



**SAMSUNG**

# YEPP

Model Name : YP-T10

Model Code : YP-T10JQB/XEO

YP-T10JQB/XEU

YP-T10JAB/XEU

# ***SERVICE*** Manual

**YEPP**



YP-T10

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2. Product Specification
3. Disassembly & Reassembly
4. Troubleshooting
5. Exploded View & Part List
6. PCB Diagram
7. Schematic Diagram

Refer to the service manual in the GSPN (see the rear cover) for the more information.



#### **GSPN (Global Service Partner Network)**

<b>Area</b>	<b>Web Site</b>
North America	service.samsungportal.com
Latin America	latin.samsungportal.com
CIS	cis.samsungportal.com
Europe	europe.samsungportal.com
China	china.samsungportal.com
Asia	asia.samsungportal.com
Mideast & Africa	mea.samsungportal.com

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Printed in Korea

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# 1. Precaution

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## 1-1 Safety Precautions

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1. To remove dust from cabinet, use a dry cloth without using liquid and aerosol cleaner.
2. You should not use attachments not recommended by the company. Otherwise, it may cause critical damage.
3. You should not use this product near water such as bathtub, swimming pool or lake etc.
4. Power supply: A type of battery as displayed on the label should be only used.
5. You should not put any object or liquid into product. Otherwise, it may cause failure or mal-operation.
6. If replacement material is required, service engineer should use materials with the same standard.  
The use of non-standardized materials may cause failure of product.



## 1-2 Static Electricity Precautions

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Some semi-conductor parts may be easily damaged due to static electricity.

These elements are generally called as static electricity sensitive device (ESD). Typically examples of EST include IC, some transistor and chip element for semi-conductor with electrical field effect.

The following methods should be used to reduce damage of elements occurred due to static electricity:

1. Contact and emit all the grounding objects with static electricity from your body before handling with elements for semi-conductor or devices with elements for semi-conductor. You should purchase and use static electricity arm rings or commercially available. You should remove it due to potential shock before supplying power to the device under test.
2. You should place appliance on the conductive surface like aluminum film to prevent that static electricity is accumulated or the device is disclosed outside after removing electrical appliance with the ESD device.
3. You should use only soldering iron that is ground when soldering the ESD device.
4. Minimize physical operation when handling with the ESD device for replacement without packing (Otherwise, namely friction between cloth fibers or lifting of the foot from the carpet floor may cause static electricity enough to damage the ESD device).

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## 2. Product Specification

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### 2-1 Product Feature

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#### ■ Bluetooth, Video, Best Audio, Variety of Accessory



YP-T9

- **Slim & Stylish**
  - 11mm → 7.8mm
  - Back Metallic Design
- **Advanced Video**
  - 1.8 → 2.0"
  - QCIF+/15f → QVGA/30fps
- **Advanced Bluetooth**
  - B/T support to Video/Game
- **Best Audio**
  - Tone quality embodiment more than K5
- **Various Accessory**
  - Various Fashion and Technical accessory support



YP-T10

## 2-2 Specifications

### ■ Basic Specification

Model Name	YP-T10														
	JQB	JAB	JCB	JQG	JAG	JCG	JQR	JAR	JCR	JQU	JAU	JCU	JQW	JAW	JCW
Capacity	2G	4G	8G	2G	4G	8G	2G	4G	8G	2G	4G	8G	2G	4G	8G
Color	Midnight Black			Lime-Yellow			Maple Red			Mystic Purple			White Cloud		
Rating	DC 5.0V / 500mA														
Built-in Battery Power	550 mAh / DC 3.7V														
File Compatibility	AUDIO: MPEG1/2/2.5 Layer3(8kbps~320kbps, 22kHz~48kHz) WMA(5kbps~320kbps,8kHz~48kHz) VIDEO: SVI (Video: MPEG4, Audio: MP3(44.1kHz, 128Kbps), WMV(Video: WMV9 Simple Profile, Audio: WMA Spec (Max 860kbps), Resolution: 320X240, Frame Rate: 30fps) IMAGE: JPEG(ISO/IEC 10918-1/Annex F-Sequential DCT-based mode of operation)														
Earphone Output	20mW (16Ω)														
Output Frequency Range	20Hz ~ 20KHz														
Signal to Noise Ratio	90dB with 20KHz LPF(based on 1kHz 0dB)														
Play Time	Maximum of 30 hours for music playback (based on: MP3 128kbps, Volume 15, Normal sound mode), Maximum of 4 hours for video playback														
Temperature Characteristics	-5 ~ 35°C (23 ~ 95°F)														
Case	Plastic , Aluminum														
Weight	43g														
Dimensions (WxHxD)	41.5 x 96 x 7.9 mm														
LCD	QVGA 2" TFT-LCD (30fps)														
FM RADIO	FM Frequency	87.5 ~ 108.0MHz													
	FM Signal to Noise Ratio	50dB													
	FM T.H.D	1%													
	FM Useable Sensitivity	30dBμ													

**■ Wireless System**

<b>Emission Type</b>	F1D
<b>RF Power</b>	CLASS II
<b>Transmit Frequency</b>	2402MHz ~ 2480MHz
<b>Receive Frequency</b>	2402MHz ~ 2480MHz
<b>No. of channels</b>	79 CH
<b>Temperature</b>	-10°C ~ +50°C (14 ~ 122°F)
<b>Modulation System</b>	GFSK
<b>Communication Mode</b>	Semi-duplex Operation
<b>Humidity</b>	95%
<b>Spec Version Supported</b>	2.0
<b>Module</b>	BTEM48B2SA


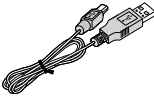
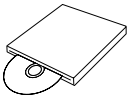
## 2-3 Specifications Analysis

Model Name	YP-T10	YP-T9	iPod nano	SONY A-series
Photo				
Dimensions (WxDxH)	41.5 x 96 x 7.9 mm	42.6 x 83 x 11 mm	40.6 x 88.9 x 6.6 mm	44.5 x 88.0 x 9.6 mm
Weight	43g	49g	39.97g	53g
LCD	2.0" QVGA (320x240, 30fps)	1.8" QCIF+ (220x172, 15fps)	1.46" (176x132)	2.0" QVGA (320x240, 30fps)
Color	Midnight Black Mystic Purple Maple Red Lime-Yellow White Cloud	Black, Purple, Pink	Black, Pink, Lime, Blue, Silver, Red	Black, White, Silver, Blue, Pink
Capacity	2GB / 4GB / 8GB	1GB / 2GB / 4GB / 8GB	2GB / 4GB / 8GB	2GB / 4GB / 8GB
Battery Time	Audio: 30Hrs Video: 4Hrs	Audio: 30Hrs Video: 6Hrs	Audio: 24Hrs	Audio: 30Hrs Video: 8Hrs
Functions	Music, Video, Photo, FM Radio, Voice Rec., FM Rec., Text Viewer	Music, Video, Photo, FM Radio, Voice Rec., FM Rec., Text, Game	Music, Photo, Text, Game	Music, Photo, Video
Bluetooth	Enabled (Audio & Video) Bluetooth 2.0 (1:2 Support)	Enabled (Only Audio) Bluetooth 1.2	X	X

## 2-4 Accessories

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### 2-4-1 Supplied Accessories

Accessories	Item	Item code		Remark
	Earphones	Black	AH30-00087E	Samsung Service center
	USB Cable	AH39-00899A		
	Program Installation CD	AH46-00049A		




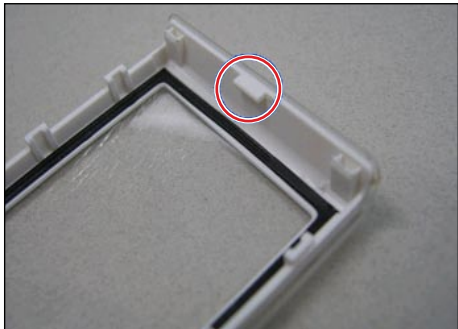
# MEMO

## 3. Disassembly & Reassembly

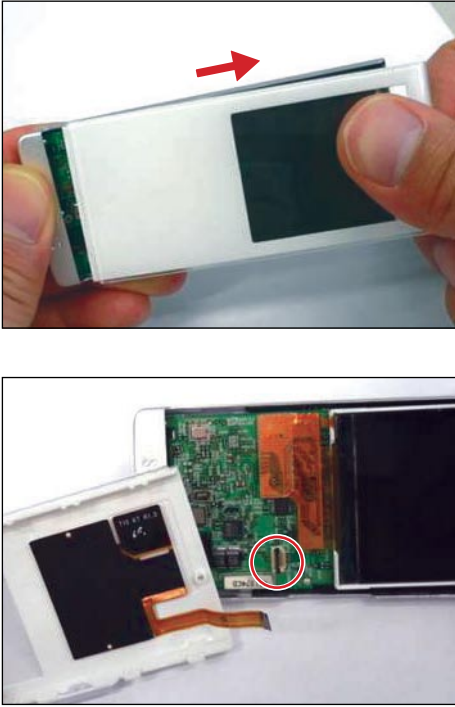
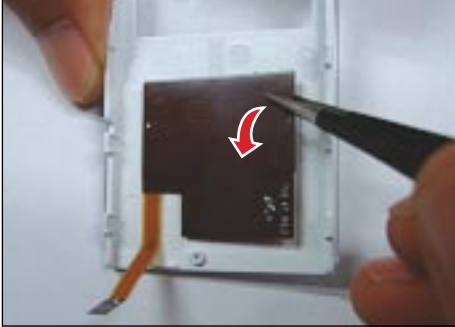
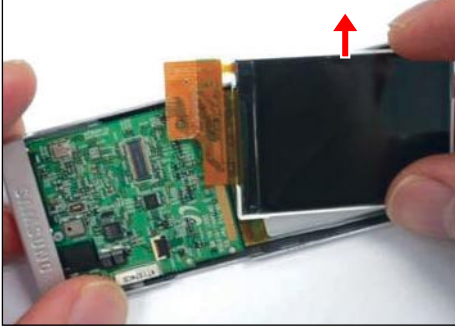
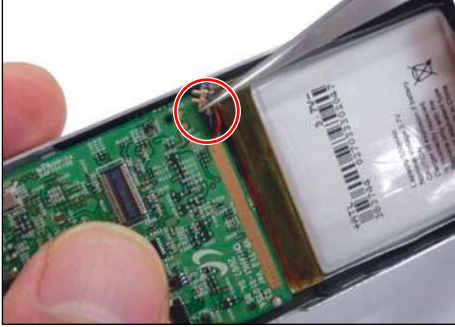
### 3-1 Disassembly Method

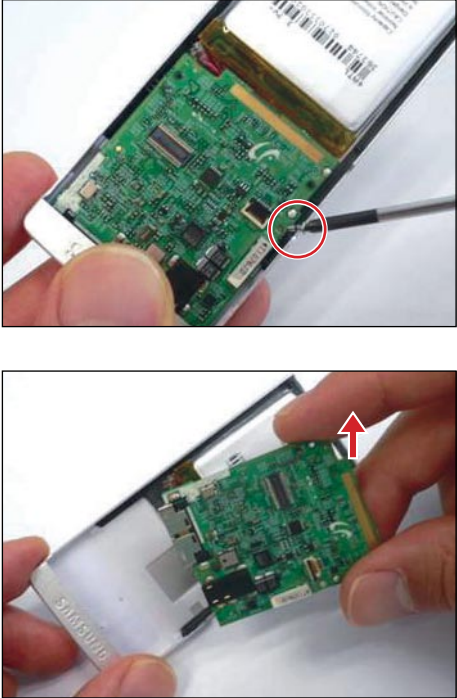


- Be careful to follow the disassembly sequence described in the manual. Otherwise, the product may be damaged.
- Be sure to carefully read and understand the safety instructions before performing any work as the IC chips on the PCB are vulnerable to static electricity.
- Assemble in the reverse order of disassembly.



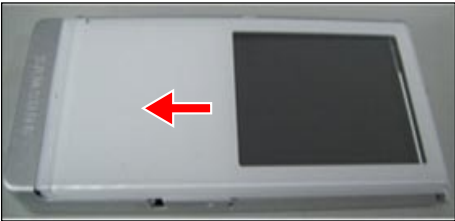

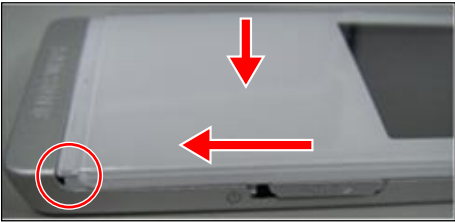
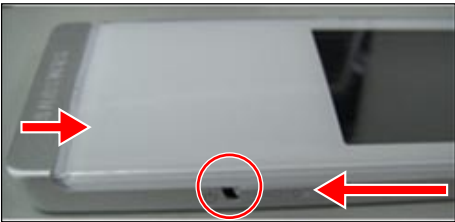
No.	Part Name	Description	Description Photo
1	CABINET-BACK	<p>1) Remove Serial Label.</p> <div style="border: 1px solid black; padding: 2px; margin: 5px 0;"> <p>⚠ The label must not be damaged.</p> </div> <p>2) Please unscrew 1EA from HOLDER-JACK. : CH,+,B,M1.4,L5,NI PLT</p> <p>3) Hook is fastened in Front top inner, Please hold up Front top and draw away hook.</p>	   

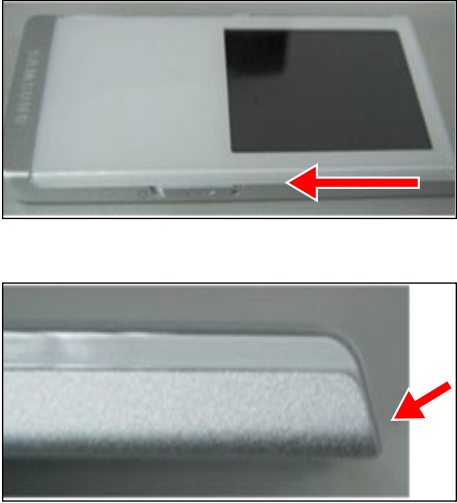


No.	Part Name	Description	Description Photo
2	CABINET-FRONT	<p>1) Raise CABINET-FRONT like an arrow direction.</p> <p>2) Please separate CABINET-FRONT FPC-TOUCH from YP-T10 PCB using pinset.</p> <div data-bbox="435 757 914 891" style="border: 1px solid black; padding: 5px;"> <p>⚠ When removing the FPC-TOUCH, be sure to use a pair of tweezers to avoid a tear.</p> </div>	
3	TOUCH-PAD	<p>1) Separate TOUCH-PAD.</p>	
4	LCD	<p>1) Separate LCD from YP-T10 PCB.</p> <div data-bbox="435 1429 914 1529" style="border: 1px solid black; padding: 5px;"> <p>⚠ Be careful not to make any scratches as you remove it.</p> </div>	
5	BATTERY	<p>1) Separate Battery from YP-T10 PCB using pinset.</p>	

No.	Part Name	Description	Description Photo
6	MAIN BOARD	<p>1) Unscrew 1EA from MAIN BOARD. : PH,+,B,M1.4,L3,NI PLT</p> <p>2) Separate MAIN BOARD from CABINET-BOTTOM.</p>	

### 3-2 Reassembly Method

No.	Part Name	Description	Description Photo
1	CABINET-FRONT	<p>1) Check KNOB HOLD of ASSY-CABINET FRONT and HOLD SWITCH are same position. – ○</p> <p>2) Check HOLD SWITCH is center. – ○</p> <p>3) The bottom of FRONT and “SAMSUNG” logo are in contact each other.</p> <p>4) Slide in such as picture without GAP.</p> <div data-bbox="435 1025 911 1211" style="border: 1px solid gray; padding: 5px; margin: 10px 0;"> <p>⚠ If you assemble right position, ignore HOLD SWITCH position. Be cautious only KNOB SWITCH position.</p> </div> <p>5) Slide in ASSY FRONT to ASSY back and push touch pad at once without GAP.</p>	     <p>&lt;Don't push LCD because of break&gt;</p>  <p>&lt;KNOB-HOLD position reaffirmation, SW secession prevention&gt;</p>

No.	Part Name	Description	Description Photo
1	CABINET-FRONT	<p>6) Slide KNOB-HOLDER to down not for separation.</p> <p>7) Slide ASSY-FRONT to ASSY-BACK tightly.</p> <p>8) Check KNOB HOLDE.</p> <p>9) Check GAP. (Side, Top)</p> <ul style="list-style-type: none"><li>- If you see a gap, don't push. because inner hook will be broken.</li><li>- But If you see a top gap, push slightly.</li></ul>	

# MEMO

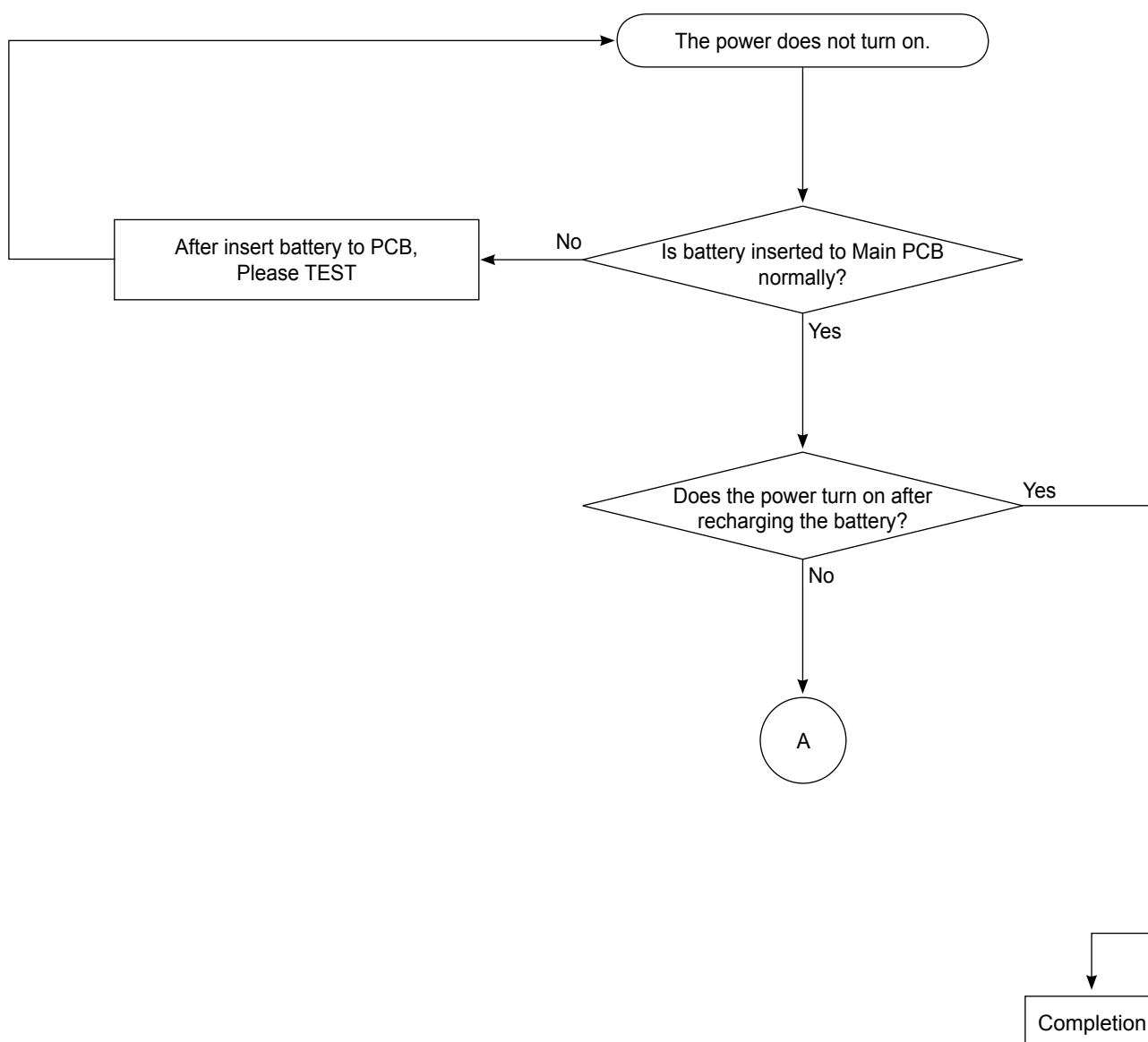
## 4. Troubleshooting

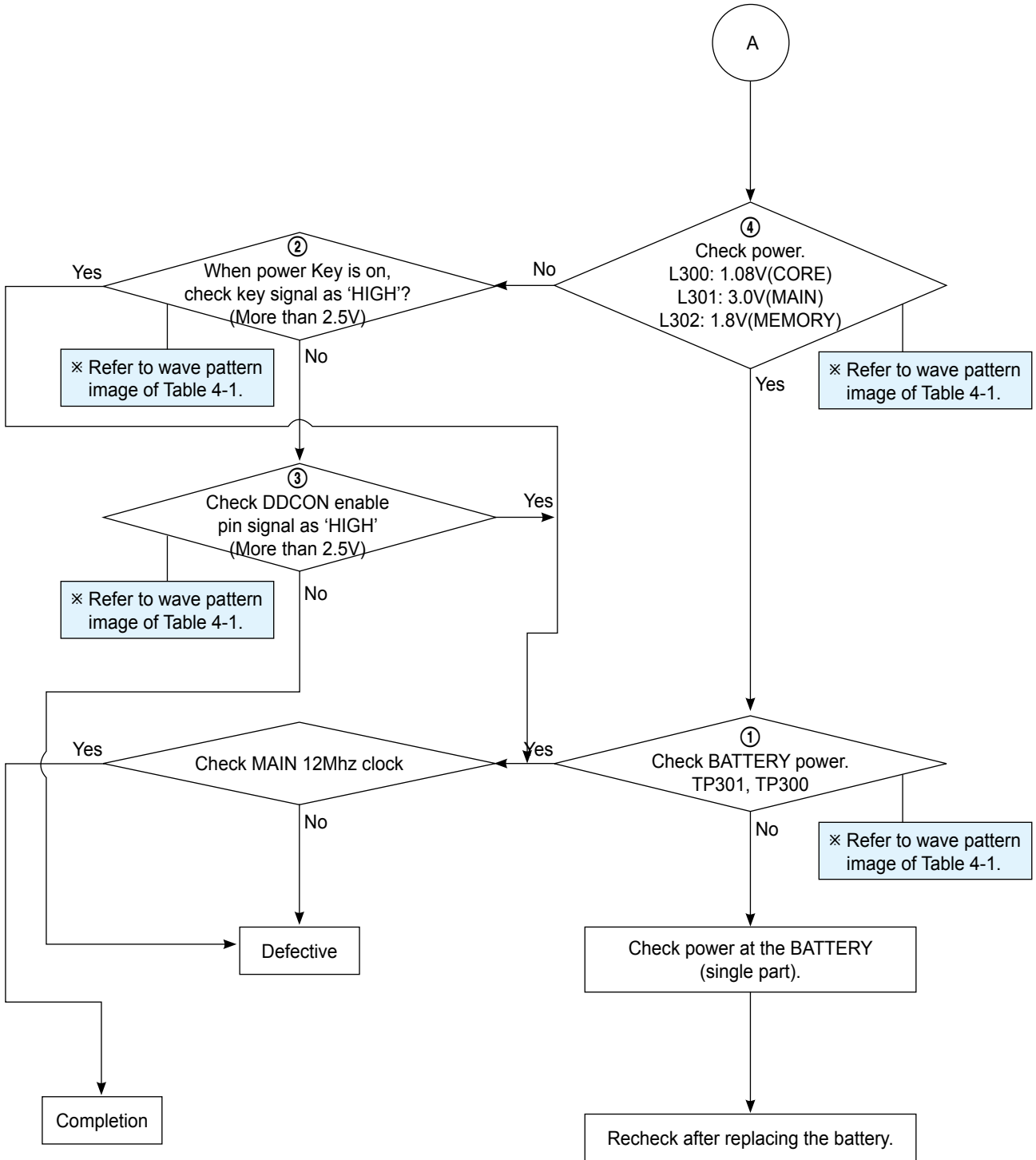
### 4-1 Checkpoints by Error Mode

Oscilloscope Setting Values	
Voltage/DIV	1V/div
TIME/DIV	10ms/div

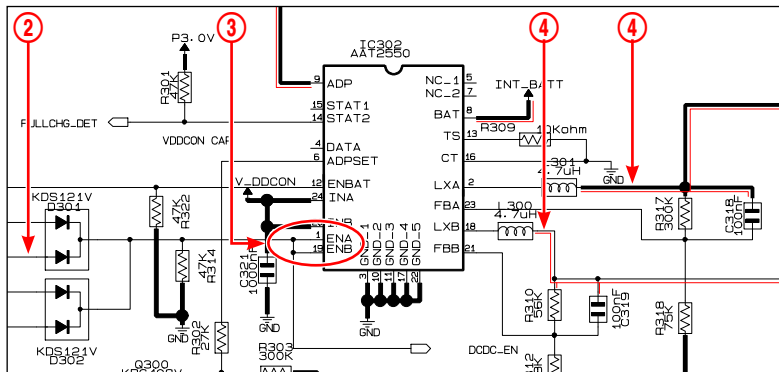
#### 4-1-1 No Power

<b>Symptom</b>	Power does not turn on.
<b>Major Checklist</b>	① Check the power terminal connection (battery, adapter). ② Check if the key signal is 'HIGH' when the POWER key is pressed. (More than 2.5V) ③ Check if the ENABLE pin signal of the DDCON IC is 'HIGH'. (More than 2.5V) ④ Check power. (L300: 1.08V(CORE), L301: 3.0V(MAIN), L302: 1.8V(MEMORY))
<b>Caution</b>	Be careful not to short anything out when checking the power line.

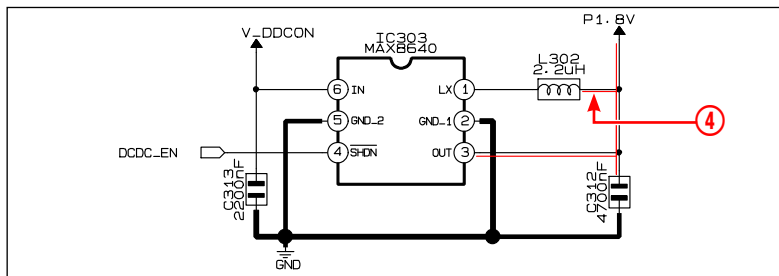
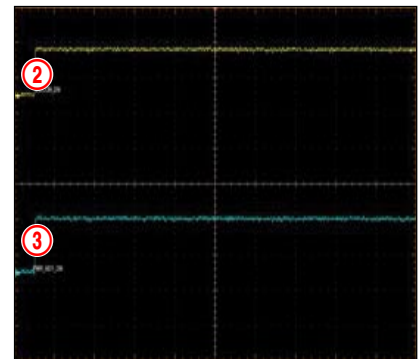




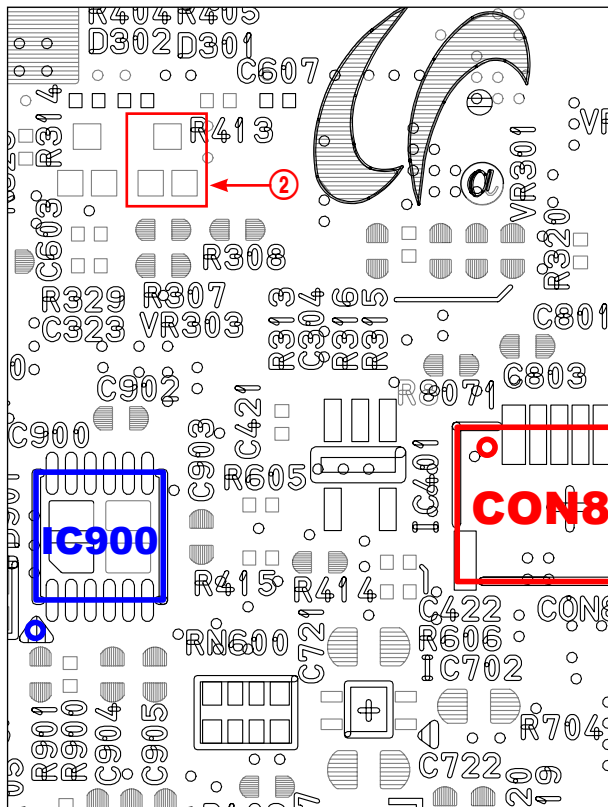
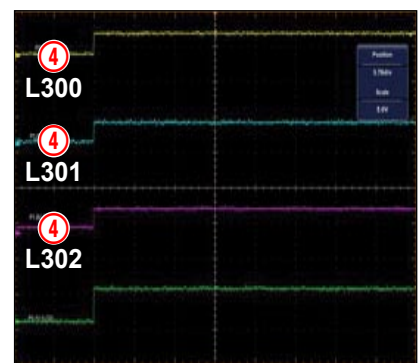
<b>Test Point</b>	IC302(1PIN, 19PIN), D301 2PIN, L300, L301, L302
<b>Result</b>	Check for HIGH input - POWER ON



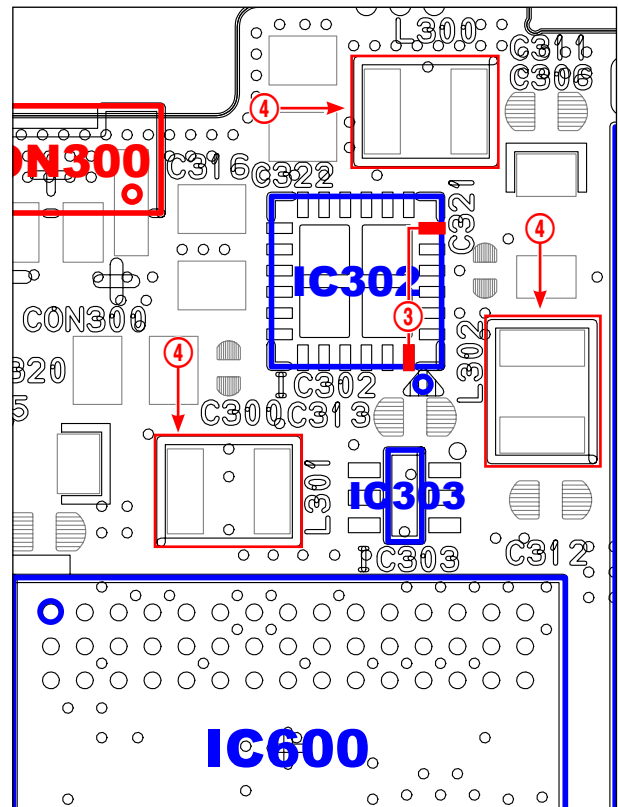
× POWER Page, 7-3



× POWER Page, 7-3



× PCB Top Page, 6-1



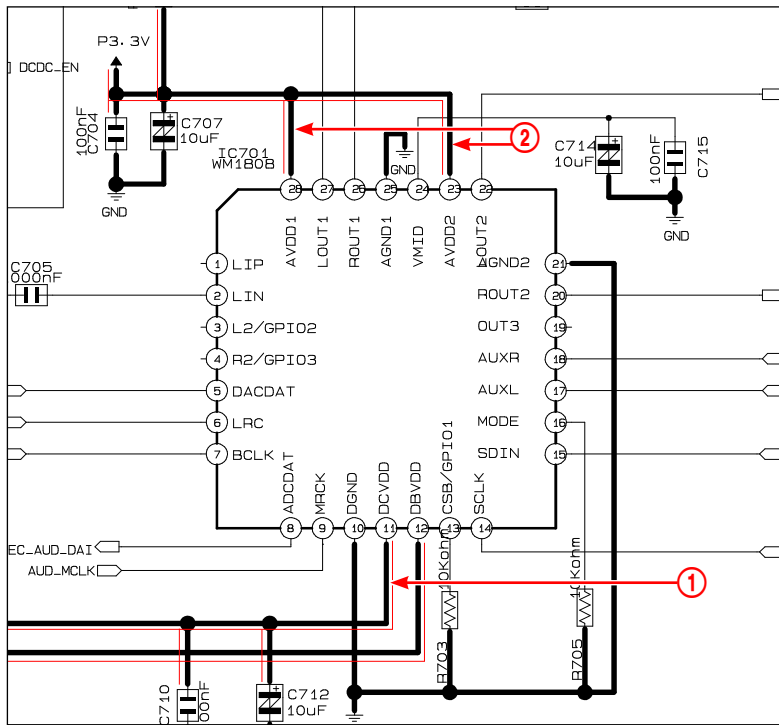
× PCB Bottom Page, 6-3

<Table 4-1>

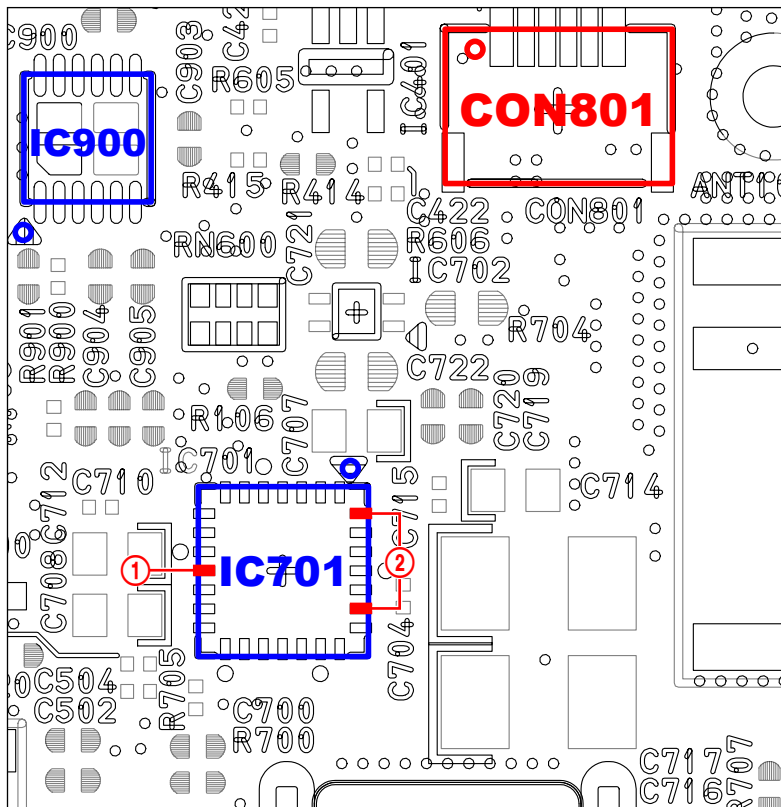
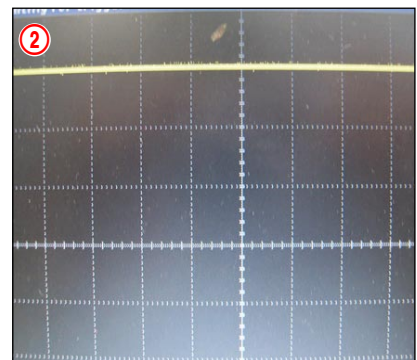
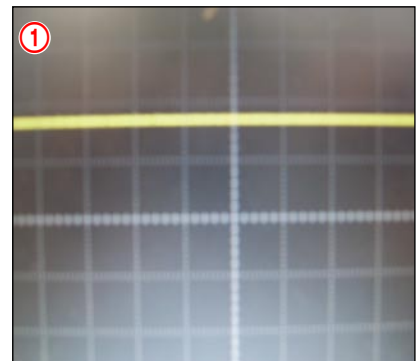




<b>Test Point</b>	AUDIO CODEC Power Check
<b>Result</b>	Check if 1.8V is output. / Check if 3.0V is output.



× AUDIO Page, 7-7

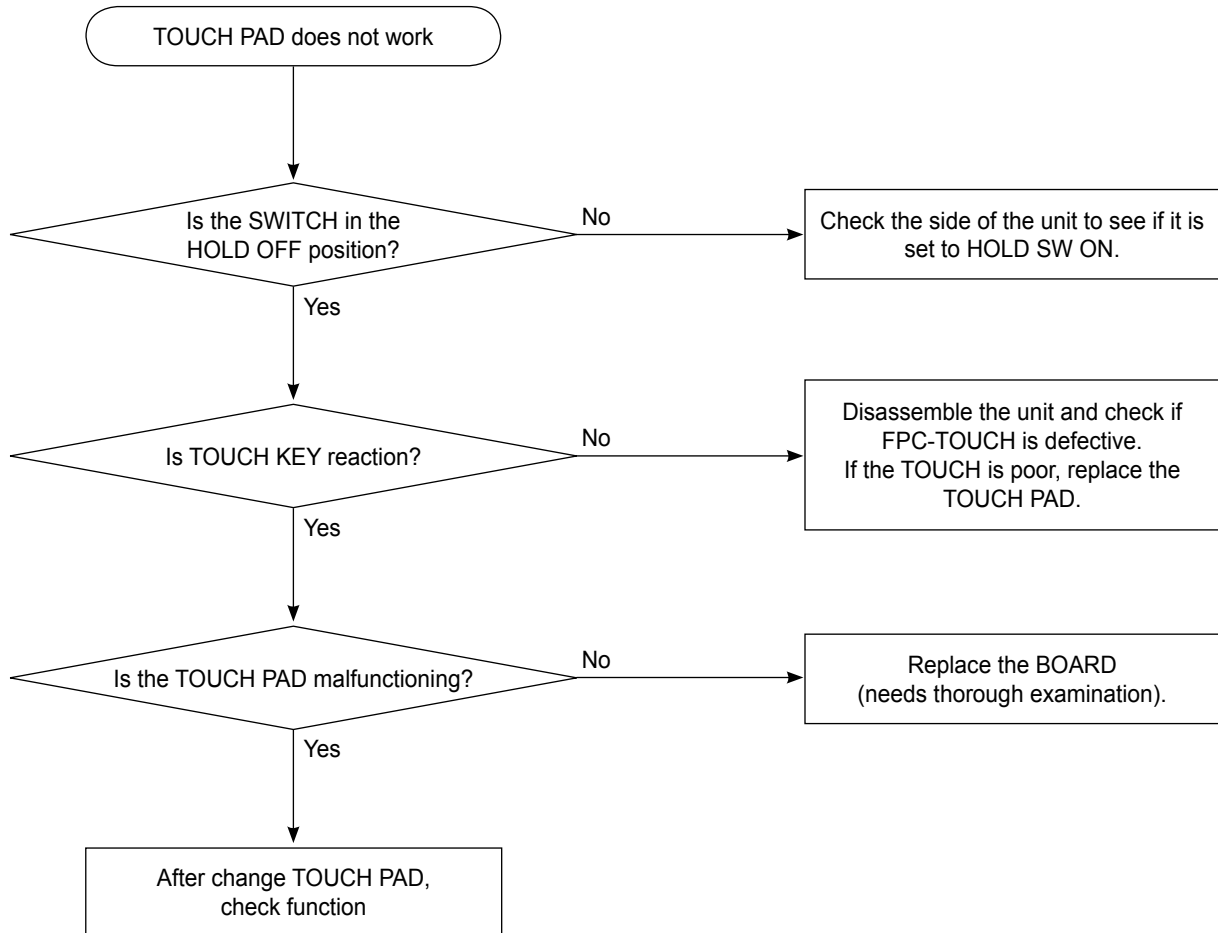


× PCB Top Page, 6-1

<Table 4-2>

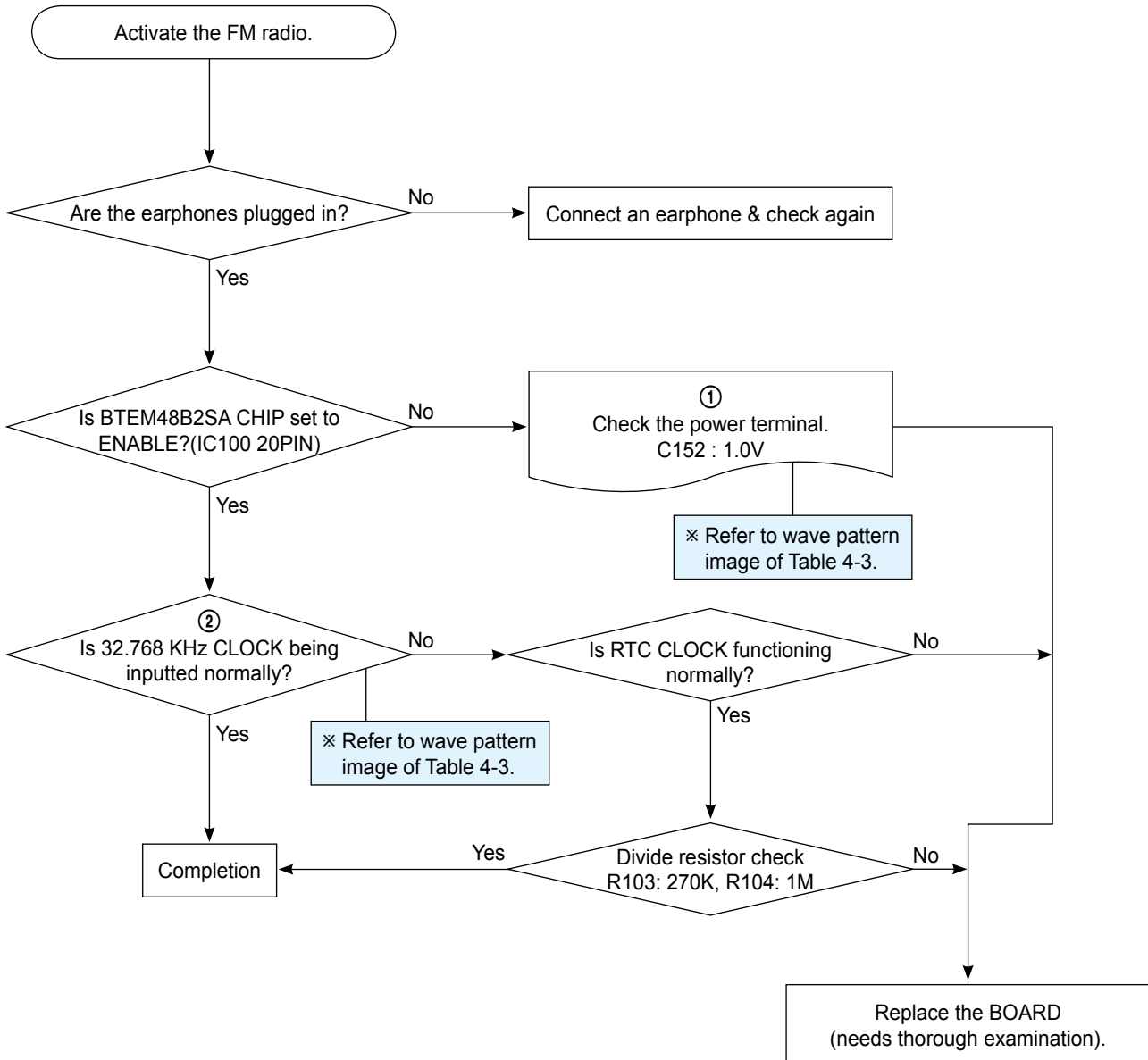
### 4-1-3 TOUCH PAD Does Not Work

<b>Symptom</b>	Key press input malfunction or failure
<b>Major Checklist</b>	Check if FPC-TOUCH is defective.



### 4-1-4 FM Tuner does not work.

<b>Symptom</b>	No FM radio reception
<b>Major Checklist</b>	① Check C152 FM_VDD on 1.0V ② Check FM_Clock of 32.768KHz from RTC clock output

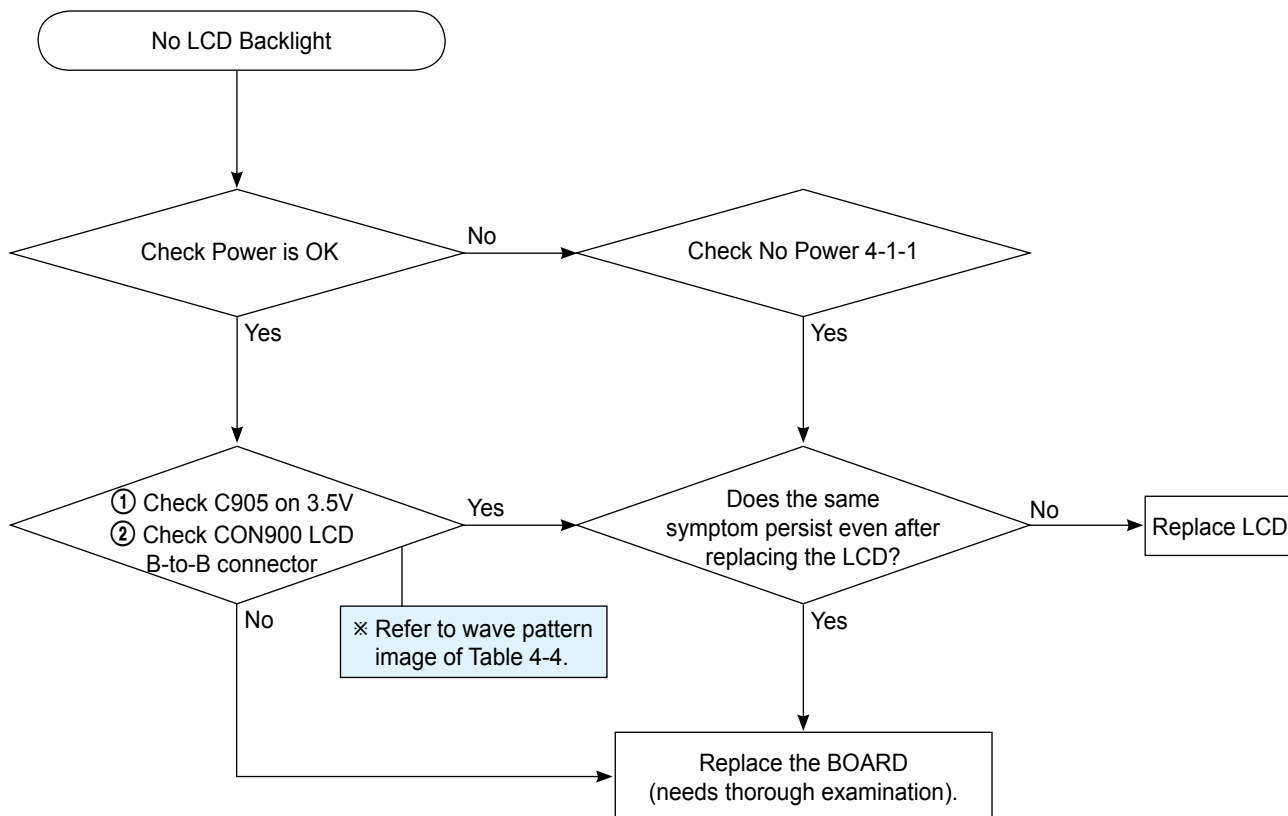


Test Point	C152, R513
Result	C152 → 1.0V, R513 → 32.768KHz
<p>※ Bluetooth Block Page, 7-10</p>	
<p>※ CPU Page, 7-5</p>	
<p>※ PCB Bottom Page, 6-3</p>	<p>※ PCB Top Page, 6-1</p>

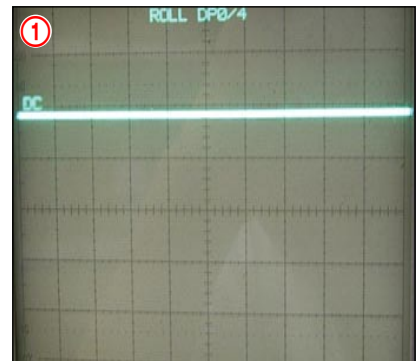
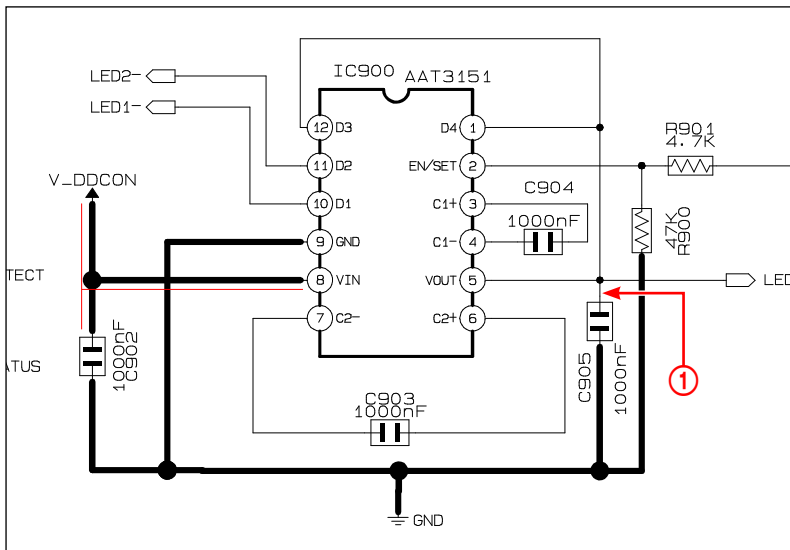
<Table 4-3>

### 4-1-5 No LCD Backlight

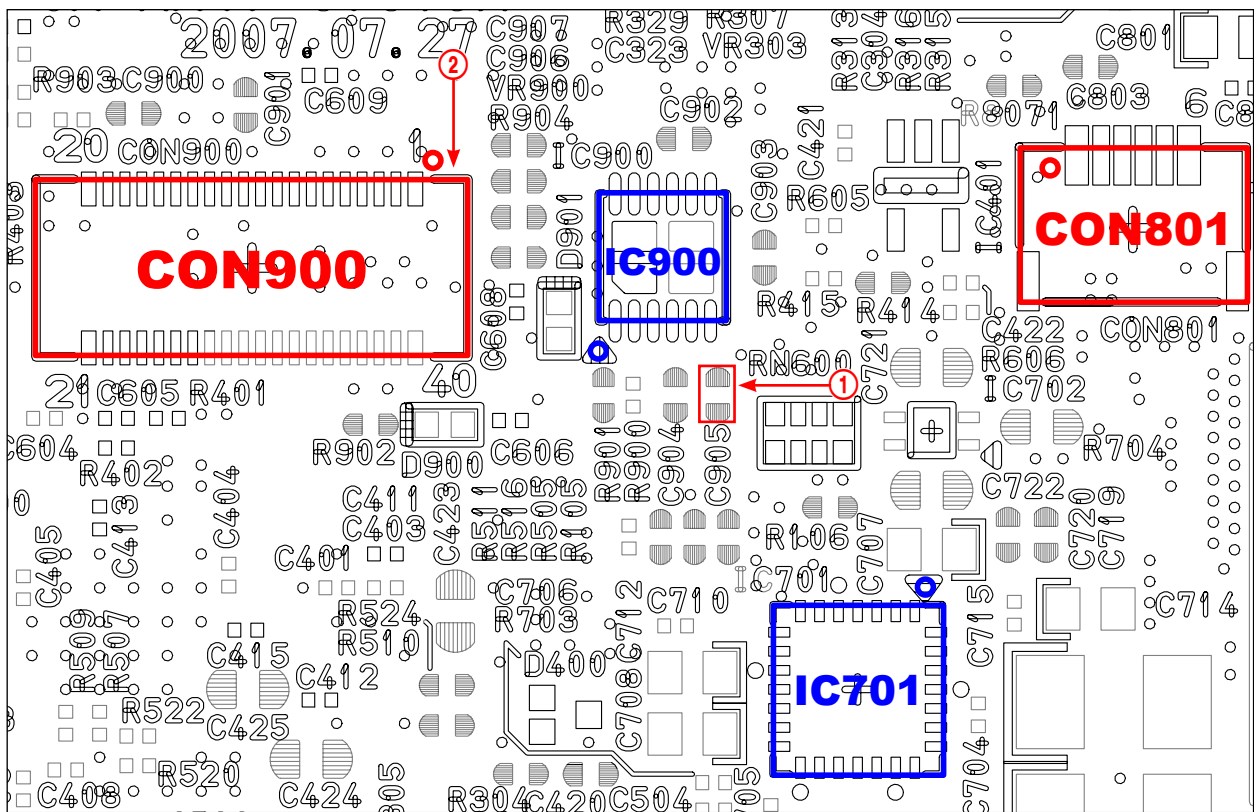
<b>Symptom</b>	LCD Backlight does not turn on
<b>Major Checklist</b>	① Check C905 on 3.5V ② Check CON900 LCD B-to-B connector



<b>Test Point</b>	C905 → 3.5V
<b>Result</b>	Check each output terminal.



× LCD Block Page, 7-9

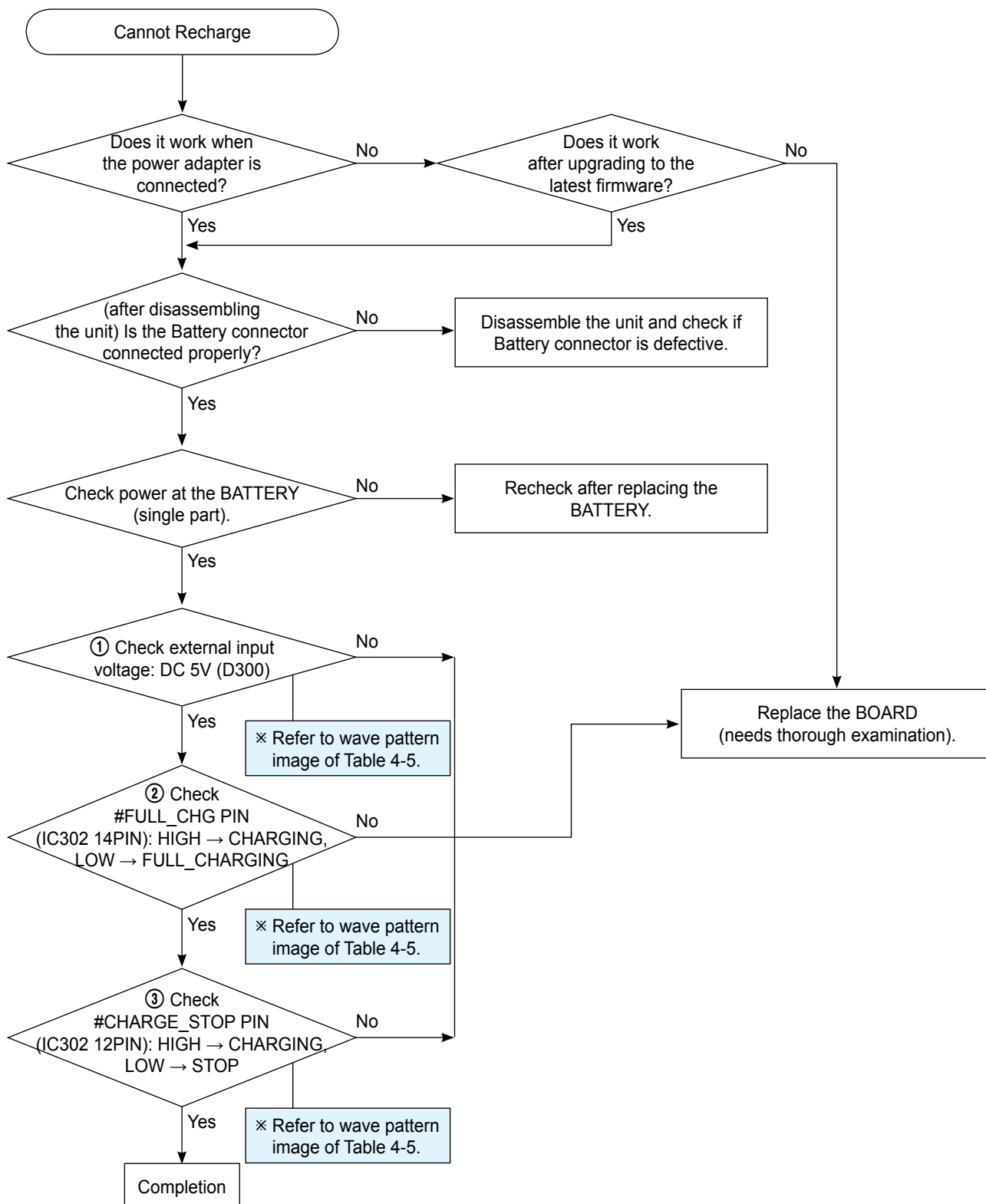


× PCB Top Page, 6-1

<Table 4-4>

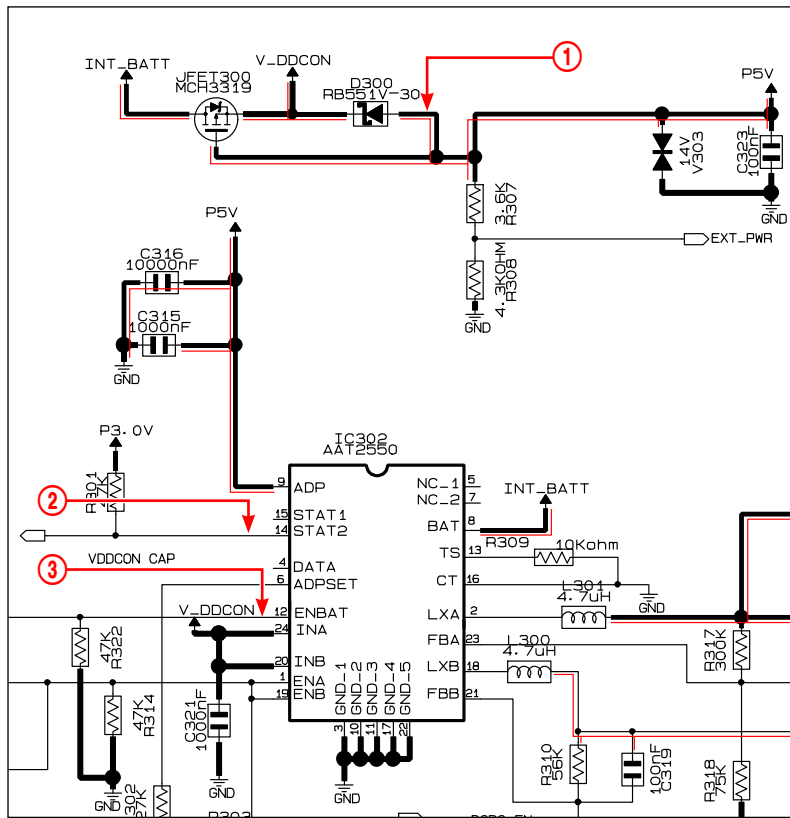
### 4-1-6 Cannot Recharge

<b>Symptom</b>	Cannot recharge the BATTERY
<b>Major Checklist</b>	① Check external input voltage: DC 5V (D300) ② Check #FULL_CHG PIN (IC302 14PIN) : HIGH → CHARGING, LOW → FULL_CHARGING ③ Check #CHARGE_STOP PIN (IC302 12PIN): HIGH → CHARGING, LOW → STOP

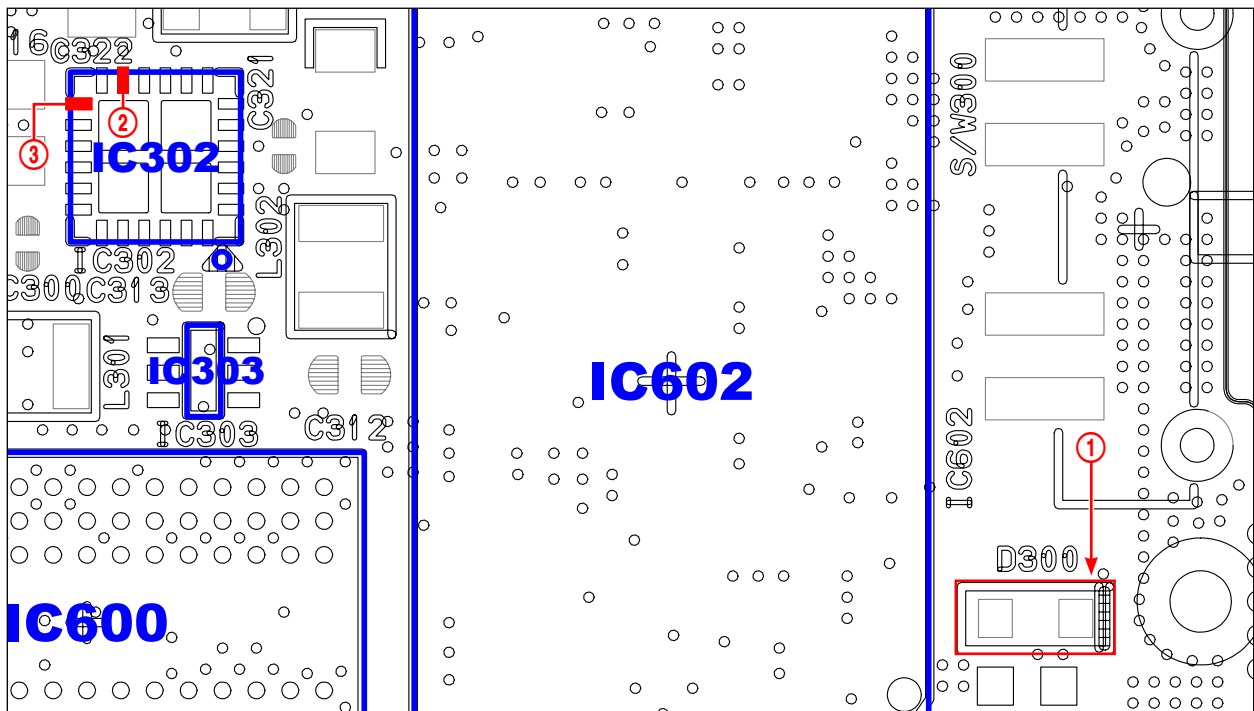




<b>Test Point</b>	D300, IC302 14PIN & 12PIN
<b>Result</b>	D300 → 5V, IC302 14PIN & 12PIN → HIGH



※ POWER Page, 7-3

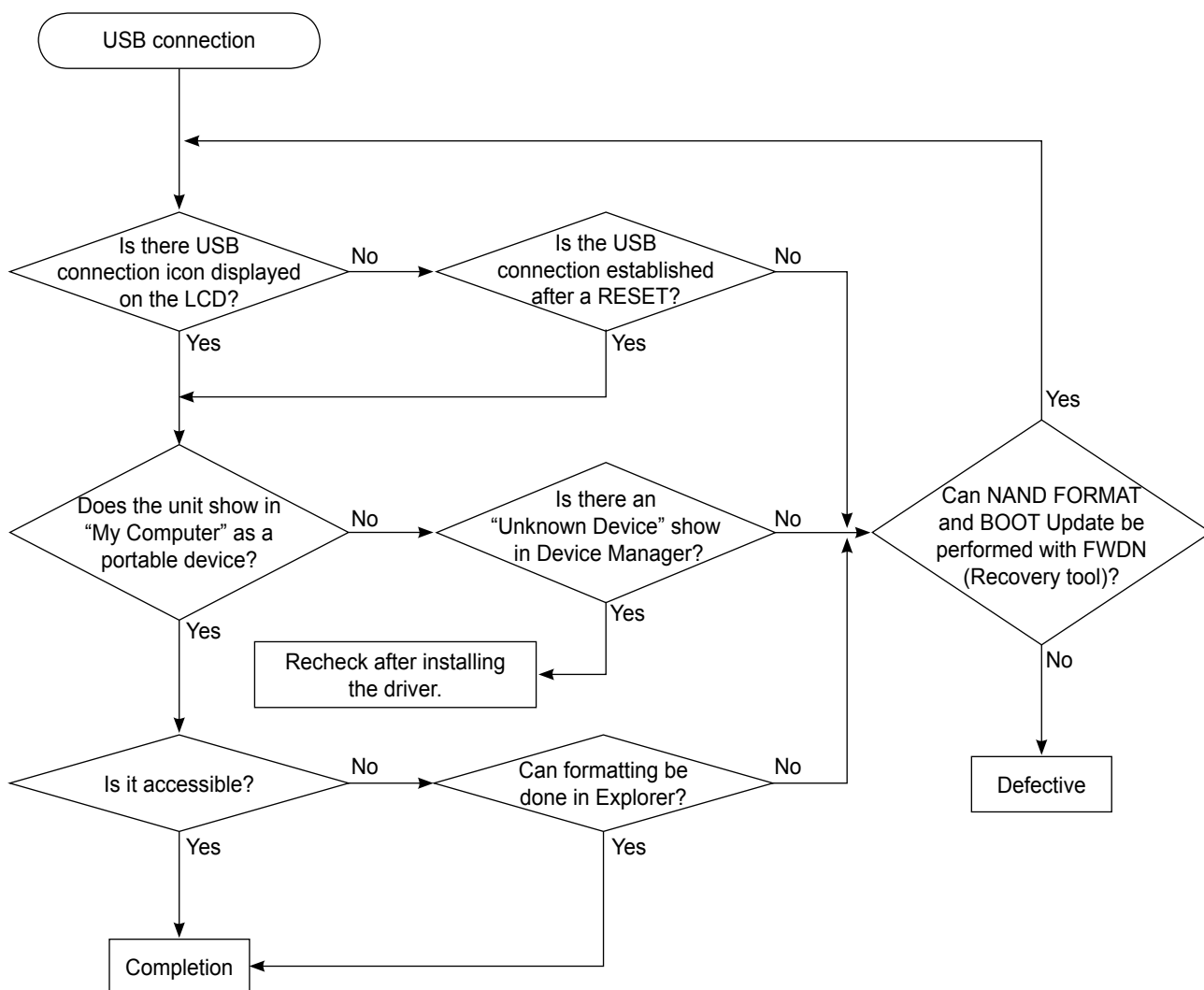


※ PCB Bottom Page, 6-3

<Table 4-5>

### 4-1-7 Poor PC Connection

<b>Symptom</b>	USB cable is connected to the PC, but no connection is established
----------------	--

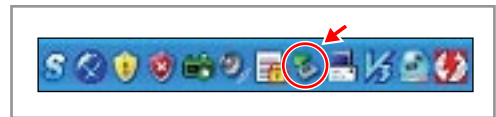


## 4-2 Upgrade Methods

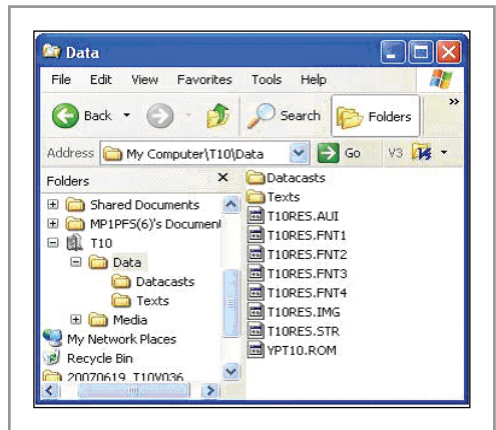
- If the product does not power on and shows any of the following symptoms, you may try the upgrade methods in this chapter without having to disassemble the product:
  - The product does not turn on when the power switch is pressed.
  - The product powers on normally but no USB connection can be made.
  - The product's icons appear garbled or malfunction.
  - Files are corrupted, or the product shows as a "removable storage" in Windows but cannot be accessed.

### 4-2-1 Firmware Upgrade Method

1. Download the firmware upgrade file to a folder and decompress it.
2. Check the contents of the folder that was decompressed.
3. Connect the YP-T10 to the PC.
4. Open the Removable Disk folder of the YP-T10.



5. Select the installation file in the folder that was decompressed, and then copy the upgrade files to the Removable Disk folder of the YP-T10.
6. Perform "Safely Remove Hardware", and then disconnect the device from the PC.



7. When power on YP-T10, power off after "Image Upgrading...", "AUI Upgrading..."
  8. Power on again. After "Font Upgrading...", "Image Upgrading...", "AUI Upgrading..." set will be power off.
  9. After the upgrade, go to "Menu" → "Settings" → "System" → "Firmware" and check the version.
- ※ If the battery power is low, the upgrade will not start. In this case, you need to connect a USB or charging cord for the upgrade to start.



## 4-2-2 How to recovery system

■ **When do you perform this procedure?:** When NAND data is corrupted

■ In case of non-operation key.

- Turn off the set and Restart.
- If it doesn't turn down, Press the reset button by using pointed stuff.  
(The reset button is located at the back near the bottom.)
- Check the device if it operates properly.

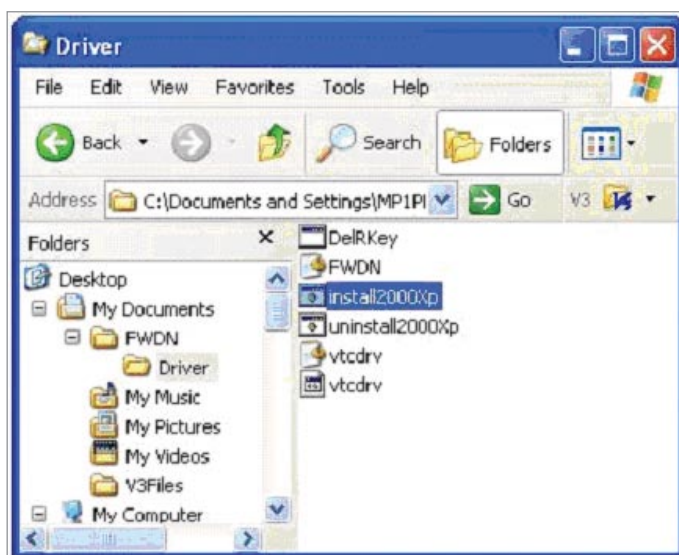
■ In case of device malfunction or serious problem.

- FW Download Method through a Program(FWDN)

⚠ Through this hard-recovery process, all data in the device will be totally deleted. You should be cautious.

1. If you use FWDN program for the first time, you should install VTC driver on your computer.

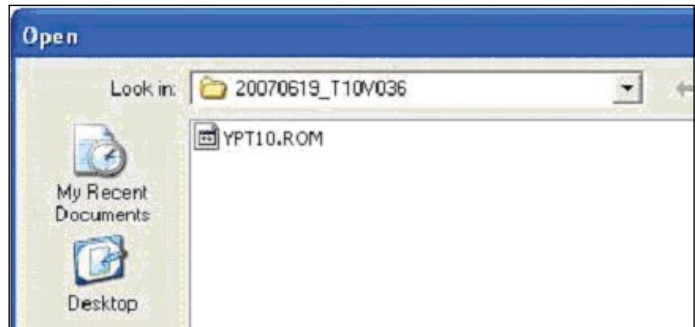
- 1) Before executing FWDN, execute intall2000XP. (FWDN\Driver\install2000XP)
- 2) Connect YP-T10 to PC by using USB cable.



- 3) Execute FWDN and open ROM file.
- 4) Press the POWER button and the RESET button.

⚠ You should press the RESET button certainly with holding POWER button. At the same time it must have been connecting to PC by USB cable.





- 5) New hardware finding wizard appears. Tick "Software Setting Automatically" and click NEXT.



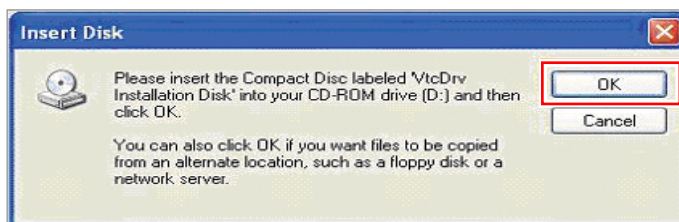
- 6) Wait for finding.



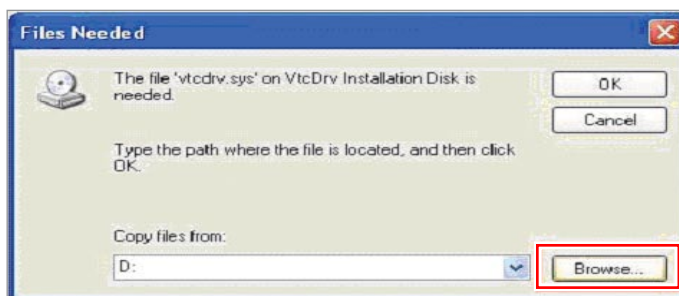
7) Press "Continue Anyway" button.



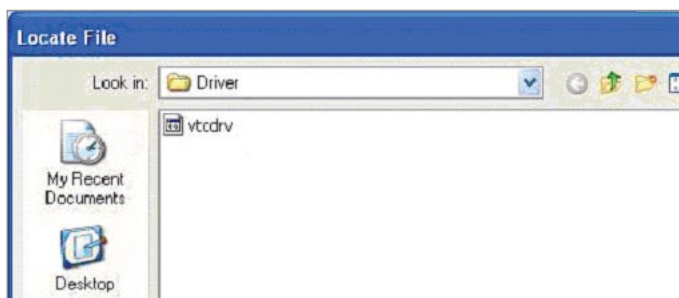
8) Press "OK" button.



9) Press "Browse..." button.

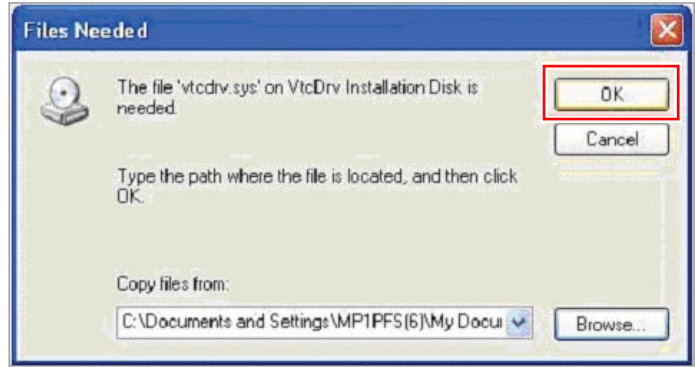


10) Select FWDN\Driver\vtcdrv.sys then OK and Finish.

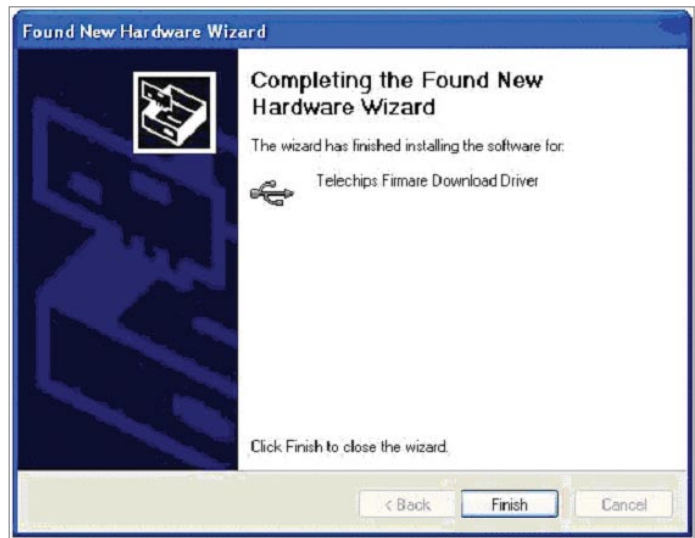




11) Press "OK" button.



12) Driver establishment completion



## 2. Firmware downloading through FWDN

1) Set Preference.

( MENU Options > Preference )

① Set INI file location.

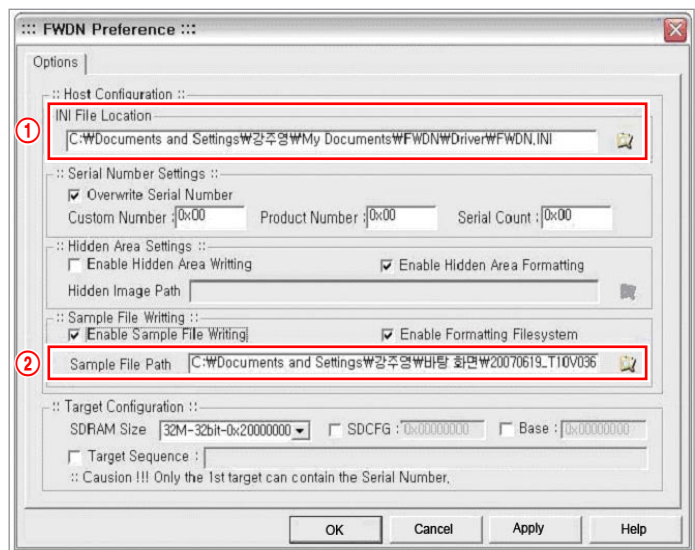
(FWDN\Driver\FWDN.INI)

② Set Sample file Path. (\*.FNT, \*.AUI, \*.IMG)

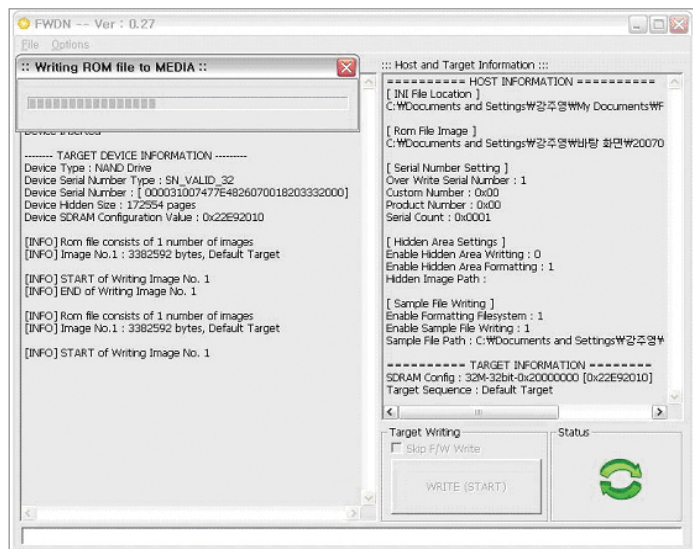
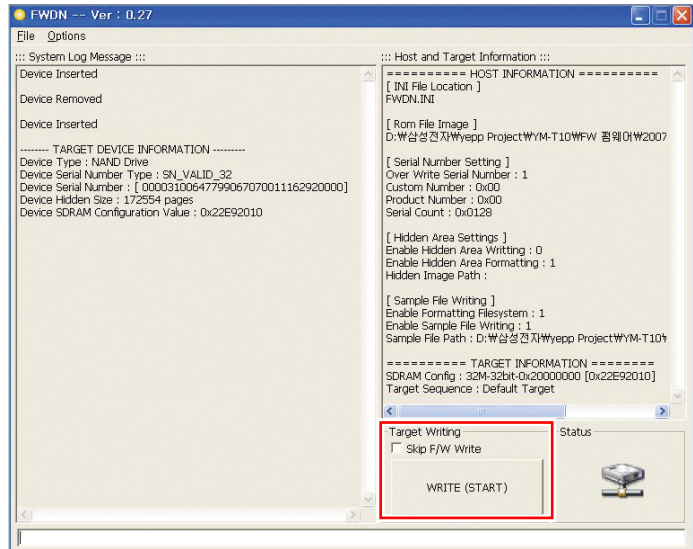
Generally, they are in the same location with ROM file.

The others are as like above picture.

Then click "Apply" and "OK" the button.

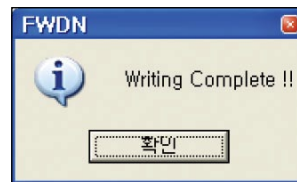
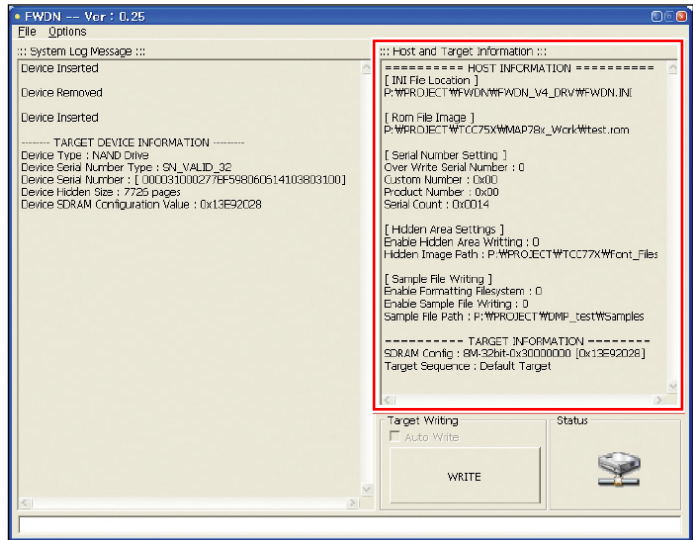


- 2) You can see WRITE(START) the button is activated. Click it.  
Then Firmware's going to download.





- 3) After Firmware downloading completed, Disconnect the USB cable from the device.



### 3. Finishing

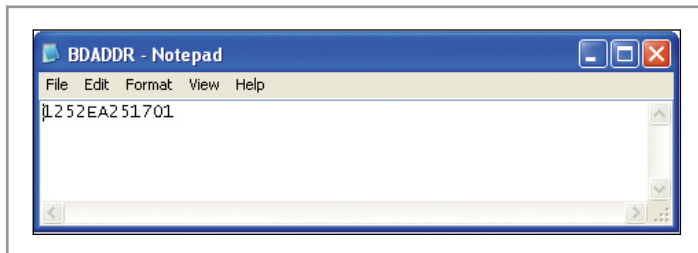
- 1) Turn on the device. You can see the message "Upgrading Firmware..." then the device turns down.
- 2) Turn on the device again. You can see the messages like "Image Upgrading...", "AUI Upgrading...", "Font Upgrading..." for a while. After that, the device will operate normally.

### 4-2-3 How to Set MAC Address

- **Environment for setting MAC address:** Windows XP
- **When do you perform this procedure?:** When NAND data is corrupted and after the FWDN Update

- **How to download a MAC address**

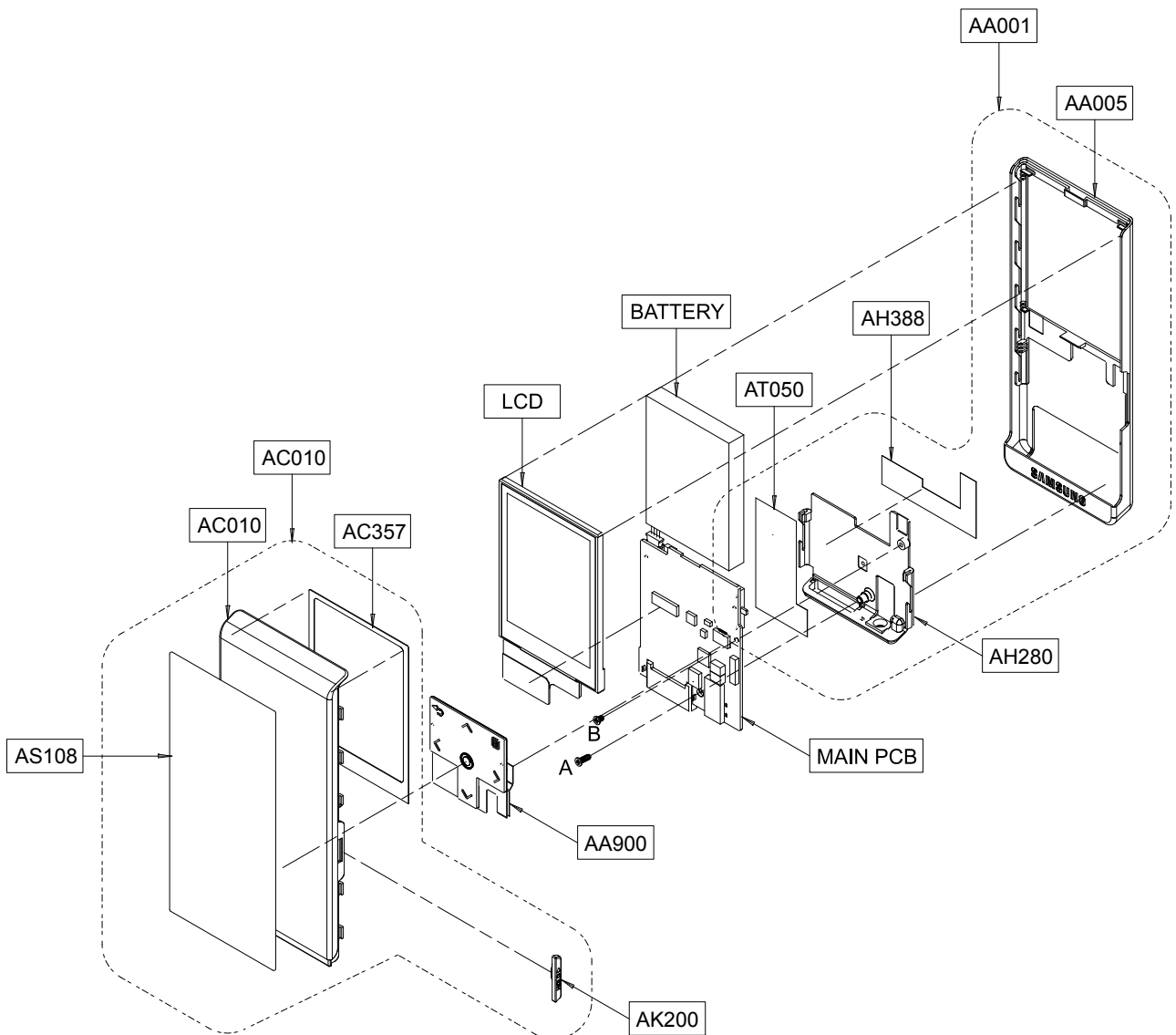
1. Disassemble the YP-T10 case and check the MAC Address sticker inside.
2. Enter the following MAC Address in a blank text file and save it with the name shown below.



3. Establish the USB connection and copy and paste the file to the Root Folder.
4. Disconnect the USB connection and Power On the YP-T10.
5. Go to "Menu" → "Bluetooth" → "Bluetooth Settings" → "My Device Info" and check the MAC Address.

## 5. Exploded View & Part List

### 5-1 Exploded View



## ■ Part List

Loc. No.	Part No.	Description;Specification	Q'ty	SNA	Remark
AA001	AH97-02334B	ASSY-CABINET BACK;YP-T10,TITAN	1	SA	
AA005	AH97-02268B	ASSY-BACK;NMT,TITAN SAMSUNG	1	SNA	
AA900	AH97-02352A	ASSY;TOUCHPAD,YP-T10,K3, K5 ##### ##	1	SA	
AC010	AH64-04362B	CABINET-FRONT;YP-T10,-,PMMA+PCABS,-,PURP	1	SNA	
AC010	AH97-02335B	ASSY-CABINET FRONT;YP-T10,BLACK	1	SA	
AC357	AH69-02042A	CUSHION-LCD;YP-T10,RUB-OTH,Poron sheet,0	1	SNA	
AH280	AH61-02428B	HOLDER-JACK;YP-T10,PC,T6,W38,L40,-,-	1	SNA	
AH388	AH61-02456A	HOLDER-TAPE;YP-T10,9075,T0.08,-,-,CLEAR,	1	SNA	
AK200	AH64-04364B	KNOB-HOLD;YP-T10,PC,T4,W3,L15,-,-,-,-	1	SNA	
AS108	AH63-01502A	SHEET-PROTECTION;YP-T10,PET CLEAR,T0.13,	1	SNA	
AT050	AH74-01009A	TAPE GASK;YP-T10,polyestarc,-,gold,-,-,DK	1	SNA	
LCD	AH07-00214A	LCD;TS-200L-001A,YP-T10,-,30.6X40.	1	SA	
BATTERY	AH43-00011A	BATTERY;363744,YP-T10,polymer,550mAh,-	1	SA	
MAIN PCB	AH92-02739A	ASSY PCB;YP-T10,MLC 2GB	1	SA	QB
	AH92-02739B	ASSY PCB;YP-T10,MLC 4GB	1	SA	AB
A	6003-001320	SCREW-TAPTITE;CH,+B,M1.4,L5,NI PLT,SWRC	1	SA	
B	6003-001508	SCREW-TAPTITE;PH,+B,M1.4,L3,NI PLT,SWRC	1	SA	

## 5-2 Electrical Part List

Loc. No.	Part No.	Description;Specification	Q'ty	SNA	Remark	Loc. No.	Part No.	Description;Specification	Q'ty	SNA	Remark
		<b>AH97-02404A ASSY-KITTING BACK;YP-T10,BLACK</b>	1	SNA	QB	C508	2203-005138	C-CER,CHIP;1.8nF,10%,50V,X7R,1005	1	SA	
		<b>AH97-02404C ASSY-BACK KITTING;YP-T10AB (4G),SAM</b>	1	SNA	AB	C510	2203-002709	C-CER,CHIP;100nF,+80-20%,16V,Y5V,10	1	SA	
ANT100	4202-001305	ANTENNA-CHIP;2400-2485MHz,85MHz,1.6	1	SA		C511	2203-002709	C-CER,CHIP;100nF,+80-20%,16V,Y5V,10	1	SA	
C150	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,1005	1	SA		C601	2203-002709	C-CER,CHIP;100nF,+80-20%,16V,Y5V,10	1	SA	
C151	2203-006838	C-CER,CHIP;2200nF,10%,6.3V,X5R,1005	1	SA		C602	2203-006093	C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V,	1	SA	
C152	2203-006838	C-CER,CHIP;2200nF,10%,6.3V,X5R,1005	1	SA		C603	2203-006093	C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V,	1	SA	
C153	2203-002709	C-CER,CHIP;100nF,+80-20%,16V,Y5V,10	1	SA		C604	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA	
C154	2203-006474	C-CER,CHIP;22000nF,20%,6.3V,X5R,201	1	SA		C605	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA	
C155	2203-002709	C-CER,CHIP;100nF,+80-20%,16V,Y5V,10	1	SA		C606	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA	
C161	2203-006093	C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V,	1	SA		C607	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA	
C300	2203-005900	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1	1	SA		C608	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA	
C304	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C609	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA	
C305	2404-001347	C-TA,CHIP;22uF,##20%,10V,-,TP,3.2x1	1	SA		C610	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA	
C306	2404-001348	C-TA,CHIP;100uF,20%,6.3V,-,TP,3.2X1	1	SA		C700	2203-002709	C-CER,CHIP;100nF,+80-20%,16V,Y5V,10	1	SA	
C308	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C701	2203-005900	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1	1	SA	
C309	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C702	2203-002709	C-CER,CHIP;100nF,+80-20%,16V,Y5V,10	1	SA	
C310	2203-006890	C-CER,CHIP;10000nF,20%,6.3V,X5R,160	1	SA		C703	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,1005	1	SA	
C311	2203-006890	C-CER,CHIP;10000nF,20%,6.3V,X5R,160	1	SA		C704	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA	
C312	2203-006683	C-CER,CHIP;4700nF,+80-20%,6.3V,Y5V,	1	SA		C705	2203-005900	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1	1	SA	
C313	2203-006324	C-CER,CHIP;2200nF,10%,10V,X5R,1608	1	SA		C706	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA	
C315	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C707	2404-001225	C-TA,CHIP;10uF,20%,6.3V,GP,TP,1608	1	SA	
C316	2203-006361	C-CER,CHIP;10000nF,10%,10V,X5R,2012	1	SA		C708	2404-001225	C-TA,CHIP;10uF,20%,6.3V,GP,TP,1608	1	SA	
C317	2203-006093	C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V,	1	SA		C709	2203-002709	C-CER,CHIP;100nF,+80-20%,16V,Y5V,10	1	SA	
C318	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C710	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA	
C319	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C711	2203-002709	C-CER,CHIP;100nF,+80-20%,16V,Y5V,10	1	SA	
C320	2203-006474	C-CER,CHIP;22000nF,20%,6.3V,X5R,201	1	SA		C712	2404-001225	C-TA,CHIP;10uF,20%,6.3V,GP,TP,1608	1	SA	
C321	2203-005900	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1	1	SA		C714	2404-001225	C-TA,CHIP;10uF,20%,6.3V,GP,TP,1608	1	SA	
C322	2203-006474	C-CER,CHIP;22000nF,20%,6.3V,X5R,201	1	SA		C715	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA	
C323	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C716	2404-001407	C-TA,CHIP;330uF,20%,2.5V,-,REEL,352	1	SA	
C401	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C717	2404-001407	C-TA,CHIP;330uF,20%,2.5V,-,REEL,352	1	SA	
C403	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C719	2203-006093	C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V,	1	SA	
C404	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C720	2203-006093	C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V,	1	SA	
C405	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C723	2203-000254	C-CER,CHIP;10nF,10%,16V,X7R,1005	1	SA	
C406	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C800	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA	
C407	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C801	2404-001225	C-TA,CHIP;10uF,20%,6.3V,GP,TP,1608	1	SA	
C408	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C802	2203-006474	C-CER,CHIP;22000nF,20%,6.3V,X5R,201	1	SA	
C409	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C803	2203-002709	C-CER,CHIP;100nF,+80-20%,16V,Y5V,10	1	SA	
C410	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C900	2203-006838	C-CER,CHIP;2200nF,10%,6.3V,X5R,1005	1	SA	
C411	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C901	2203-006838	C-CER,CHIP;2200nF,10%,6.3V,X5R,1005	1	SA	
C412	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C902	2203-005900	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1	1	SA	
C413	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C903	2203-005900	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1	1	SA	
C415	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C904	2203-005900	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1	1	SA	
C418	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C905	2203-005900	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1	1	SA	
C420	2203-005900	C-CER,CHIP;1000nF,+80-20%,10V,Y5V,1	1	SA		C906	2203-002709	C-CER,CHIP;100nF,+80-20%,16V,Y5V,10	1	SA	
C421	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		C907	2203-002709	C-CER,CHIP;100nF,+80-20%,16V,Y5V,10	1	SA	
C422	2203-006392	C-CER,CHIP;100nF,+20%,6.3V,X5R,-,0	1	SA		CON300	3710-001436	SOCKET-BOARD TO BOARD;2P,1R,1.27mm,	1	SA	
C423	2203-006890	C-CER,CHIP;10000nF,20%,6.3V,X5R,160	1	SA		CON800	3710-002410	CONNECTOR-SOCKET;24P,1R,0.5mm,SMD-A	1	SA	
C424	2203-006890	C-CER,CHIP;10000nF,20%,6.3V,X5R,160	1	SA		CON801	3708-002015	CONNECTOR-FPC/FFC/PIC;6P,0.5mm,SMD-	1	SA	
C425	2203-006890	C-CER,CHIP;10000nF,20%,6.3V,X5R,160	1	SA		CON900	3711-006028	HEADER-BOARD TO BOARD;BOX,40P,2R,0.	1	SA	
C500	2203-000386	C-CER,CHIP;0.015nF,5%,50V,COG,1005	1	SA		D300	0404-001089	DIODE-SCHOTTKY;RB551V-30,20V,500MA,	1	SA	
C501	2203-000330	C-CER,CHIP;0.012nF,5%,50V,COG,1005	1	SA		D301	0401-000164	DIODE-SWITCHING;KDS121V,80V,100MA,V	1	SA	
C502	2203-000386	C-CER,CHIP;0.015nF,5%,50V,COG,1005	1	SA		D302	0401-000164	DIODE-SWITCHING;KDS121V,80V,100MA,V	1	SA	
C504	2203-000330	C-CER,CHIP;0.012nF,5%,50V,COG,1005	1	SA		D400	0401-000164	DIODE-SWITCHING;KDS121V,80V,100MA,V	1	SA	
C505	2203-006093	C-CER,CHIP;1000nF,+80-20%,6.3V,Y5V,	1	SA		D900	0406-001254	DIODE-TVS;UCLAMP0501P,6I/-V,200W,S	1	SA	
C506	2203-002709	C-CER,CHIP;100nF,+80-20%,16V,Y5V,10	1	SA		D901	0406-001254	DIODE-TVS;UCLAMP0501P,6I/-V,200W,S	1	SA	
C507	2203-005138	C-CER,CHIP;1.8nF,10%,50V,X7R,1005	1	SA		FET700	0505-002229	FET-SILICON;FDMA1028NZ,N,20V,3.7A,0	1	SA	

Loc. No.	Part No.	Description;Specification	Q'ty	SNA	Remark	Loc. No.	Part No.	Description;Specification	Q'ty	SNA	Remark
IC100	4709-001525	BLUETOOTH MODULE;3.3/1.5V dual supp	1	SA		R403	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA	
IC101	1001-001336	IC-ANALOG SWITCH;-,-,QFN,10P,-,-,4.	1	SA		R404	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA	
IC302	1203-004684	IC-DC/DC CONVERTER;AAT2550,QFN,24P,	1	SA		R405	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA	
IC303	1203-004147	IC-DC/DC CONVERTER;MAX8640,SC-70,6P	1	SA		R407	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA	
IC400	0902-002194	IC-MICROPROCESSOR;TCC780,192MHz,FBG	1	SA		R408	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA	
IC401	0801-002800	IC-CMOS LOGIC;7SV08,AND GATE,SC-70,	1	SA		R409	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA	
IC500	1203-004737	IC-VOL. DETECTOR;S-80122CLPF,SNT,4P	1	SA		R410	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA	
IC600	1105-001820	IC-DRAM;EM488M3244LBA,SDR,256Mbit,4	1	SA		R411	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA	
IC602	1107-001663	IC-FLASH MEMORY;K9LAG08U0M,16Gbit,2	1	SA	QB	R412	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA	
IC602	1107-001664	IC-FLASH MEMORY;K9HGB08U1M,32Gbit,4	1	SA	AB	R413	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA	
IC701	1205-003214	IC-CODEC;WM1808GECO,QFN,28P,4x4mm,P	1	SA		R414	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	SA	
IC900	1203-003708	IC-DC/DC CONVERTER;AAT3151,DFN,12P,	1	SA		R415	2007-008483	R-CHIP;47Kohm,5%,1/20W,TP,0603	1	SA	
JACK700	3722-002596	JACK-EAR PHONE;3P,AU,BLACK,SMD-A	1	SA		R501	2007-000139	R-CHIP;220ohm,5%,1/16W,TP,1005	1	SA	
JFET300	0505-001930	FET-SILICON;MCH3319,P,-12V,-2.6A,MA	1	SA		R502	2007-007001	R-CHIP;3.9KOHM,5%,1/16W,TP,1005	1	SA	
L100	2703-002198	INDUCTOR-SMD;10nH,5%,1005	1	SA		R503	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	SA	
L101	2703-003296	INDUCTOR-SMD;47uH,10%,2012	1	SA		R505	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	1	SA	
L300	2703-003184	INDUCTOR-SMD;4.7uH,20%,2520	1	SA		R507	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA	
L301	2703-003184	INDUCTOR-SMD;4.7uH,20%,2520	1	SA		R508	2007-007316	R-CHIP;3.3KOHM,1%,1/16W,TP,1005	1	SA	
L302	2703-003182	INDUCTOR-SMD;2.2uH,20%,2520	1	SA		R509	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA	
L701	3301-001148	BEAD-SMD;60ohm,1608,TP,-,-	1	SA		R510	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	SA	
L702	3301-001364	BEAD-SMD;1000ohm,1608,150mA,TP,1085	1	SA		R511	2007-008483	R-CHIP;47Kohm,5%,1/20W,TP,0603	1	SA	
L703	3301-001364	BEAD-SMD;1000ohm,1608,150mA,TP,1085	1	SA		R512	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	1	SA	
MIC700	3003-001119	MIC-CONDENSOR;3V,0.35-.22,0.3#####	1	SA		R513	2007-000636	R-CHIP;270KOHM,5%,1/16W,TP,1005	1	SA	
PCB_MAIN	AH41-01075A	PCB-MAIN;YP-T10 PCB,FR4,8 layer,1.0	0.25	SNA		R514	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	SA	
Q300	0504-001193	TR-DIGITAL;KRC408V,NPN,100MW,22K/47	1	SA		R515	2007-000170	R-CHIP;1Mohm,5%,1/16W,TP,1005	1	SA	
Q303	0504-001193	TR-DIGITAL;KRC408V,NPN,100MW,22K/47	1	SA		R516	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	SA	
R101	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	SA		R517	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	SA	
R102	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	SA		R520	2007-008483	R-CHIP;47Kohm,5%,1/20W,TP,0603	1	SA	
R103	2007-000636	R-CHIP;270KOHM,5%,1/16W,TP,1005	1	SA		R523	2007-008483	R-CHIP;47Kohm,5%,1/20W,TP,0603	1	SA	
R104	2007-000170	R-CHIP;1Mohm,5%,1/16W,TP,1005	1	SA		R524	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	1	SA	
R107	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	SA		R605	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA	
R109	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	SA		R606	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA	
R301	2007-008483	R-CHIP;47Kohm,5%,1/20W,TP,0603	1	SA		R607	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	SA	
R302	2007-000155	R-CHIP;27KOHM,5%,1/16W,TP,1005	1	SA		R608	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	SA	
R303	2007-008304	R-CHIP;300Kohm,1%,1/16W,TP,1005	1	SA		R700	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	SA	
R304	2007-007107	R-CHIP;100Kohm,1%,1/16W,TP,1005	1	SA		R701	2007-000566	R-CHIP;220Kohm,5%,1/16W,TP,1005	1	SA	
R305	2007-008517	R-CHIP;240Kohm,1%,1/16W,TP,1005	1	SA		R702	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	SA	
R307	2007-007587	R-CHIP;3.6Kohm,1%,1/16W,TP,1005	1	SA		R703	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA	
R308	2007-008213	R-CHIP;4.3Kohm,1%,1/16W,TP,1005	1	SA		R704	2007-000070	R-CHIP;0ohm,5%,1/10W,TP,1608	1	SA	
R309	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA		R705	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA	
R310	2007-007538	R-CHIP;56Kohm,1%,1/16W,TP,1005	1	SA		R706	2007-002797	R-CHIP;560OHM,5%,1/16W,TP,1005	1	SA	
R312	2007-007589	R-CHIP;68Kohm,1%,1/16W,TP,1005	1	SA		R707	2007-002797	R-CHIP;560OHM,5%,1/16W,TP,1005	1	SA	
R313	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	SA		R711	2007-007136	R-CHIP;4.7Kohm,1%,1/16W,TP,1005	1	SA	
R314	2007-008483	R-CHIP;47Kohm,5%,1/20W,TP,0603	1	SA		R712	2007-007136	R-CHIP;4.7Kohm,1%,1/16W,TP,1005	1	SA	
R315	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	1	SA		R718	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	SA	
R316	2007-000157	R-CHIP;47Kohm,5%,1/16W,TP,1005	1	SA		R720	2007-000162	R-CHIP;100Kohm,5%,1/16W,TP,1005	1	SA	
R317	2007-008304	R-CHIP;300Kohm,1%,1/16W,TP,1005	1	SA		R801	2007-007199	R-CHIP;2.7ohm,5%,1/16W,TP,1005	1	SA	
R318	2007-007488	R-CHIP;75KOHM,1%,1/16W,TP,1005	1	SA		R802	2007-007199	R-CHIP;2.7ohm,5%,1/16W,TP,1005	1	SA	
R320	2007-008483	R-CHIP;47Kohm,5%,1/20W,TP,0603	1	SA		R803	2007-007142	R-CHIP;10Kohm,1%,1/16W,TP,1005	1	SA	
R322	2007-008483	R-CHIP;47Kohm,5%,1/20W,TP,0603	1	SA		R804	2007-000140	R-CHIP;1Kohm,5%,1/16W,TP,1005	1	SA	
R323	2007-008055	R-CHIP;100Kohm,5%,1/20W,TP,0603	1	SA		R805	2007-000155	R-CHIP;27KOHM,5%,1/16W,TP,1005	1	SA	
R328	2007-008055	R-CHIP;100Kohm,5%,1/20W,TP,0603	1	SA		R806	2007-000566	R-CHIP;220Kohm,5%,1/16W,TP,1005	1	SA	
R329	2007-008483	R-CHIP;47Kohm,5%,1/20W,TP,0603	1	SA		R807	2007-000171	R-CHIP;0ohm,5%,1/16W,TP,1005	1	SA	
R400	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA		R900	2007-008483	R-CHIP;47Kohm,5%,1/20W,TP,0603	1	SA	
R401	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA		R901	2007-000143	R-CHIP;4.7Kohm,5%,1/16W,TP,1005	1	SA	
R402	2007-008516	R-CHIP;10Kohm,5%,1/20W,TP,0603	1	SA		R902	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	SA	

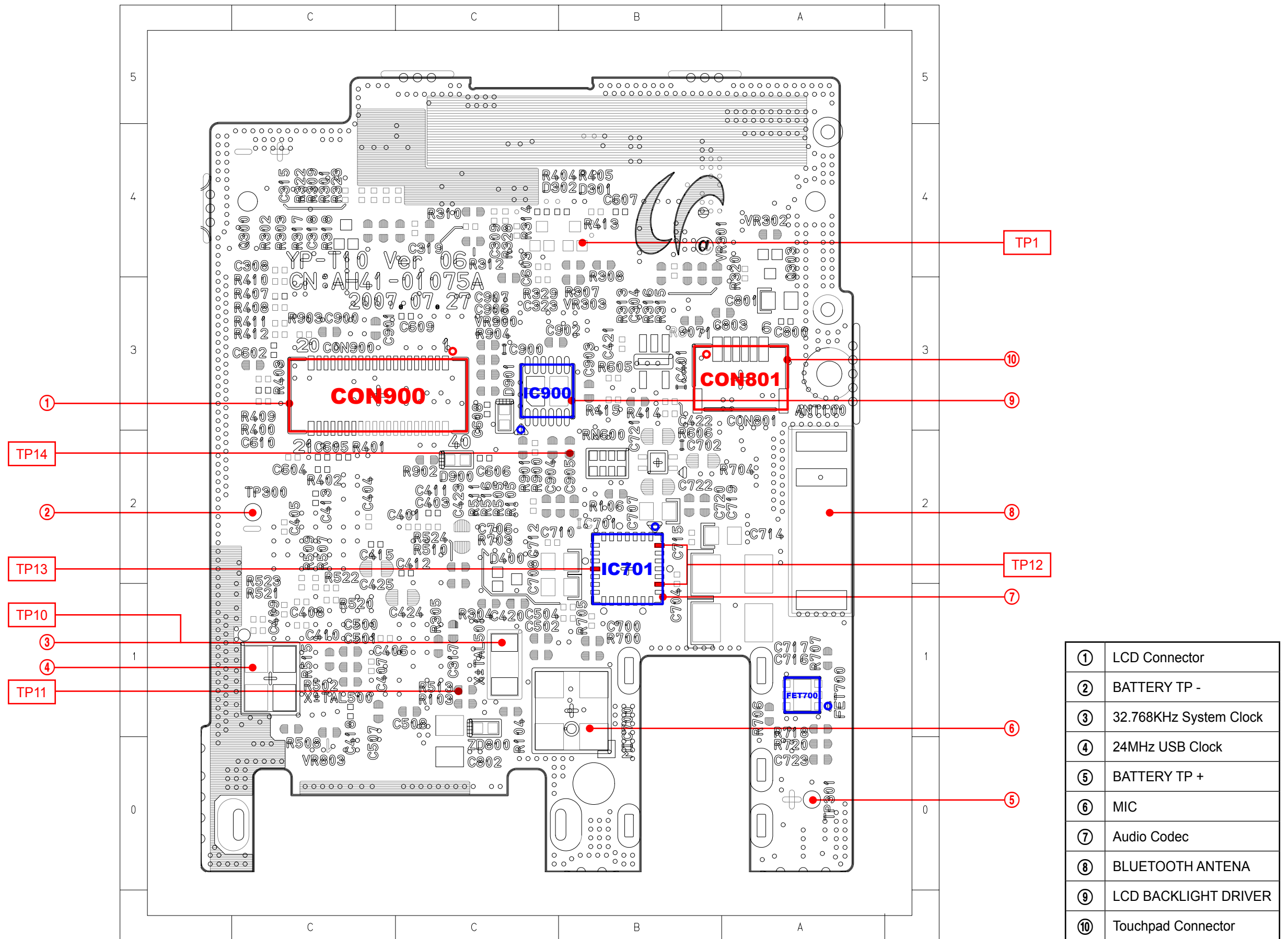
Exploded View & Part List

Loc. No.	Part No.	Description;Specification	Q'ty	SNA	Remark	Loc. No.	Part No.	Description;Specification	Q'ty	SNA	Remark
R903	2007-008483	R-CHIP;47Kohm,5%,1/20W,TP,0603	1	SA							
R904	2007-000138	R-CHIP;100ohm,5%,1/16W,TP,1005	1	SA							
RESET	3404-001324	SWITCH-TACT;50mA,12VDC,0.3gf,3.9x2.	1	SA							
S/W300	3408-001141	SWITCH-SLIDE;4V DC,0.3A,1,1-pole 3-	1	SA							
SHEET	AH63-01556A	SHEET-PCB;YP-T10,3M,T0.6,W15,L22,BL	1	SNA							
SHEET-BGA	AH63-01572A	SHEET-BGA;YP-T10,PORON,T0.3,W8,L13,	1	SA							
USB-GASKET	AH63-01474A	GASKET;YP-T10,Remark,T0.13,W5,L3,-,	1	SA							
VR301	1405-001093	VARISTOR;14V,20A,1x0.5x0.6mm,TP	1	SA							
VR302	1405-001093	VARISTOR;14V,20A,1x0.5x0.6mm,TP	1	SA							
VR303	1405-001093	VARISTOR;14V,20A,1x0.5x0.6mm,TP	1	SA							
VR500	1405-001093	VARISTOR;14V,20A,1x0.5x0.6mm,TP	1	SA							
VR701	1405-001093	VARISTOR;14V,20A,1x0.5x0.6mm,TP	1	SA							
VR702	1405-001093	VARISTOR;14V,20A,1x0.5x0.6mm,TP	1	SA							
VR800	1405-001093	VARISTOR;14V,20A,1x0.5x0.6mm,TP	1	SA							
VR803	1405-001093	VARISTOR;14V,20A,1x0.5x0.6mm,TP	1	SA							
VR900	1405-001093	VARISTOR;14V,20A,1x0.5x0.6mm,TP	1	SA							
X_TAL500	2801-000102	CRYSTAL-SMD;12MHz,30ppm,-,12pF,100o	1	SA							
X_TAL501	2801-004339	CRYSTAL-SMD;0.032768MHZ,20PPM,SMD,9	1	SA							
ZD800	0406-001254	DIODE-TVS;UCLAMP0501P6/-V,200W,S	1	SA							
	AH07-00214A	LCD;TS-200L-001A,YP-T10,-,30.6X40.	1	SA							
	AH43-00011A	BATTERY;363744,YP-T10,polymer,550mA	1	SA							
	AH68-00908H	LABEL-SERIAL;YP-T9,ALL,art paper,-,	1	SNA							
	AH92-02739A	ASSY PCB;YP-T10,MLC 2GB	1	SA	QB						
	AH92-02739B	ASSY PCB;YP-T10,MLC 4GB	1	SA	AB						
	AH99-10007S	ASSY PCB,m;YP-T10,MLC 2GB	1	SNA							
	<b>AH97-02438Y</b>	<b>ASSY MACHINERY-ACCESSORY;XEU(BLACK)</b>	<b>1</b>	<b>SNA</b>	<b>XEU</b>						
	<b>AH97-02438X</b>	<b>ASSY MACHINERY-ACCESSORY;XEU(BLACK)</b>	<b>1</b>	<b>SNA</b>	<b>XEU</b>						
	6801-001335	CARD-REGISTRATION;HUNGARY,SEH,HUNGA	1	SNA							
	AH30-00087E	PHONE-EARPHONE;BUSHING Black,-,32,1	1	SA							
	AH39-00899A	CBF CABLE;USB CABLE,49338-0001,YP-T	1	SA							
	AH46-00049A	S/W CD-INSTALL;YP-T10,Same as SEC C	1	SA							
	AH68-00650C	MARK RECYCLE-WARRANTY-CARD;YP-K3,XE	1	SNA							
	AH68-02016E	MANUAL-QG;YP-T10,XEU,ENG/POL/ROM/GR	1	SA							
	AH68-40042A	CARD-WARRANTY;YEPP,SEPOL,POLISH,-,V	1	SNA							
	AH69-02072A	PACKING CASE-BOTTOM;YP-P2,PC,CLEAR,	1	SA							
	AH69-02074A	PACKING CASE-TOP;YP-P2,PC,CLEAR,T1.	1	SA							
	AH69-02095D	PACKING-SHEET BOTTOM;YP-T10,PAPER,M	1	SA							
	AH97-02492A	ASSY-PACKING MIDDLE;YP-T10,-	1	SA							
	AH69-02082A	PACKING-CASE MIDDLE;YP-T10,PC,,,T17	1	SA							
	AH69-02094A	PACKING-SHEET MIDDLE;YP-T10,PAPER,M	1	SA							
	AH69-02096A	PACKING-SHEET HANDLER;YP-T10,OTHER,	1	SA							
	AH69-02124A	CUSHION-SHEET MIDDLE;YP-T10,RUB-OTH	1	SA							
	AH68-40042C	CARD WARRANTY;ALL,ENG,ART,-,L210,-,	1	SNA	XEU						
	AH68-02016B	MANUAL-QG;YP-T10,XEU,ENG,-,MOJO80G,	1	SNA	XEU						
	AH68-00508U	LABEL SERIAL;COMMON,ELS,-,90,-,-,	0.1	SNA							
	AH68-00701H	LABEL SERIAL;YP-T7,ALL,-,-,W20,L5.6	1	SNA							
	AH68-50114S	LABEL SHIPPING;ALL,XEU,-,-,-,-,-,	1	SNA							
	AH68-50119B	LABEL-EAN(B);ART-PAPER,T0.05,L29,W4	1.05	SNA							
	AH69-02091A	MASTER CARTON;YP-P2/T10,OTHER,T6,W1	0.1	SA							



## 6. PCB Diagram

### 6-1 PCB Top





### 6-1-1 Pin Connection

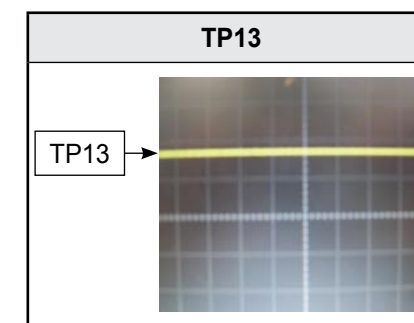
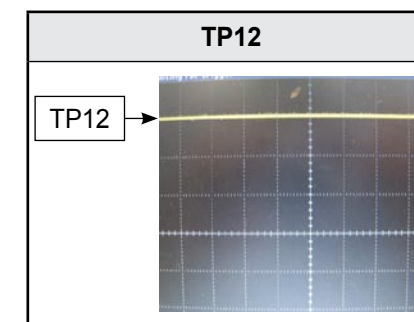
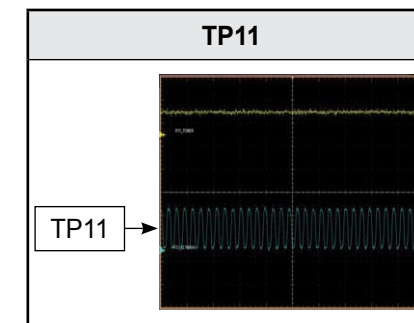
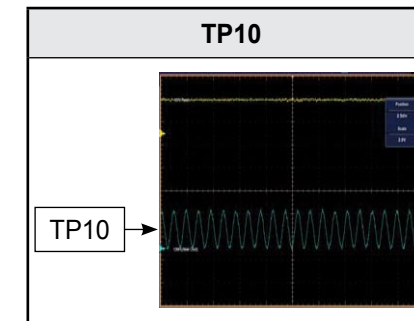
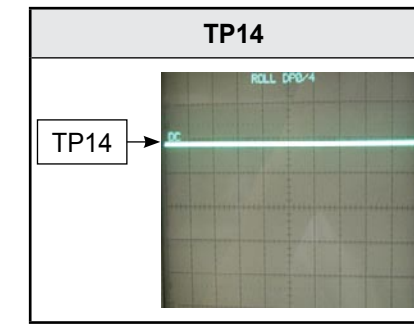
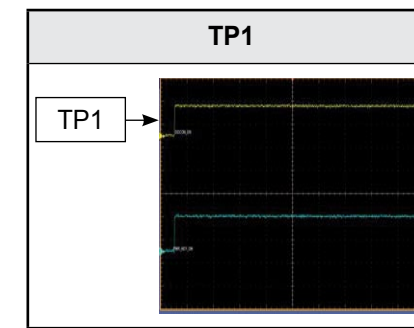
#### ① LCD Connector

Pin No.	Signal	Pin No.	Signal	Pin No.	Signal
1	GND	15	P3.0V	29	LCD_GRN2
2	LCD_VSYNC	16	GND	30	LCD_GRN3
3	LCD_HSYNC	17	LED1-	31	LCD_GRN4
4	LCD_PCLK	18	LED2-	32	LCD_GRN5
5	LCD_DE	19	LED+	33	LCD_BLU0
6	GND	20	LCD_DETECT	34	LCD_BLU1
7	LCD_RST	21	LCD_RED0	35	LCD_BLU2
8	LCD_CS	22	LCD_RED1	36	LCD_BLU3
9	I2C_CLK1	23	LCD_RED2	37	LCD_BLU4
10	GND	24	LCD_RED3	38	LCD_BLU5
11	P3.0V	25	LCD_RED4	39	I2C_DAT1
12	P3.0V	26	LCD_RED5	40	GND
13	LCD_STATUS	27	LCD_GRN0		
14	P3.0V	28	LCD_GRN1		

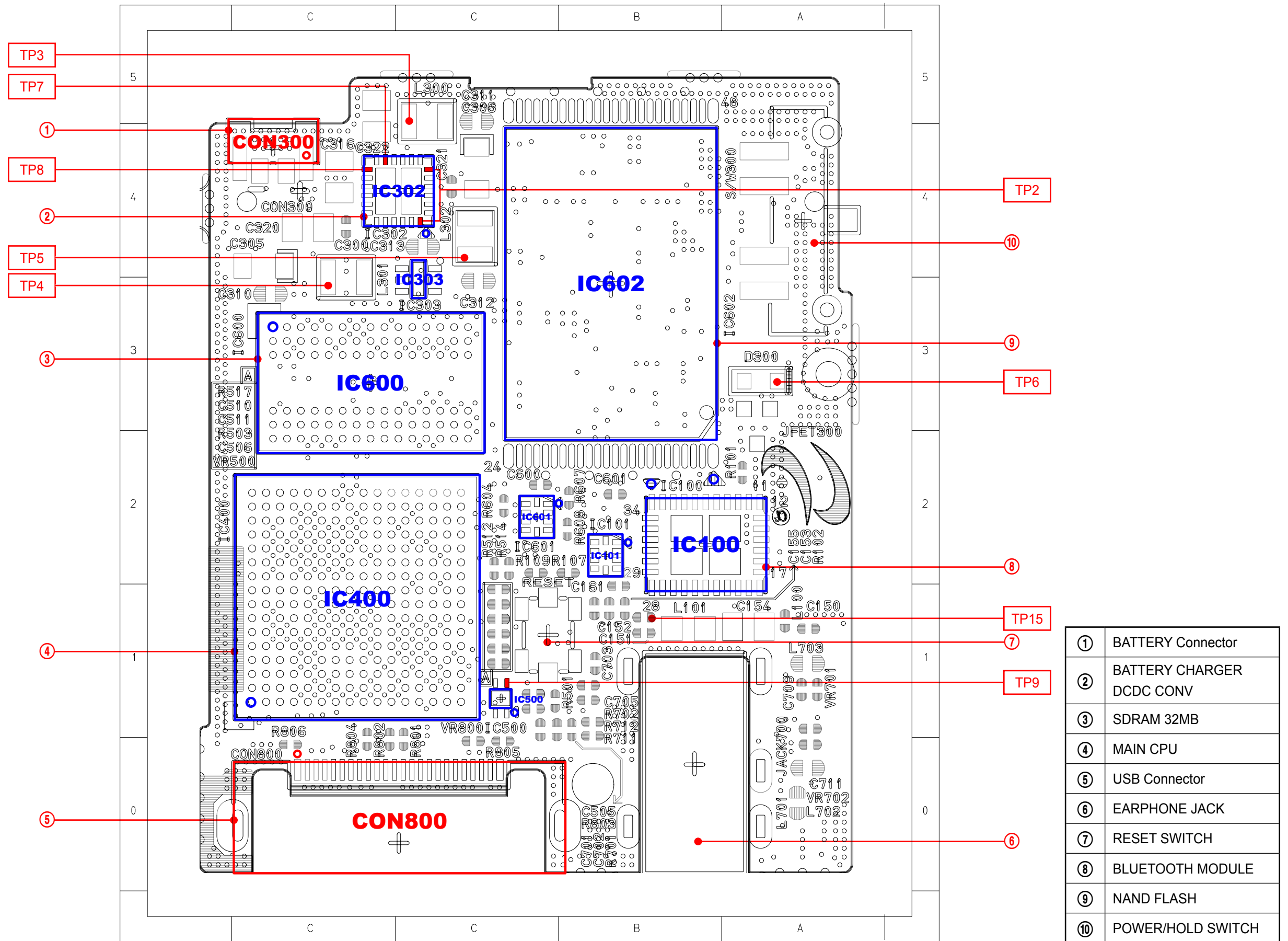
#### ⑩ Touchpad Connector

Pin No.	Signal
1	GND
2	T_CLK
3	T_DATA
4	T_ACK
5	NC
6	P3.0V

### 6-1-2 Test Point Wave Form



6-2 PCB Bottom



### 6-2-1 Pin Connection

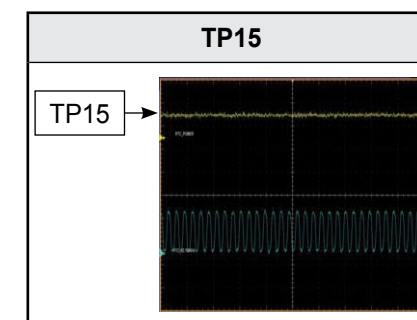
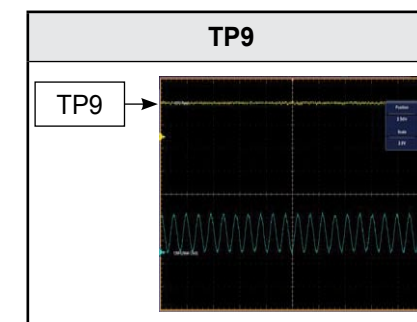
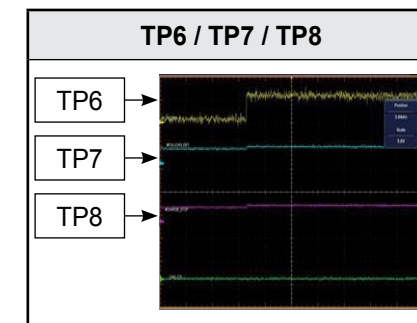
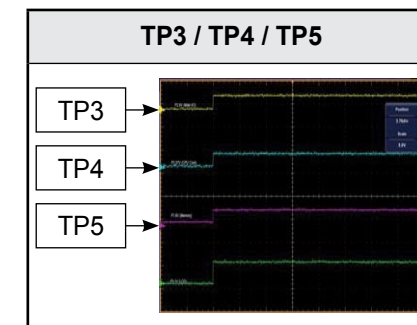
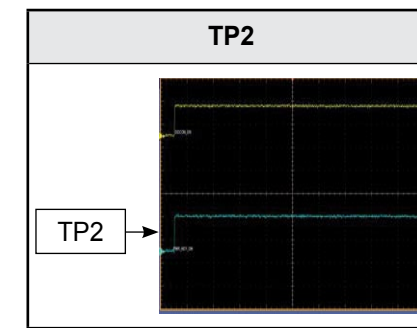
#### ⑤ USB Connector

Pin No.	Signal	Pin No.	Signal
1	BATT ID	13	Uart RX1
2	DEVICE DET/CE	14	Uart TX1
3	JTAG_TCK/DC3.3V OUT	15	USB D+/HOST D+
4	ADAPTOR	16	USB PWR
5	ADAPTOR	17	LINE OUT R
6	JTAG_TCK/DC3.3V OUT	18	LINE OUT L
7	JTAG_TMS/CVBS IN	19	GND
8	LINE IN R	20	REVERSE
9	LINE IN L	21	BATT
10	USB D-/HOST D-	22	BATT
11	JTAG_RST/REVERSE	23	EXT BAT INPUT
12	GND	24	PBA CE

#### ⑥ EARPHONE JACK

Pin No.	Signal
5A	GND
1	R-CH
4A	NC
4B	L-CH
5B	HD-DET

### 6-2-2 Test Point Wave Form



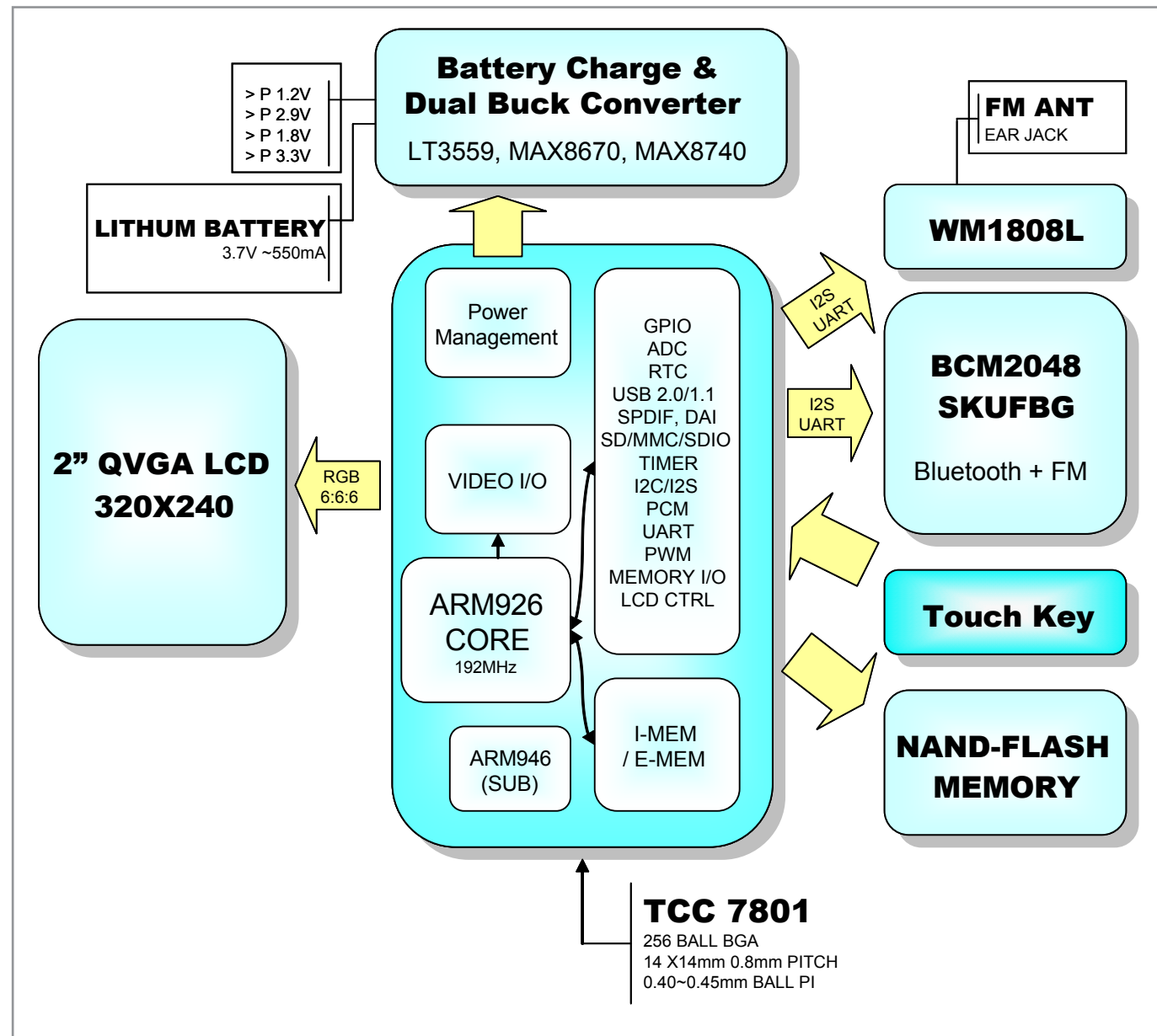
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## 7. Schematic Diagram

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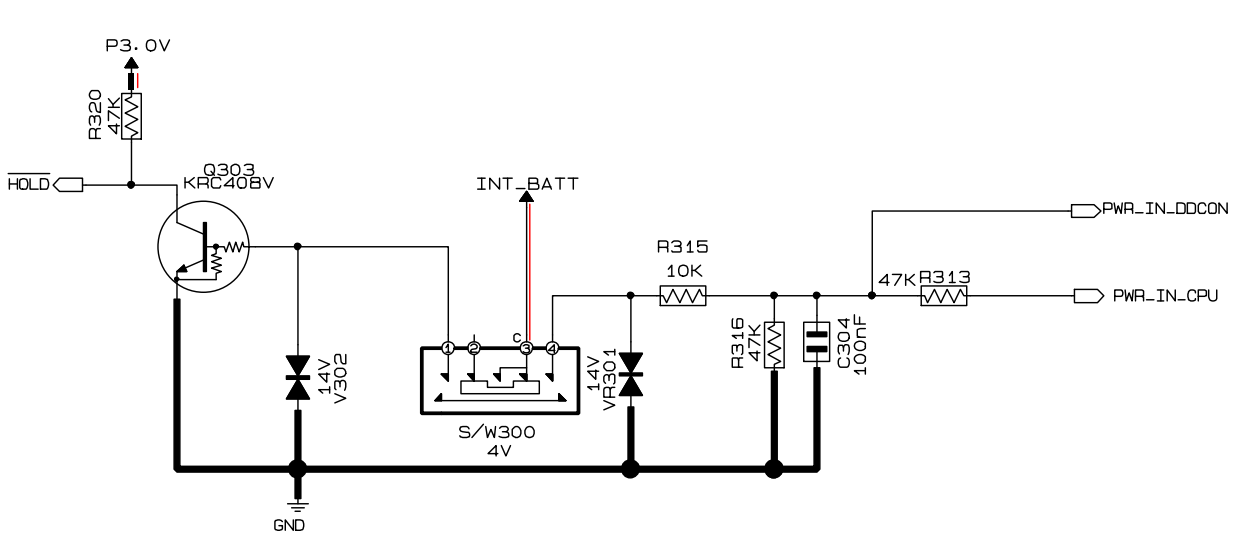
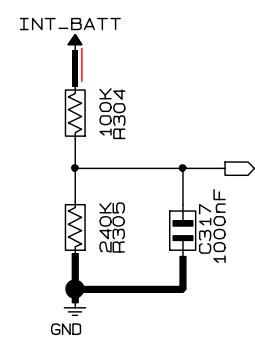
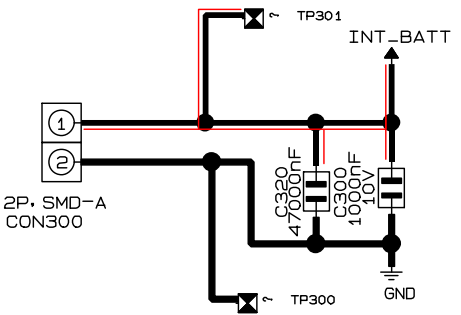
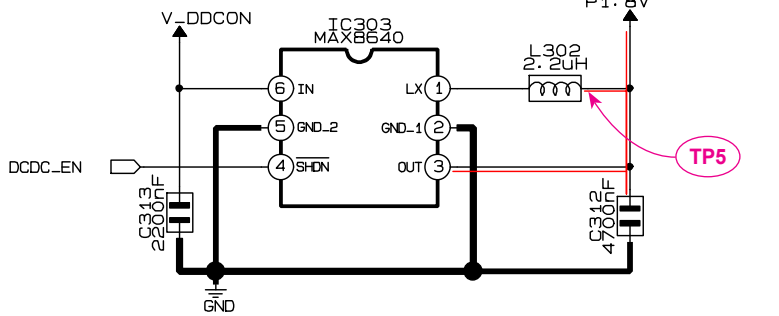
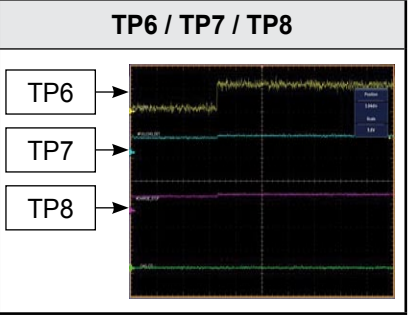
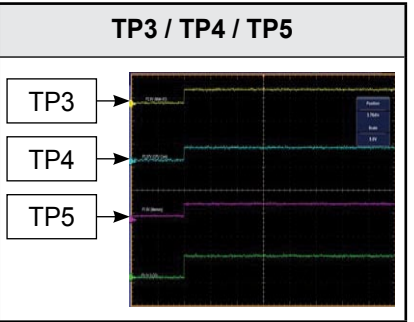
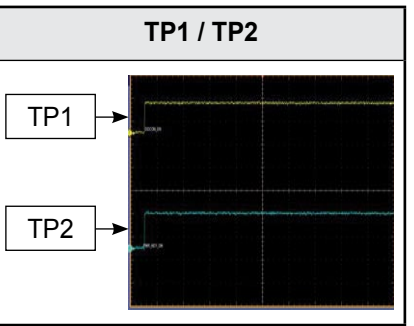
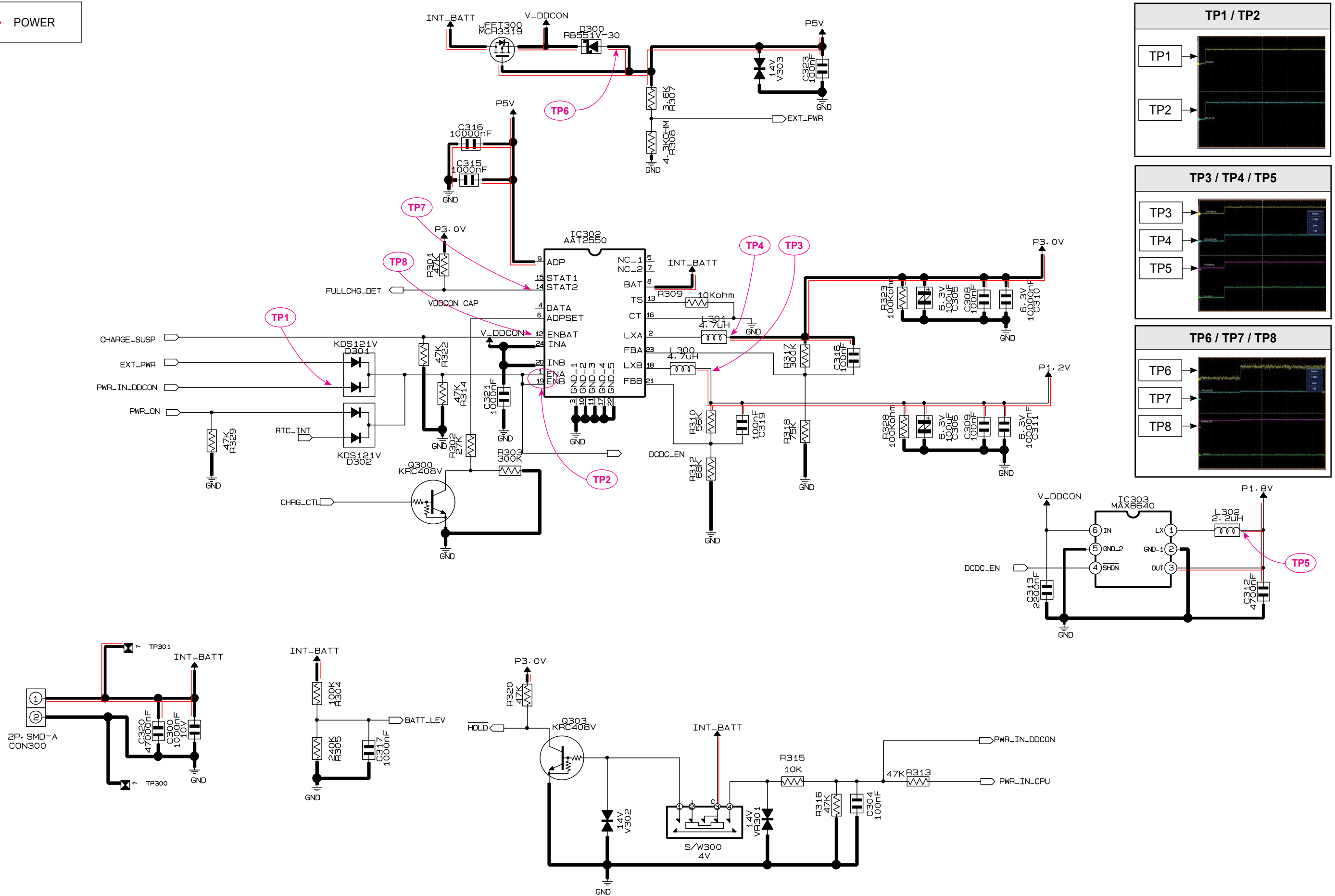
7-1 Overall Block Diagram.....	7-2
7-2 POWER .....	7-3
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7-4 CPU .....	7-5
7-5 MEMORY .....	7-6
7-6 AUDIO .....	7-7
7-7 24PIN I/O, Interface .....	7-8
7-8 LCD Block.....	7-9
7-9 Bluetooth Block .....	7-10

## 7-1 Overall Block Diagram



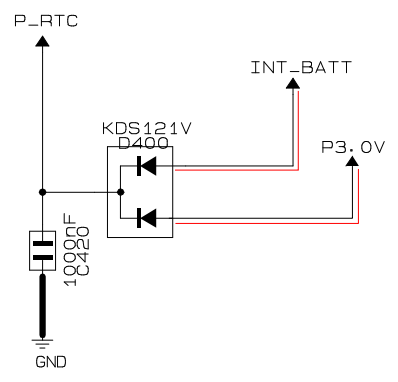
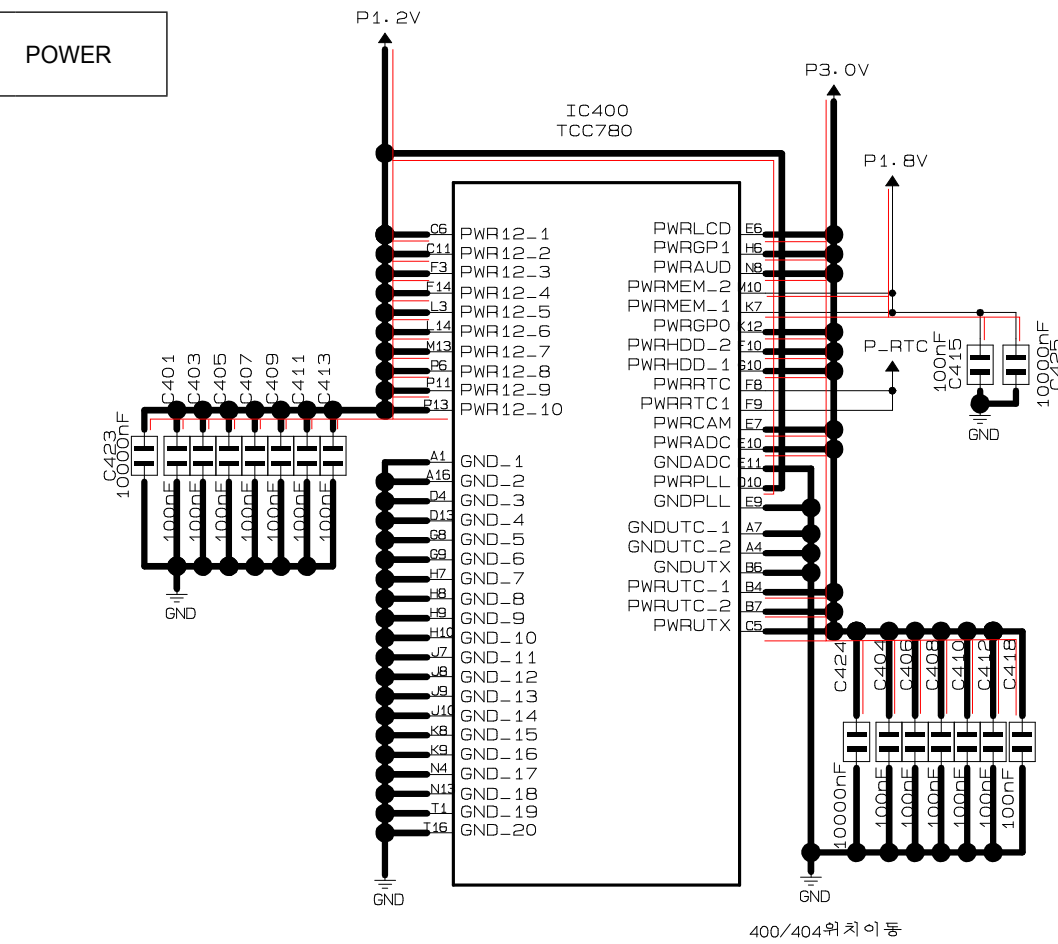
- The Main System contains basic circuit blocks, such as Processor(TCC7801), SDRAM, Flash Memory, Power Block, Audio DAC, etc., and function blocks, such as Bluetooth Block, 24pin I/O, and etc. The display is connected to a 2-inch TFT LCD.
- Serial Interfaces between ICs are implemented with various Protocols throughout the System. A host processor (TCC7801) UART is used to implement CODEC and FM Tuner features.
- The interface between the Bluetooth Module and the Host Processor is achieved through UART, and the audio DAC achieves mode setting and data transfer through I2C and I2S, respectively.
- Power can be turned On and Off with the Power S/W located at the top of the set. Either the built-in battery or the power adapter can be used for power supply. The power adapter is capable of 5V input. Power from the power adapter is used to recharge the battery at AAT2550 and generates power for the system (3.0V, 1.2V).

# 7-2 POWER





### 7-3 CPU PWR & MEM INF



### Boot Mode Select

XA[6:3]	HXD[3:0]	Description
0000	XXXX	Normal Boot From NOR
0001	0001	F/W Download From UART or I2C
0001	0010	Boot From NAND IF Failed, Boot From USB
0001	0011	Boot From NOR IF Failed, Boot From USB
0001	01XX	Boot From USB, F/W Download From USB

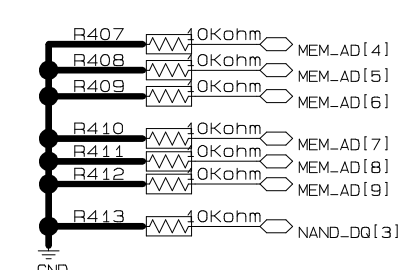
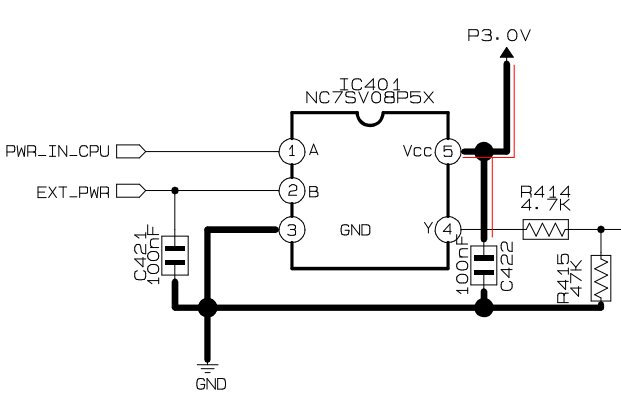
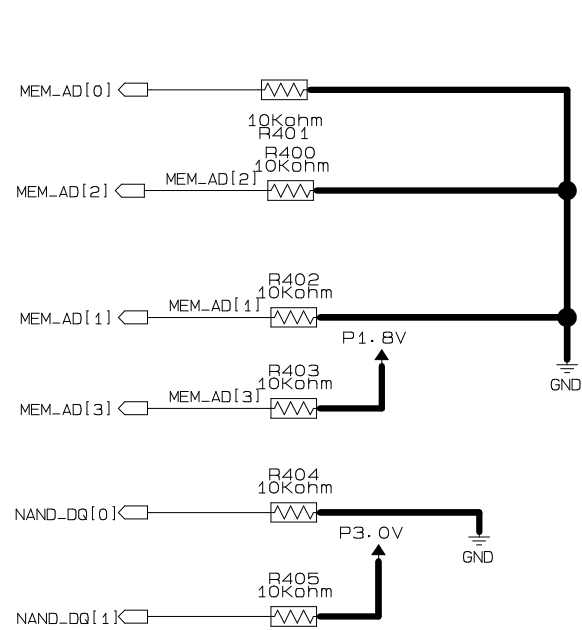
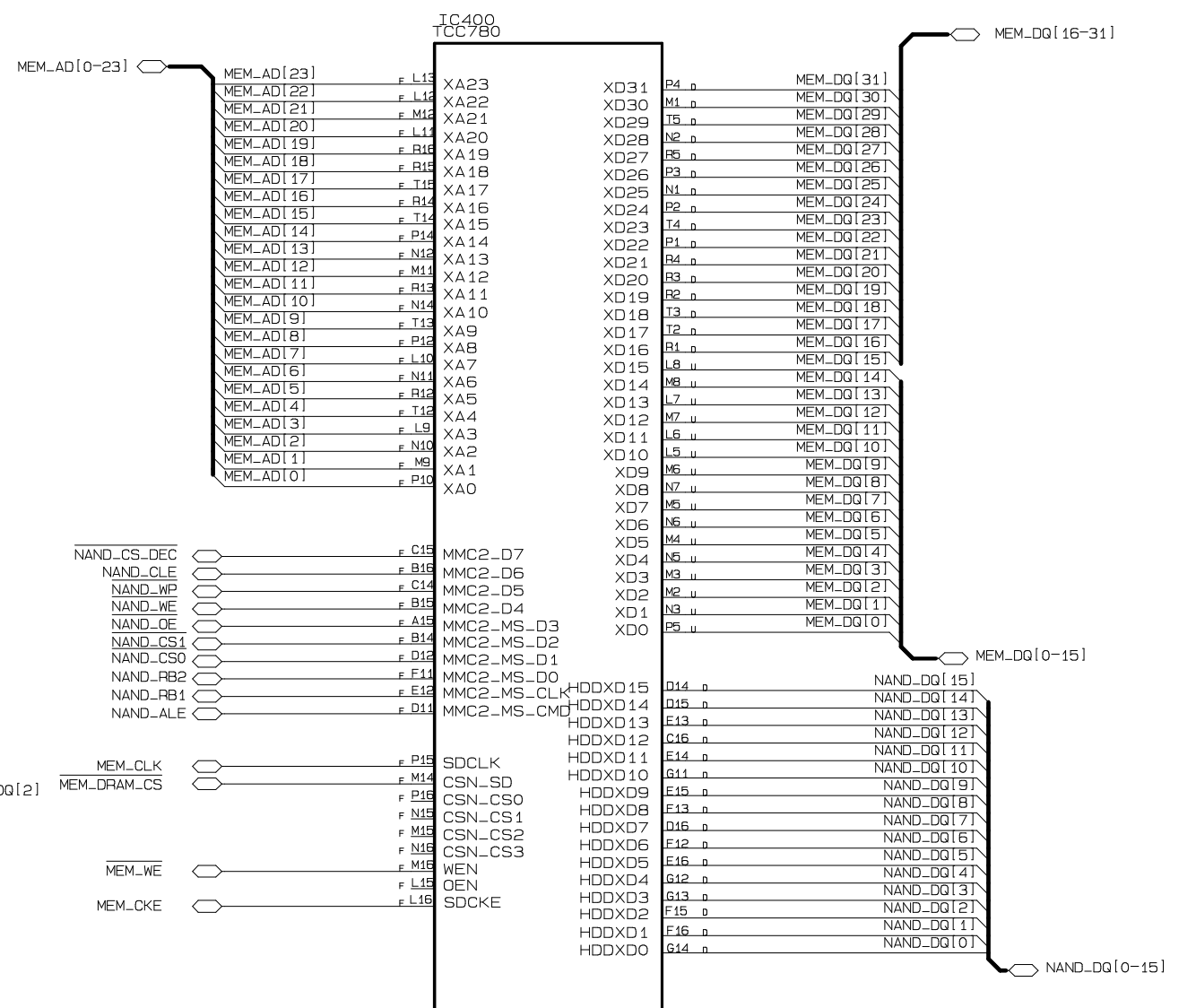
XA2	Description
0	Normal Speed mode
1	Fast Config mode

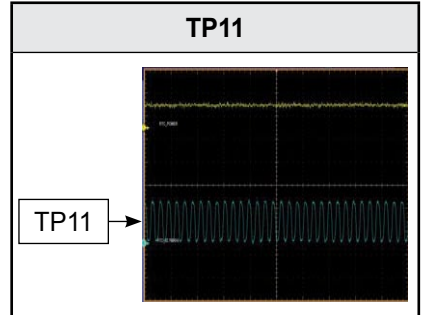
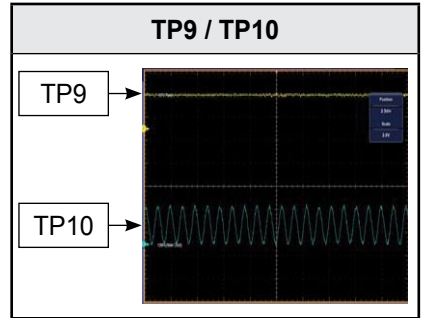
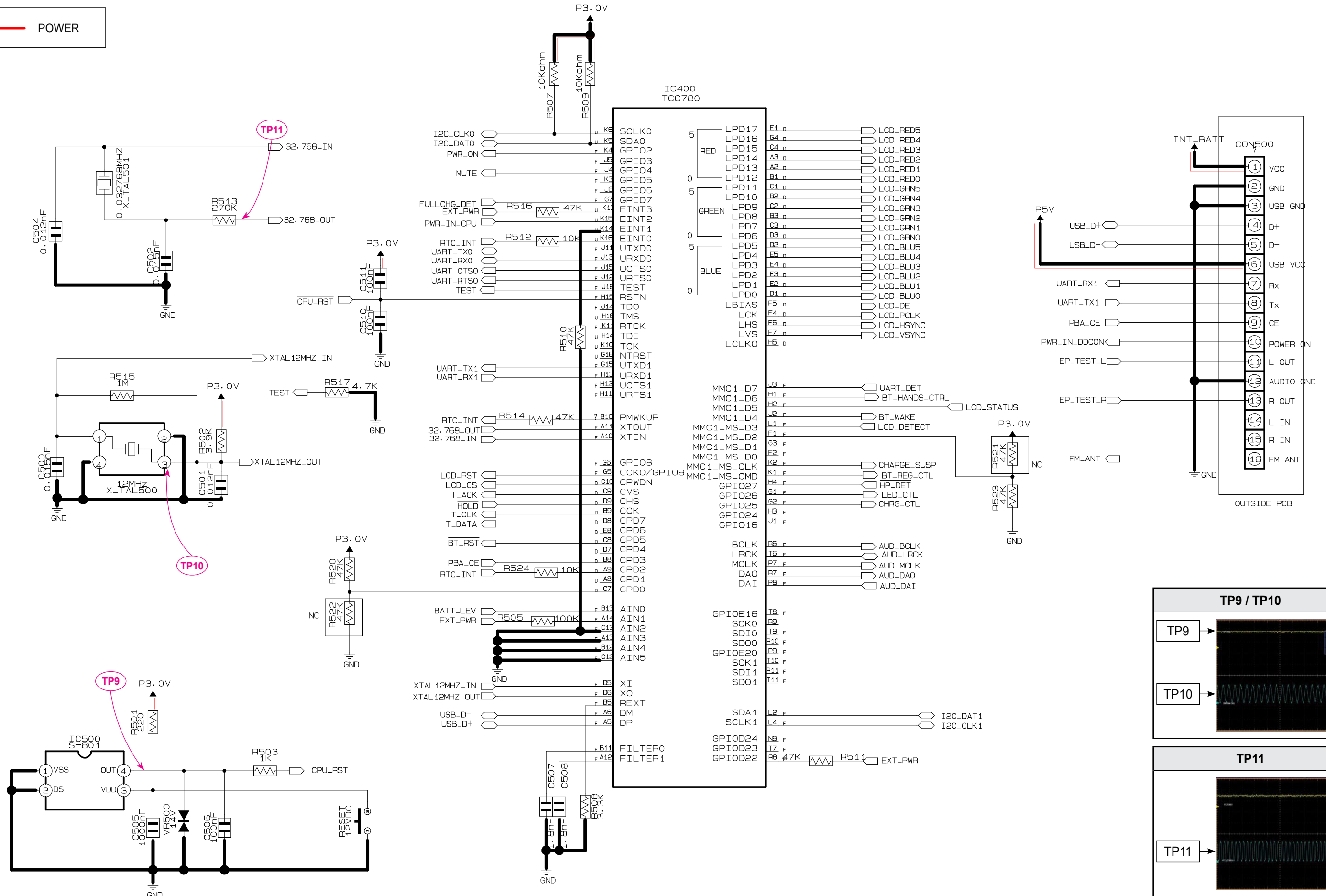
XA[1:0]	Description
00	ARM926 Only
01	Test Mode
10	ARM946 sub core only
11	Both core

XA[8:7]	Description
00	16bit BW
01	8bit BW
10	32bit BW

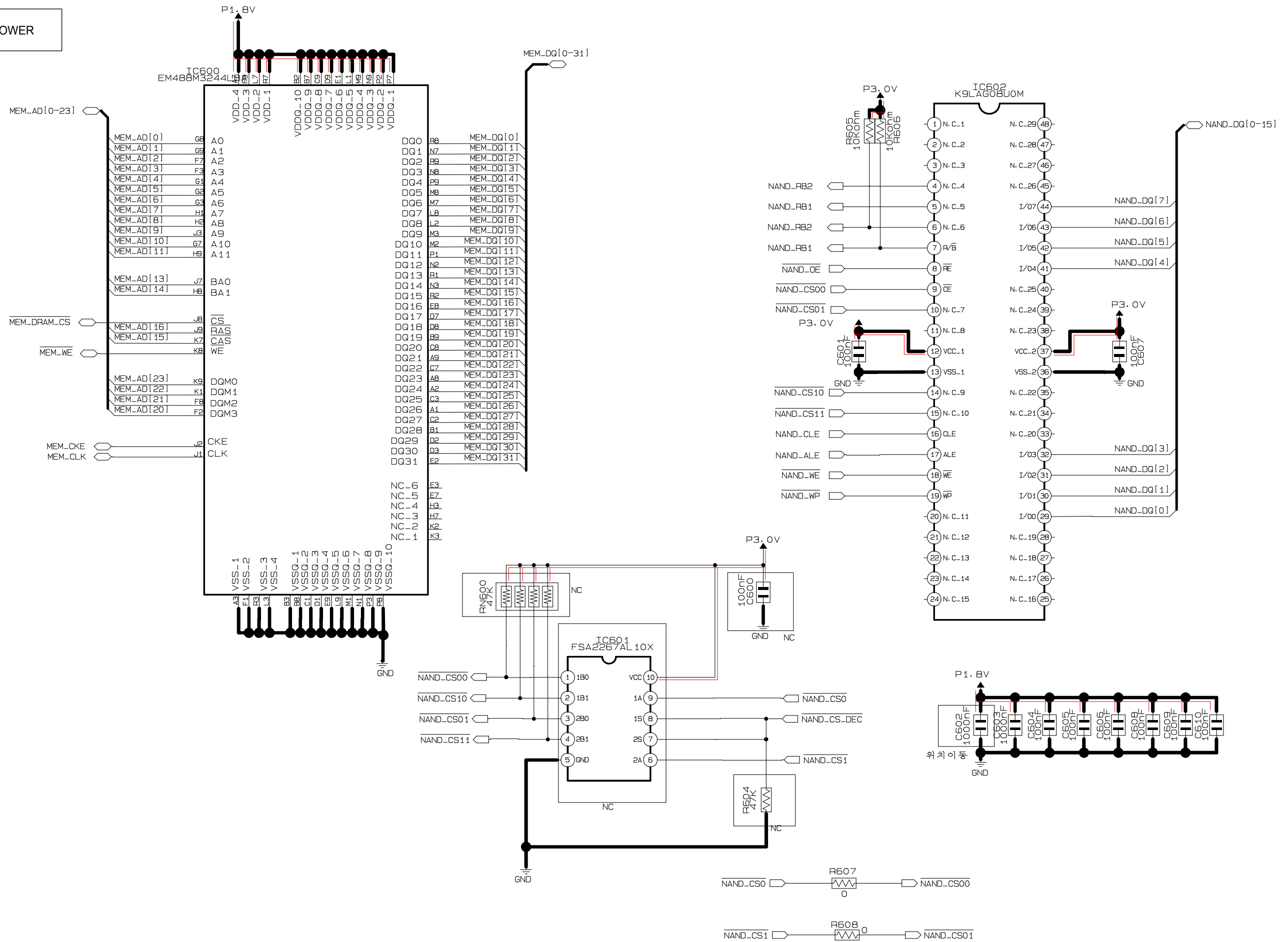


# 7-4 CPU

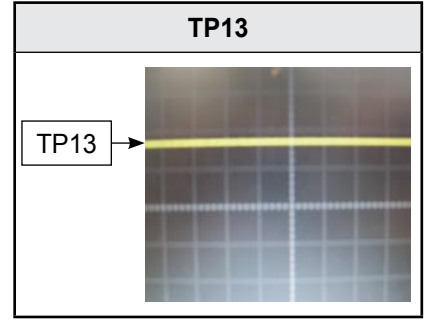
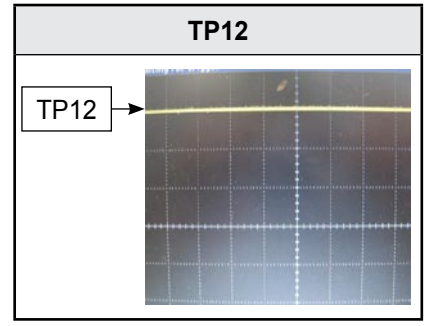
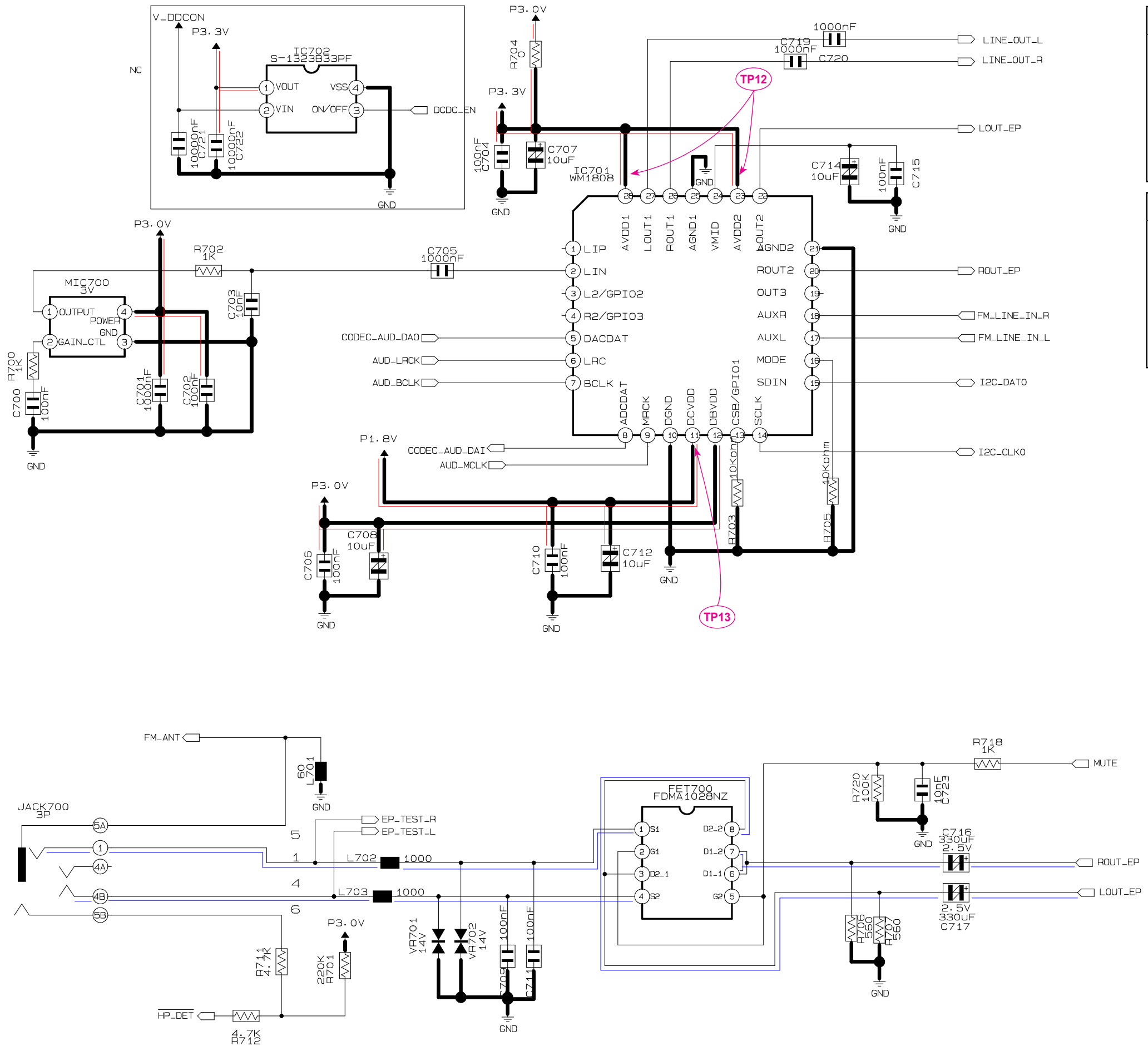
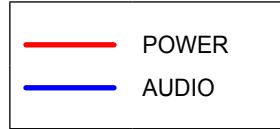




### 7-5 MEMORY



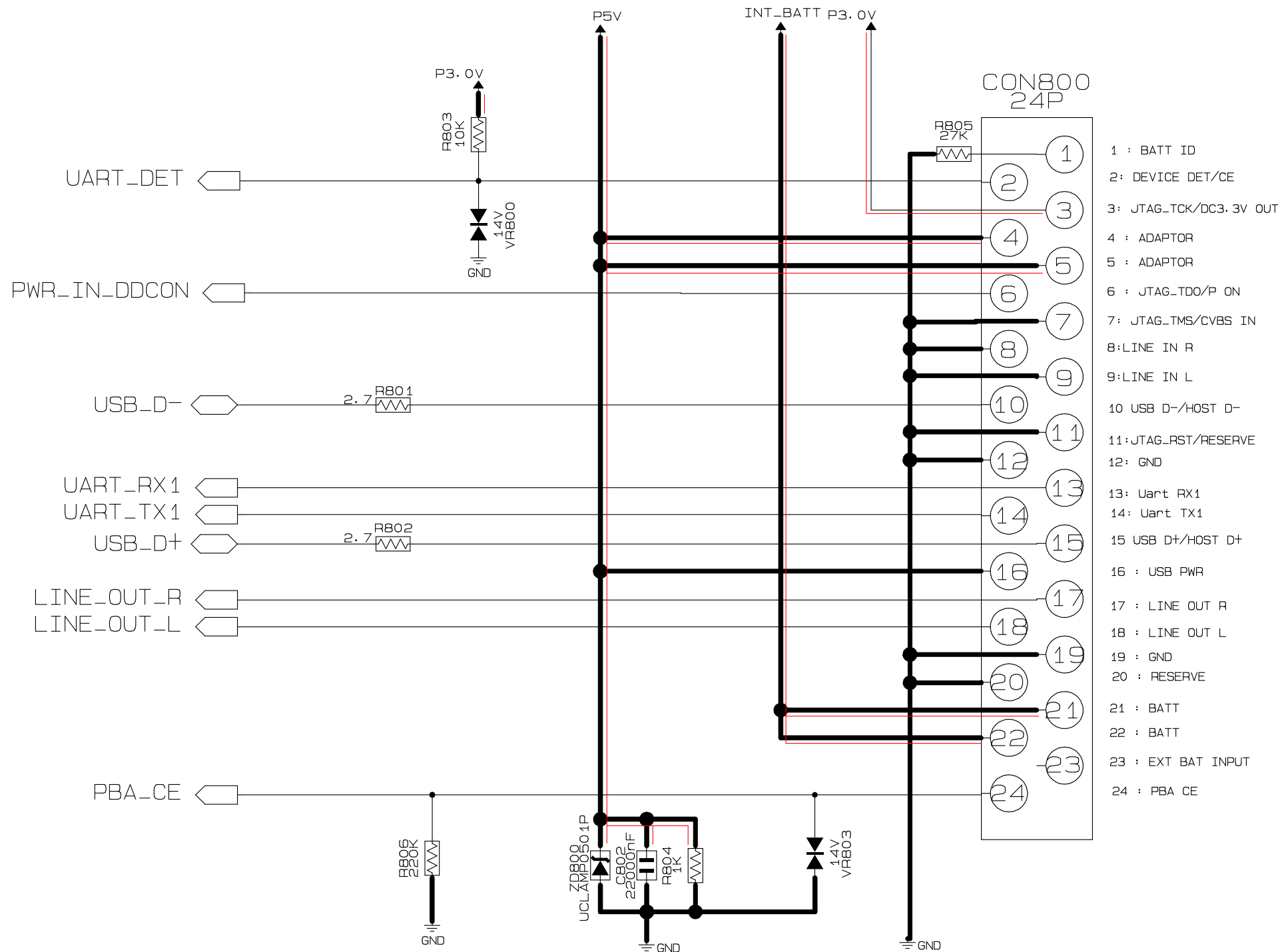
### 7-6 AUDIO



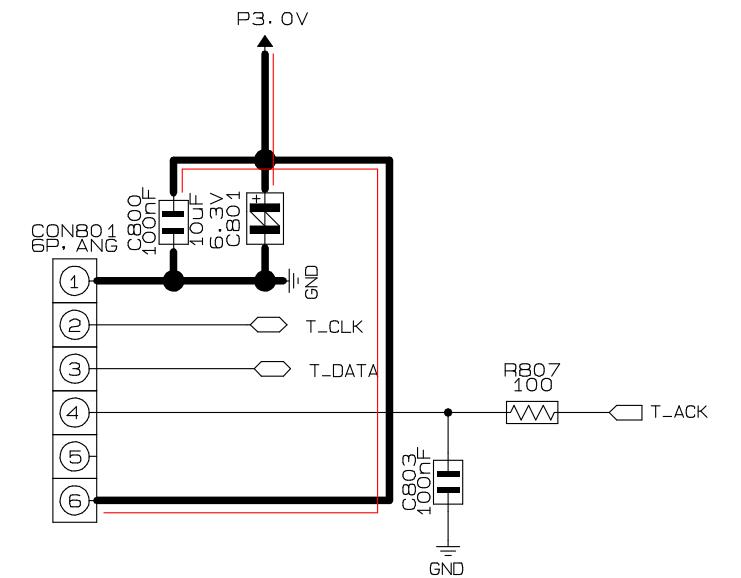
### 7-7 24PIN I/O, Interface



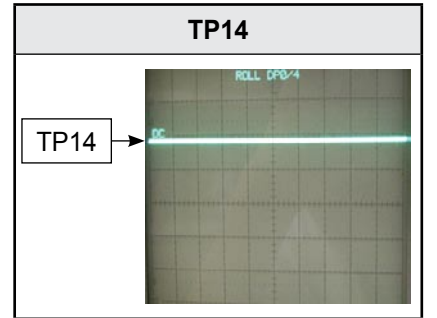
## 24PIN IO INTERFACE



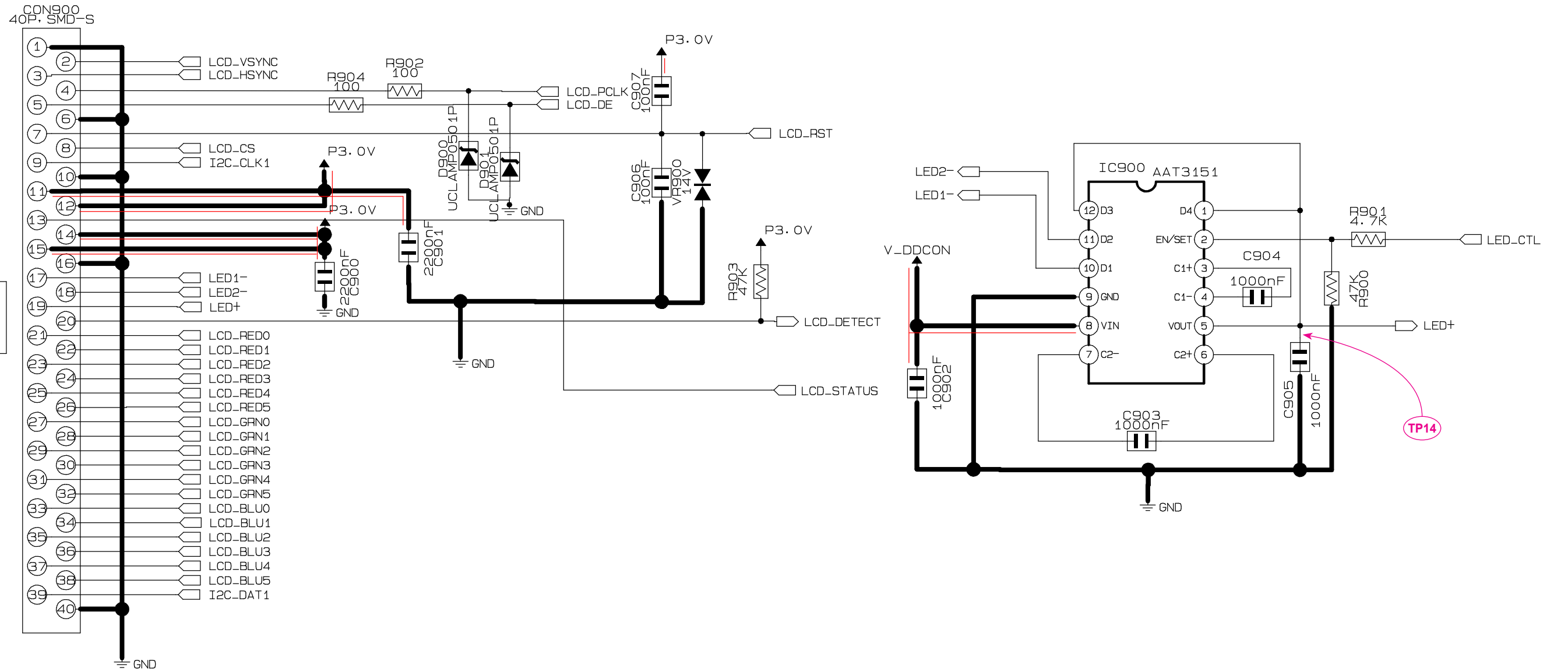
- 1 : BATT ID
- 2 : DEVICE DET/CE
- 3 : JTAG\_TCK/DC3.3V OUT
- 4 : ADAPTOR
- 5 : ADAPTOR
- 6 : JTAG\_TDO/P ON
- 7 : JTAG\_TMS/CVBS IN
- 8 : LINE IN R
- 9 : LINE IN L
- 10 : USB D-/HOST D-
- 11 : JTAG\_RST/RESERVE
- 12 : GND
- 13 : Uart RX1
- 14 : Uart TX1
- 15 : USB D+/HOST D+
- 16 : USB PWR
- 17 : LINE OUT R
- 18 : LINE OUT L
- 19 : GND
- 20 : RESERVE
- 21 : BATT
- 22 : BATT
- 23 : EXT BAT INPUT
- 24 : PBA CE



### 7-8 LCD Block



AU0 : NC  
E-LITECOME : GND



### 7-9 Bluetooth Block

