



PEBBLE

LCD-Monitor

**Chassis : LS19PMA
LS20PMA**

**Model : 932MW
2032MW**

SERVICEManual

TFT-LCD Monitor



932MW / 2032MW

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1. Precautions

1-1. Safety Precautions

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

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).

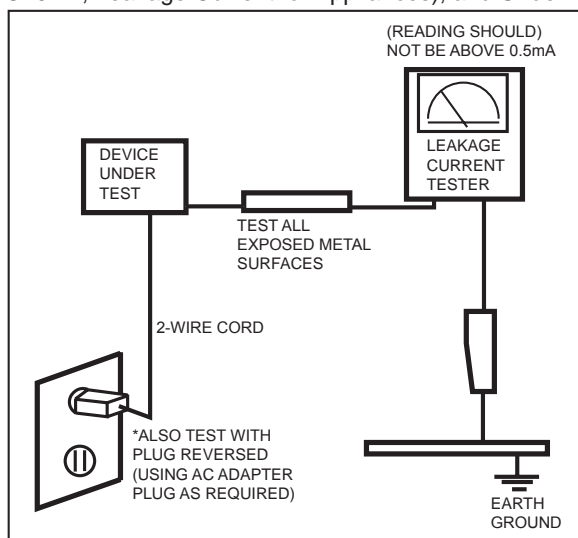



Figure 1-1. Leakage Current Test Circuit

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. Static Electricity 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.

1-4. Installation Precautions

1. For safety reasons, more than two people are required for carrying the product.
2. Keep the power cord away from any heat emitting devices, as a melted covering may cause fire or electric shock.
3. Do not place the product in areas with poor ventilation such as a bookshelf or closet. The increased internal temperature may cause fire.
4. Bend the external antenna cable when connecting it to the product. This is a measure to protect it from being exposed to moisture. Otherwise, it may cause a fire or electric shock.
5. Make sure to turn the power off and unplug the power cord from the outlet before repositioning the product. Also check the antenna cable or the external connectors if they are fully unplugged. Damage to the cord may cause fire or electric shock.
6. Keep the antenna far away from any high-voltage cables and install it firmly. Contact with the highvoltage cable or the antenna falling over may cause fire or electric shock.
7. When installing the product, leave enough space (10cm) between the product and the wall for ventilation purposes. A rise in temperature within the product may cause fire.

2. Product specifications








2-1. Feature & Specifications

Model	932MW	2032MW
Feature		
<ul style="list-style-type: none"> ▶ CE Friendly Design ▶ IT + CE usage 932MW: High resolution (WXGA + 1440X900), SD quality TV 2032MW: High resolution (WSXGA + 1680X1050), SD quality TV ▶ Analog Tuner, HDMI, Stereo, Nicam Sound support ▶ Response Time 5ms G-to-G adopted ▶ Video Input : PC (Analog, DVI), AV, S-Video, Component, HDMI ▶ Audio Input : PC (Analog, DVI) Stereo, AV, S-Video , Component ▶ Audio output : Speaker Output (Inner Amp) ▶ 3W x 2ch speaker 		
Specifications		
Item	Description	
Panel	AMLCD 19" (LTM190M2-L31)	CPT 20" (CLAA201WA04)
Optimum Resolution	1440X900 (WXGA) 60Hz	1680X1050 (WSXGA) 60Hz
Display Size	19" (16:10)	20" (16:10)
Brightness	300cd/m2	
Contrast Ratio	1000:1	
Response Time	5ms	
Viewing Angle	Left/Right/Up/Down : 80/80/80/80	Left/Right/Up/Down : 85/85/80/80
PC Input	D-SUB, DVI	
Video System	AV, S-Video, Component, HDMI	
Power Consumption	45 W	
DPMS	Less than 1 W	
Sound Output	3W x 2	




2-2. Spec Comparison to the Old Models

Model	Pebble (932MW)	Pebble (932GW)
Design		
Area	Europe	World Wide
Panel	LTM190M2-L31	
Fast Response Time	5ms	
Contrast	1000 : 1	
Viewing Angle	80/80/80/80 (Left/Right/Up/Down)	
Scart Jack		
Micom		
Scaler		
Model	Pebble (2032MW)	Pebble (2032BW)
Design		
Area	Europe	World Wide
Panel	CLAA201WA04	
Fast Response Time	5ms	
Contrast	1000 : 1	
Viewing Angle	85/85/80/80 (Left/Right/Up/Down)	
Scart Jack		
Micom		
Scaler		

2-3. Accessories

Product	Description	Ccde. No	Remark
	Quick Setup Guide	BN68-01276A	Samsung Electronics Service center
	Warranty Card (Not available in all locations)	BH68-00633A	
	User's Guide, Monitor Driver, Natural Color Pro Software	BN59-00625A	
	D-Sub(15 Pin) Cable	BN39-00244B	
	Power Cord	3903-000042	
	Remote Control	BN59-00596A	
	Batteries (AAA X 2)	4301-000121	

2-4. Accessories (Sold separately)

Product	Description	Ccde. No	Remark
	TV Antenna Cable (Coaxial Cable)		Samsung Electronics Service center
	RCA Cable (Video-Yellow, Audio-Red and White)		
	Component (PR, PB, Y) Cable		
	S-VIDEO Cable		
	Earphones/Headphones		
	DVI-D Cable	BN39-00246F	
	DVI to HDMI cable		
	HDMI Cable		
	RCA to stereo (for PC) cable		





3. Disassembly and Reassemble

This section of the service manual describes the disassembly and reassembly procedures for the LS19DOV LCD monitor.



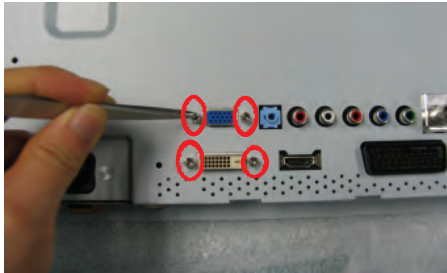
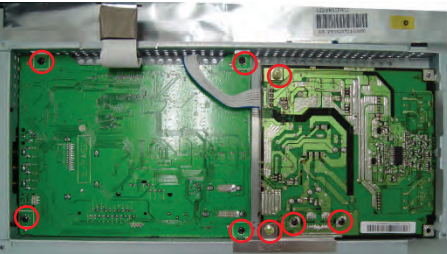

⚠ WARNING: This monitor contains electrostatically sensitive devices. Use caution when handling these components.

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.

Description	Picture Description	Screws
1. Place monitor face down on cushioned table. Remove 2 marked screws from the rear cover.		
2. After remove COVER-REAR, ASS'Y-STAND, then disconnect FUNCTION, SPEAKER wire.		
3. After disconnecting SHIELD-LAMP of left side, disassemble lamp wire between panel and IP Board.		
		

3. Disassembly and Reassemble

Description	Picture Description	Screws
<p>4. Disconnect LVDS cable from panel. Then, remove cover jack from side.</p>		
		
<p>5. Remove 4 screws of PC and DVI connector. Then, upset the shield.</p>		
<p>6. Remove 8 marked SCREW of left picture. Disconnect IP board.</p>		
		

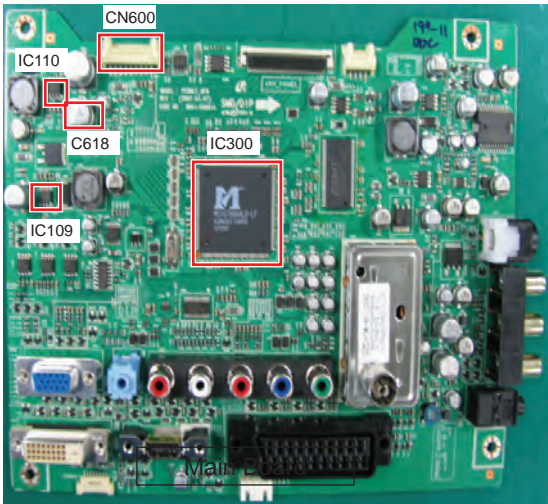
※ Reassembly procedures are in the reverse order of disassembly procedures.

4. Troubleshooting

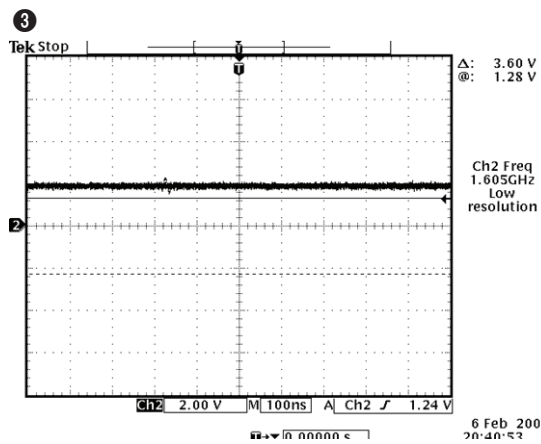
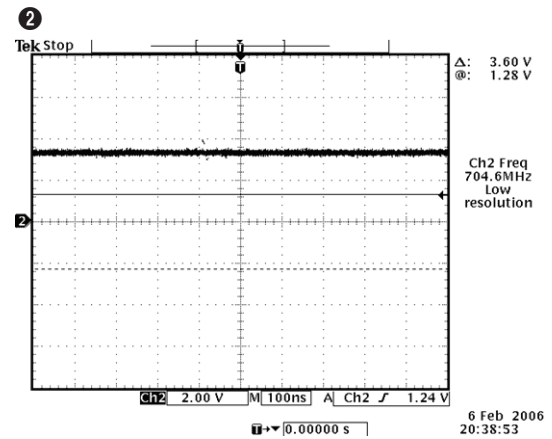
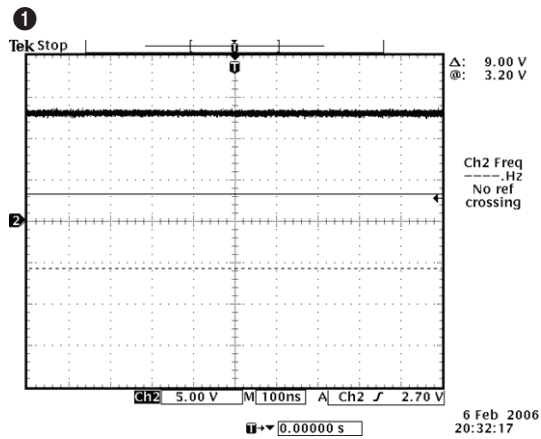
4-1. Troubleshooting

1. Before troubleshooting, setup the PC 's display as below.
 - Resolution
 - 932MW: 1440 × 900
 - 2032MW: 1680 × 1050
 - H-frequency: 64 kHz
 - V-frequency: 60 Hz
2. If no picture appears, make sure the power cord is correctly connected.
3. Check the following circuits.
 - No raster appears: Function PBA, Main PBA, I/P PBA
 - 55V develop but no screen: Main PBA
 - 5V does not develop: I/P PBA
4. If you select Brightness adjust menu and push the “ (Enter/Source)” button for 5 seconds, the monitor automatically returns to factory reset.

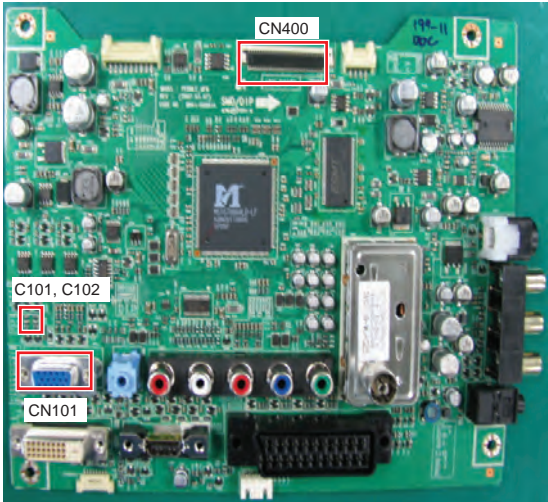
4-2. No Power

Symptom	<ul style="list-style-type: none"> When turning on the Power button after connecting the power, the LED at the front of the monitor does not operate.
Major checkpoints	<ul style="list-style-type: none"> Check whether the Power Switch at the back of the monitor is turned on. Check the IP board power fuse and the IP board output power. Check the connections for the IP board and the Main board inside the monitor. Check the Main board power part and check also whether there is any abnormal output at other output terminals.
Diagnostics	 <pre> graph TD Q1["① Does proper 13V appear at pin No. 5,6,7 of CN600?"] A1["No"] --> C1["Check IP Board"] Q1 -- Yes --> Q2["① Does proper 13V appear at C618?"] A2["No"] --> C2["Check related circuit of CN600"] Q2 -- Yes --> Q3["② Does proper 5V appear at pin No.1 of IC110?"] A3["No"] --> C3["Check related circuit of IC110"] Q3 -- Yes --> Q4["③ Does proper 1.8V appear at pin No. 1 of IC109?"] A4["No"] --> C4["Check related circuit of IC109"] Q4 -- Yes --> C5["Change main board for MICOM(IC300) problem"] </pre>
Caution	Make sure to disconnect the power before working on the IP board.

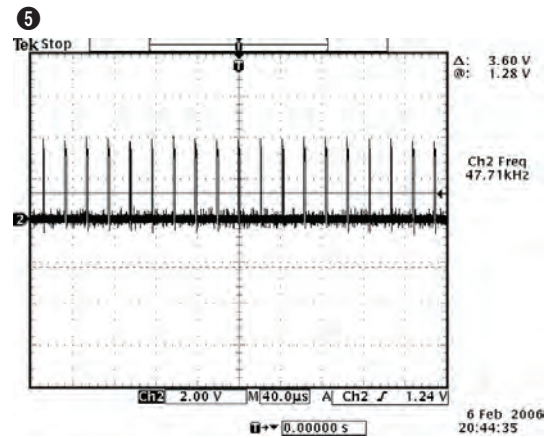
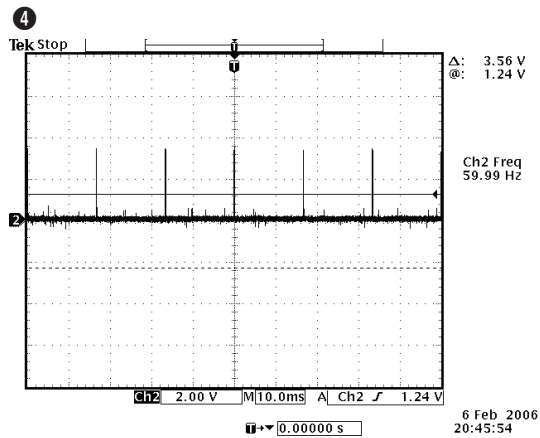
4-2-1. Circuit diagrams and waveforms when the power does not turn on



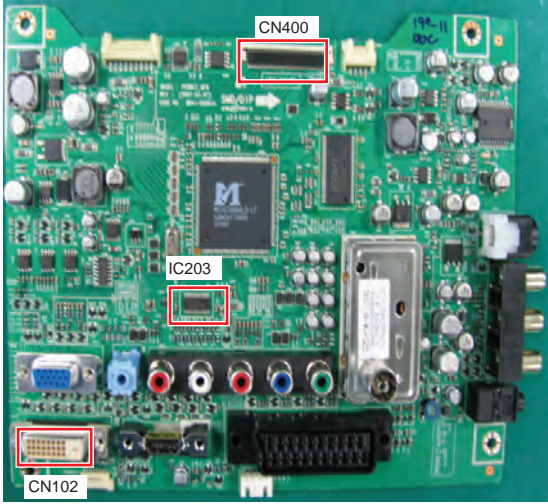
4-3. No Video (Analog)

Symptom	<ul style="list-style-type: none"> Though the LED power turns on, the screen is blank when connecting the VGA cable.
Major checkpoints	<ul style="list-style-type: none"> Check the D-sub cable connections. Check whether the LVDS cable is connected correctly to the panel. Check whether the lamp connector of the panel is connected correctly to the IP board.
Diagnostics	 <pre> graph TD Q1[Does led persists green light after power on?] -- No --> A1[Check IP board] Q1 -- Yes --> Q2[Does proper 5V appear at pin No. 9 of CN101?] Q2 -- No --> A2[Check D-sub cable connection] Q2 -- Yes --> Q3[Does proper V and H-sync appear at C102 and C101?] Q3 -- No --> A3[Check PC state] Q3 -- Yes --> Q4[Does proper clock signals appear at pin NO.11,12,23,24 of CN400?] Q4 -- No --> A4[Change main board because of scaler problem] Q4 -- Yes --> A5[Check connection between main board and panel. Change Panel.] </pre> <p>Does led persists green light after power on?</p> <p>No → Check IP board</p> <p>Yes → Does proper 5V appear at pin No. 9 of CN101?</p> <p>No → Check D-sub cable connection</p> <p>Yes → Does proper V and H-sync appear at C102 and C101?</p> <p>No → Check PC state</p> <p>Yes → Does proper clock signals appear at pin NO.11,12,23,24 of CN400?</p> <p>No → Change main board because of scaler problem</p> <p>Yes → Check connection between main board and panel. Change Panel.</p>
Caution	Make sure to disconnect the power before working on the IP board.

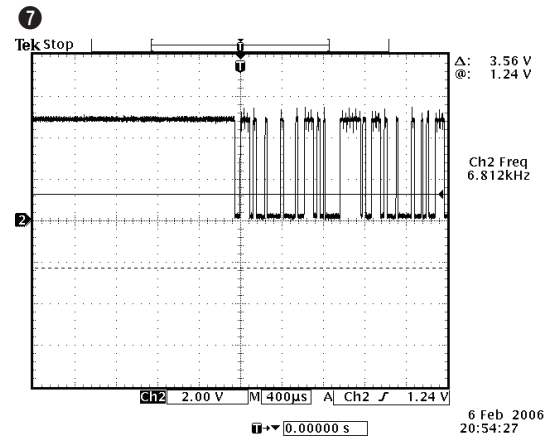
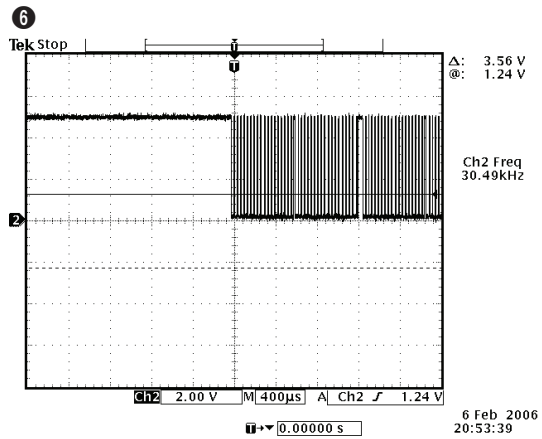
4-3-1. Circuit diagrams and waveforms (Analog) when no screen is displayed on the monitor



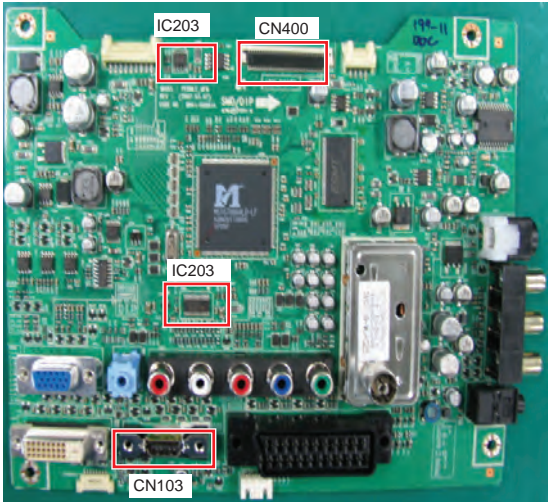
4-4. No Video (DVI)

Symptom	<ul style="list-style-type: none"> The LED power turns on but the screen is blank when the DVI cable is connected.
Major checkpoints	<ul style="list-style-type: none"> Check the DVI cable connections. Check whether the LVDS cable is connected correctly to the panel. Check whether the lamp connector of the panel is connected correctly to the IP board.
Diagnostics	 <pre> graph TD Q1[Does led persists green light after power on?] -- No --> A1[Check IP board] Q1 -- Yes --> Q2[Does proper 5V appear at pin No. 14 of CN102?] Q2 -- No --> A2[Check DVI cable connection] Q2 -- Yes --> Q3[Does proper signals appear at pin No.6(SCL) ⑥ and No.7(SDA) ⑦ of CN102?] Q3 -- No --> A3[Check PC state] Q3 -- Yes --> Q4[Does proper clock signals appear at pin NO.6 and NO.7 of IC203?] Q4 -- No --> A4[Check circuits related to IC 401] Q4 -- Yes --> Q5[Does proper clock signals appear at pin NO.11,12,23,24 of CN400?] Q5 -- No --> A5[Change main board because of scaler problem.] Q5 -- Yes --> A6[Check connection between main board and panel. Change Panel.] </pre> <p>Does led persists green light after power on?</p> <p>Yes</p> <p>Does proper 5V appear at pin No. 14 of CN102?</p> <p>No</p> <p>Check DVI cable connection</p> <p>Yes</p> <p>Does proper signals appear at pin No.6(SCL) ⑥ and No.7(SDA) ⑦ of CN102?</p> <p>No</p> <p>Check PC state</p> <p>Yes</p> <p>Does proper clock signals appear at pin NO.6 and NO.7 of IC203?</p> <p>No</p> <p>Check circuits related to IC 401</p> <p>Yes</p> <p>Does proper clock signals appear at pin NO.11,12,23,24 of CN400?</p> <p>No</p> <p>Change main board because of scaler problem.</p> <p>Yes</p> <p>Check connection between main board and panel. Change Panel.</p>
Caution	Make sure to disconnect the power before working on the IP board.

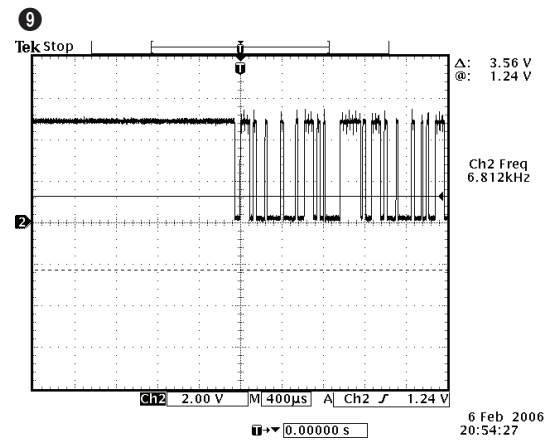
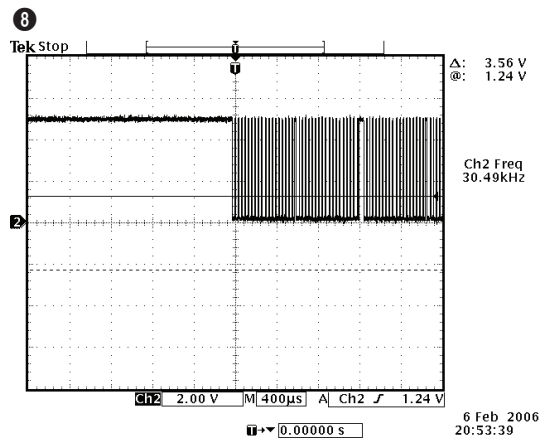
4-4-1. Circuit diagrams and waveforms (DVI) when no screen is displayed on the monitor





4-5. No Video (HDMI)

Symptom	<ul style="list-style-type: none"> The LED power turns on but the screen is blank when the HDMI cable is connected.
Major checkpoints	<ul style="list-style-type: none"> Check the HDMI cable connections. Check whether the LVDS cable is connected correctly to the panel. Check whether the lamp connector of the panel is connected correctly to the IP board.
Diagnostics	 <pre> graph TD Q1[Does led persists green light after power on?] -- No --> A1[Check IP board] Q1 -- Yes --> Q2[Does proper 5V appear at pin No. 18 of CN103?] Q2 -- No --> A2[Check HDMI cable connection] Q2 -- Yes --> Q3[Does proper signals appear at pin No.15(SCL) ⑧ and No.16(SDA) ⑨ of CN103?] Q3 -- No --> A3[Change IC302] Q3 -- Yes --> Q4[Does proper clock signals appear at pin NO.6 and NO.7 of IC203?] Q4 -- No --> A4[Change IC203] Q4 -- Yes --> Q5[Does proper clock signals appear at pin NO.11,12,23,24 of CN400?] Q5 -- No --> A5[Change main board because of scaler problem] Q5 -- Yes --> A6[Check connection between main board and panel. Change Panel.] </pre> <p>Does led persists green light after power on?</p> <p>No → Check IP board</p> <p>Yes → Does proper 5V appear at pin No. 18 of CN103?</p> <p>No → Check HDMI cable connection</p> <p>Yes → Does proper signals appear at pin No.15(SCL) ⑧ and No.16(SDA) ⑨ of CN103?</p> <p>No → Change IC302</p> <p>Yes → Does proper clock signals appear at pin NO.6 and NO.7 of IC203?</p> <p>No → Change IC203</p> <p>Yes → Does proper clock signals appear at pin NO.11,12,23,24 of CN400?</p> <p>No → Change main board because of scaler problem</p> <p>Yes → Check connection between main board and panel. Change Panel.</p>
Caution	Make sure to disconnect the power before working on the IP board.

4-5-1. Circuit diagrams and waveforms (DVI) when no screen is displayed on the monitor



4-6. Faults and Corrective Actions

Fault Photo	Symptoms and Corrective Actions	Remarks
	<p>Symptoms: DVI signals are not recognized.</p> <p>Causes: This fault occurs when the PC does not recognize the mode information because the DVI DDC has not been input to the monitor.</p> <p>Corrective Actions: Input the DVI DDC to the monitor.</p>	<p>* Refer to the Training Manual for information on inputting the DVI DDC.</p>
	<p>Symptoms: When the monitor is turned on, only a full white pattern is displayed continually regardless of the signals.</p> <p>Causes: This fault occurs when only the lamp power is supplied and no video signals are input to the panel due to a fault or incorrect connections of the LVDS cable.</p> <p>Corrective Actions: Replace or reconnect the LVDS cable correctly so that video signals can be supplied to the panel.</p>	<p>* A full white pattern is a feature of the TN panel and is displayed when no video signals are supplied.</p>

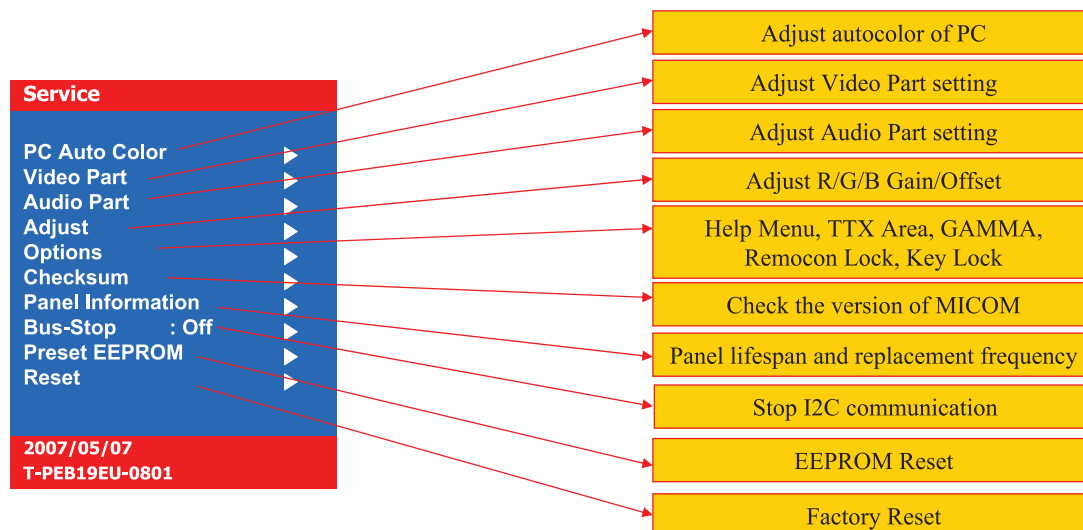
4-7. Adjustment

4-7-1. Entering Service Mode with Remote Control

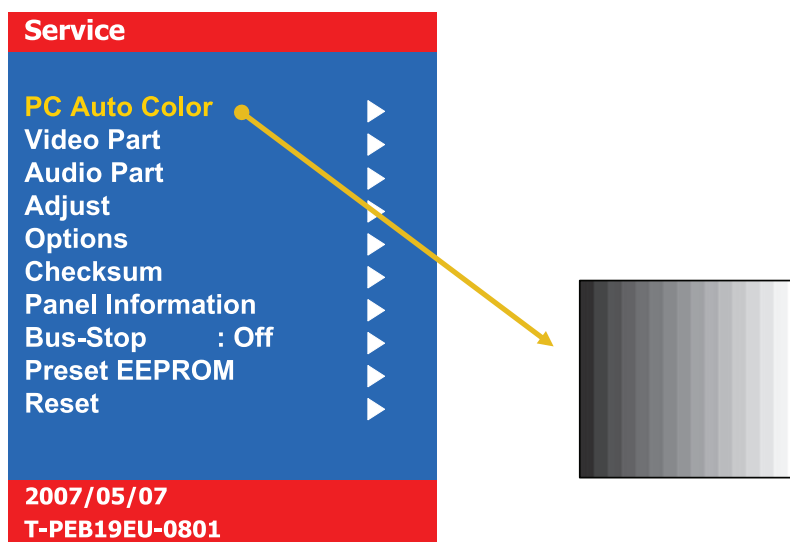
1. Entering Service Mode

- [Power Off] → [INFO] → [MENU] → [MUTE] → [Power On]
- [INFO] → [FACTORY] (Using factory remocon)

4-7-2. Service Mode Menu



■ PC Auto Color

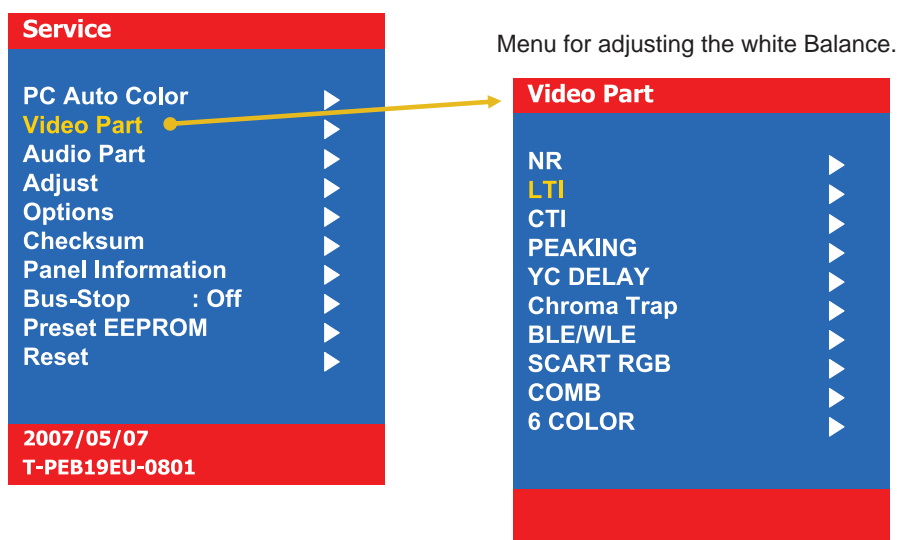


PC analog Only (1024X768 @60 16gray pattern)

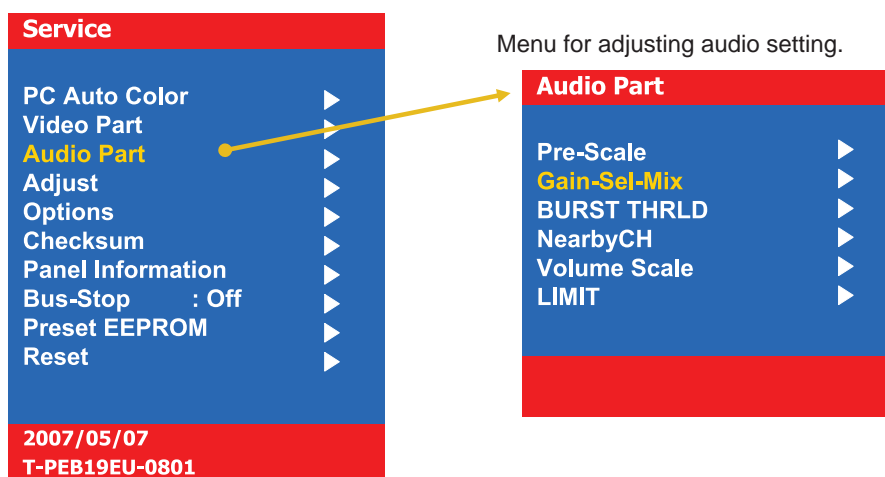
Color control operates normally only in certain modes of certain patterns, but in other cases, the operation may distort color. Also, color control is not normal when controlling color in a mode other than XGA 60Hz.

Extreme caution needed.!!

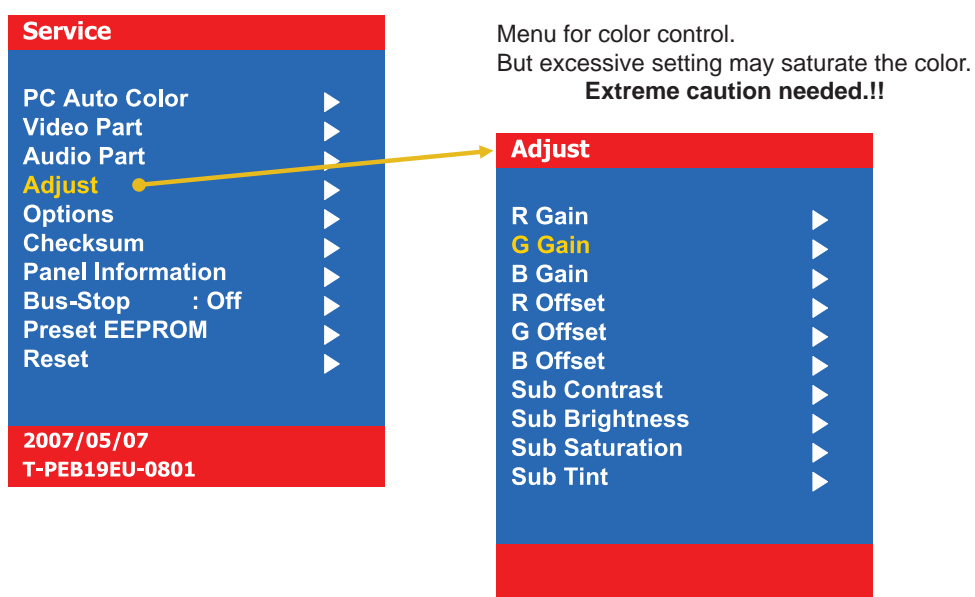
■ Video Part



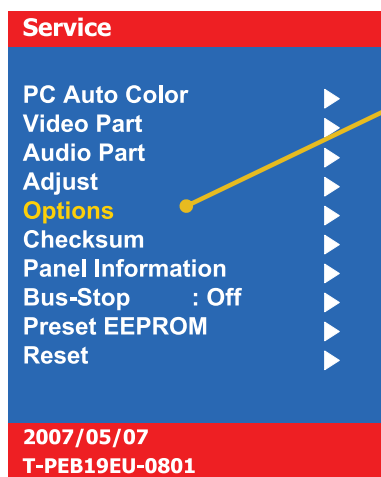
■ Audio Part



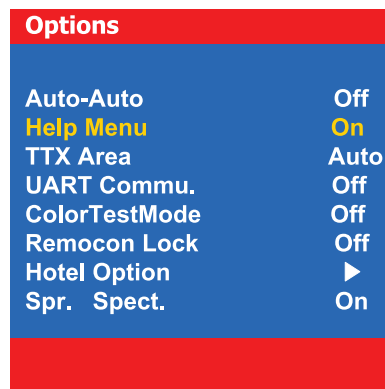
■ Adjust



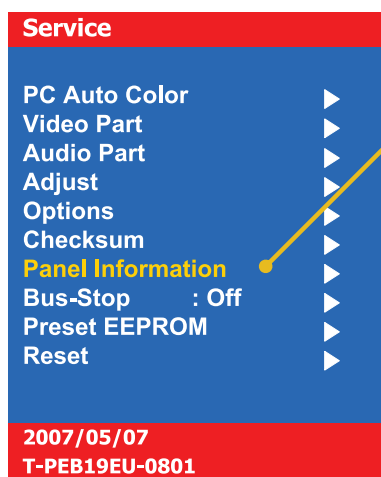
Options



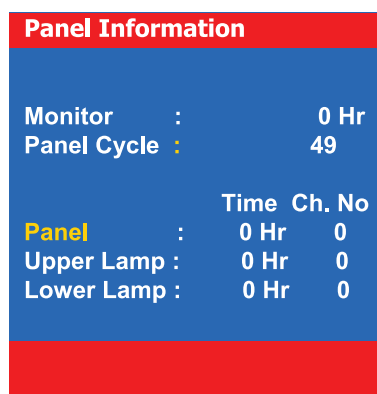
Menu for adjusting options.



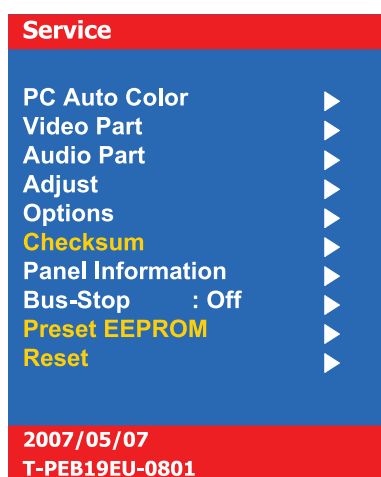
Panel Information



Menu for check panel lifespan.



Checksum & Reset



CHECKSUM

Check the version and date of MICOM

Reset : Factory Reset

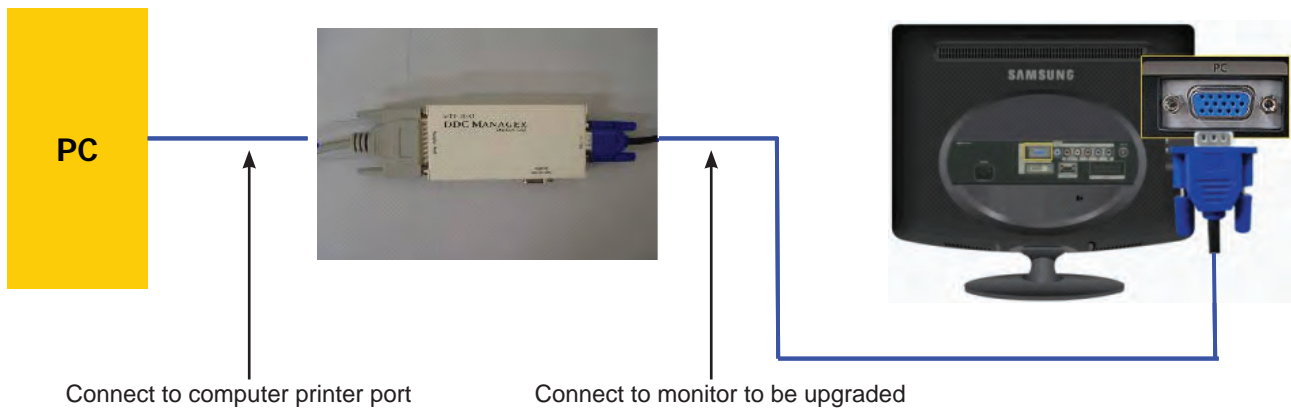
Initialize the settings of service menu

Preset EEPROM

Initialize the settings of EEPROM

4-7-3. DDC Entry

Connect the parallel port (printer port) of the PC with the D-SUB cable of the monitor to be upgraded

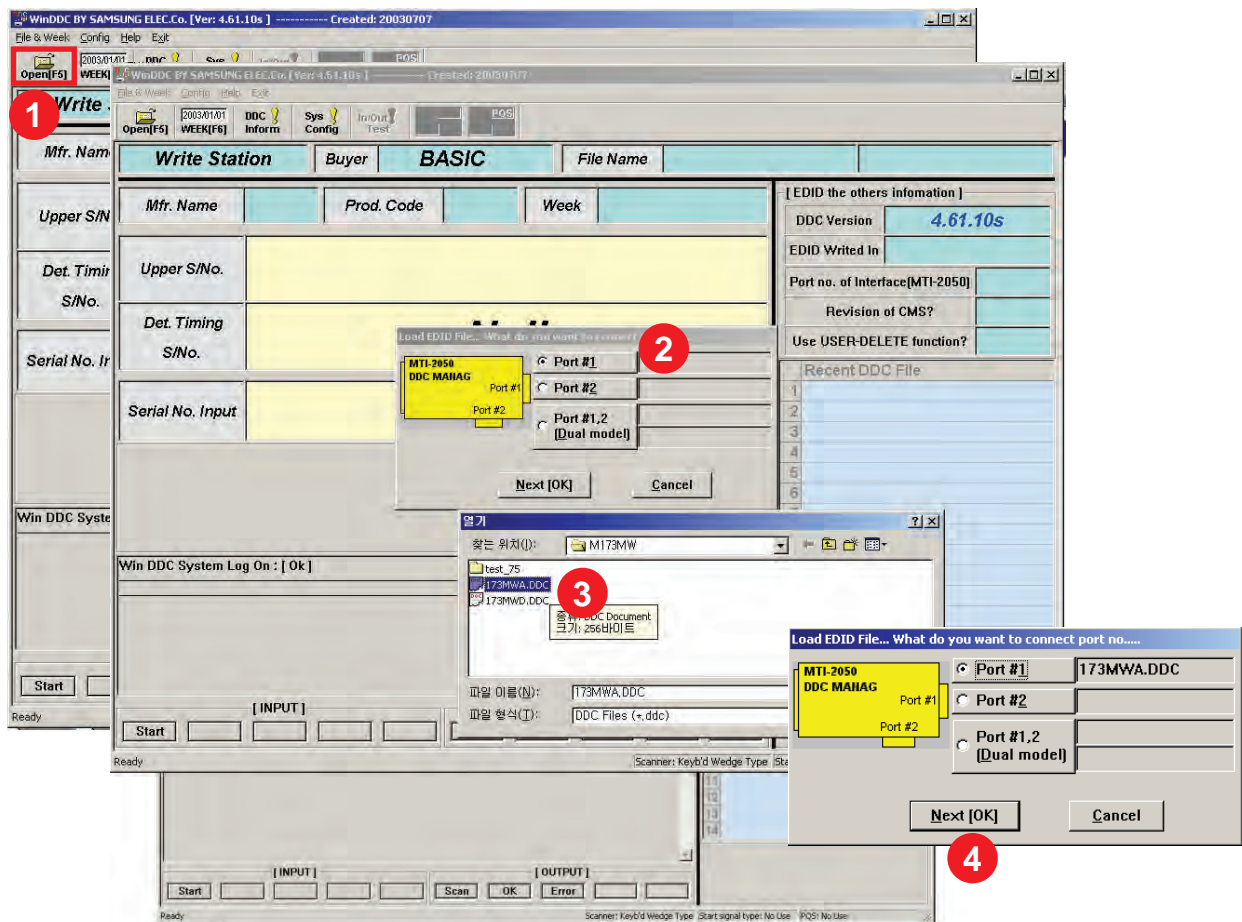


DDC file name

932MW: SM932MWA/SM932MWD/SM932MWH

2032MW: SM2032MWA/SM2032MWD/SM2032MWH

You must enter service mode to enter DDC : Release DDC Protection



1. Open file
2. Select port 1(D-SUB) / Select port 2(DVI) / Select port 3(HDMI)
(Use DVI-to-HDMI cable)
3. Select DDC file
4. Click Next(OK) button

WinDDC BY SAMSUNG ELEC.Co. [Ver: 4.61.10s] ----- Created: 20030707

File & Week Config Help Exit

Open[F5] [2003/01/01 WEEK[F6] DDC Inform Sys Config In/Out Test POS]

Write Station		Buyer	SAMSUNG		File Name	173MWA.DDC	
Mfr. Name	SAM	Prod. Code	CB00	Week	47th of 2003		
Upper S/No.	MM17						
Det. Timing S/No.	H1AK500000						
Serial No. Input	H1AK500010					Checksum	0x6D
Win DDC System Log On : [Ok] [Load File] The Analog File: 173MWA.DDC [Week Input] 47th of 2003 [11/19]							
[INPUT]				[OUTPUT]			
Start				Scan	OK	Error	

Ready Scanner: Keyb'd Wedge Type Start signal type: No Use PQS: No Use

[EDID the others information]

DDC Version	4.61.10s
EDID Writed In	EEPROM
Port no. of Interface[MTI-2050]	#1
Revision of CMS?	No CMS
Use USER-DELETE function?	No

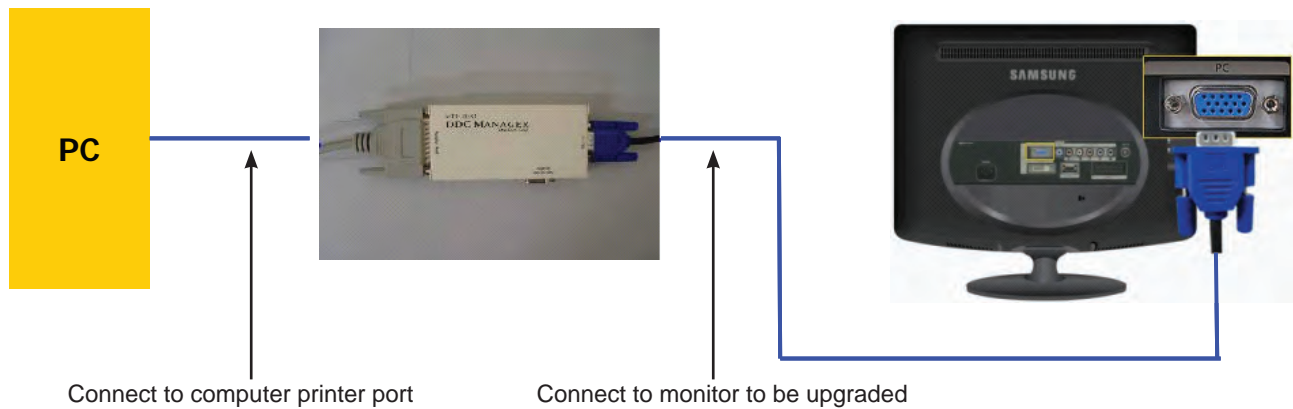
Recent DDC File

1	#1: 173MWA.DDC, #2
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	

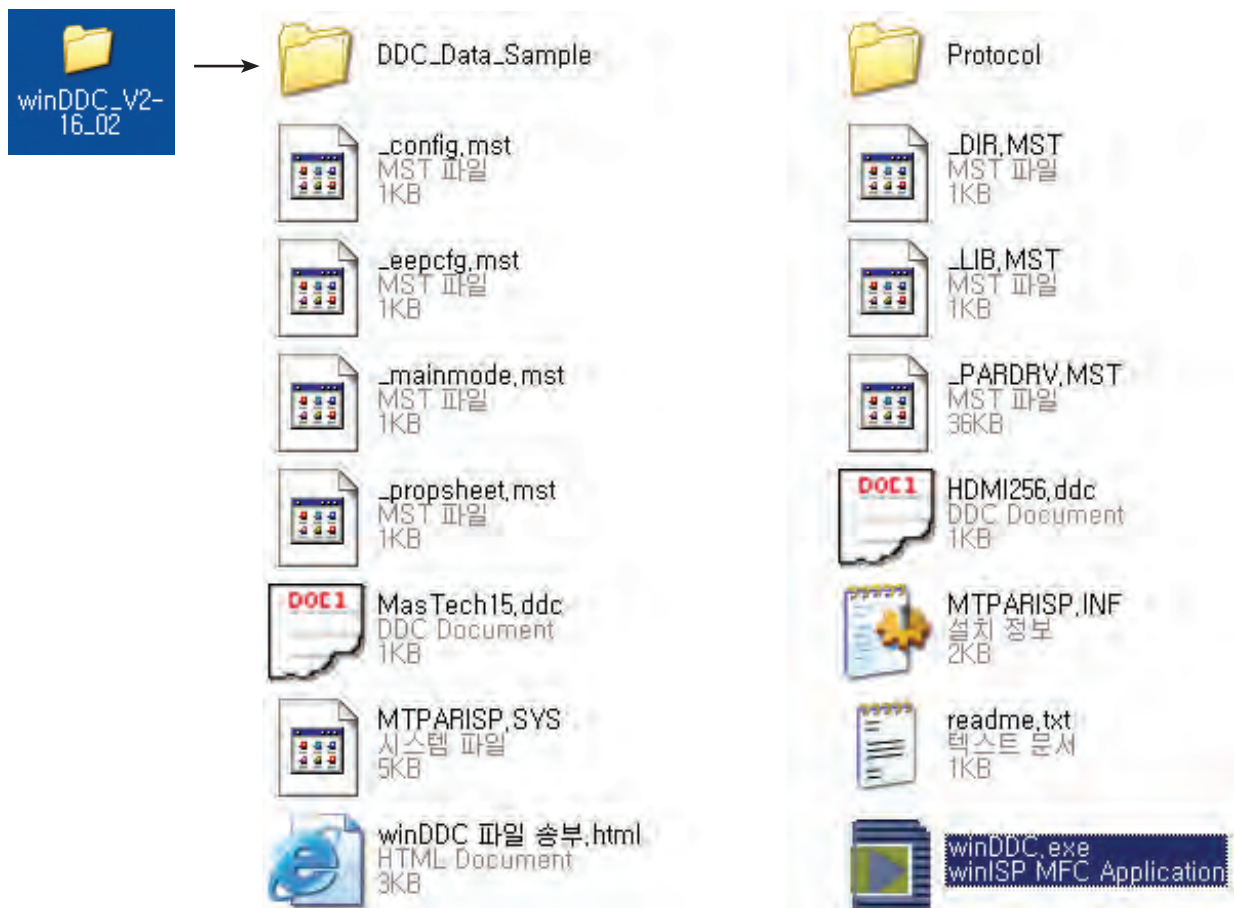
5. Press enter after entering the serial number of the monitor
 After analog input, repeat 2~5 times for DVI/HDMI input

4-8 Program Upgrading

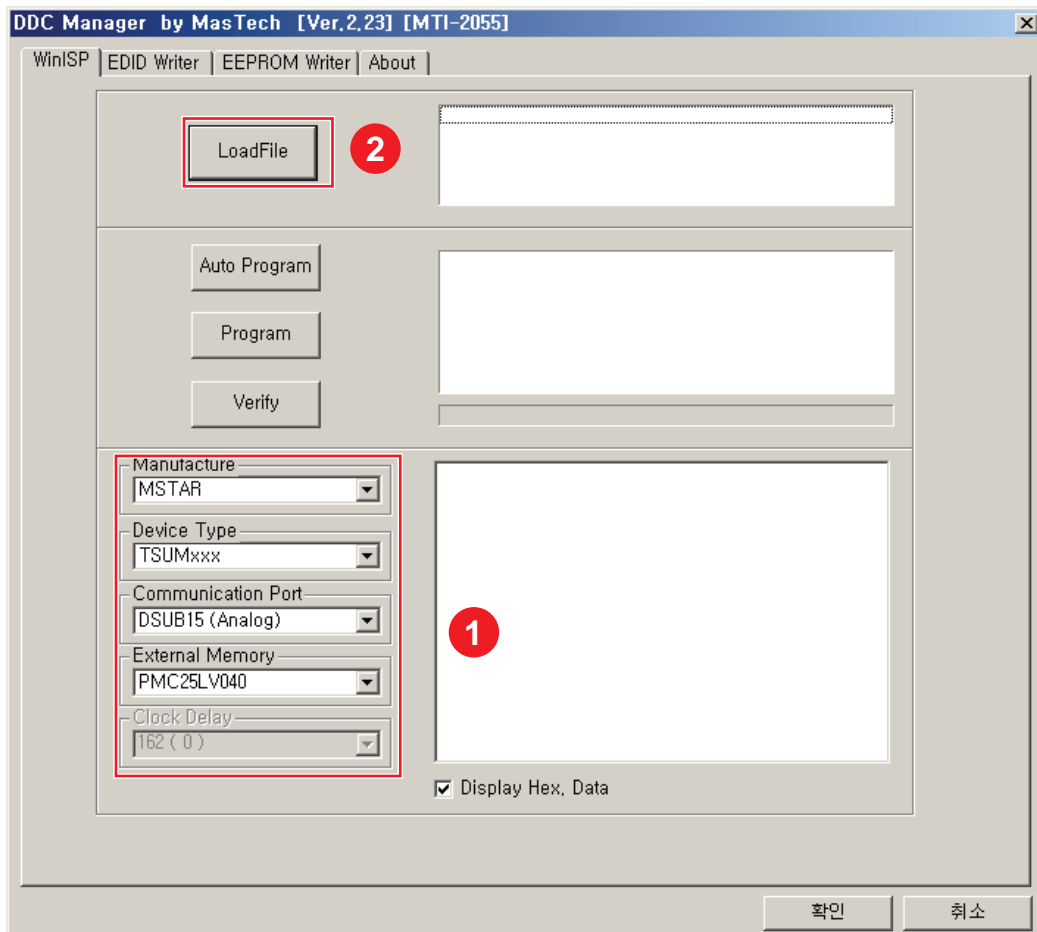
Connect the parallel port (printer port) of the PC with the D-SUB cable of the monitor to be upgraded



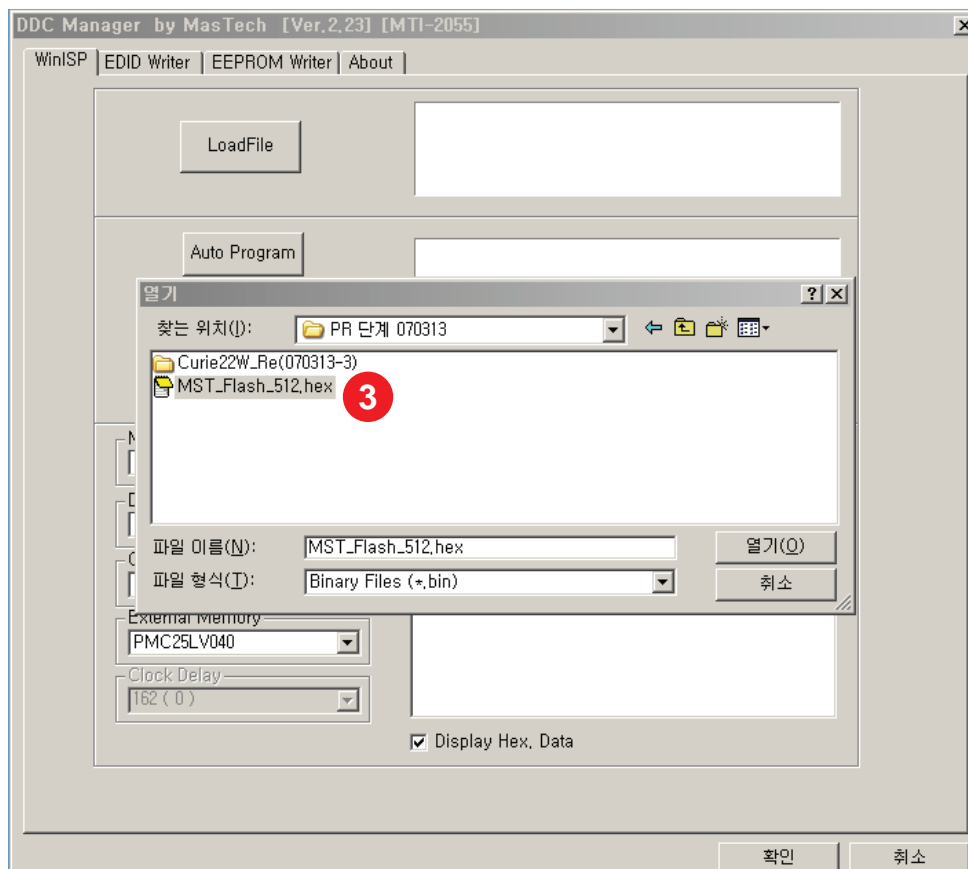
Copy winDDC_V2-16_02 Program in your desktop PC.



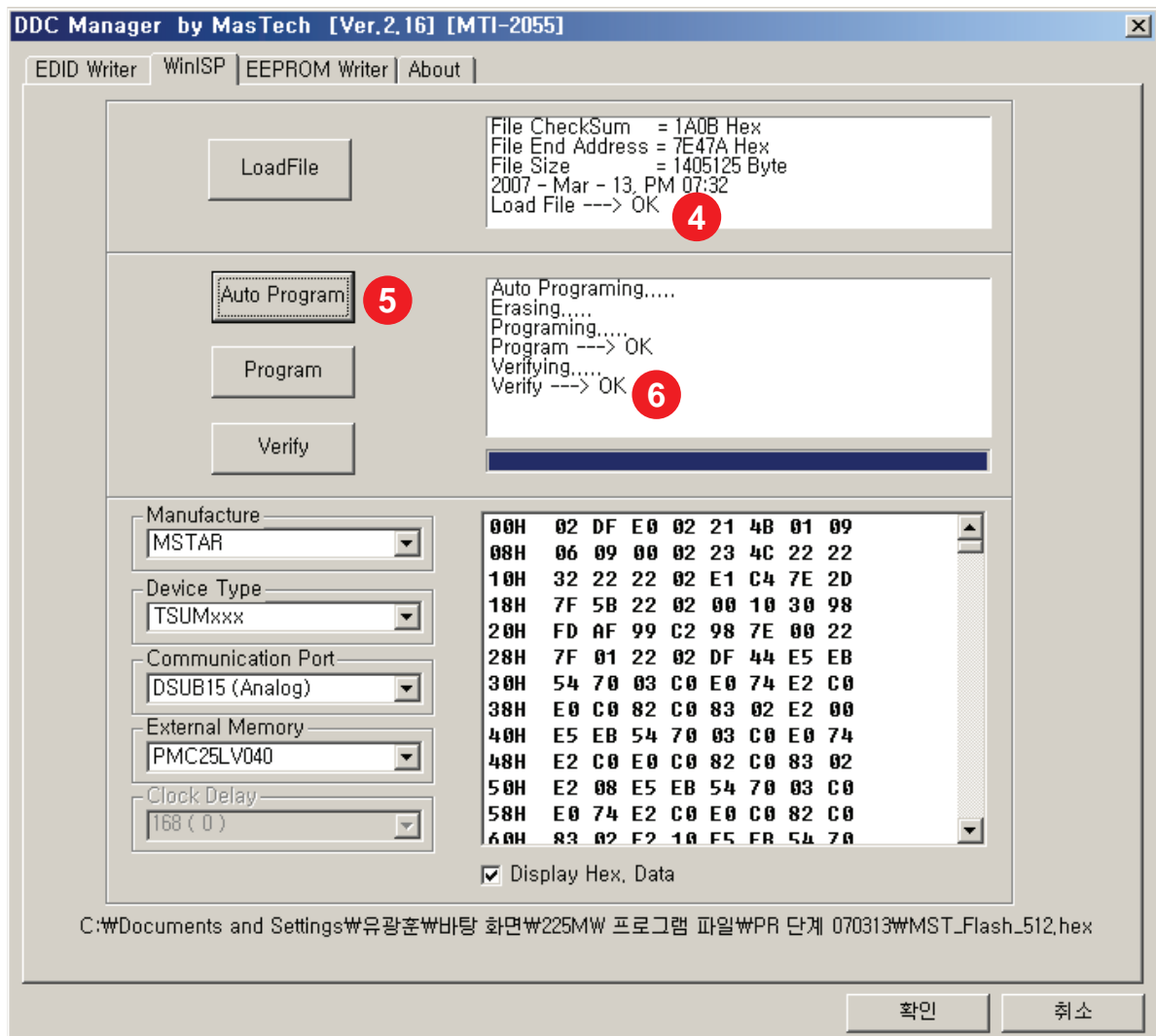
In your PC,
run WinDDC.exe file



1. Select several options as this
2. Click the "LoadFile" button for selection of micom program file



3. Select the micom program that is hex format file



4. Check the OK message
5. Press Auto Program button
6. If you see OK message, program download is completed

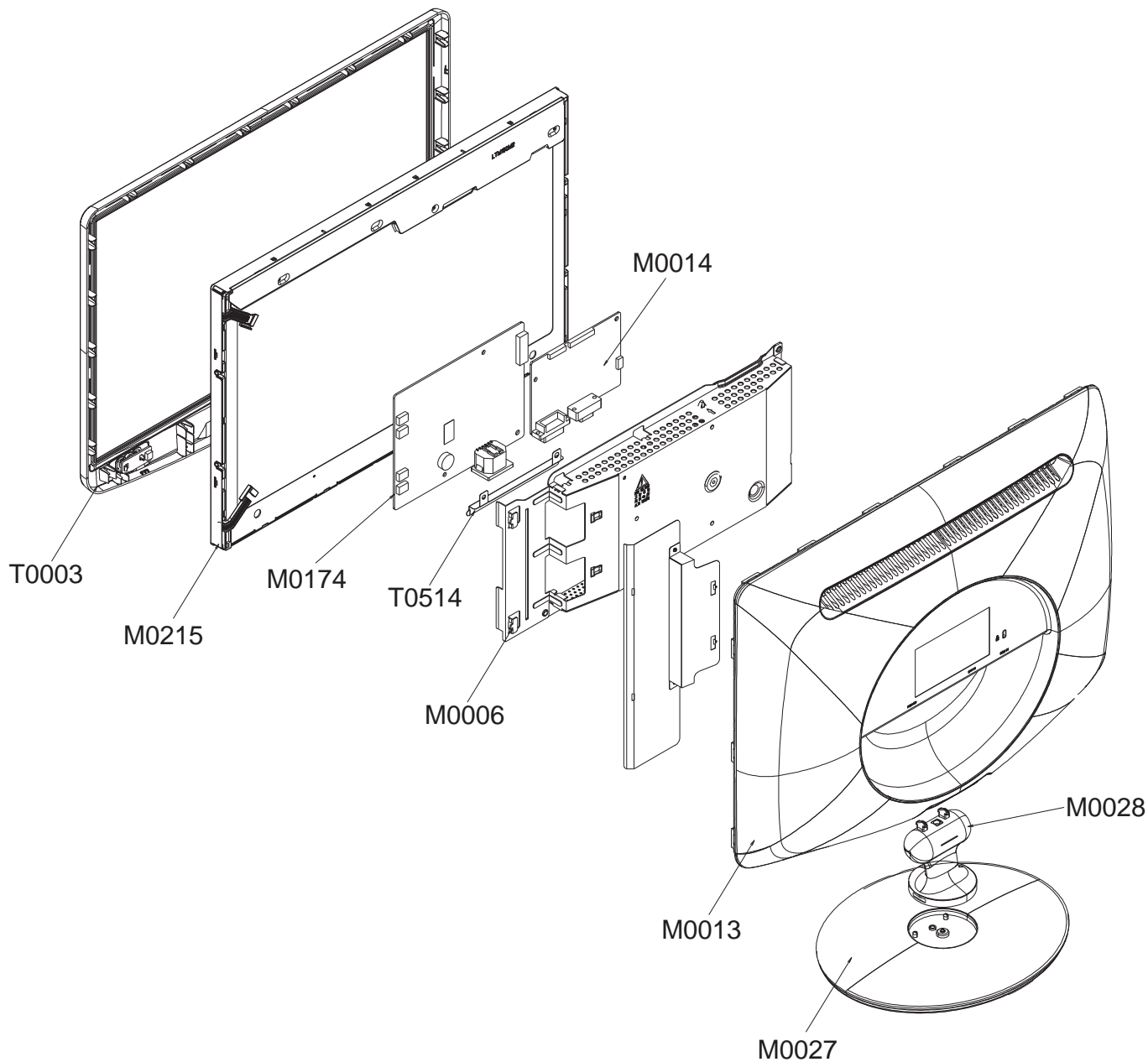
■ Must Dos after change the Board

Main Board

- Check the adjusted PC color status
- DDC Input (Analog, Digital and HDMI)
- Reset after entering the service mode
 1. Service mode : Power off -> INFO + MENU + MUTE -> Power On (using normal remocon)
INFO -> FACTORY (using factory remocon)
 2. Select RESET menu

5. Exploded View & Part List

5-1. LS19PMASFT/EDC Exploded View



5-1-1. LS19PMASFT/EDC Parts List (932MW)

Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
T0003	BN96-05678A	ASSY COVER P-FRONT;LS19PE,MFM,ABS HB,BK2	1	S.A	
M0215	BN07-00500A	LCD-PANEL;LTM190M2-L31-X	1	S.A	
M0174	BN44-00177B	IP BOARD;SIP-1920,PEBBLE 19" MFM,3.0 ~5.	1	S.A	
M0014	BN94-01366R	ASSY PCB MAIN-STB;LS19PMASF/EDC	1	S.A	
T0514	BN61-03302A	BRACKET-SUPPORT;20"W(2032MW),SPTE,0.3	1	S.N.A	
M0006	BN96-05680A	ASSY SHIELD P-COVER;LS19PE,SECC,T0.8,MFM	1	S.N.A	
M0013	BN96-05679A	ASSY COVER P-REAR;LS19PE,MFM,ABS HB,BK26	1	S.A	
M0028	BN96-04150D	ASSY STAND P-BAR;- ,PEBBLE17,- ,ABS HB,BK2	1	S.A	
M0027	BN96-04154B	ASSY STAND P-BASE;- ,PEBBLE19,- ,ABS HB,BK	1	S.A	

5-2. LS19PMASFT/EDC Parts List

Level	Location No.	Code No.	Description & Specification	Q'ty	SA/SNA	Remark
0		LS19PMASFT/ EDC	932MW,WGD1/S19M0-LPM,19,LCD-MO,NETHERLAN			
0.1	M0001	BN90-01325A	ASSY COVER FRONT;LS19PMASF/EDC,MFM	1	S.N.A	
..2	T0175	BN96-05501B	ASSY SPEAKER P;16##,PEBBLE,Right/Left,3W	1	S.A	
..2	T0003	BN96-05678A	ASSY COVER P-FRONT;LS19PE,MFM,ABS HB,BK2	1	S.A	
...3	M0081	6003-000282	SCREW-TAPTITE;BH,+,-,B,M3,L8,ZPC(BLK),SW	3	S.A	
...3		BN61-02829A	GUIDE-PANEL;PEBBLE,SECC,0.5,LS19PEB	1	S.N.A	
...3	CCM1	BN63-02183D	COVER-SHEET;Rhcm,PE Vinyl,T0.05,680mm,20	0.5	S.N.A	
...3	M0112	BN63-03610A	COVER-FRONT;19"W(932MW),ABS,HB,BK26,H/GL	1	S.N.A	
...3	T0023	BN64-00597B	KNOB POWER;PEBBLE,black highglossy	1	S.N.A	
...3	T0022	BN64-00641A	KNOB CONTROL;20"W(2032MW),ABS,HB,BK26,H/	1	S.N.A	
...3	T0299	BN64-00642A	WINDOW-RMC LED;20"W(2032MW),ACRYL,CLEAR	1	S.N.A	
...3	T0603	BN64-00711A	WINDOW-RMC;932MW,PC,V0,VIOLET,DIFFUSER(5	1	S.N.A	
...3	M0145	BN96-05586A	ASSY BOARD P-FUNCTION;LS20PMASF,CT5000-5	1	S.A	
0.1	M0002	BN90-01326A	ASSY COVER REAR;LS19PMASF/EDC,MFM	1	S.N.A	
..2	M0081	6003-000275	SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S	2	S.N.A	
..2	M0013	BN96-05679A	ASSY COVER P-REAR;LS19PE,MFM,ABS HB,BK26	1	S.A	
...3	M0081	6003-001003	SCREW-TAPTITE;BH,+,-,B,M4,L12,ZPC(BLK),SWR	4	S.N.A	
...3	CCM1	BN63-02183D	COVER-SHEET;Rhcm,PE Vinyl,T0.05,680mm,20	0.5	S.N.A	
...3	M0014	BN63-02880B	COVER-STAND BAR;PEBBLE,ABS HB,T2.6,BK26,	1	S.N.A	
...3		BN63-02883B	COVER-HINGE;PEBBLE,ABS HB,T2.6,BK26,HF-0	1	S.N.A	
...3	M0006	BN63-03612A	COVER-REAR;19"W(932MW),ABS,HB,BK26,H/GLO	1	S.N.A	
...3	T0071	BN64-00650A	INLAY-TERMINAL;19"W(932MW),PS SHEET,T0.3	1	S.N.A	
...3	T0060	BN61-02830A	SPRING ETC;PEBBLE,SK5,1.0,LS19PEB,HRC 45	1	S.N.A	
...3	T0102	BN73-00132B	RUBBER-CAP;PEBBLE,ELASTOMER,BK07,HB	1	S.N.A	
0.1	M0017	BN91-01653J	ASSY CHASSIS-STB;LS19PMASF/EDC	1	S.N.A	
..2	M0081	6003-000275	SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S	2	S.N.A	
..2	M0081	6003-000275	SCREW-TAPTITE;BH,+,-,B,M3,L10,ZPC(BLK),S	4	S.N.A	
..2	M0081	6003-001439	SCREW-TAPTITE;BH,+,-,S,M4,L8,ZPC(WHT),SW	2	S.N.A	
..2	M2893	BN39-00785A	LEAD CONNECTOR;LS19PLMTSQ,UL1007#26,UL/C	1	S.A	
..2	M0174	BN44-00177B	IP BOARD;SIP-1920,PEBBLE 19" MFM,3.0 ~5.	1	S.A	
..2	T0514	BN61-03302A	BRACKET-SUPPORT;20"W(2032MW),SPTE,0.3	1	S.N.A	
..2	T0279	BN63-03621A	COVER-JACK;PEBBLE20"WIDE,PC+ABS,BK26	1	S.N.A	
..2	M0014	BN94-01366R	ASSY PCB MAIN-STB;LS19PMASF/EDC	1	S.A	
...3	CN101	3701-001385	CONNECTOR-DSUB;15P,3R,FEMALE,STRAIGHT,AU	1	S.A	
...3	CN102	3701-001386	CONNECTOR-DVI;24P,3R,FEMALE,AU	1	S.A	
...3	CN330	3711-000058	HEADER-BOARD TO CABLE;BOX,4P,1R,2.5MM,AN	1	S.A	
...3	JA330	3722-000143	JACK-PHONE;1P(VER),AG,BLK,ANGLE	1	S.A	
...3	CN703	3722-000498	JACK-SCART;21P,-,SN,BLK,NO	1	S.A	
...3	JA333	3722-002143	JACK-PIN;5P,NI,GRN/BLU/RED/WHT/RED,STRAI	1	S.A	
...3	JA330	3722-002176	JACK-PHONE;7P/4C,-,SN,L-BLU,-	1	S.A	
...3	JA333	3722-002267	JACK-PIN;3P,AU,RED/WHT/YEL,ANGLE	1	S.A	
...3	CN701	3722-002275	JACK-DIN;4P,-,SN,BLK,-	1	S.A	
...3	CIS3	BN40-00099A	TUNER;HTM-6C/235S,HTM-6C/235S,PAL BG,DK,	1	S.A	
...3	T0174	BN97-01668G	ASSY SMD;LS19PMASF/EDC	1	S.N.A	

5. Exploded View & Part List

...4	SUB05	0202-001278	SOLDER-CREAM;M705-221BM5-32-11,-,20~40UM	2.049	S.N.A	
...4	D105	0401-000008	DIODE-SWITCHING;DAN217,80V,100MA,SOT-23,	1	S.A	
...4	D106	0401-000008	DIODE-SWITCHING;DAN217,80V,100MA,SOT-23,	1	S.A	
...4	D107	0401-000008	DIODE-SWITCHING;DAN217,80V,100MA,SOT-23,	1	S.A	
...4	D108	0401-000008	DIODE-SWITCHING;DAN217,80V,100MA,SOT-23,	1	S.A	
...4	D109	0401-000008	DIODE-SWITCHING;DAN217,80V,100MA,SOT-23,	1	S.A	
...4	D110	0401-000008	DIODE-SWITCHING;DAN217,80V,100MA,SOT-23,	1	S.A	
...4	D111	0401-000008	DIODE-SWITCHING;DAN217,80V,100MA,SOT-23,	1	S.A	
...4	D112	0401-000008	DIODE-SWITCHING;DAN217,80V,100MA,SOT-23,	1	S.A	
...4	D129	0401-000008	DIODE-SWITCHING;DAN217,80V,100MA,SOT-23,	1	S.A	
...4	D130	0401-000008	DIODE-SWITCHING;DAN217,80V,100MA,SOT-23,	1	S.A	
...4	D100	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
...4	D101	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
...4	D102	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
...4	D121	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
...4	D122	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
...4	D123	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
...4	D124	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
...4	D125	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
...4	D126	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
...4	D127	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
...4	D128	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
...4	D523	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
...4	D700	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
...4	D701	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
...4	D702	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
...4	D703	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
...4	D801	0401-001056	DIODE-SWITCHING;MMBD4148SE,100V,200mA,SO	1	S.A	
...4	D0254	0402-000553	DIODE-SCHOTTKY;SS24/B240,40V,2000mA,DO-2	1	S.A	
...4	D600	0402-001098	DIODE-RECTIFIER;SK34,40V,3A,SMC,TP	1	S.A	
...4	D602	0402-001098	DIODE-RECTIFIER;SK34,40V,3A,SMC,TP	1	S.A	
...4	D103	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A	
...4	D104	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A	
...4	D113	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A	
...4	D114	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A	
...4	ZD100	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A	
...4	ZD103	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A	
...4	ZD105	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A	
...4	ZD108	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A	
...4	ZD110	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A	
...4	ZD111	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A	
...4	ZD500	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A	
...4	ZD700	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A	
...4	ZD701	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A	
...4	ZD703	0403-000258	DIODE-ZENER;BZX84C5V6,5.2-6V,225mW,SOT-2	1	S.A	
...4	D118	0403-000579	DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT	1	S.A	
...4	D119	0403-000579	DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT	1	S.A	
...4	D120	0403-000579	DIODE-ZENER;BZX84C5V1,4.8-5.4V,200mW,SOT	1	S.A	
...4	D115	0403-001411	DIODE-ZENER;- ,5.49-5.73V,200mW,SOD-323,T	1	S.A	
...4	D800	0403-001425	DIODE-ZENER;BZX84C33,31-35V,350mW,SOT-23	1	S.A	
...4	D133	0403-001435	DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW,	1	S.A	

...4	ZD200	0403-001435	DIODE-ZENER;QZX363C5V6,5.32-5.88V,200MW,	1	S.A	
...4	D0254	0404-001020	DIODE-SCHOTTKY;BAT54C,30V,200mA,SOT-23,T	1	S.A	
...4	D0254	0404-001020	DIODE-SCHOTTKY;BAT54C,30V,200mA,SOT-23,T	1	S.A	
...4	D504	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D505	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D511	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D512	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D704	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D705	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D706	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D707	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D708	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D709	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D710	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D711	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D712	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D713	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D714	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D715	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D716	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D717	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D718	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D719	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D720	0406-001163	DIODE-TVS;CDS3C05GTA,6.4V/-/-,-,SMD	1	S.A	
...4	D522	0407-000123	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-	1	S.A	
...4	Q101	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
...4	Q102	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
...4	Q105	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
...4	Q106	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
...4	Q107	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
...4	Q108	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
...4	Q109	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
...4	Q502	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
...4	Q507	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
...4	Q800	0501-000445	TR-SMALL SIGNAL;KTC3875S-Y,NPN,150mW,SOT	1	S.A	
...4	Q700	0501-000669	TR-SMALL SIGNAL;KTA1505Y,PNP,150mW,SOT-2	1	S.A	
...4	Q100	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A	
...4	Q103	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A	
...4	Q201	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A	
...4	Q600	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A	
...4	Q601	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A	
...4	Q602	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A	
...4	Q603	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A	
...4	Q701	0501-002080	TR-SMALL SIGNAL;2SC2412K,NPN,200mW,SC-59	1	S.A	
...4	Q409	0505-001170	FET-SILICON;SI9933ADY-T1,P,-20V,3.4A,0.0	1	S.A	
...4	IC104	1001-001109	IC-ANALOG SWITCH;FST3125M,BUS SWITCH & C	1	S.A	
...4	IC106	1001-001363	IC-VIDEO SWITCH;PI3HDMI412FT,HDMI TMDS S	1	S.A	
...4	IC107	1002-001399	IC-D/A CONVERTER;PCM1754,24BIT,SSOP,16P,	1	S.A	
...4	IC112	1103-001279	IC-EEPROM;24C32,32Kbit,4Kx8Bit,SOP,8P,5x	1	S.A	
...4	IC112	1103-001310	IC-EEPROM;24LC02B,256X8BIT,SOIC,8P,3.91X	1	S.N.A	
...4	IC112	1103-001310	IC-EEPROM;24LC02B,256X8BIT,SOIC,8P,3.91X	1	S.N.A	

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...4	IC112	1103-001310	IC-EEPROM;24LC02B,256X8BIT,SOIC,8P,3.91X	1	S.N.A	
...4	IC301	1105-001715	IC-VIDEO RAM;M13S128168,K4D261638,GDDR,1	1	S.A	
...4	T0085	1201-001980	IC-AUDIO AMP;TDA7266D,SO,20P,16X11.1MM,-	1	S.A	
...4	T0085	1201-002136	IC-AUDIO AMP;LM4810,MSOP,8P,3x3mm,DUAL,-	1	S.A	
...4	IC304	1203-001824	IC-VOL. DETECTOR;7042,SOT-89,3P,-,PLASTI	1	S.A	
...4	T0087	1203-002351	IC-POSIFIXED REG.;LF25C,DPAK,3P,240MIL,	1	S.A	
...4	T0087	1203-002835	IC-POSIFIXED REG.;KIA7805AF,DPAK,3P,6.6	1	S.A	
...4	T0087	1203-002842	IC-POSIFIXED REG.;AP1117D-33A,TO-252,3P	1	S.A	
...4	IC109	1203-003015	IC-DC/DC CONVERTER;MP1410ES,SOIC,8P,4.9x	1	S.A	
...4	T0170	1203-003059	IC-SWITCH VOL. REG.;MP1583,SOIC,8P,4.9x3	1	S.A	
...4	T0170	1203-003059	IC-SWITCH VOL. REG.;MP1583,SOIC,8P,4.9x3	1	S.A	
...4	T0087	1203-003561	IC-POSIFIXED REG.;NCP551SN15T1G,TSOP-5,	1	S.A	
...4	IC109	1205-003155	IC-LCD CONTROLLER;MST67889ALD-LF,LQFP,25	1	S.A	
...4	R110	2007-000040	R-CHIP;150ohm,1%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000043	R-CHIP;1Kohm,1%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000052	R-CHIP;10Kohm,1%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000067	R-CHIP;15Kohm,1%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000071	R-CHIP;22ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A	
...4	R110	2007-000072	R-CHIP;47ohm,5%,1/10W,TP,1608	1	S.A	

5. Exploded View & Part List

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....4	R110	2007-000643	R-CHIP;270ohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-000643	R-CHIP;270ohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-000708	R-CHIP;3.9Kohm,1%,1/10W,TP,1608	1	S.A	
....4	R110	2007-000821	R-CHIP;390ohm,1%,1/10W,TP,1608	1	S.A	
....4	R110	2007-000913	R-CHIP;43Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-000965	R-CHIP;5.1Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-000965	R-CHIP;5.1Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-000965	R-CHIP;5.1Kohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001044	R-CHIP;56ohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001164	R-CHIP;75ohm,1%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001167	R-CHIP;75ohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-001240	R-CHIP;910ohm,5%,1/10W,TP,1608	1	S.A	
....4	R110	2007-002906	R-CHIP;200Kohm,1%,1/10W,TP,1608	1	S.A	
....4	R110	2007-007004	R-CHIP;12Kohm,1%,1/10W,TP,1608	1	S.A	
....4	R110	2007-007352	R-CHIP;130Kohm,1%,1/10W,TP,1608	1	S.A	
....4	RA301	2011-000002	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,32	1	S.A	
....4	RA302	2011-000002	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,32	1	S.A	
....4	RA303	2011-000002	R-NETWORK;22ohm,5%,1/16W,L,CHIP,8P,TP,32	1	S.A	
....4	RA306	2011-000651	R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,32	1	S.A	
....4	RA307	2011-000651	R-NETWORK;10ohm,5%,1/16W,L,CHIP,8P,TP,32	1	S.A	
....4	RA304	2011-000686	R-NETWORK;56ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A	
....4	RA305	2011-000686	R-NETWORK;56ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A	
....4	RA400	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A	
....4	RA401	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A	
....4	RA402	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A	
....4	RA403	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A	
....4	RA404	2011-000881	R-NETWORK;33ohm,5%,1/16W,L,CHIP,8P,TP,3.	1	S.A	
....4	C120	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	S.A	
....4	C120	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	S.A	
....4	C120	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	S.A	
....4	C120	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	S.A	
....4	C120	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	S.A	
....4	C120	2203-000140	C-CER,CHIP;1.5nF,10%,50V,X7R,1608	1	S.A	
....4	C120	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A	
....4	C120	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A	
....4	C120	2203-000189	C-CER,CHIP;100nF,+80-20%,25V,Y5V,1608	1	S.A	

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...4	C120	2203-006024	C-CER,CHIP;2200nF,10%,10V,X7R,2012	1	S.A	
...4	C120	2203-006333	C-CER,CHIP;10000nF,20%,16V,X5R,TP,3216	1	S.A	
...4	C603	2402-000108	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.2m	1	S.A	
...4	C615	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A	
...4	C632	2402-001081	C-AL,SMD;100uF,20%,25V,WT,TP,8.3x8.3x10	1	S.A	
...4	C400	2402-001086	C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3	1	S.A	
...4	C649	2402-001086	C-AL,SMD;100UF,20%,16V,WT,TP,6.6X6.6X5.3	1	S.A	
...4	C528	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A	
...4	C529	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A	
...4	C550	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A	
...4	C605	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A	
...4	C613	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A	
...4	C617	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A	
...4	C645	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A	
...4	C816	2402-001128	C-AL,SMD;100##F,20%,16V,-,TP,6.3X5.7mm	1	S.A	
...4	C538	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A	
...4	C558	2402-001129	C-AL,SMD;47UF,20%,16V,WT,TP,6.3X5.2MM	1	S.A	
...4	C367	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m	1	S.A	
...4	C502	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m	1	S.A	
...4	C503	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m	1	S.A	
...4	C556	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m	1	S.A	
...4	C557	2402-001178	C-AL,SMD;10uF,20%,16V,WT,TP,4.3x4.3x5.8m	1	S.A	
...4	C720	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A	
...4	C800	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A	
...4	C802	2402-001183	C-AL,SMD;22UF,20%,16V,WT,TP,5.3X5.3X6MM	1	S.A	
...4	C560	2402-001218	C-AL,SMD;22UF,20%,35V,WT,TP,6.6X6.6X5.8M	1	S.A	
...4	C373	2402-001226	C-AL,SMD;4.7UF,20%,35V,HR,TP,4.3X4.3X5.8	1	S.A	
...4	C525	2402-001230	C-AL,SMD;2.2uF,20%,35V,WT,TP,3x5.2mm	1	S.A	
...4	C359	2402-001238	C-AL,SMD;1uF,20%,50V,HR,TP,4.3x4.3x5.2mm	1	S.A	
...4	C360	2402-001238	C-AL,SMD;1uF,20%,50V,HR,TP,4.3x4.3x5.2mm	1	S.A	
...4	C361	2402-001238	C-AL,SMD;1uF,20%,50V,HR,TP,4.3x4.3x5.2mm	1	S.A	
...4	C362	2402-001238	C-AL,SMD;1uF,20%,50V,HR,TP,4.3x4.3x5.2mm	1	S.A	
...4	C363	2402-001238	C-AL,SMD;1uF,20%,50V,HR,TP,4.3x4.3x5.2mm	1	S.A	
...4	C364	2402-001238	C-AL,SMD;1uF,20%,50V,HR,TP,4.3x4.3x5.2mm	1	S.A	
...4	C365	2402-001238	C-AL,SMD;1uF,20%,50V,HR,TP,4.3x4.3x5.2mm	1	S.A	
...4	C366	2402-001238	C-AL,SMD;1uF,20%,50V,HR,TP,4.3x4.3x5.2mm	1	S.A	
...4	C817	2402-001238	C-AL,SMD;1uF,20%,50V,HR,TP,4.3x4.3x5.2mm	1	S.A	
...4	C639	2402-001257	C-AL,SMD;470uF,20%,16V,-,TP,8.3*10	1	S.A	
...4	C650	2402-001257	C-AL,SMD;470uF,20%,16V,-,TP,8.3*10	1	S.A	
...4	C820	2402-001257	C-AL,SMD;470uF,20%,16V,-,TP,8.3*10	1	S.A	
...4	C821	2402-001257	C-AL,SMD;470uF,20%,16V,-,TP,8.3*10	1	S.A	
...4	C618	2402-001273	C-AL,SMD;220uF,20%,35V,WT,REEL,10X10mm	1	S.A	
...4	C638	2402-001273	C-AL,SMD;220uF,20%,35V,WT,REEL,10X10mm	1	S.A	
...4	T0052	2703-000185	INDUCTOR-SMD;3.3uH,10%,2012	1	S.A	
...4	T0052	2703-000185	INDUCTOR-SMD;3.3uH,10%,2012	1	S.A	
...4	T0052	2703-000185	INDUCTOR-SMD;3.3uH,10%,2012	1	S.A	
...4	T0052	2703-000185	INDUCTOR-SMD;3.3uH,10%,2012	1	S.A	
...4	T0052	2703-000185	INDUCTOR-SMD;3.3uH,10%,2012	1	S.A	
...4	T0052	2703-000185	INDUCTOR-SMD;3.3uH,10%,2012	1	S.A	
...4	T0052	2703-000398	INDUCTOR-SMD;10uH,10%,3225	1	S.A	
...4	T0052	2703-000417	INDUCTOR-SMD;220uH,5%,3225	1	S.A	
...4	T0052	2703-001334	INDUCTOR-SMD;1.5uH,10%,2012	1	S.A	

...4	T0052	2703-001426	INDUCTOR-SMD;680uH,20%,7070	1	S.A	
...4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	S.A	
...4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	S.A	
...4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	S.A	
...4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	S.A	
...4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	S.A	
...4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	S.A	
...4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	S.A	
...4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	S.A	
...4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	S.A	
...4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	S.A	
...4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	S.A	
...4	T0052	2703-001778	INDUCTOR-SMD;3.3uH,20%,3225	1	S.A	
...4	T0052	2703-002327	INDUCTOR-SMD;3.9uH,5%,3225	1	S.A	
...4	X202	2801-003667	CRYSTAL-SMD;14.31818MHz,30ppm,28-AAN,16p	1	S.A	
...4	F103	2901-001302	FILTER-EMI SMD;20V,0.3A,0pF,2.0x1.2x1.3m	1	S.A	
...4	F103	2901-001302	FILTER-EMI SMD;20V,0.3A,0pF,2.0x1.2x1.3m	1	S.A	
...4	F103	2901-001302	FILTER-EMI SMD;20V,0.3A,0pF,2.0x1.2x1.3m	1	S.A	
...4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A	
...4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A	
...4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A	
...4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A	
...4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A	
...4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A	
...4	T0568	3301-001145	BEAD-SMD;60ohm,4516,TP,70ohm/45MHz,82ohm	1	S.N.A	
...4	T0568	3301-001236	BEAD-SMD;60ohm,1608,-,-,-	1	S.N.A	
...4	T0568	3301-001793	BEAD-SMD;18ohm,1608,-,TP,11.8ohm/37.6MHz	1	S.A	
...4	T0568	3301-001793	BEAD-SMD;18ohm,1608,-,TP,11.8ohm/37.6MHz	1	S.A	
...4	T0568	3301-001793	BEAD-SMD;18ohm,1608,-,TP,11.8ohm/37.6MHz	1	S.A	
...4	CN103	3701-001311	CONNECTOR-HDMI;21P,2R,FEMALE,SMD-S,AU30U	1	S.A	
...4	CN400	3708-001150	CONNECTOR-FPC/FFC/PIC;30P,1mm,SMD-A,SN,Y	1	S.A	
...4	CN330	3711-005477	HEADER-BOARD TO CABLE;BOX,4P,1R,2mm,SMD-	1	S.A	
...4	CN330	3711-005499	HEADER-BOARD TO CABLE;BOX,8P,1R,1.25mm,S	1	S.A	
...4	CN330	3711-005503	HEADER-BOARD TO CABLE;BOX,9P,1R,2mm,SMD-	1	S.A	
...4	T0010	BN27-00009A	COIL CHOKE;SMD 12x12x6,EOS,33uH,15%,-,0.	1	S.A	
...4	T0010	BN27-00009A	COIL CHOKE;SMD 12x12x6,EOS,33uH,15%,-,0.	1	S.A	
...4	T0010	BN27-00009A	COIL CHOKE;SMD 12x12x6,EOS,33uH,15%,-,0.	1	S.A	
...4	T0077	BN41-00881A	PCB MAIN;PEBBLE20W,19W,FR-4,4L,PCB1.0,1.	1	S.N.A	
...4	M0018	BN97-01667C	ASSY MICOM;LS19PMASF/EDC,W/W	1	S.N.A	
....5	IC115	1107-001580	IC-FLASH MEMORY;MX25L4005,4Mbit,512Kx8Bi	1	S.N.A	
...3	T0245	0202-001521	SOLDER-WIRE FLUX;ECO SOLDER RMA98 SUP,-,	0.025	S.N.A	
..2	M0251	BN96-02854T	ASSY CABLE P;PEBBLE 17" WIDE,FFC CABLE,-	1	S.A	
..2	M0006	BN96-05680A	ASSY SHIELD P-COVER;LS19PE,SECC,T0.8,MFM	1	S.N.A	
...3	T0073	AA63-00932A	GASKET-EMI;PS37S4A,SHIELD FORM,1.0mm,10m	2	S.N.A	
...3	T0527	AA65-30105E	CLAMPER CORE-WIRE;CURIE22,NYLON 66,V0,5M	1	S.N.A	
...3		BN61-02428K	STUD-PEM;PNA,M4,D8,L24,ZPC(SIL),SUM24L	1	S.N.A	
...3		BN61-02429D	STUD-PEM;PNB,M2.8,D7,L20,ZPC(SIL),SUM24L	2	S.N.A	
...3	M0107	BN63-03613A	SHIELD-COVER;19"W(932MW),SECC,T 0.8	1	S.N.A	
..2	T0562	6046-001014	STAND OFF;#4-40,L6,NI PLT,C3601,-	4	S.N.A	

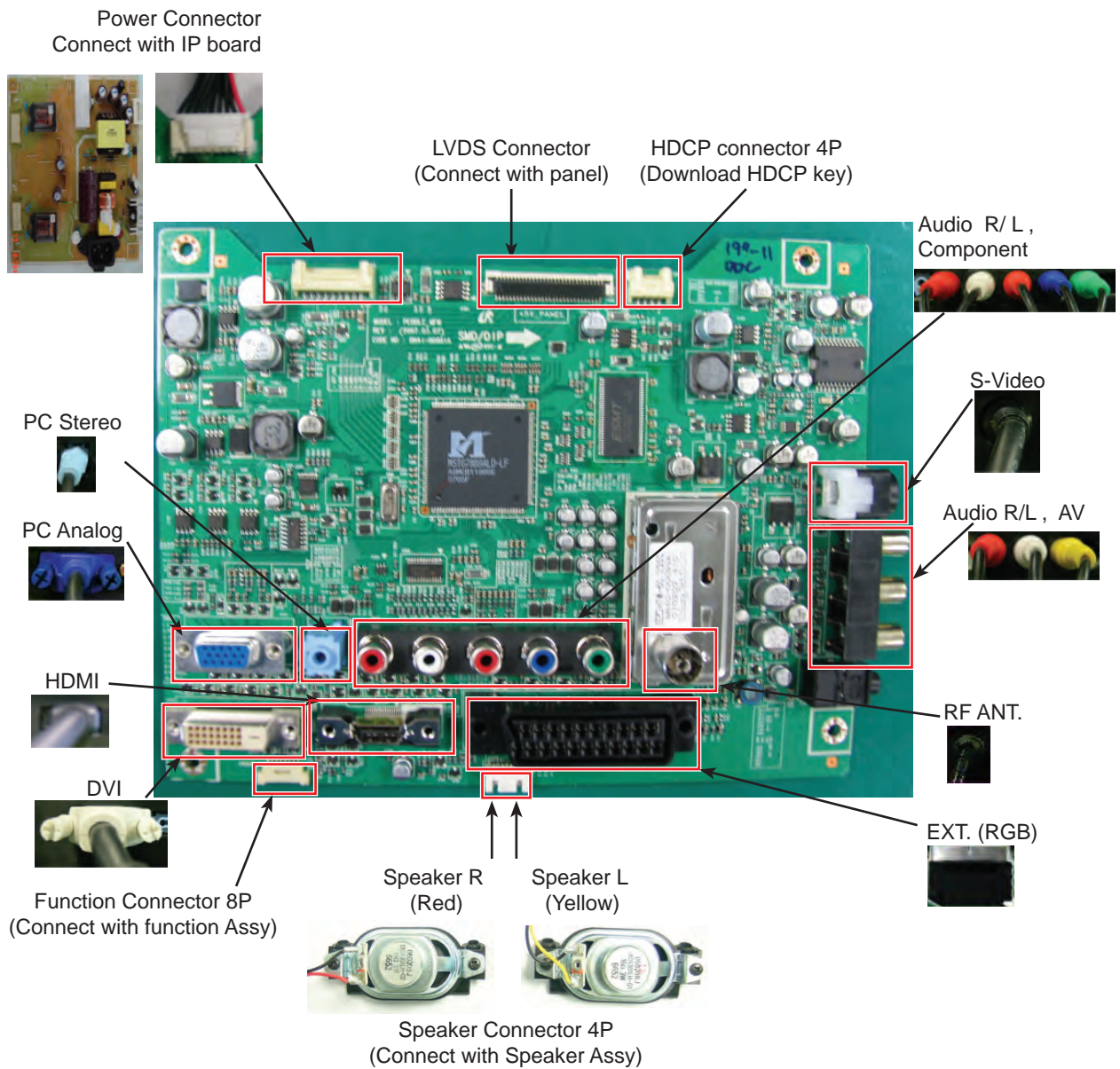
5. Exploded View & Part List

0.1	M0112	BN91-01665A	ASSY SHIELD;LS19PMASF/EDC,MFM	1	S.N.A	
..2		BN63-03614A	SHIELD-LAMP;20"W(2032MW),SPTE,T 0.3	1	S.N.A	
0.1	M0106	BN91-01987B	ASSY LCD-STZ;LS19PEJ*	1	S.N.A	
..2	M0215	BN07-00500A	LCD-PANEL;LTM190M2-L31-X	1	S.A	
0.1	M0045	BN92-02770K	ASSY ACCESSORY;LS19PMASFJ/EDC,S/M932MW,C	1	S.N.A	
..2	M0028	BN96-04150D	ASSY STAND P-BAR;-PEBBLE17,-,ABS HB,BK2	1	S.A	
...3	M0081	6003-000282	SCREW-TAPTITE;BH,+,-,B,M3,L8,ZPC(BLK),SW	2	S.A	
...3	T0524	6902-000023	BAG PE;LDPE,T0.08,L120,W150,TRP,,,PE MAR	1	S.N.A	
...3		BN61-02783D	STAND-BAR;PEBBLE,ABS HB,SL-414WH,BK26,SF	1	S.N.A	
...3		BN61-02786A	BRACKET-PLATE;PEBBLE,SECC,1.0	1	S.N.A	
..2	M0027	BN96-04154B	ASSY STAND P-BASE;-PEBBLE19,-,ABS HB,BK	1	S.A	
...3	M0081	6003-000282	SCREW-TAPTITE;BH,+,-,B,M3,L8,ZPC(BLK),SW	4	S.A	
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	1	S.N.A	
...3	CIS4	BN61-01717A	HOLDER-STAND;BIZET,NI PLT,CH,+M4,L11(5)	1	S.N.A	
...3		BN61-02785A	BRACKET-STAND BODY;PEBBLE,SECC,0.8	1	S.N.A	
...3	CCM1	BN63-02183C	COVER-SHEET;Rhcm,PE Vinyl,T0.05,200mm,20	0.3	S.N.A	
...3	T0004	BN63-02882B	COVER-STAND BASE;PEBBLE,ABS,2.6,HB,BK26	1	S.N.A	
...3		BN68-01115A	MANUAL FLYER-QSG;COMM,SyncMaster,korean,	1	S.N.A	
...3	T0132	BN73-00077A	RUBBER FOOT;MATISSE,BUMPON,##13.5,T2.0,6	4	S.N.A	
..2	M0254	BN96-05697F	ASSY ACCESSORY-CABLE&MANUAL;LS19PMASFJ/E	1	S.A	
...3		BH68-70448A	CARD-01;TFT LCD,SRC,RUSSIA,S/W,120,W210*	1	S.N.A	
...3	M0156	BN68-01477A	MANUAL USERS-01;comm,Samsung,Eng/Rus/Ukr	1	S.N.A	
...3	T0524	6902-000110	BAG PE;LDPE,T0.05,W250,L400,TRP,28,2	1	S.N.A	
...3	T0076	BH68-00633B	MANUAL FLYER-02,WARRANTY CARD;comm,Samsu	1	S.N.A	
...3		BN68-00907A	MANUAL FLYER-01,CARD;COMM,SAMSUNG,18 LAN	1	S.N.A	
...3	M0215	BN96-05691B	ASSY MANUAL P-IB+QSG;COMM,-,SyncMaster,W	1	S.N.A	
...4	IB	BN59-00625B	S/W DRIVER-01,IB;COMM,W/W,SyncMaster	1	S.N.A	
...4	QSG	BN68-01276A	MANUAL FLYER-QSG;932MW.2032MW,SyncMaster	1	S.N.A	
...3	T0268	3903-000042	CBF-POWER CORD;DT,EU,FP3/YES,IEC320 C13/	1	S.A	
...3	T0128	BN39-00061C	CBF SIGNAL-STEREO;Mckinley,1,male,1.5m,B	1	S.A	
...3		BN63-01798A	CLOTH-CLEAN;RE40**,CLOTH,180,200,RHCM	1	S.N.A	
..2	T0074	BN59-00596A	REMOCON;CURIE 22",TM85,37,28mArms,Dc1.8~	1	S.A	
..2		BN68-01115C	MANUAL FLYER-QSG;COMM,SyncMaster,korean,	1	S.N.A	
..2	T0175	AA68-03723A	MANUAL FLYER-01,WARRANTY CARD;CS14Y510X,	1	S.N.A	
..2	M0114	BN39-00244G	CBF SIGNAL;D-sub cable,15P/15P,20276N,15	1	S.A	
0.1	M0003	BN92-02772D	ASSY BOX;LS19PMASFJ/EDC,S/M932MW,CIS	1	S.N.A	
..2	M0045	BN69-01954B	BOX-MONITOR;LS19PEA,CB,SY-01,A1,W527,D40	1.02	S.N.A	
..2	T0081	BN96-02895A	ASSY MISC P-HANDLE PACKING;ALL MODEL,BN6	1	S.N.A	
...3	M0103	BN66-00007A	LEVER-TOP;ALL MODEL,LDPE,WHITE	1	S.N.A	
...3	M0102	BN66-00008A	LEVER-BOTTOM;ALL MODEL,LDPE,WHITE	1	S.N.A	
0.1	M0019	BN92-02774A	ASSY LABEL;LS19PMASF/EDC	1	S.N.A	
0.1	M0113	BN92-02775B	ASSY P/MATERIAL;LS19PMASF/EDC	1	S.N.A	
..2	T0376	6902-000061	BAG AIR;LDPE,T0.2,L1000,W500,TRP,,,	0.005	S.N.A	
..2	T0524	6902-000241	BAG PE;NITRON/HDPE,T0.5/T0.012,W600,L600	1	S.N.A	
..2	T0376	6902-000379	BAG AIR;LDPE,T0.2,W1000,L1800,TRP,-,--	0.001	S.N.A	
..2	T0003	6902-000604	BAG WRAPPING;LDPE,T0.02,W500,L10000,TRP,	1.09	S.N.A	

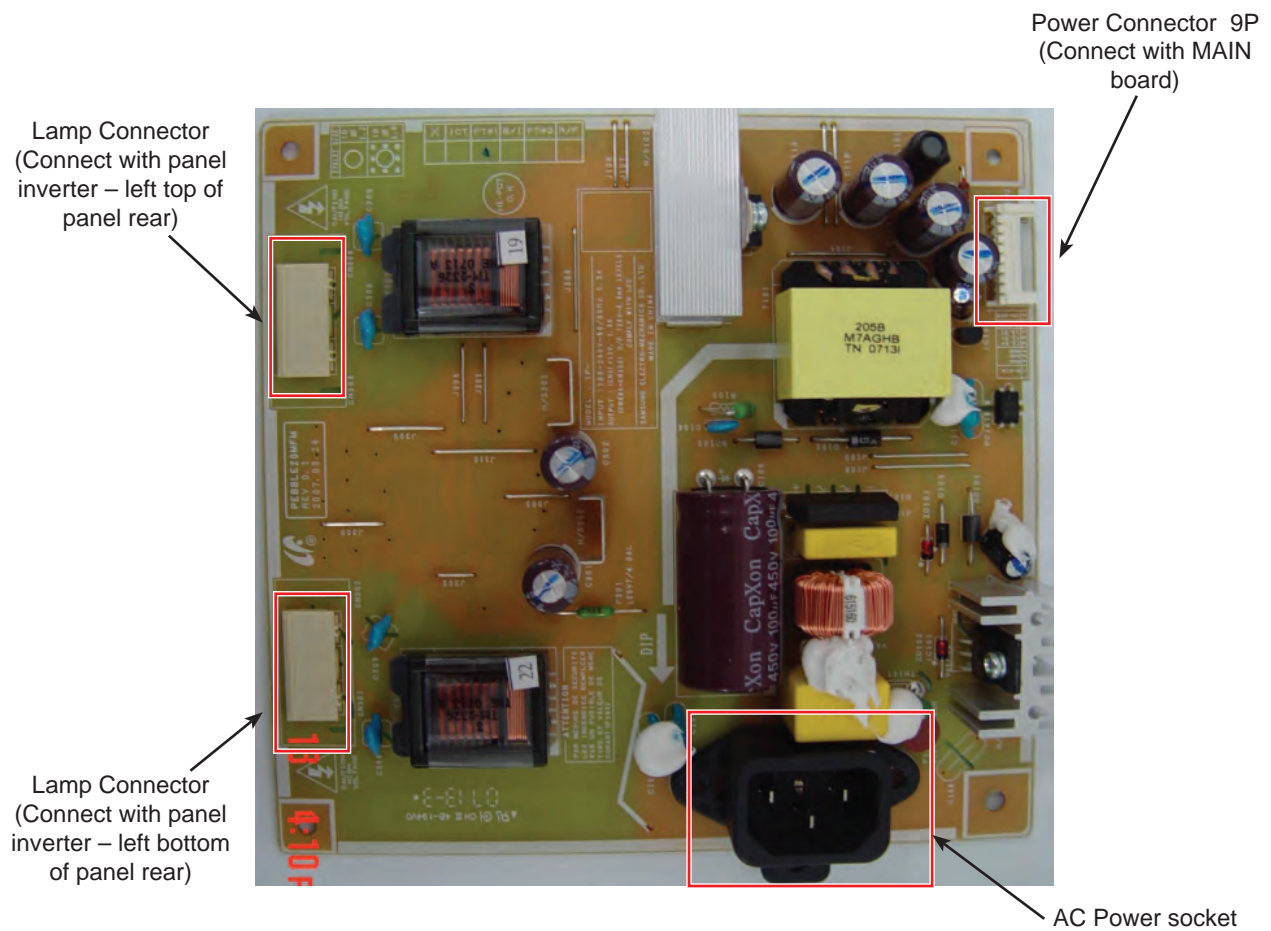
..2	M0081	6902-000609	BAG ROLL;LDPE,T0.05,W2400,L1000,TRP,-,-	0.021	S.N.A	
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6. Wiring Diagram

6-1. Wiring Diagram - Main Board



6-2. Wiring Diagram - IP Board

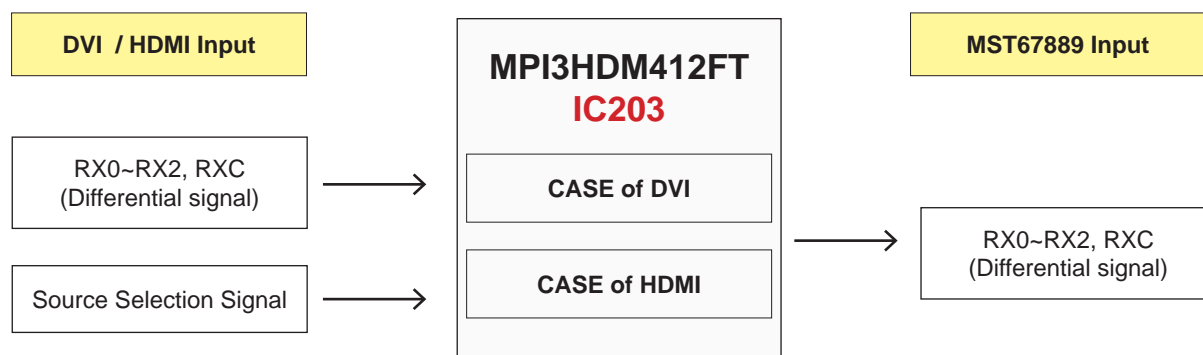
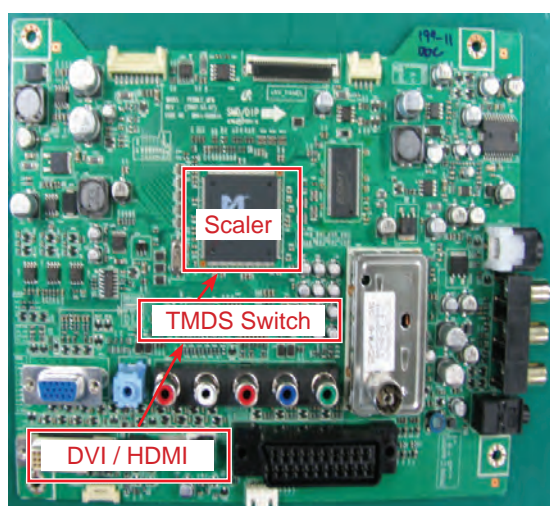


7. Schematic Diagram

7-1. Circuit Descriptions

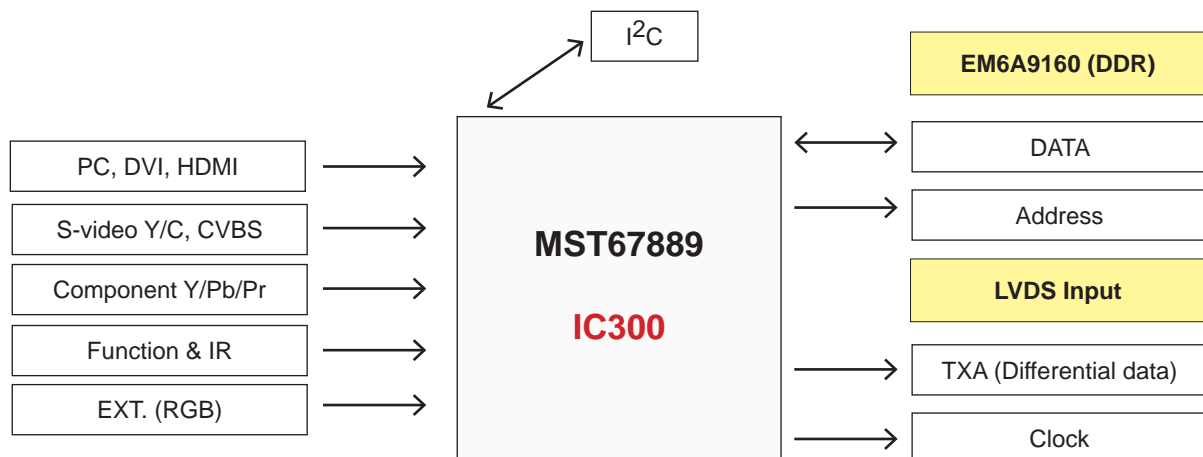
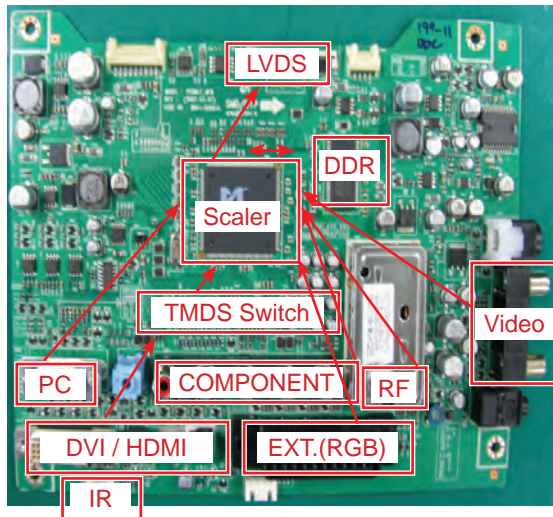
■ MPI3HDMI412FT

- TMDs Switch
- Receive DVI or HDMI input, then send signals to scaler after switching
 - DVI signal : video signal is sent to scaler
 - HDMI signal : video and sound signal are sent to scaler



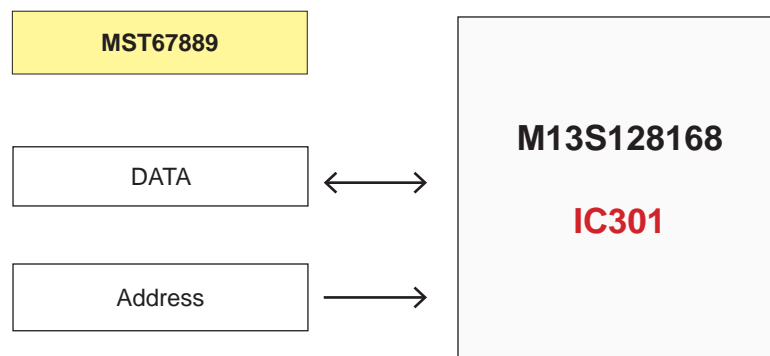
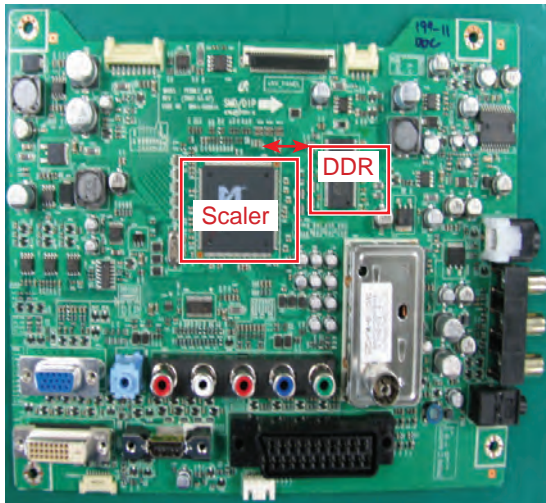
■ MST67889

- MSTAR Scaler IC
- NTSC/PAL/SECAM Video decoder
- Multi-Standard TV Sound Decoder
- Support OSD, PIP, Micom, Image enhancer and 3-D Comb filter



■ M13S128168

- 128Mbit DDR Memory
- Scaler data backup

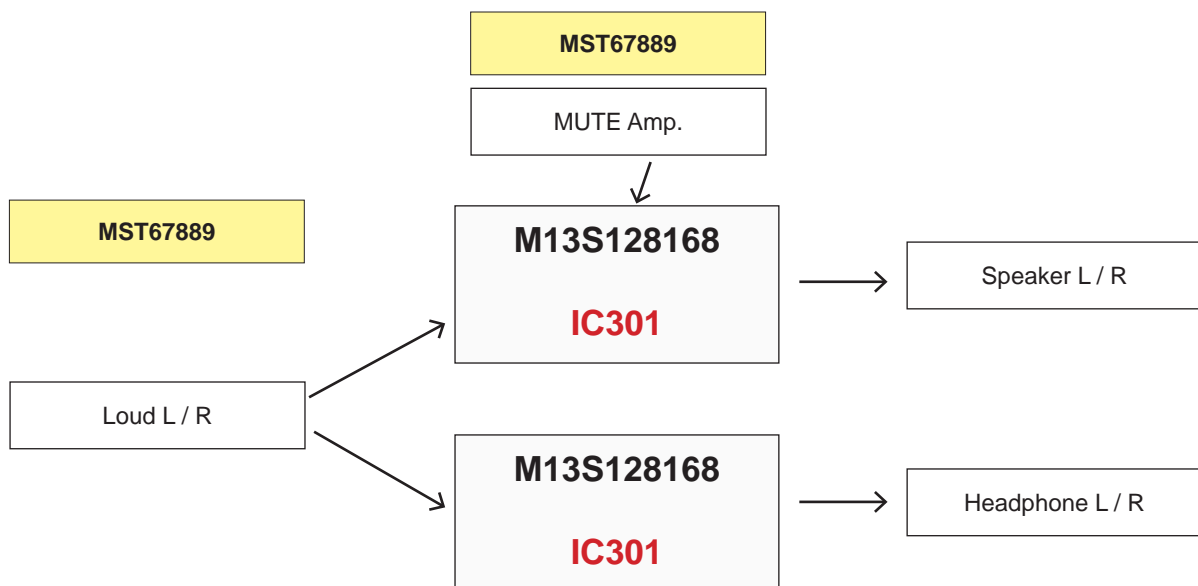
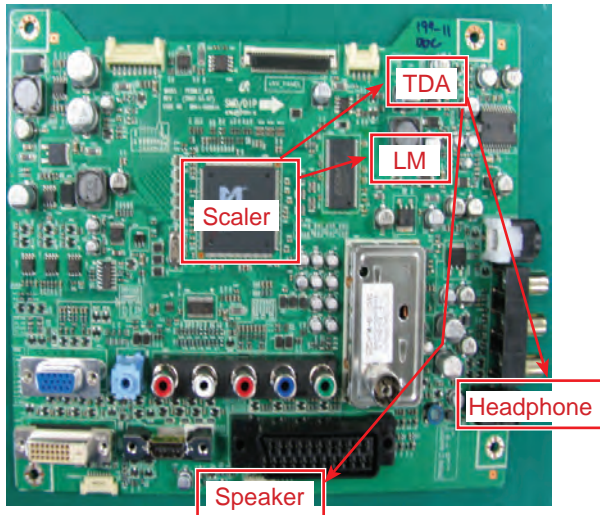


■ TDA7266D

- Audio Amp.
- Receive sound signals from scaler, then send signals to speaker after amplifying

■ LM4810MM

- Audio Amp.
- Amplify sound signals, then send signals to headphone



Function

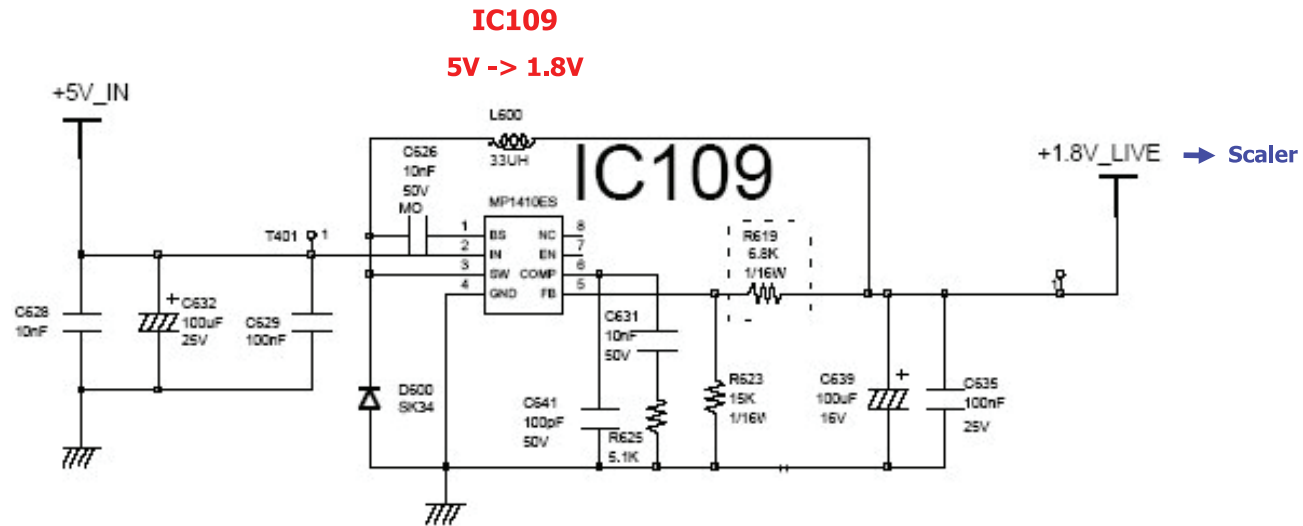
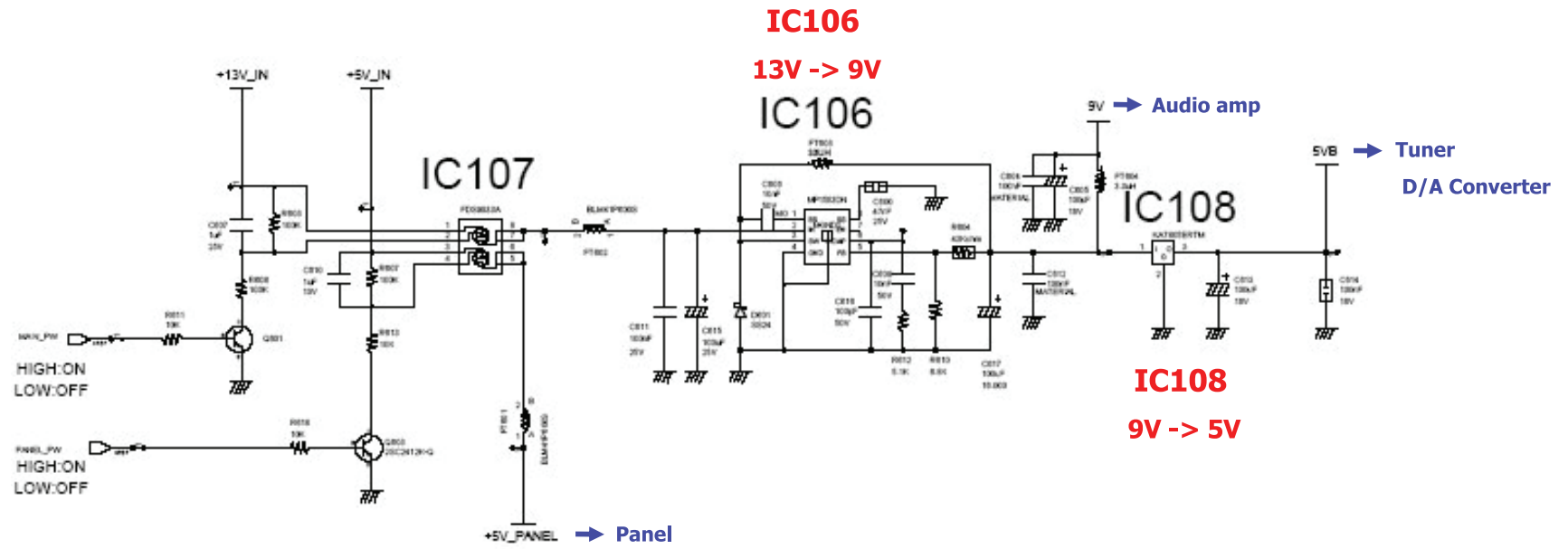
➔ D-Sub / DVI / HDMI 커넥터 전원
Scaler
Flash memory

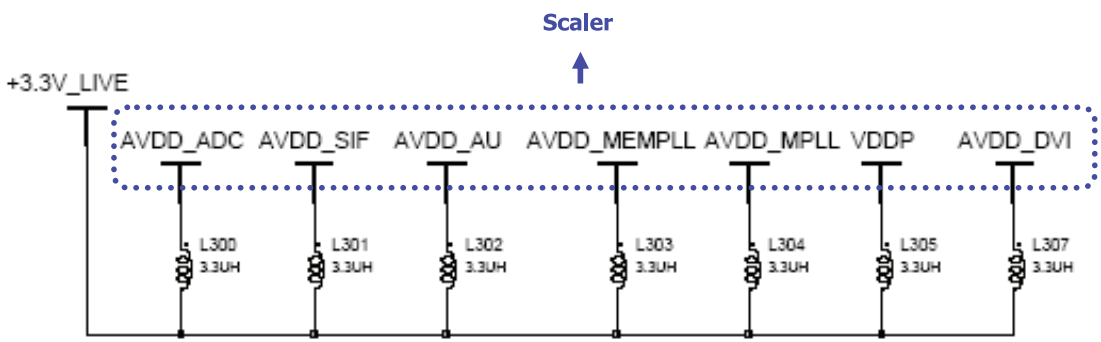
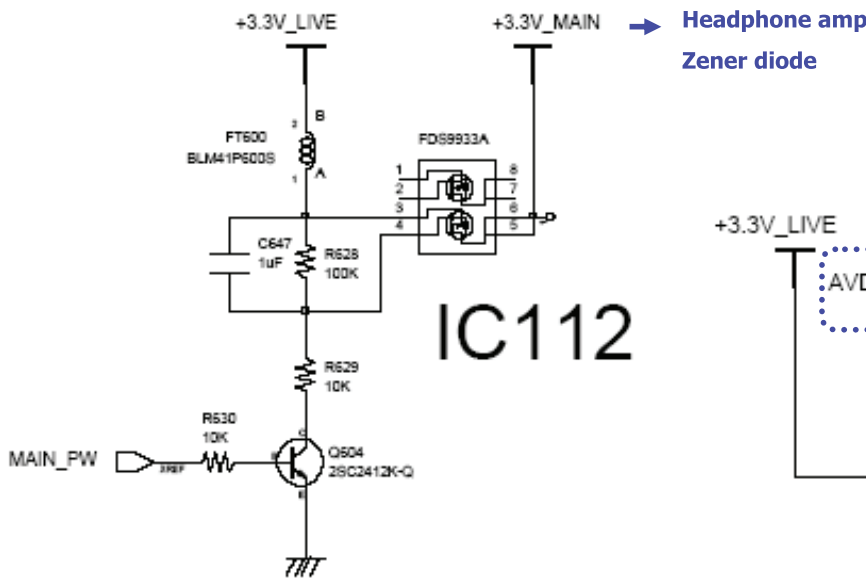
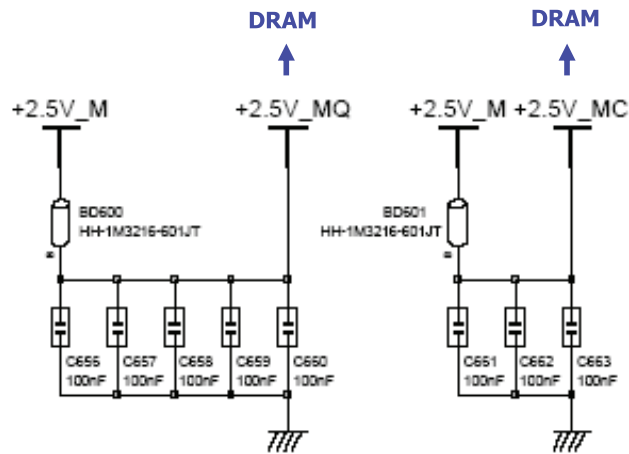
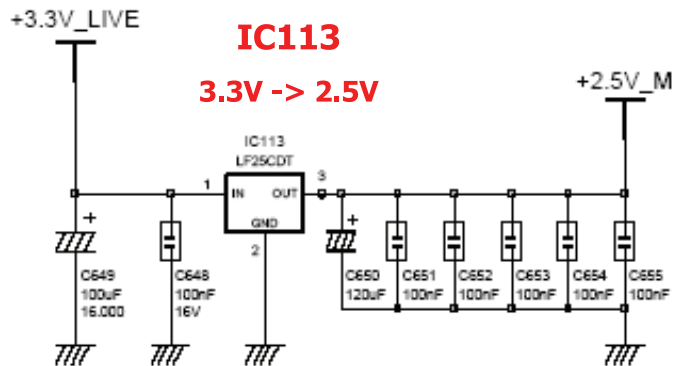
IC111
5V -> 3.3V



IC110
13V -> 5V







PC Video Signal Input

PC Audio Signal Input

SCALER

IC300

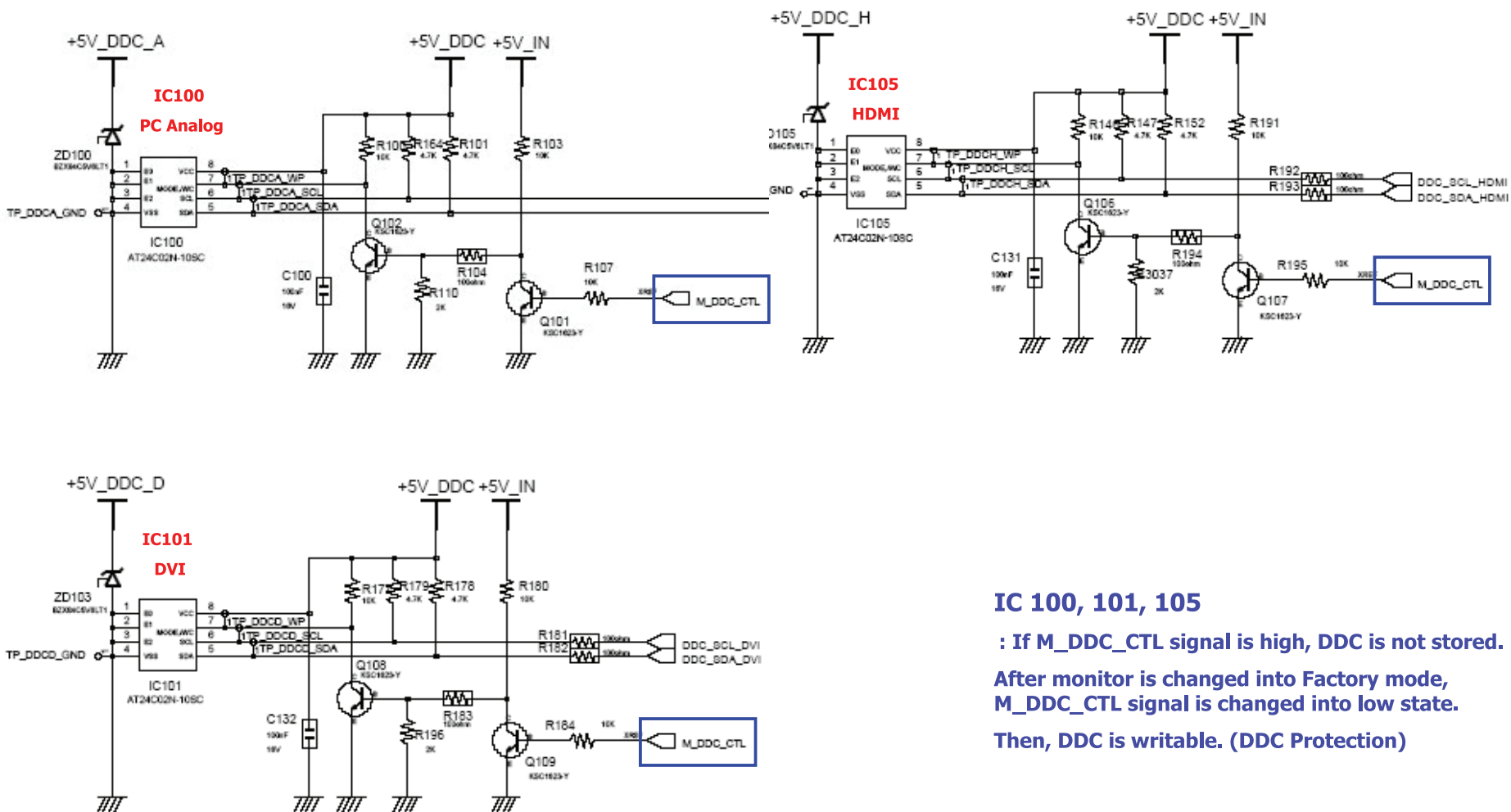




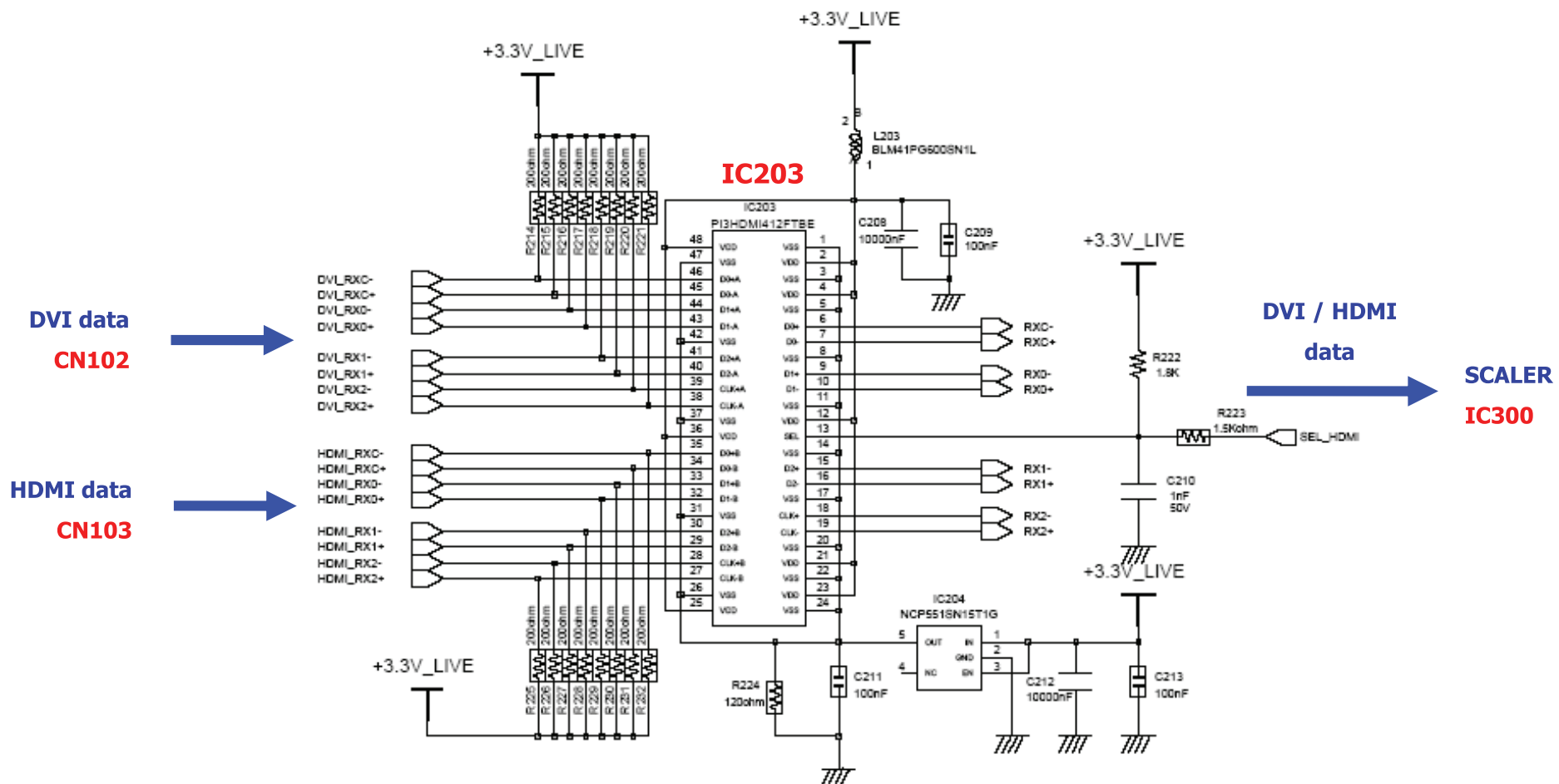
IC 100, 101, 105

**After monitor is changed into Factory mode,
M_DDC_CTL signal is changed into low state.**

Then, DDC is writable. (DDC Protection)



7-2-5. TMDS Switch PI3HDMI412FT



7-2-6. Component / Ext. (RGB)



Video Signal Input

Signal Input

7-2-7. AV / S-Video

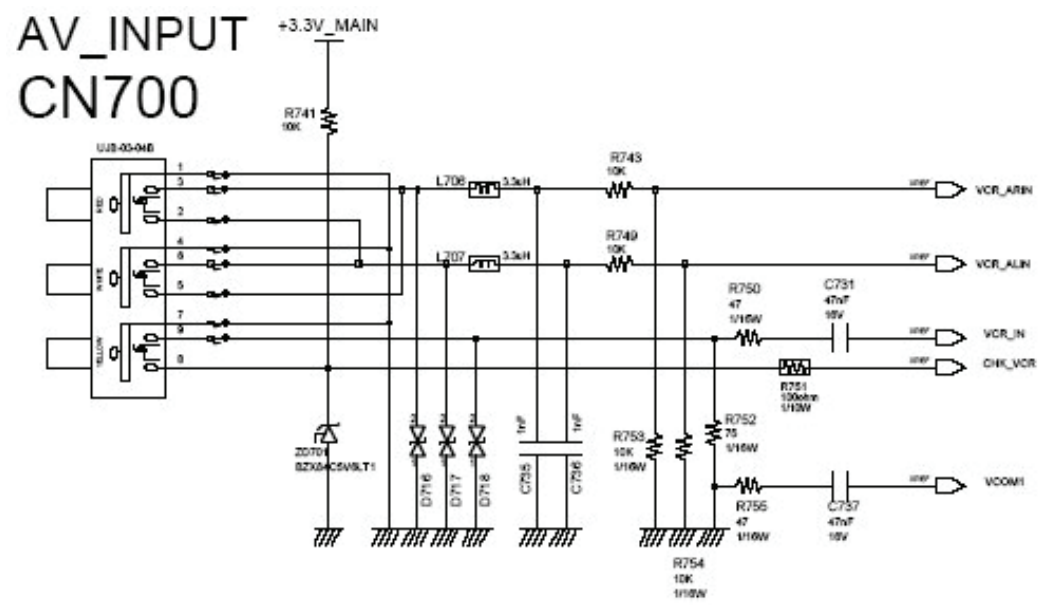
CN 700
AV
Video Signal Input



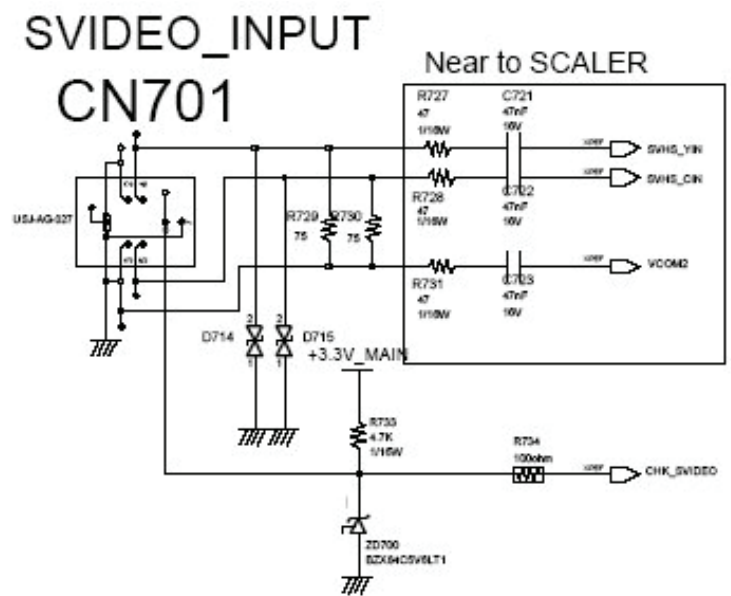
CN 700
AV
Sound Signal Input



CN 701
S-Video
Signal Input

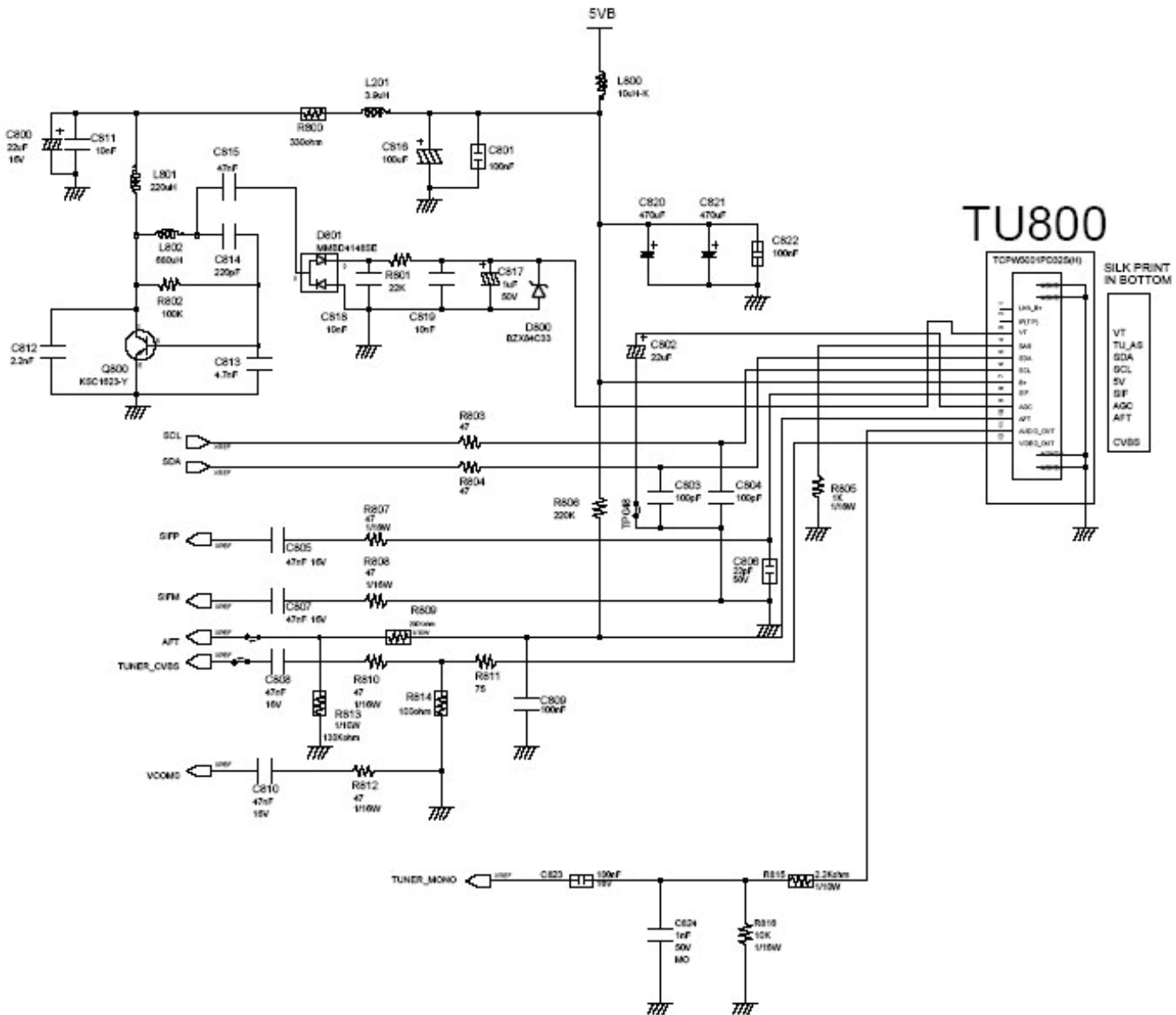


SCALER
IC300



SCALER
IC300

7-2-8. Tuner



SCALER
IC300



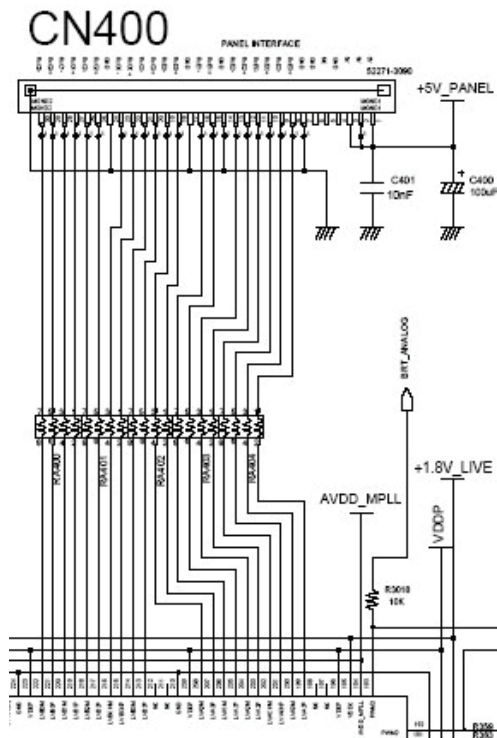




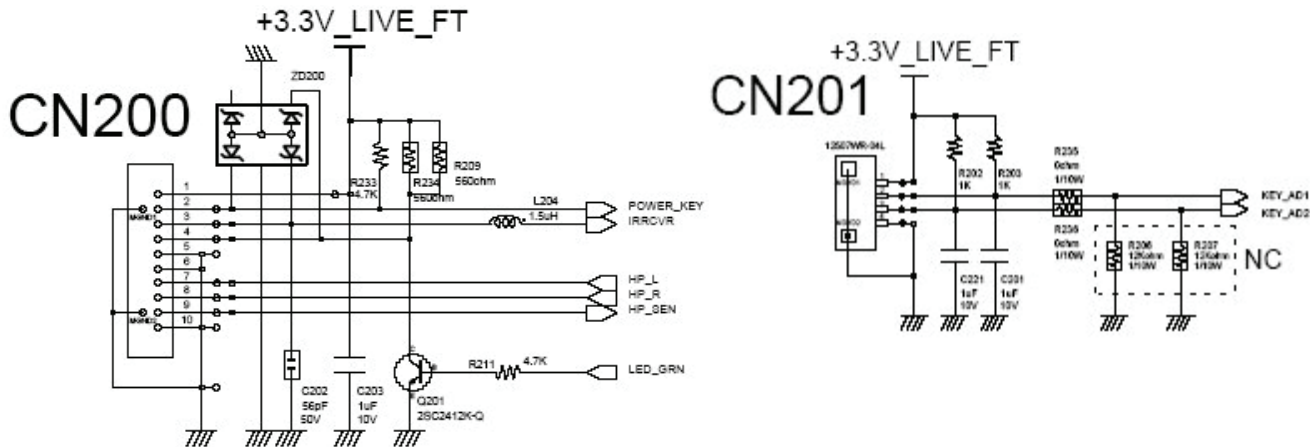


7-2-12. Function / LVDS / EEPROM

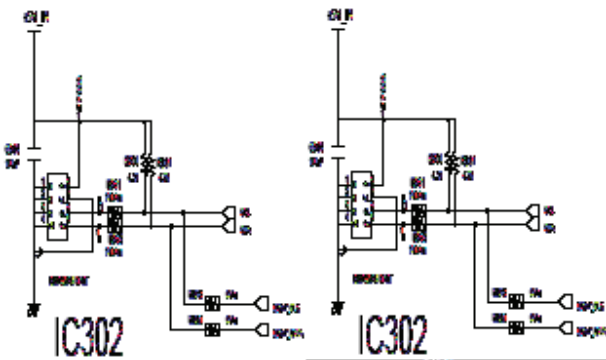
LVDS



Function

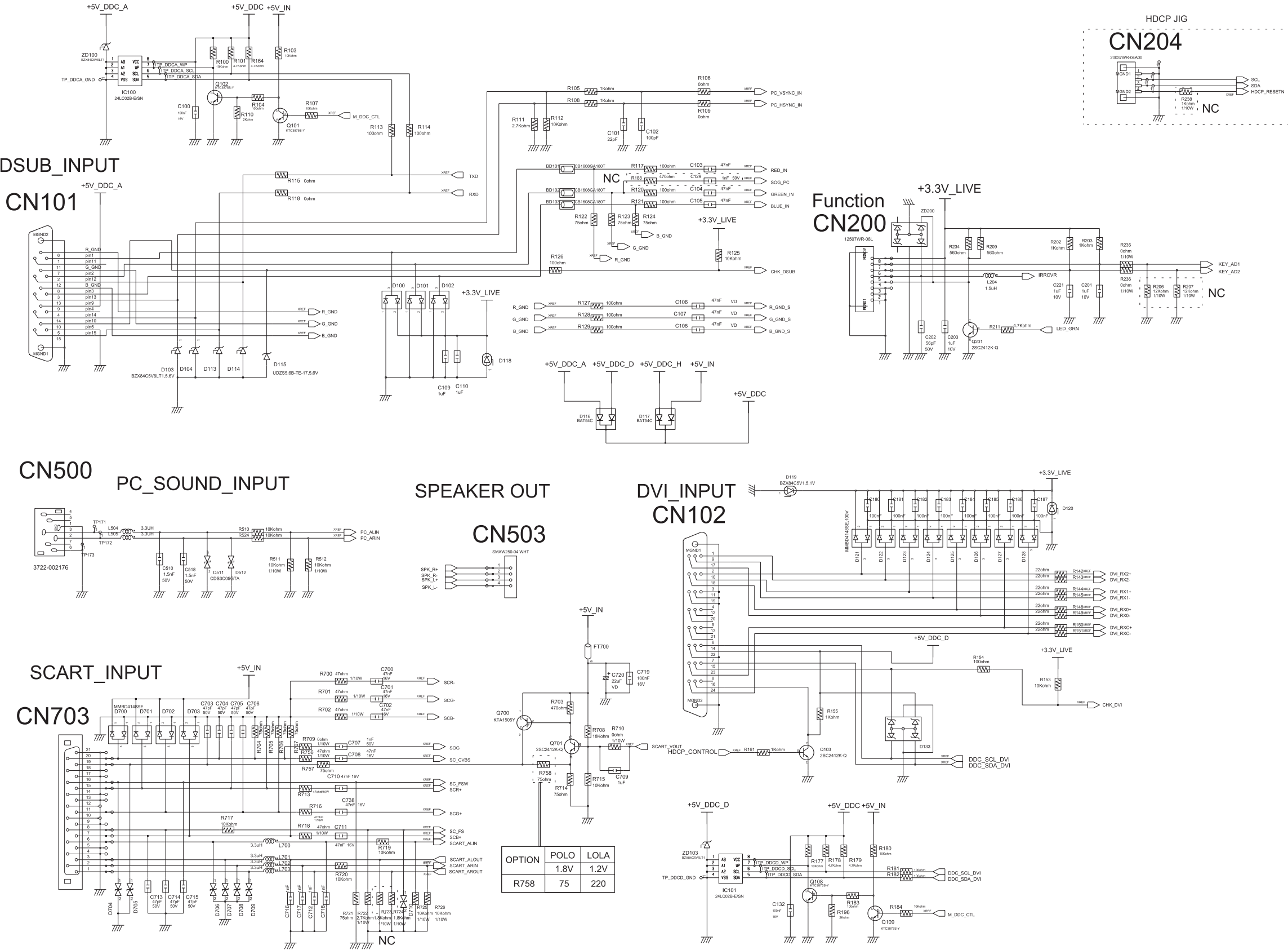


EEPROM

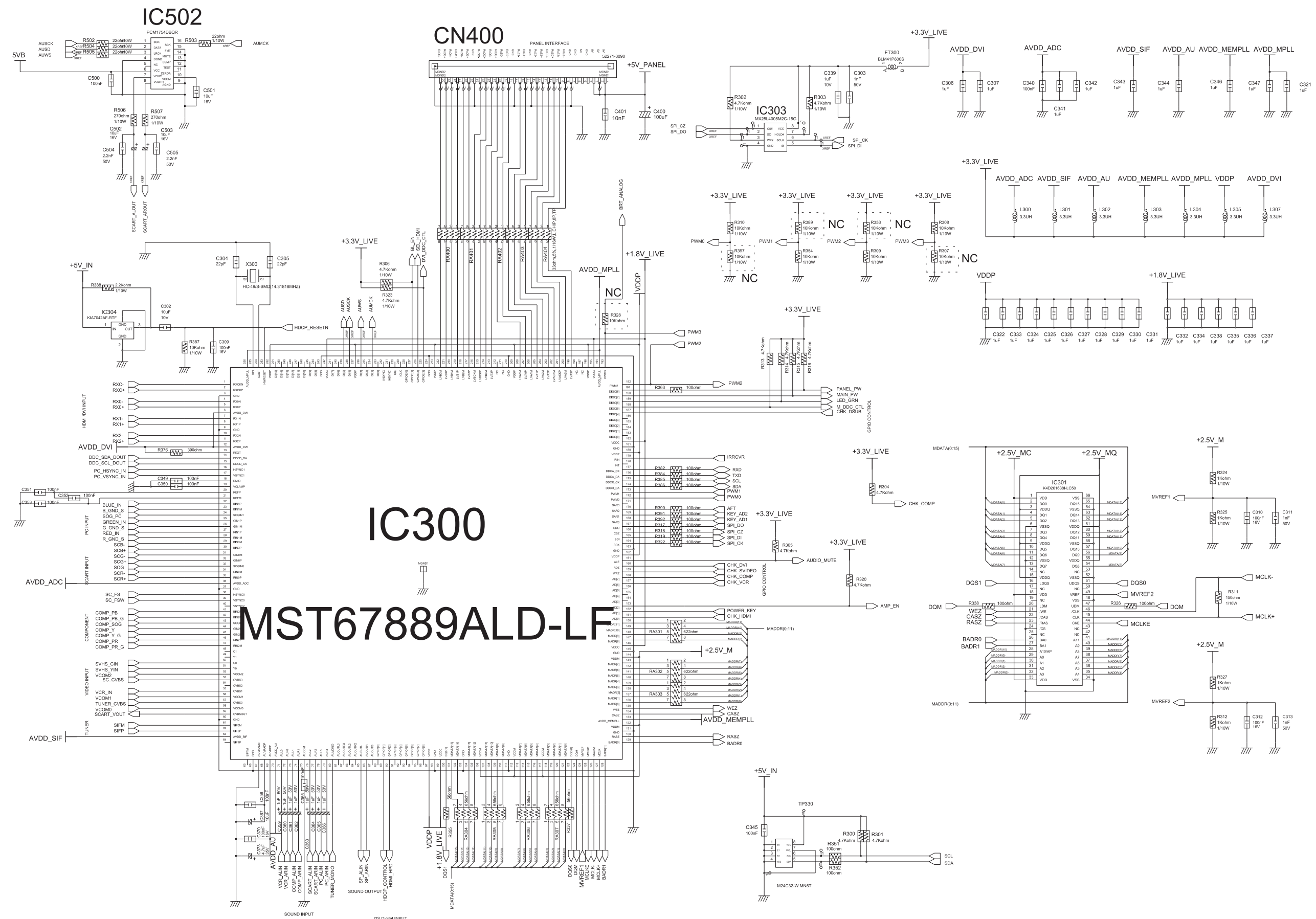


7-3. Schematic Diagram

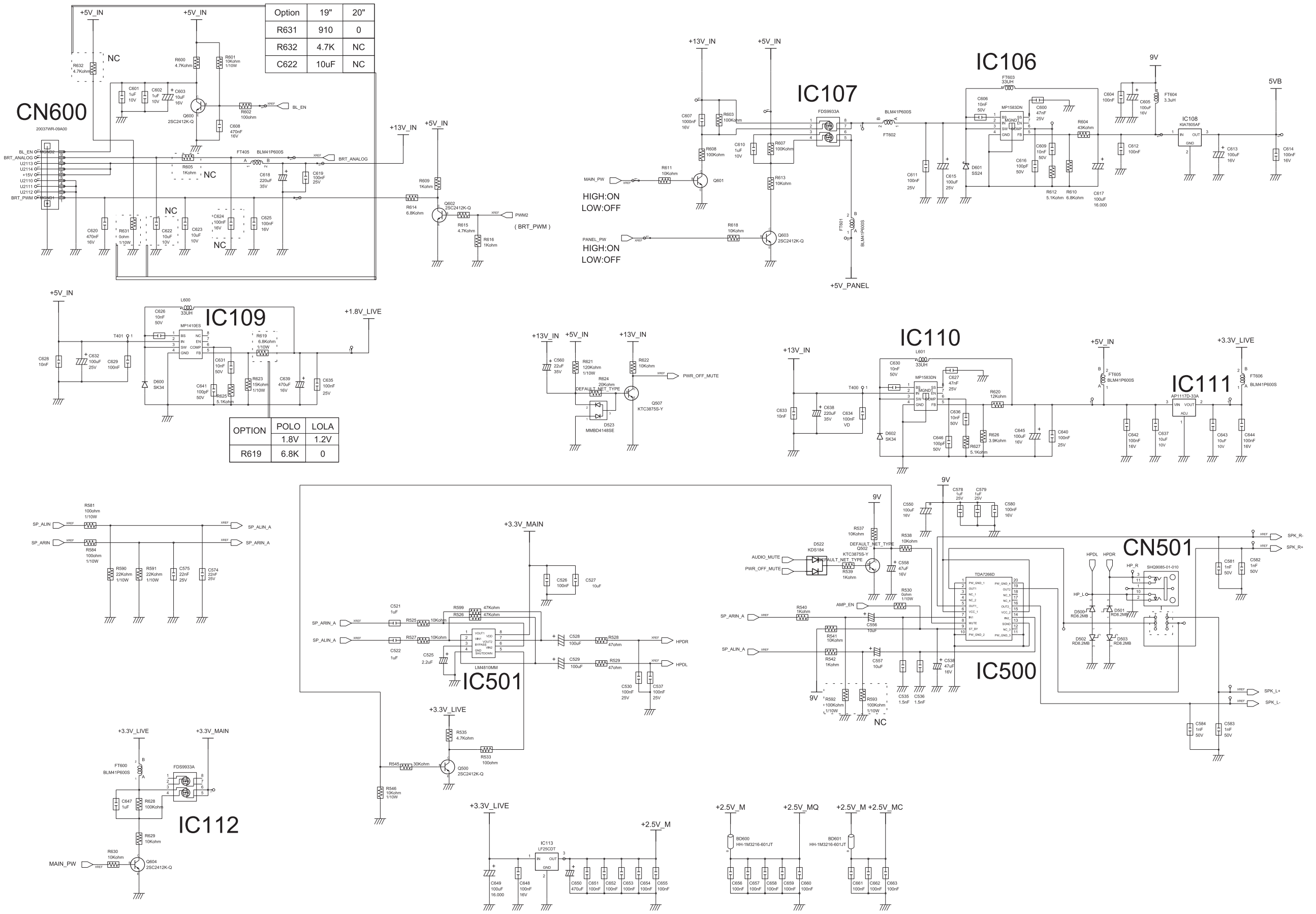
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