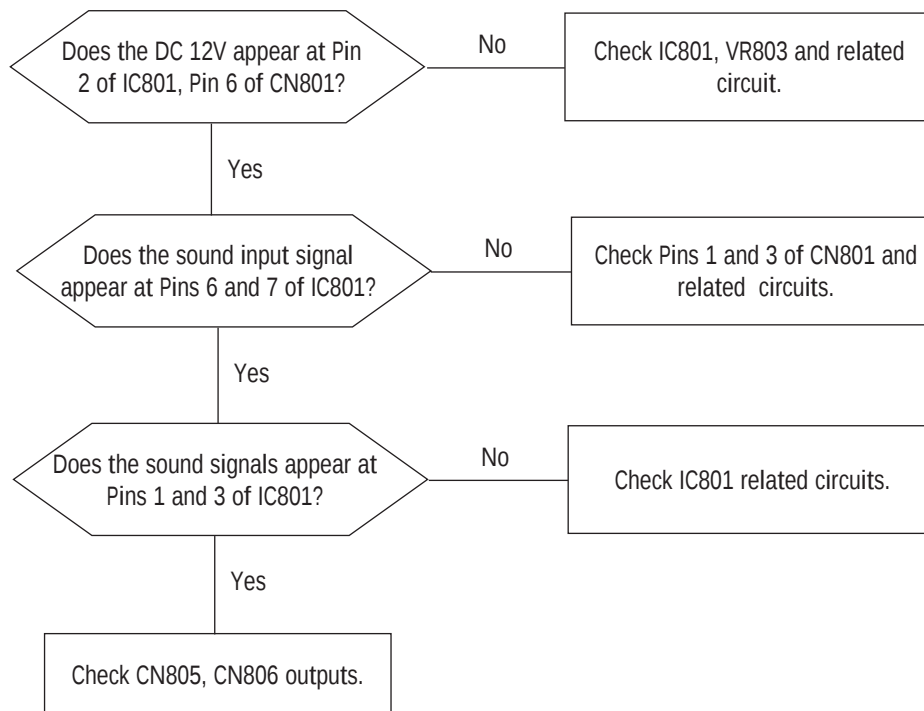
WAVEFORMS



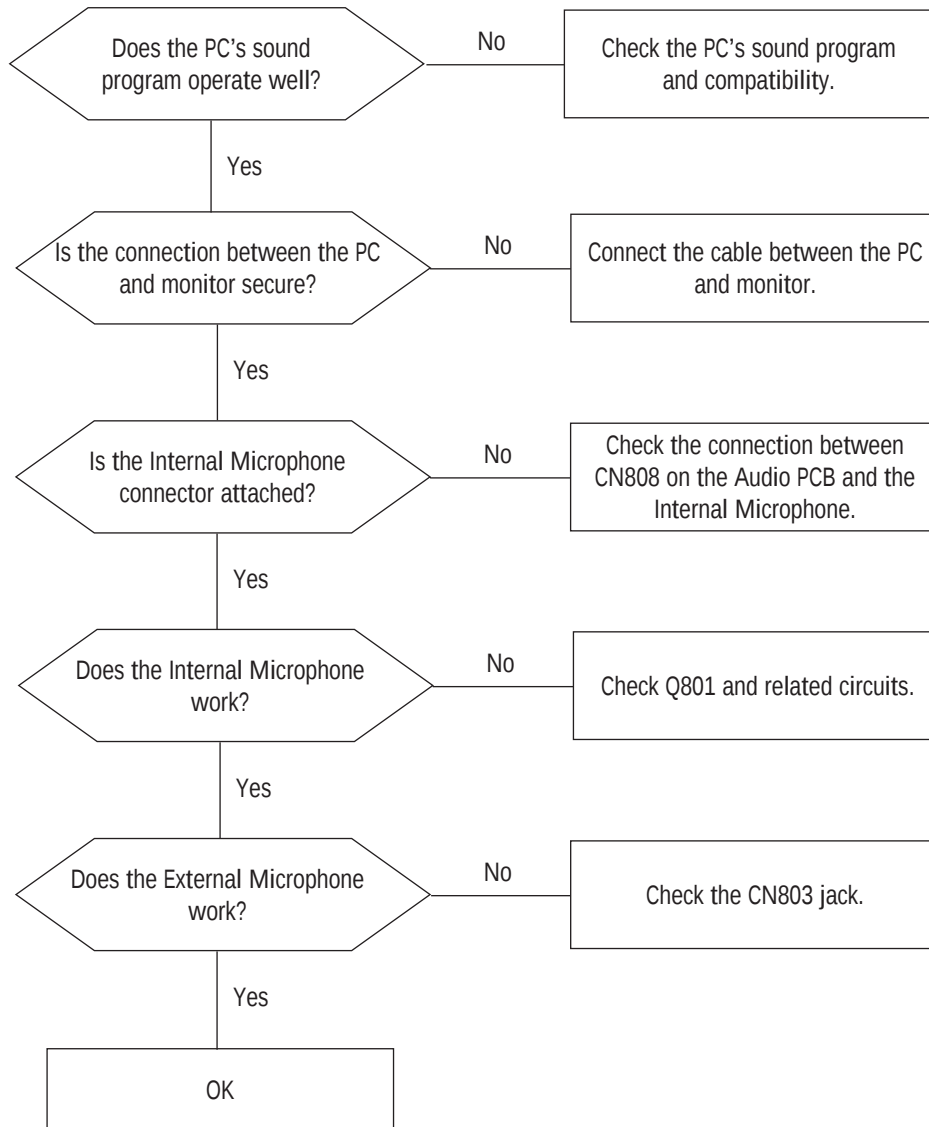
4-5 User Controls Don't Work (CN15MSS/MOS)



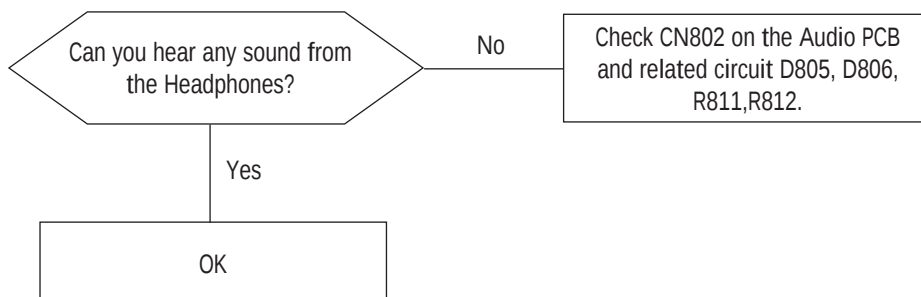
4-6 No Sound (CN 15MSS/MOS)



4-7 Microphones Don't Work



4-8 Headphones Don't Work

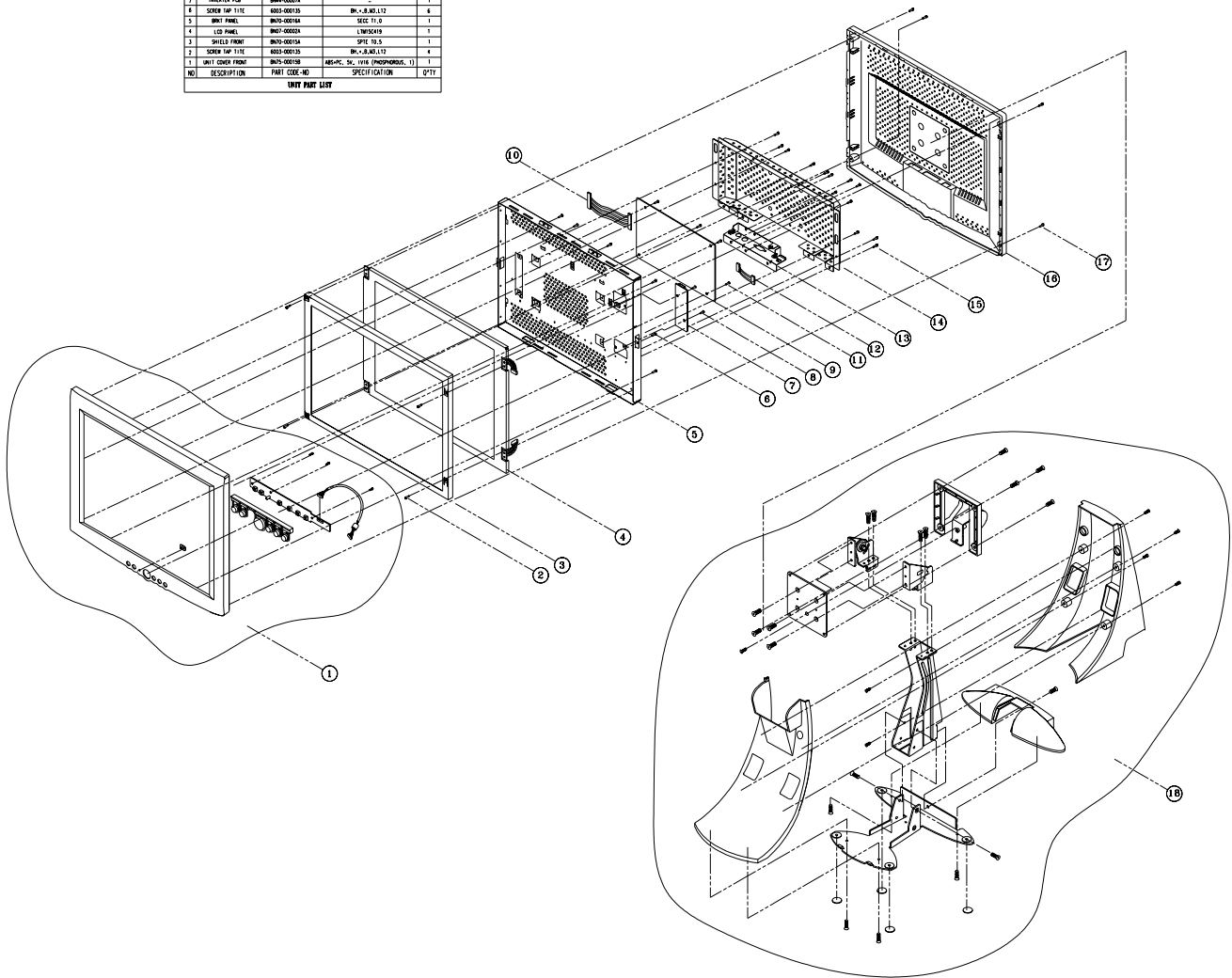


5 Exploded View and Parts List

5-1 Simple Base (CN15MSS)

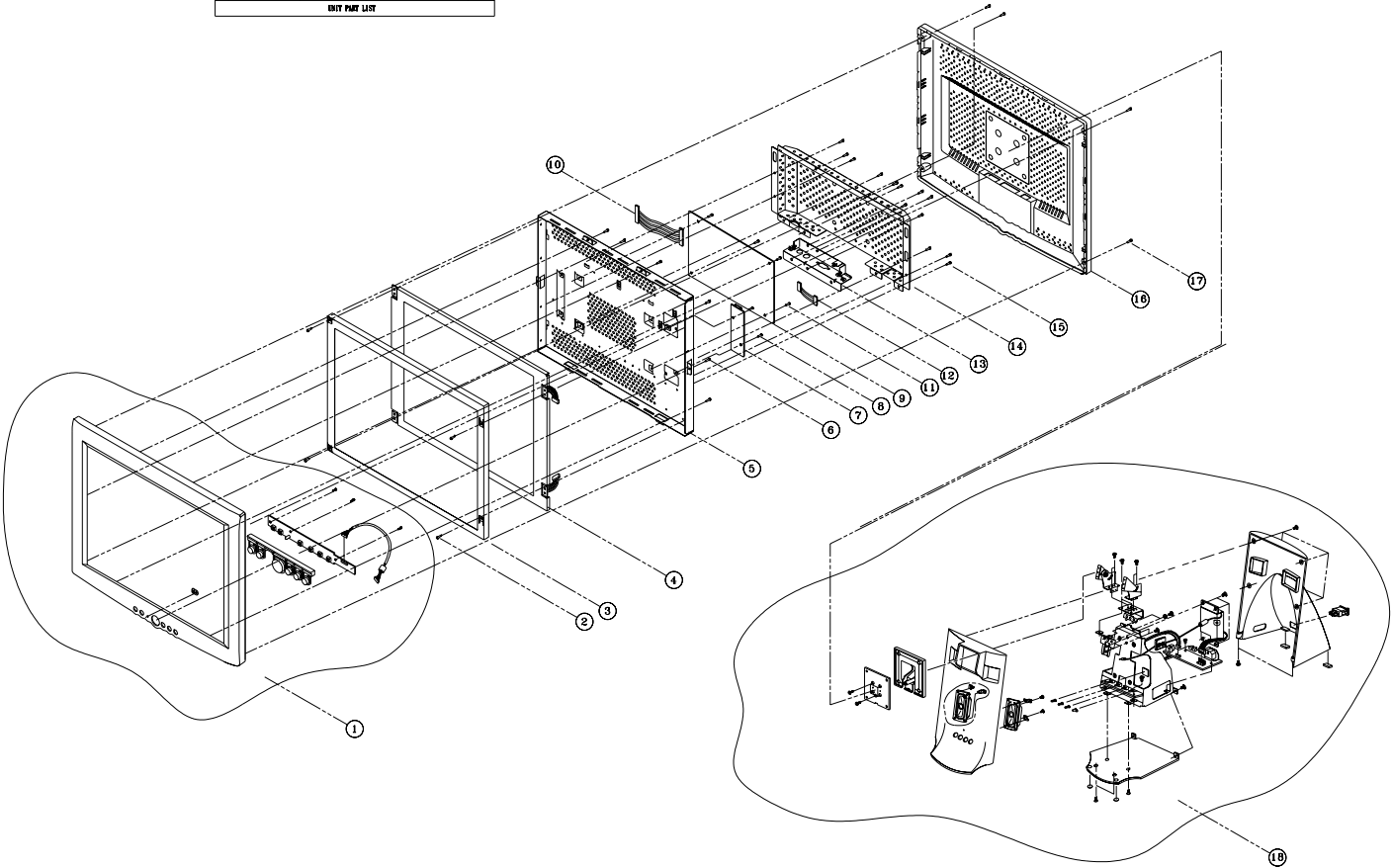
18	UNIT STAND	BN75-00013A	-	1
17	SCREEN TAP TITE	6000-000135	BN-X-3-M0-L12	4
16	COVER REAR	BN70-00003A	ABS-PC, 3x, 1116 (PHOSPHORUS, 1)	1
15	SHIELD TOP TITE	6000-000089	BN-C-3-M0-L14	12
14	SHIELD PCB	BN70-00013A	SEC TO 8	1
13	SHIELD D-SUB	BN70-00018A	SPEC TO 5	1
12	INVERTER WIRESS	BN70-00029	-	1
11	SCREEN TAP TITE	6000-000089	BN-X-3-M0-L14	4
10	LVDS WIRESS	BN70-00013A	-	1
9	MAIN PCB BODY	BN60-000046	-	1
8	SCREEN TAP TITE	6000-000089	BN-X-3-M0-L14	2
7	INVERTER PCB	BN44-00003A	-	1
6	SCREEN TAP TITE	6000-000135	BN-X-3-M0-L12	4
5	MAIN PANEL	BN70-00018A	SEC TO 5	1
4	LED PANEL	BN70-00003A	LW75CA19	1
3	SHIELD FRONT	BN70-00015A	SPEC TO 5	1
2	SCREEN TAP TITE	6000-000135	BN-X-3-M0-L12	4
1	UNIT COVER FRONT	BN70-00018	ABS-PC, 3x, 1116 (PHOSPHORUS, 1)	1
NO	DESCRIPTION	PART CODE-NO	SPECIFICATION	Q'TY

UNIT PART LIST



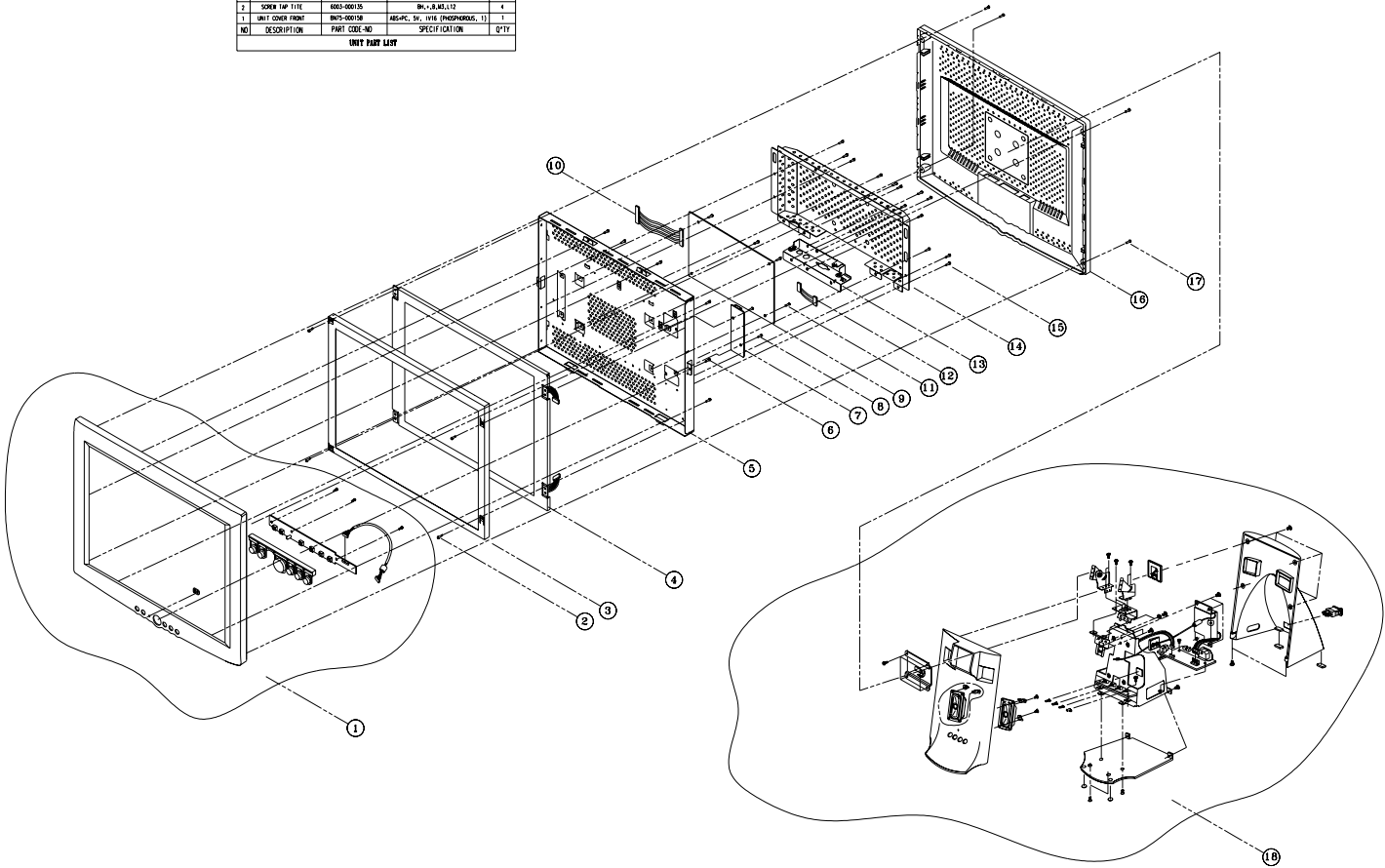
5-2 MultiMedia Base (CN15MSS)

NO.	DESCRIPTION	PART CODE-NO.	SPECIFICATION	Q'TY
18	UNIT STAND MOUNT	BM0-0005A	-	1
17	SCREW TAP TITE	6003-000135	BM x 3.0, L12	4
16	COVER REAR	BM7-00001A	ABS+PC, BK, 1914 (PHOSPHOROUS, 1)	1
15	SCREW TAP TITE	BM0-000000	BM x 3.0, L6	10
14	SHIELD PCB	BM7-00015A	SECC T0.8	1
13	SHIELD D-SUB	BM7-00016A	SPTF T0.5	1
12	INVERTER HARNESS	BM3-00020	-	1
11	SCREW TAP TITE	6003-000000	BM x 3.0, L14	4
10	LEDS HARNESS	BM3-00019A	-	1
9	MAIN PCB ASSTY	BM0-000040	-	1
8	SCREW TAP TITE	6003-000000	BM x 3.0, L14	2
7	INVERTER PCB	BM4-00001A	-	1
6	SCREW TAP TITE	6003-000135	BM x 3.0, L12	8
5	UNIT PANEL	BM7-00016A	SECC T1.0	1
4	LED PANEL	BM7-00002A	1.6M/0.64M	1
3	SHIELD FRONT	BM7-00015A	SPTF T0.5	1
2	SCREW TAP TITE	6003-000135	BM x 3.0, L12	4
1	UNIT COVER FRONT	BM7-000100	ABS+PC, BK, 1914 (PHOSPHOROUS, 1)	1
NO.	DESCRIPTION	PART CODE-NO.	SPECIFICATION	Q'TY

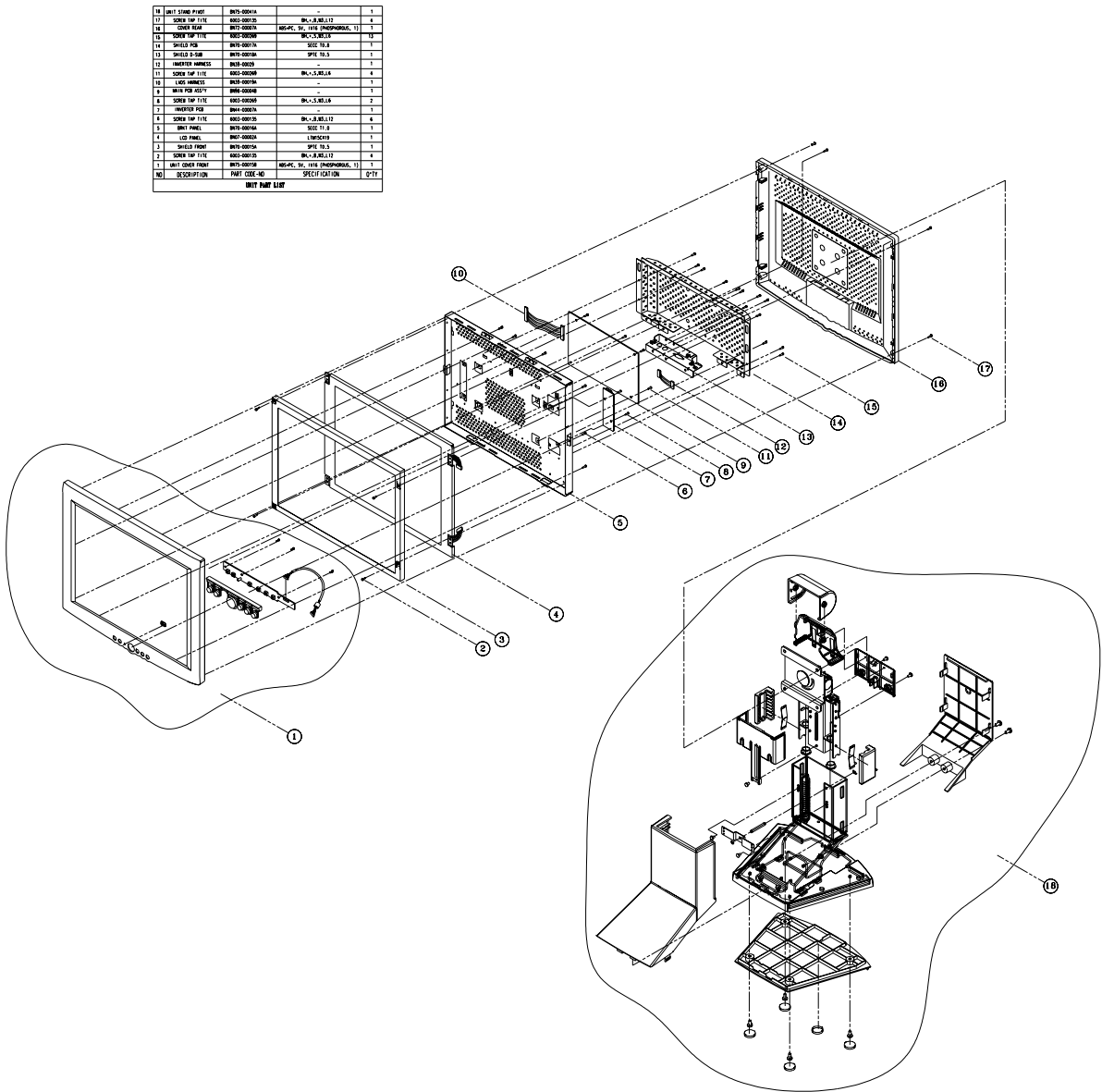


5-3 Pivot-MultiMedia Base (CN15MSS)

18	UNIT STAND PIVOT MULTI	0809-00037A	-	1
17	SCREW TAP T11E	6003-000135	BM-1.5,M0.112	4
16	COVER REAR	0807-00007A	ABS+PC, SK, 1116 (PHOSPHOROUS, 1)	1
15	SCREW TAP T11E	6003-000029	BM-1.5,M0.118	13
14	SHIELD PCB	0805-000176	SECC 10.8	1
13	SHIELD D-SUB	0805-00010A	SPEC 10.5	1
12	INVERTER HARNESS	0809-00009	-	1
11	SCREW TAP T11E	6003-000029	BM-1.5,M0.118	4
10	LYDZ HARNESS	0809-000176	-	1
9	MAIN PCB ASSY	0806-00008	-	1
8	SCREW TAP T11E	6003-000029	BM-1.5,M0.118	2
7	INVERTER PCB	0804-00007A	-	1
6	SCREW TAP T11E	6003-000135	BM-1.5,M0.112	4
5	UNIT PANEL	0805-00016A	SECC 11.0	1
4	LED PANEL	0807-00002A	LTM50419	1
3	SHIELD FRONT	0805-00016A	SPEC 10.5	1
2	SCREW TAP T11E	6003-000135	BM-1.5,M0.112	4
1	UNIT COVER FRONT	0805-00018	ABS+PC, SK, 1116 (PHOSPHOROUS, 1)	1
NO	DESCRIPTION	PART CODE NO	SPECIFICATION	Q'TY



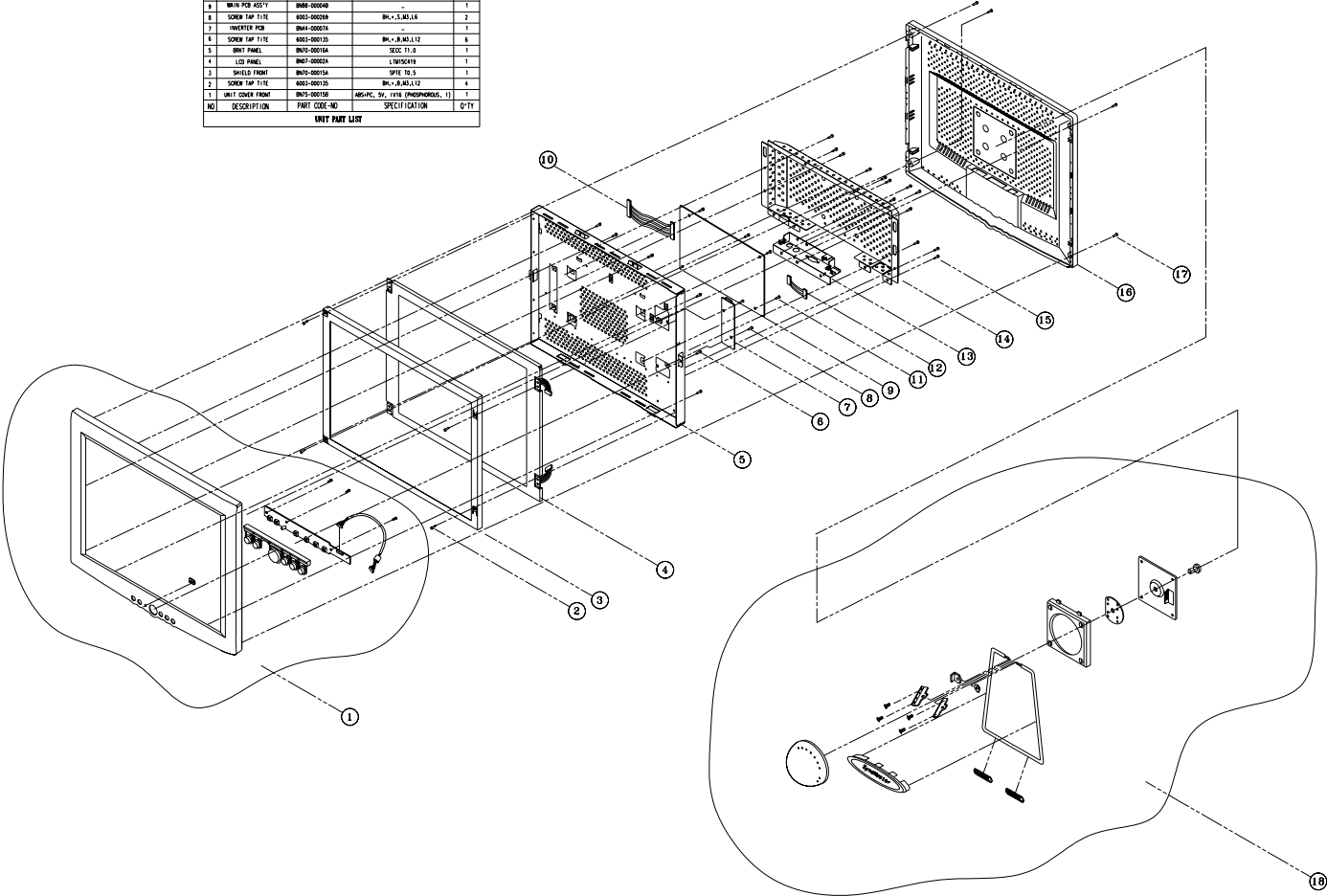
5-4 Angle-Pivot Base (CN15MSS)



5-5 Wire-Frame Base (CN15MSS)

18	UNIT STAND WIRE FRAME	0W7-00040A	-	1
17	SCREW TAP T1T1	6003-000135	0W1-A, 0W1.12	4
16	COVER REAR	0W7-00007A	ABS/PC, 5W, 1700 (PHOSPHOROUS), 13	1
15	SCREW TAP T1T1	6003-000269	0W1-A, 0W1.12	13
14	SHIELD PCB	0W4-00017A	SECC TO. 8	1
13	SHIELD 0-5W	0W5-00018A	SPIE TO. 5	1
12	INVERTER HARNESS	0W3-00022	-	1
11	SCREW TAP T1T1	6003-000269	0W1-A, 0W1.12	4
10	LVDS HARNESS	0W3-00018A	-	1
9	MAIN PCB REPLY	0W6-000040	-	1
8	SCREW TAP T1T1	6003-000269	0W1-A, 0W1.12	2
7	INVERTER PCB	0W4-00007A	-	1
6	SCREW TAP T1T1	6003-000135	0W1-A, 0W1.12	6
5	UNIT PANEL	0W5-00018A	SECC TO. 5	1
4	LED PANEL	0W7-00002A	LW50C419	1
3	SHIELD FRONT	0W5-00015A	SPIE TO. 5	1
2	SCREW TAP T1T1	6003-000135	0W1-A, 0W1.12	4
1	UNIT COVER FRONT	0W5-00018	ABS/PC, 5W, 1700 (PHOSPHOROUS), 13	1
NO	DESCRIPTION	PART CODE-NO	SPECIFICATION	Q'TY

UNIT PART LIST



6 Electrical Parts List

6-1 Main PCB Parts

Loc. No.	Code No.	Description	Specification	Remarks
BD101	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD102	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD103	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD104	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD105	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD106	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD181	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD182	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD183	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD301	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD302	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD303	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
BD304	2703-001334	INDUCTOR-SMD	"1.5uH,10%,2x1.25x0.85mm"	
C101	2402-000170	"C-AL,SMD"	"1uF,20%,50V,GP,TP,4.3x4.3x5.4,"	
C102	2402-000168	"C-AL,SMD"	"100uF,20%,16V,GP,TP,8.3x8.3x6.3mm"	
C103	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C104	2402-000168	"C-AL,SMD"	"100uF,20%,16V,GP,TP,8.3x8.3x6.3mm"	
C105	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C106	2402-000170	"C-AL,SMD"	"1uF,20%,50V,GP,TP,4.3x4.3x5.4,"	
C107	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C108	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C109	2402-000168	"C-AL,SMD"	"100uF,20%,16V,GP,TP,8.3x8.3x6.3mm"	
C110	2409-001029	C-ORGANIC	"120uF,20%,6.3V,WT,TP,10.3x10.3x10.3mm,9"	
C111	2402-000168	"C-AL,SMD"	"100uF,20%,16V,GP,TP,8.3x8.3x6.3mm"	
C112	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C113	2402-000168	"C-AL,SMD"	"100uF,20%,16V,GP,TP,8.3x8.3x6.3mm"	
C114	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C115	2402-000168	"C-AL,SMD"	"100uF,20%,16V,GP,TP,8.3x8.3x6.3mm"	
C116	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C117	2402-000168	"C-AL,SMD"	"100uF,20%,16V,GP,TP,8.3x8.3x6.3mm"	
C118	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C119	2402-000108	"C-AL,SMD"	"10uF,20%,16V,WT,TP,4.3x4.3x5.4"	
C120	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C121	2402-000108	"C-AL,SMD"	"10uF,20%,16V,WT,TP,4.3x4.3x5.4"	
C122	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C123	2402-000108	"C-AL,SMD"	"10uF,20%,16V,WT,TP,4.3x4.3x5.4"	
C124	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C125	2402-000108	"C-AL,SMD"	"10uF,20%,16V,WT,TP,4.3x4.3x5.4"	
C126	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C127	2402-000108	"C-AL,SMD"	"10uF,20%,16V,WT,TP,4.3x4.3x5.4"	
C128	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C131	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C132	2402-000108	"C-AL,SMD"	"10uF,20%,16V,WT,TP,4.3x4.3x5.4"	
C133	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C134	2402-000108	"C-AL,SMD"	"10uF,20%,16V,WT,TP,4.3x4.3x5.4"	
C135	2203-000681	"C-CERAMIC,CHIP"	"0.027nF,5%,50V,NP0,TP,1608"	
C136	2203-000681	"C-CERAMIC,CHIP"	"0.027nF,5%,50V,NP0,TP,1608"	

6 Electrical Parts List

Loc. No.	Code No.	Description	Specification	Remarks
C137	2203-000681	"C-CERAMIC,CHIP"	"0.027nF,5%,50V,NP0,TP,1608"	
C138	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C139	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C140	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C141	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C142	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C143	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C144	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C145	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C146	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C147	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C148	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C149	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C150	2203-000357	"C-CERAMIC,CHIP"	"0.15nF,5%,50V,NP0,TP,1608"	
C151	2203-000843	"C-CERAMIC,CHIP"	"39nF,10%,25V,X7R,TP,1608,-"	
C152	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C153	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C154	2203-002398	"C-CERAMIC,CHIP"	"22nF,10%,50V,X7R,TP,1608"	
C155	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C156	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C157	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C158	2203-002398	"C-CERAMIC,CHIP"	"22nF,10%,50V,X7R,TP,1608"	
C159	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C160	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C161	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C162	2203-002398	"C-CERAMIC,CHIP"	"22nF,10%,50V,X7R,TP,1608"	
C163	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C164	2203-000140	"C-CERAMIC,CHIP"	"1.5nF,10%,50V,X7R,TP,1608,-"	
C165	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C166	2203-000357	"C-CERAMIC,CHIP"	"0.15nF,5%,50V,NP0,TP,1608"	
C167	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C168	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C169	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C170	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C171	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C172	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C173	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C174	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C175	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C176	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C177	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C178	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C181	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C182	2402-000108	"C-AL,SMD"	"10uF,20%,16V,WT,TP,4.3x4.3x5.4"	
C183	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C184	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C185	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	

Loc. No.	Code No.	Description	Specification	Remarks
C186	2402-000108	"C-AL,SMD"	"10uF,20%,16V,WT,TP,4.3x4.3x5.4"	
C187	2203-000236	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1608"	
C188	2203-000236	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1608"	
C201	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C202	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C203	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C204	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C205	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C206	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C207	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C208	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C209	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C210	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C211	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C212	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C213	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C214	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C215	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C216	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C217	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C218	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C219	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C220	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C221	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C222	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C223	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C224	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C225	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C226	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C227	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C228	2203-000626	"C-CERAMIC,CHIP"	"0.022nF,5%,50V,NP0,TP,1608"	
C229	2203-000626	"C-CERAMIC,CHIP"	"0.022nF,5%,50V,NP0,TP,1608"	
C230	2203-000626	"C-CERAMIC,CHIP"	"0.022nF,5%,50V,NP0,TP,1608"	
C231	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C232	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C251	2402-000108	"C-AL,SMD"	"10uF,20%,16V,WT,TP,4.3x4.3x5.4"	
C252	2203-000440	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1608,-"	
C253	2402-000108	"C-AL,SMD"	"10uF,20%,16V,WT,TP,4.3x4.3x5.4"	
C254	2203-000440	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1608,-"	
C255	2402-000108	"C-AL,SMD"	"10uF,20%,16V,WT,TP,4.3x4.3x5.4"	
C256	2203-000440	"C-CERAMIC,CHIP"	"1nF,10%,50V,X7R,TP,1608,-"	
C257	2402-000108	"C-AL,SMD"	"10uF,20%,16V,WT,TP,4.3x4.3x5.4"	
C258	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C301	2402-000108	"C-AL,SMD"	"10uF,20%,16V,WT,TP,4.3x4.3x5.4"	
C302	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C303	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C304	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	

6 Electrical Parts List

Loc. No.	Code No.	Description	Specification	Remarks
C311	2203-000626	"C-CERAMIC,CHIP"	"0.022nF,5%,50V,NP0,TP,1608"	
C312	2203-000626	"C-CERAMIC,CHIP"	"0.022nF,5%,50V,NP0,TP,1608"	
C313	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C314	2402-000108	"C-AL,SMD"	"10uF,20%,16V,WT,TP,4.3x4.3x5.4"	
C315	2402-000168	"C-AL,SMD"	"100uF,20%,16V,GP,TP,8.3x8.3x6.3mm"	
C316	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C371	2402-000108	"C-AL,SMD"	"10uF,20%,16V,WT,TP,4.3x4.3x5.4"	
C372	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
C373	2402-000108	"C-AL,SMD"	"10uF,20%,16V,WT,TP,4.3x4.3x5.4"	
C374	2203-000257	"C-CERAMIC,CHIP"	"10nF,10%,50V,X7R,TP,1608"	
C375	2203-000236	"C-CERAMIC,CHIP"	"0.1nF,5%,50V,NP0,TP,1608"	
C376	2402-000108	"C-AL,SMD"	"10uF,20%,16V,WT,TP,4.3x4.3x5.4"	
C377	2203-005005	"C-CERAMIC,CHIP"	"100nF,10%,16V,X7R,TP,1608"	
CIS	BN70-00018A	SHIELD-D/SUB	"RN15AS,SPTE,0.5,-,-"	
CIS	BN46-00004X	"MICOM-S/W,CN15M(SDD)"	"CEZANNE(CN15M),-,-,-,-,-"	
CL102	BN27-20001A	COIL-CHOK		
CN101	3722-000117	JACK-DC POWER	"3P,3.5mm,AG,BLK,NO"	
CN102	3701-001160	CONNECTOR-DSUB	"15P,3R,FEMALE,ANGLE,AU15U"	
CN201	3711-003161	CONNECTOR-HEADER	"BOX,20P,1R,1.25mm,ANGLE,SN"	
CN301	3711-000556	CONNECTOR-HEADER	"BOX,12P,1R,1.25mm,SMD-A,SN"	
CN302	3711-002049	CONNECTOR-HEADER	"BOX,6P,1R,1.25mm,SMD-A,SN"	
CN304	3711-000056	CONNECTOR-HEADER	"BOX,2P,1R,2.5mm,ANGLE,SN"	
D101	0402-000553	DIODE-RECTIFIER	"SS24,40V,2.0A,DO-214AA"	
D131	0401-001056	DIODE-SWITCHING	"MMBD4148SE,75V,600mA,SOT-23,TP"	
D132	0401-001056	DIODE-SWITCHING	"MMBD4148SE,75V,600mA,SOT-23,TP"	
D133	0401-001056	DIODE-SWITCHING	"MMBD4148SE,75V,600mA,SOT-23,TP"	
D134	0401-001056	DIODE-SWITCHING	"MMBD4148SE,75V,600mA,SOT-23,TP"	
D301	0401-001056	DIODE-SWITCHING	"MMBD4148SE,75V,600mA,SOT-23,TP"	
D302	0401-001056	DIODE-SWITCHING	"MMBD4148SE,75V,600mA,SOT-23,TP"	
FT101	3301-001145	CORE-FERRITE BEAD	"AB,4.5x1.6x1.6mm,-,-"	
FT131	2901-001114	FILTER-EMI SMD	"25VDC,2.0ADC,-,100nF,3.2x1.6x1"	
FT132	2901-001114	FILTER-EMI SMD	"25VDC,2.0ADC,-,100nF,3.2x1.6x1"	
FT133	2901-001114	FILTER-EMI SMD	"25VDC,2.0ADC,-,100nF,3.2x1.6x1"	
FT134	2901-001114	FILTER-EMI SMD	"25VDC,2.0ADC,-,100nF,3.2x1.6x1"	
FT135	2901-001114	FILTER-EMI SMD	"25VDC,2.0ADC,-,100nF,3.2x1.6x1"	
FT136	2901-001114	FILTER-EMI SMD	"25VDC,2.0ADC,-,100nF,3.2x1.6x1"	
FT137	2901-001114	FILTER-EMI SMD	"25VDC,2.0ADC,-,100nF,3.2x1.6x1"	
FT201	2901-001114	FILTER-EMI SMD	"25VDC,2.0ADC,-,100nF,3.2x1.6x1"	
FT202	2901-001114	FILTER-EMI SMD	"25VDC,2.0ADC,-,100nF,3.2x1.6x1"	
FT203	2901-001114	FILTER-EMI SMD	"25VDC,2.0ADC,-,100nF,3.2x1.6x1"	
FT204	2901-001114	FILTER-EMI SMD	"25VDC,2.0ADC,-,100nF,3.2x1.6x1"	
FT205	2901-001114	FILTER-EMI SMD	"25VDC,2.0ADC,-,100nF,3.2x1.6x1"	
FT251	2901-001114	FILTER-EMI SMD	"25VDC,2.0ADC,-,100nF,3.2x1.6x1"	
FT252	2901-001114	FILTER-EMI SMD	"25VDC,2.0ADC,-,100nF,3.2x1.6x1"	
FT253	2901-001114	FILTER-EMI SMD	"25VDC,2.0ADC,-,100nF,3.2x1.6x1"	
FT254	2901-001114	FILTER-EMI SMD	"25VDC,2.0ADC,-,100nF,3.2x1.6x1"	
IC101	0505-001170	FET-SILICON	"SI9933ADY-T1,P,-20V,3.4A,0.075OHM,2W,SO-8"	

Loc. No.	Code No.	Description	Specification	Remarks
IC102	1203-001488	IC-POSI.FIXED REG.	"7805,T0-252,3P,-,PLASTIC,4.8/5"	
IC103	0505-001170	FET-SILICON	"SI9933ADY-T1,P,-,20V,3.4A,0.075OHM,2W,SO-8"	
IC104	1203-001447	IC-POSI.FIXED REG.	"2596,T0-263,5P,-,PLASTIC,3.135"	
IC105	1203-001488	IC-POSI.FIXED REG.	"7805,T0-252,3P,-,PLASTIC,4.8/5"	
IC106	1203-001488	IC-POSI.FIXED REG.	"7805,T0-252,3P,-,PLASTIC,4.8/5"	
IC131	1203-001538	IC-POSI.ADJUST REG.	"431,SOT-89,3P,-,PLASTIC,2.47/3"	
IC132	0803-000275	IC-TTL	"74F32,OR GATE,SOP,14P,150MIL,Q"	
IC133	1002-001224	IC-A/D CONVERTER	"TDA8752BH/8/C5,8BIT,QFP,100P,-,±0.5LSB,TR,-,PLASTIC,5.25V,0to+70C,1.1W,Triple 8"	
IC181	1204-000292	IC-VIDEO SYSTEM	"LM1881M,SOP,8P,150MIL,PLASTIC,"	
IC182	0803-000122	IC-TTL	"74F125,BUFFER,SOP,14P,150MIL,Q"	
IC201	1105-001165	IC-DRAM	"416S1020,512Kx16BITx2,TSOP,50P"	
IC202	1105-001165	IC-DRAM	"416S1020,512Kx16BITx2,TSOP,50P"	
IC203	1003-001295	IC-LCD CONTROLLER	"MX88L284FC,QFP,208P,-,DUAL,-,TR,PLASTIC,-,0to+70C,-,-,-"	
IC251	1205-001740	IC-TRANSMITTER	"DS90C385,TSSOP,56P,240MIL,PLASTIC,4V,1.63W,-10 TO +70C,ST,FPD LINK-85MHZ(LVDS)"	
IC311	0903-001194	IC-MICROCONTROLLER	"3P863,8Bit,SDIP,42P,600MIL,12MHz,ST,CMOS,PLASTIC,5V,-,-40to+85C,1040BYTE,48KBYTE"	
IC311_SOCKET	3704-001071	SOCKET-IC	"42P,DIP,SN,1.778mm"	
IC312	1203-001109	IC-VOL. DETECTOR	"7045,SOT-89,3P,-,PLASTIC,4.3/4"	
IC371	1103-001023	IC-EEPROM	"524C80D81,1028x8Bit,SOP,8P,150MIL,10mS,5V,10%,PLASTIC,0to+70C,110uA,CMOS,TP"	
IC372	1103-001164	IC-EEPROM	"24LC21A,128X8BIT,SOP,8P,150MIL,-,5V,10%,PLASTIC,0 TO +70C,100UA,CMOS,TP"	
IC373	0803-000122	IC-TTL	"74F125,BUFFER,SOP,14P,150MIL,Q"	
L101	2703-001070	INDUCTOR-SMD	"100uH,10%,4.5x3.2x3.2mm"	
L102	2703-001070	INDUCTOR-SMD	"100uH,10%,4.5x3.2x3.2mm"	
L103	2703-001070	INDUCTOR-SMD	"100uH,10%,4.5x3.2x3.2mm"	
MP1.0	BN41-00033A	PCB-MAIN	"CN15LS,FR-4,4,172.4*107.0*1.6,1.6T"	
Q101	0501-002080	TR-SMALL SIGNAL	"2SC2412K,NPN,200mW,SOT-23,TP,1"	
Q102	0501-002080	TR-SMALL SIGNAL	"2SC2412K,NPN,200mW,SOT-23,TP,1"	
Q103	0501-002080	TR-SMALL SIGNAL	"2SC2412K,NPN,200mW,SOT-23,TP,1"	
Q181	0501-002080	TR-SMALL SIGNAL	"2SC2412K,NPN,200mW,SOT-23,TP,1"	
Q311	0501-002080	TR-SMALL SIGNAL	"2SC2412K,NPN,200mW,SOT-23,TP,1"	
Q312	0501-002080	TR-SMALL SIGNAL	"2SC2412K,NPN,200mW,SOT-23,TP,1"	
R101	2007-000084	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1608"	
R102	2007-000090	R-CHIP	"10Kohm,5%,1/16W,DA,TP,1608"	
R103	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R104	2007-000102	R-CHIP	"100Kohm,5%,1/16W,DA,TP,1608"	
R105	2007-000102	R-CHIP	"100Kohm,5%,1/16W,DA,TP,1608"	
R106	2007-000102	R-CHIP	"100Kohm,5%,1/16W,DA,TP,1608"	
R107	2007-000090	R-CHIP	"10Kohm,5%,1/16W,DA,TP,1608"	
R108	2007-000084	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1608"	
R131	2007-001167	R-CHIP	"75ohm,5%,1/16W,DA,TP,1608"	
R132	2007-001167	R-CHIP	"75ohm,5%,1/16W,DA,TP,1608"	
R133	2007-001167	R-CHIP	"75ohm,5%,1/16W,DA,TP,1608"	
R134	2007-000113	R-CHIP	"33ohm,5%,1/16W,DA,TP,1608"	
R135	2007-000113	R-CHIP	"33ohm,5%,1/16W,DA,TP,1608"	
R136	2007-000113	R-CHIP	"33ohm,5%,1/16W,DA,TP,1608"	
R137	2007-000124	R-CHIP	"2.2Kohm,5%,1/16W,DA,TP,1608"	
R138	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R140	2007-000070	R-CHIP	"0ohm,5%,1/16W,DA,TP,1608"	

6 Electrical Parts List

Loc. No.	Code No.	Description	Specification	Remarks
R141	2007-000084	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1608"	
R142	2007-000078	R-CHIP	"1Kohm,5%,1/16W,DA,TP,1608"	
R143	2007-000071	R-CHIP	"22ohm,5%,1/16W,DA,TP,1608"	
R144	2007-000071	R-CHIP	"22ohm,5%,1/16W,DA,TP,1608"	
R181	2007-000116	R-CHIP	"120ohm,5%,1/16W,DA,TP,1608"	
R182	2007-001114	R-CHIP	"680Kohm,5%,1/16W,DA,TP,1608"	
R183	2007-000084	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1608"	
R184	2007-000090	R-CHIP	"10Kohm,5%,1/16W,DA,TP,1608"	
R185	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R186	2007-000090	R-CHIP	"10Kohm,5%,1/16W,DA,TP,1608"	
R187	2007-001167	R-CHIP	"75ohm,5%,1/16W,DA,TP,1608"	
R188	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R203	2007-000084	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1608"	
R205	2007-000109	R-CHIP	"1Mohm,5%,1/16W,DA,TP,1608"	
R206	2007-001167	R-CHIP	"75ohm,5%,1/16W,DA,TP,1608"	
R301	2007-000078	R-CHIP	"1Kohm,5%,1/16W,DA,TP,1608"	
R311	2007-000084	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1608"	
R312	2007-000084	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1608"	
R313	2007-000084	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1608"	
R314	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R315	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R316	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R317	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R318	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R319	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R320	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R321	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R322	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R323	2007-000109	R-CHIP	"1Mohm,5%,1/16W,DA,TP,1608"	
R324	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R325	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R326	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R327	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R328	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R329	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R330	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R331	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R332	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R333	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R334	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R335	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R336	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R337	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R338	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R339	2007-000084	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1608"	
R340	2007-000084	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1608"	
R341	2007-000084	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1608"	

Loc. No.	Code No.	Description	Specification	Remarks
R342	2007-000075	R-CHIP	"220ohm,5%,1/16W,DA,TP,1608"	
R343	2007-000084	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1608"	
R344	2007-000084	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1608"	
R345	2007-000084	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1608"	
R346	2007-000084	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1608"	
R347	2007-000084	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1608"	
R348	2007-000078	R-CHIP	"1Kohm,5%,1/16W,DA,TP,1608"	
R349	2007-000075	R-CHIP	"220ohm,5%,1/16W,DA,TP,1608"	
R350	2007-000077	R-CHIP	"470ohm,5%,1/16W,DA,TP,1608"	
R351	2007-000120	R-CHIP	"680ohm,5%,1/16W,DA,TP,1608"	
R362	2007-000070	R-CHIP	"0ohm,5%,1/16W,DA,TP,1608"	
R371	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R372	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R373	2007-000092	R-CHIP	"15Kohm,5%,1/16W,DA,TP,1608"	
R374	2007-000092	R-CHIP	"15Kohm,5%,1/16W,DA,TP,1608"	
R375	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R376	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R377	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R901	2007-001167	R-CHIP	"75ohm,5%,1/16W,DA,TP,1608"	
R971	2007-000084	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1608"	
R972	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R973	2007-000075	R-CHIP	"220ohm,5%,1/16W,DA,TP,1608"	
R974	2007-000120	R-CHIP	"680ohm,5%,1/16W,DA,TP,1608"	
R975	2007-000074	R-CHIP	"100ohm,5%,1/16W,DA,TP,1608"	
R976	2007-000084	R-CHIP	"4.7Kohm,5%,1/16W,DA,TP,1608"	
RA131	2011-001015	R-NETWORK	"1Kohm,5%,1/16W,L,CHIP,8P,TP"	
RA132	2011-001015	R-NETWORK	"1Kohm,5%,1/16W,L,CHIP,8P,TP"	
RA133	2011-001015	R-NETWORK	"1Kohm,5%,1/16W,L,CHIP,8P,TP"	
RA134	2011-001015	R-NETWORK	"1Kohm,5%,1/16W,L,CHIP,8P,TP"	
RA135	2011-001015	R-NETWORK	"1Kohm,5%,1/16W,L,CHIP,8P,TP"	
RA136	2011-001015	R-NETWORK	"1Kohm,5%,1/16W,L,CHIP,8P,TP"	
RA137	2011-000002	R-NETWORK	"22ohm,5%,63mW,L,CHIP,8P,TP"	
RA138	2011-000002	R-NETWORK	"22ohm,5%,63mW,L,CHIP,8P,TP"	
RA139	2011-000002	R-NETWORK	"22ohm,5%,63mW,L,CHIP,8P,TP"	
RA140	2011-000002	R-NETWORK	"22ohm,5%,63mW,L,CHIP,8P,TP"	
RA141	2011-000002	R-NETWORK	"22ohm,5%,63mW,L,CHIP,8P,TP"	
RA142	2011-000002	R-NETWORK	"22ohm,5%,63mW,L,CHIP,8P,TP"	
RA205	2011-000002	R-NETWORK	"22ohm,5%,63mW,L,CHIP,8P,TP"	
RA206	2011-000002	R-NETWORK	"22ohm,5%,63mW,L,CHIP,8P,TP"	
RA207	2011-000002	R-NETWORK	"22ohm,5%,63mW,L,CHIP,8P,TP"	
RA208	2011-000002	R-NETWORK	"22ohm,5%,63mW,L,CHIP,8P,TP"	
RA209	2011-000002	R-NETWORK	"22ohm,5%,63mW,L,CHIP,8P,TP"	
RA210	2011-000002	R-NETWORK	"22ohm,5%,63mW,L,CHIP,8P,TP"	
RC201	2503-001018	C-NETWORK	"15PFX4,10%,50V,-"	
RC202	2503-001018	C-NETWORK	"15PFX4,10%,50V,-"	
RC203	2503-001018	C-NETWORK	"15PFX4,10%,50V,-"	
RC204	2503-001018	C-NETWORK	"15PFX4,10%,50V,-"	

6 Electrical Parts List

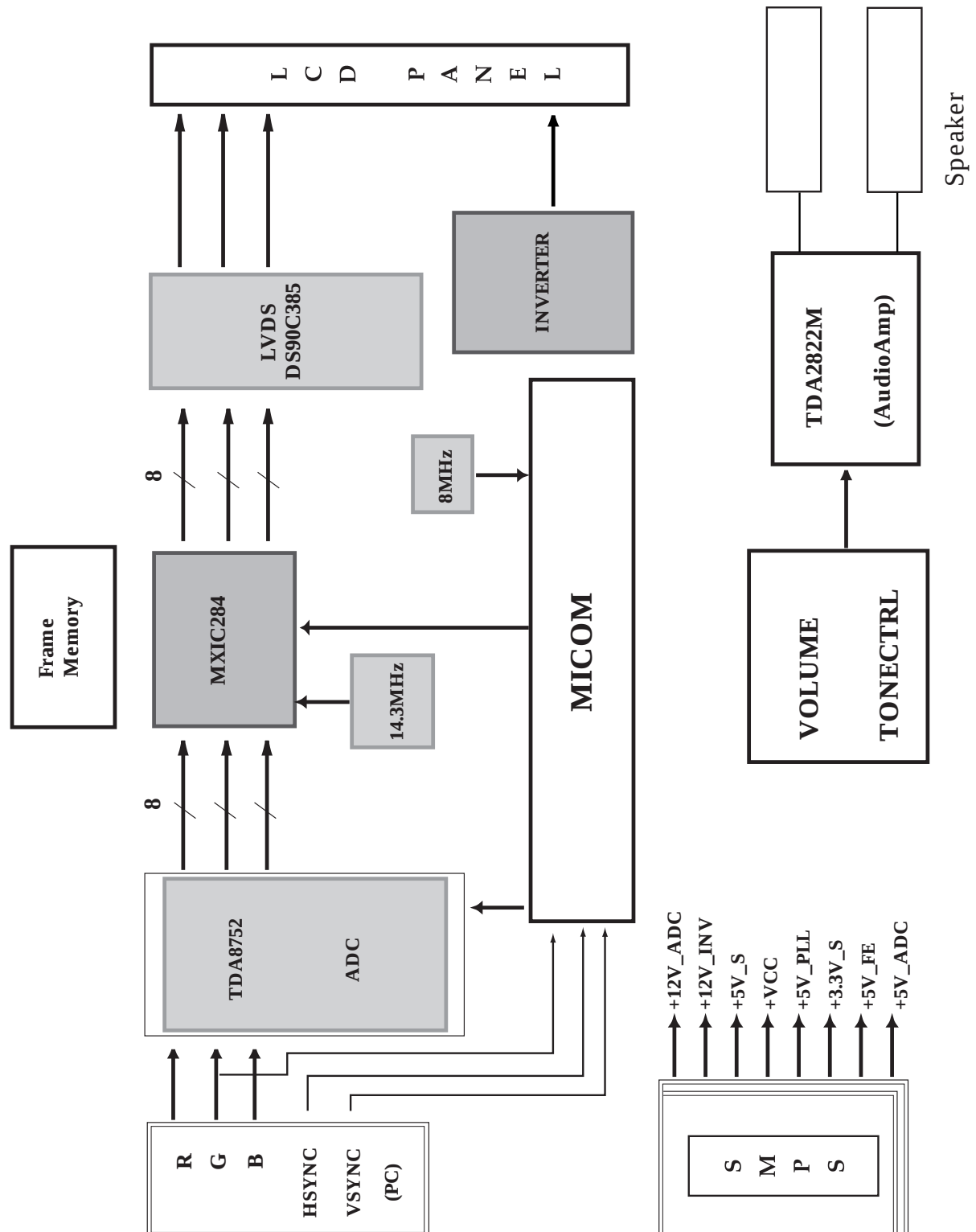
Loc. No.	Code No.	Description	Specification	Remarks
RC205	2503-001018	C-NETWORK	"15PFX4,10%,50V,-"	
RC206	2503-001018	C-NETWORK	"15PFX4,10%,50V,-"	
X201	2801-003667	CRYSTAL-SMD	"14.3182MHZ,50PPM,28-AAN,16,50OHM,TP"	
X311	2801-003773	CRYSTAL-SMD	"12MHZ,30PPM,28-AAN,20PF,50OHM,TP"	
ZD181	0403-000579	DIODE-ZENER	"BZX84C5V1,5.1V,5%,200mW,SOT-23"	
ZD182	0403-000579	DIODE-ZENER	"BZX84C5V1,5.1V,5%,200mW,SOT-23"	
ZD183	0403-000579	DIODE-ZENER	"BZX84C5V1,5.1V,5%,200mW,SOT-23"	
ZD184	0403-000579	DIODE-ZENER	"BZX84C5V1,5.1V,5%,200mW,SOT-23"	
ZD185	0403-000579	DIODE-ZENER	"BZX84C5V1,5.1V,5%,200mW,SOT-23"	
ZD311	0403-000579	DIODE-ZENER	"BZX84C5V1,5.1V,5%,200mW,SOT-23"	

Others

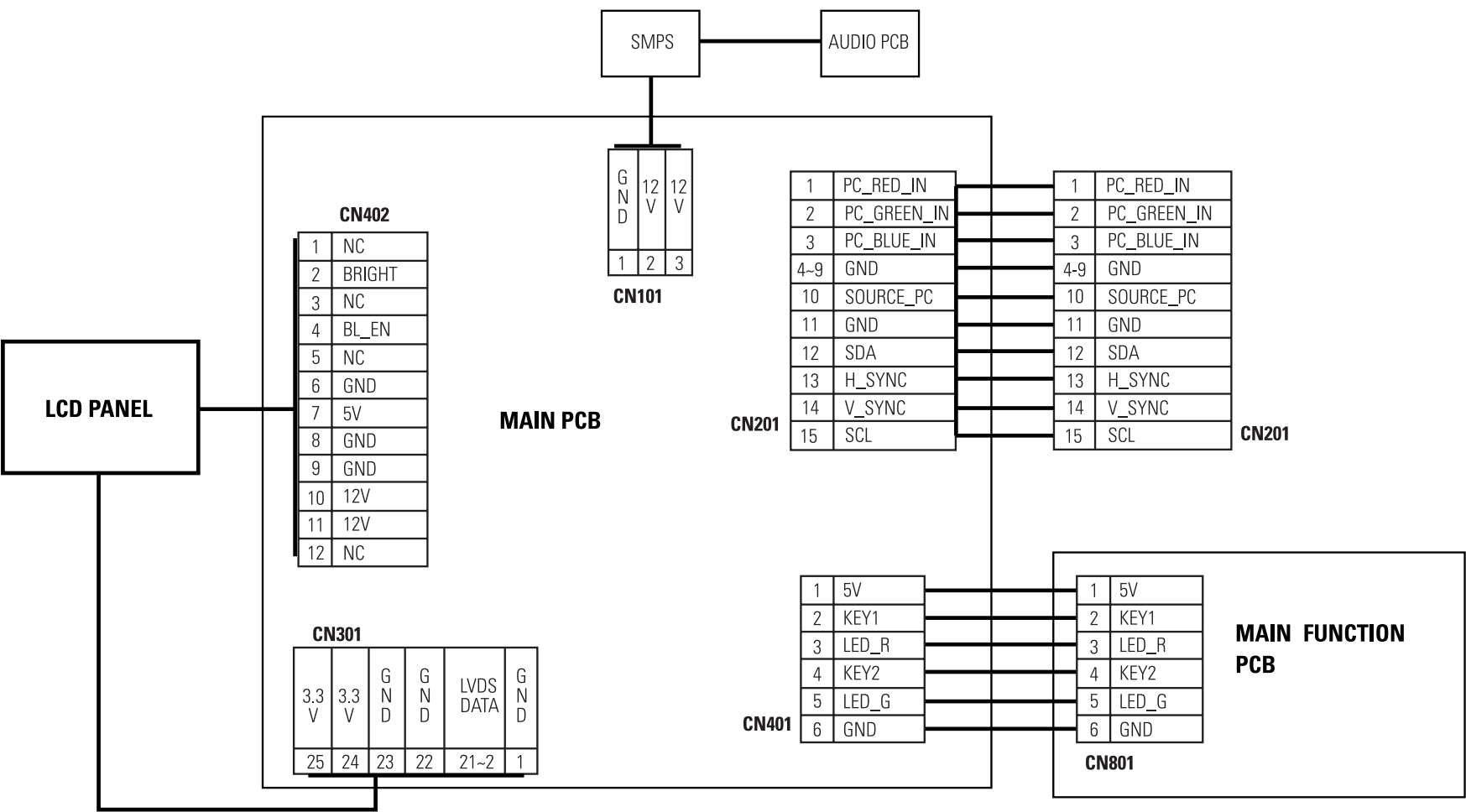
Loc. No.	Code No.	Description	Specification	Remarks
-	BN91-00018C	ASSY MAIN/AUTO-ST	"CN15MS-XGL2/0000,-,-,-"	⚠
-	BN95-00040E	"ASSY,MANUAL"	"RN15MSSSN/EDC,E/S/F/G/P/I/R,EDC,NETHERLAND"	
CIS	BN39-00028A	CBF-HARNESS	"6P/6P,170MM,BLK,UL2835,AWG28-3C,51021-06"	
CIS	BN46-00004X	"MICOM-S/W,CN15M(SDD)"	"CEZANNE(CN15M),-,-,-,-,-"	
CN301+INV	BN39-00002A	CBF-HARNESS	"-,60,BLU/WHT,-,26,-"	
CIS	BN39-00030A	CBF-SIGNAL	"DETACHABLE,1830MM,15P/15P,-,2990,D-SUB-MALE"	
CN201+PAN	BN39-00083A	CBF-HARNESS	"20P,140MM,-,UL1571,AWG30,DF14-20S-1.25C"	
CIS	BH39-10007A	CBF POWER CORD	"DET,H05VV-F,250V/6A,IVY,1830MM"	
CIS	BN44-00022A	INVERTER	"SIC241T(S),2LAMP,-,15,11.5~12.5,121.0*30.5*14.0"	
CIS	BN68-00075H	MANUAL-USERS	"S/M570B/580BTFT,SAMSUNG,E/F/S/G/P/I/R,W/W,MIMOJO80G,-,148X210,I/B,-"	
-	BN98-00015C	ASSY PCB/MAIN-ST	"CN15MS-XGL2/0000,-,-,-"	

7 Block Diagram

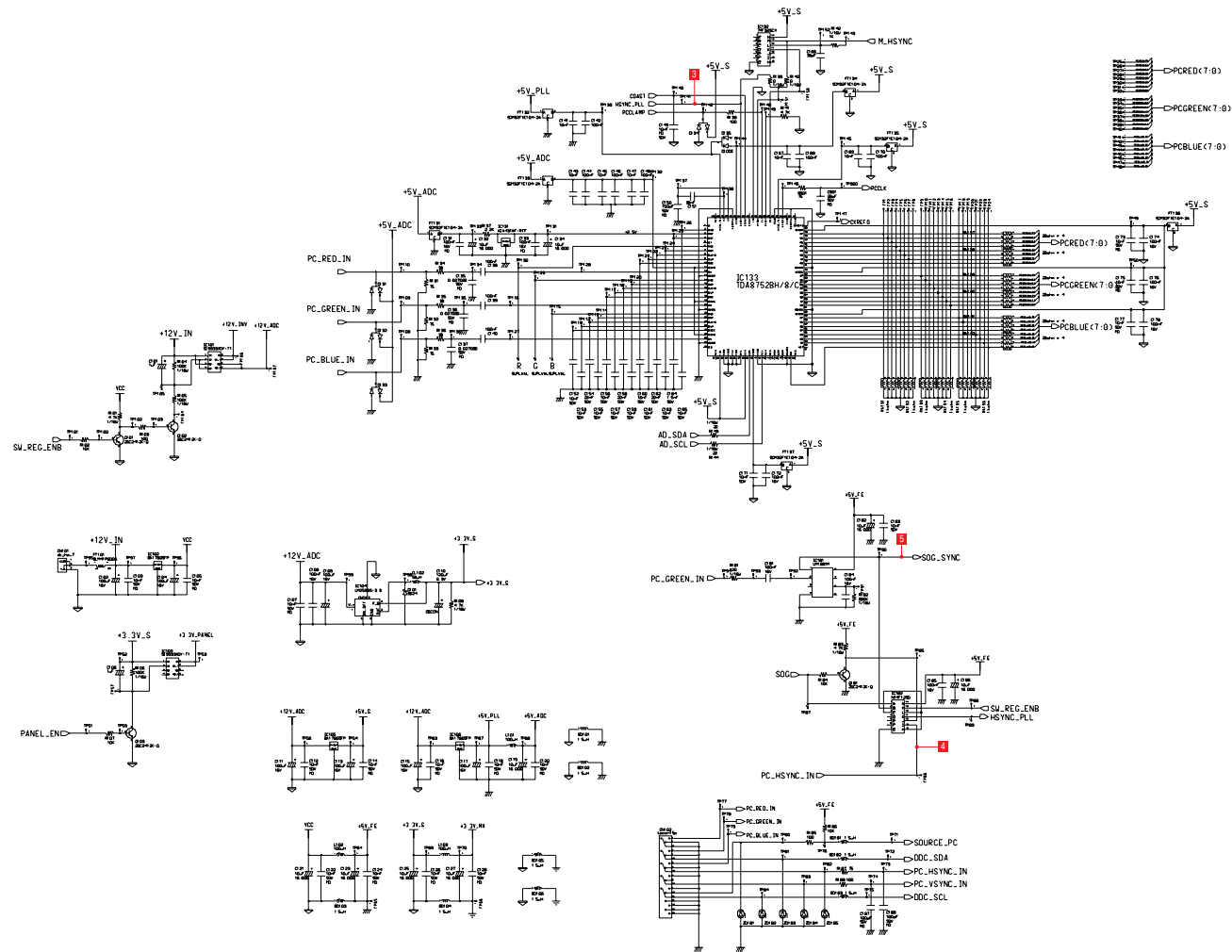
7-1. Sync Master 570B TFT / 580B TFT

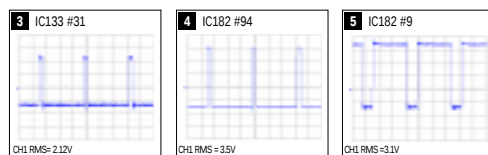


8 Wiring Diagram

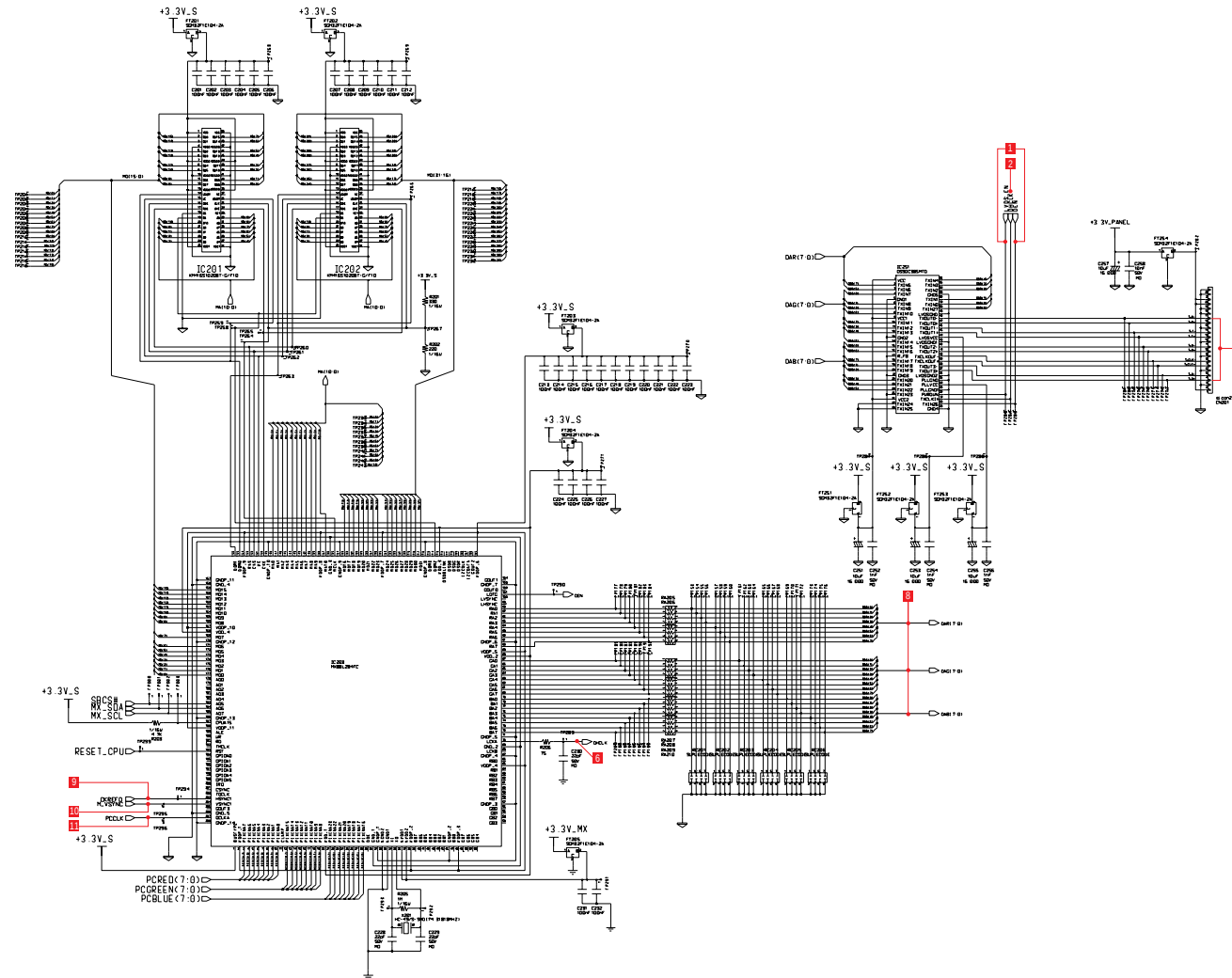


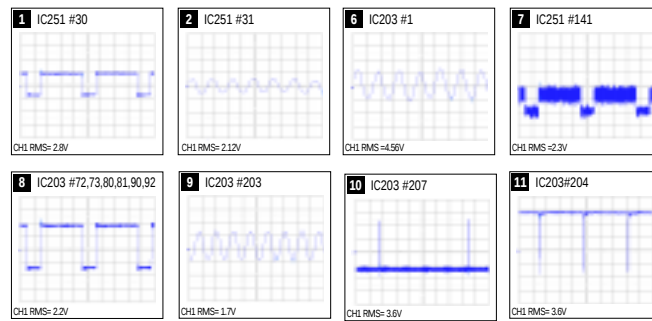
9-1 ADC & I/O Part Schematic Diagram (CN15MSS)





9-2 FRC & LVDS Part Schematic Diagram (CN15MSS)





9-3 Micom Part Schematic Diagram (CN15MSS)

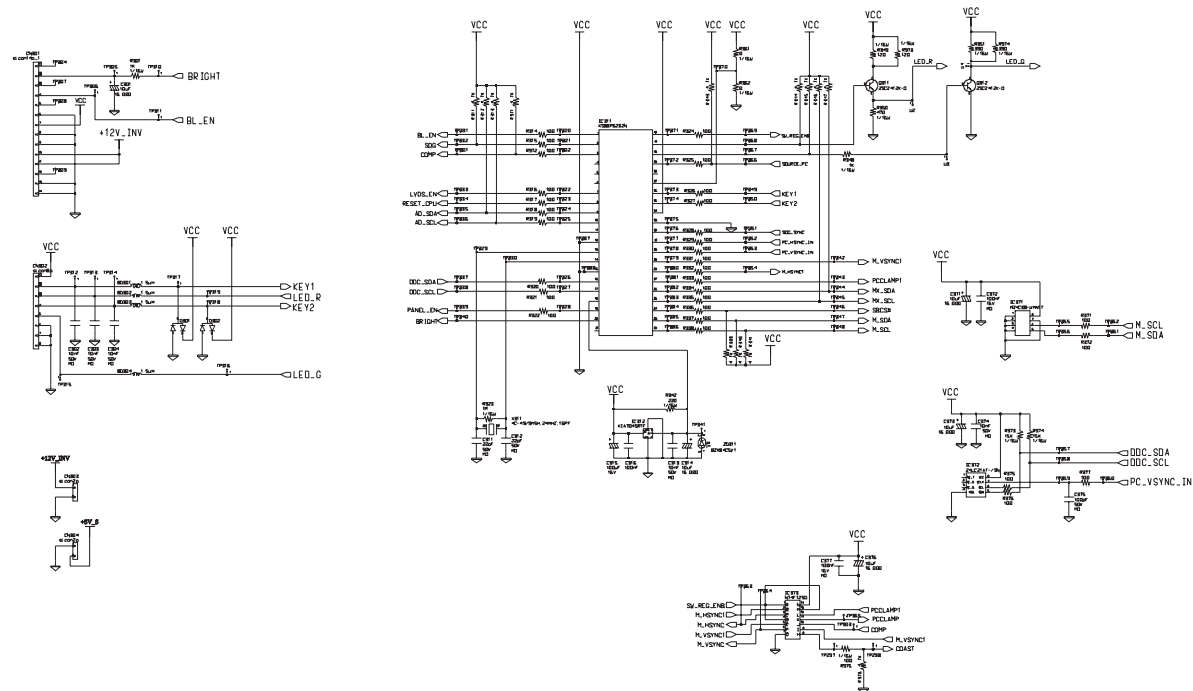


Table 9-7. IC401

pin#	MODES		pin#	MODES	
	1024 x 768 / 75 Hz			1024 x 768 / 75 Hz	
1	0-5		22	Pulse	
2	0, 5		23	GND	
3	5		24	Pulse	
4	5		25	5	
5	4,62		26	5	
6	0		27	0	
7	5		28	0	
8	5		29	5	
9	GND		30	5	
10	5		31	0	
11	5		32	Clock	
12	NC		33	Clock	
13	5		34	5	
14	5		35	NC	
15	Pulse		36	3,8	
16	Pulse		37	5	
17	5		38	0	
18	NC		39	5	
19	NC		40	5	
20	Pulse		41	GND	
21	Pulse		42	NC	

Unit: Vrms

Table 9-8. IC403

Pin No.	MODES	
	1024 x 768 / 75 Hz	
1	NC	
2	NC	
3	NC	
4	GND	
5	4,43	
6	4,46	
7	4,87	
8	5,03	

Unit: Vrms

Table 9-9. IC404

Pin No.	MODES	
	1024 x 768 / 75 Hz	
1	GND	
2	GND	
3	GND	
4	GND	
5	5,03	
6	5,03	
7	GND	
8	5,03	

Unit: Vrms



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