

## Component Replacement - electrical -



*Xperia XA2 Ultra*  
*H3213, H3223, H4213, H4233*

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*For general information about electrical repair related issues, refer to 1220-1336: Generic Repair Manual - electrical*

*Baking prior to repair is required, if the board have been exposed to air more than 12 hours from PWB package opening. Too long exposure time increase the level of moisture in PWB and the PWB could delaminate during repair process and result in direct or latent failures and reduce reliability.  
The boards shall be baked in 125°C ±5°C for 4 hours .*

*Test after electrical replacement: refer to Mechanical Test Instruction.*

*All Electrical components are RLC level C.*

*Do not remove shield can lids (RF performance will be damaged).*

*If there is other components right next to replacement component, protect the other components with Kapton tape.*

## 1 Replaceable Components

EXPLANATION OF ABBREVIATIONS USED IN THE COLUMN 'COMMENTS' BELOW

### **REPAIR METHOD**

**HA** = Hot Air (removal & mounting)

**ST** = Soldering Tool (removal & mounting)

**HA/ST** = Hot Air for removal – Soldering Tool for mounting

**BGA** = BGA Station

**BH** = Bottom Heater

### **ADDITIONAL INFORMATION**

⇒1 (2,3,4, etc.) = Proceed to 'Additional Repair Info' for further instructions in the indicated section(s).

## Primary Side

Position	Component	Part no.	Comments
J2801	Single SIMSOCKET SM049-13116A05D JTCONN (For H3212, H3223)	C/23040001800	HA+BH or BGA ⇒1
J2801	Dual SIMSOCKET SM049-13116A04D JTCONN (For H4213, H4233)	C/23040001700	HA+BH or BGA ⇒1
J2802	MEMSOCKET 3.2.16.0055 JTCONN	2334000054W	HA+BH or BGA ⇒2
U3901	MEMS MIC KRM0300-035090 HOSIDEN	22200000V00	HA+BH ⇒3
SPR2201	SPR CONN TM007-303 JTCONN	2313000134W	HA+BH ⇒4
SPR2202	SPR CONN TM007-303 JTCONN	2313000134W	HA+BH ⇒4

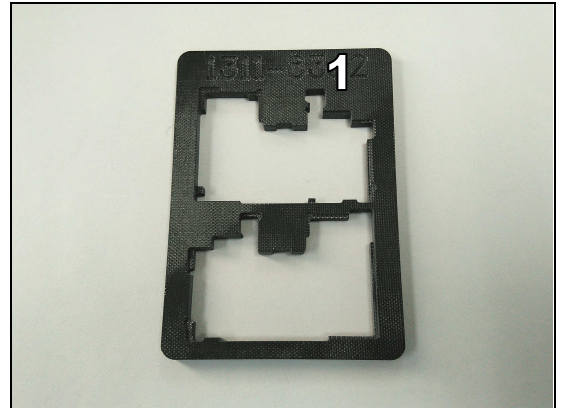
## Secondary Side

Position	Component	Part no.	Comments
ANT3304	SPR CONN TM010-307 JTCONN	2313000161W	HA+BH ⇒5
ANT3305	SPR CONN TM010-307 JTCONN	2313000161W	HA+BH ⇒5
D2201	LED LTPL-C0677WPNB-CC2 LITEON	17700002Z00	HA+BH ⇒6
GP3401	SPR CONN WMS0011-010030 HOSIDEN	2313000109W	HA+BH ⇒7
GP3402	SPR CONN WMS0011-010030 HOSIDEN	2313000109W	HA+BH ⇒7
J3601	BTB CONN ASE5S1210 ATC	C/23080006100	HA+BH or BGA ⇒8
J3701	BTB CONN ASE5B5010 ATC	23080005V00	HA+BH or BGA ⇒9
J3801	BATT CONN BM22L-4P-V(87) HRS	23030000U00	HA+BH ⇒10
J3901	BTB CONN ASE5S1610 ATC	2308000216W	HA+BH or BGA ⇒11
J4101	BTB CONN ASE5S4010 ATC	2308000278W	HA+BH or BGA ⇒12
J4201	BTB CONN BB35-RD34-3A-D8 DDK	23080002J00	HA+BH or BGA ⇒13
J4202	BTB CONN ASE5S3010 ATC	2308000312W	HA+BH or BGA ⇒14
J4203	BTB CONN BM20B(0.8)-34DS-0.4V(51) HRS	2308000355W	HA+BH or BGA ⇒15
PAD3201	SPR CONN TM010-307 JTCONN	2313000161W	HA+BH ⇒16
PAD3204	SPR CONN TM010-307 JTCONN	2313000161W	HA+BH ⇒16
PAD3205	SPR CONN TM010-307 JTCONN	2313000161W	HA+BH ⇒16
FJP3101	COAX CONN 3.2.08.0113 JTCONN	23350000R00	HA+BH ⇒17
FJP3102	COAX CONN 3.2.08.0113 JTCONN	23350000R00	HA+BH ⇒17

## 2 Tools

### SPECIAL TOOLS

1. PBA Soldering Fixture (1311-8444)



### STANDARD TOOLS

1. Small Convection (Hot Air) Device



2. Soldering Iron



3. Soldering wick



## Tools

4. Solder-wire



5. Solder-paste



6. Low Static Heat Protection Tape

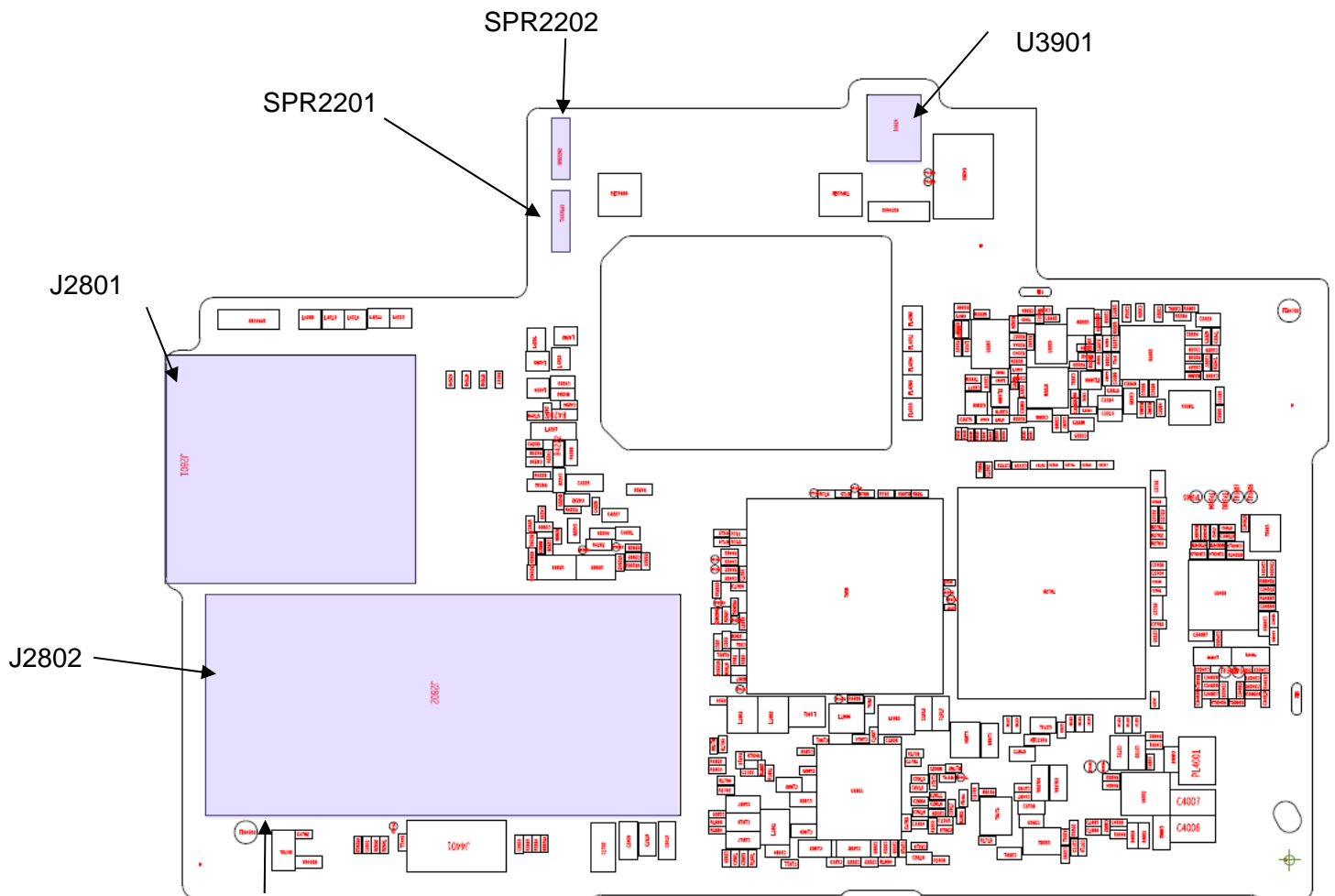


7. Flux

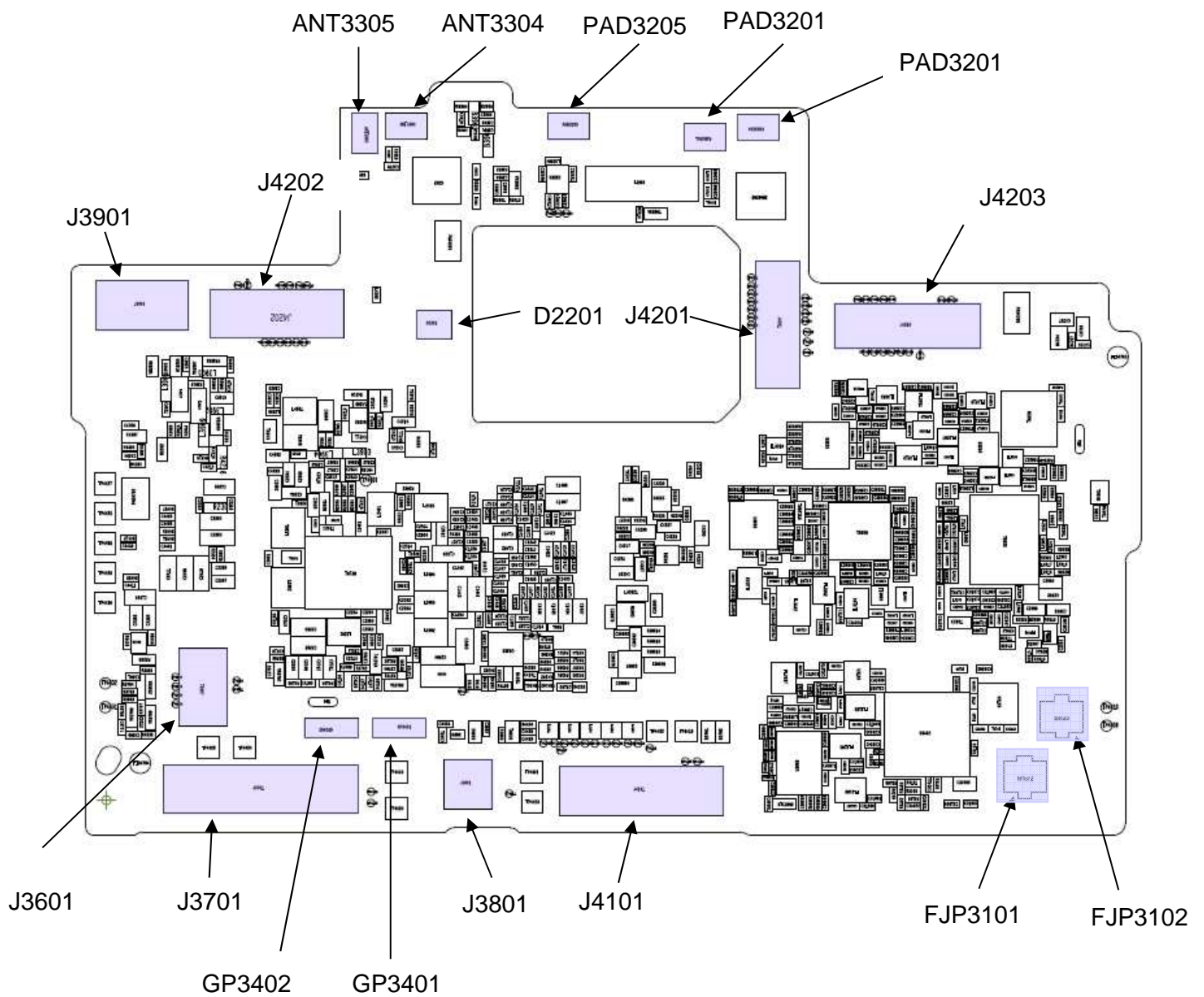


## 3 Component Placing

Primary side

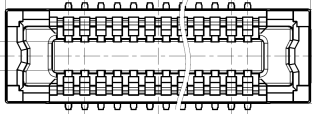
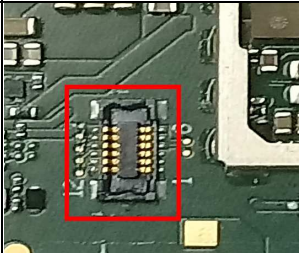
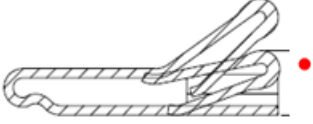
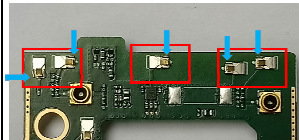
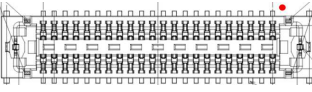
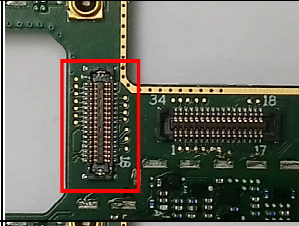
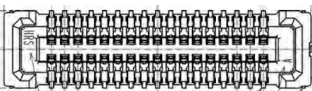
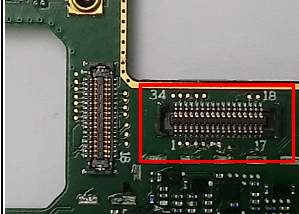

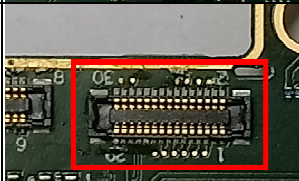
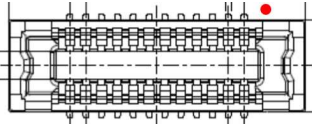
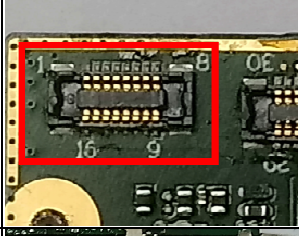
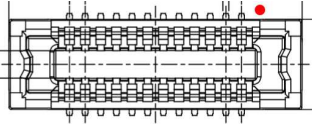
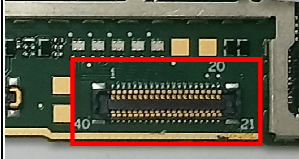


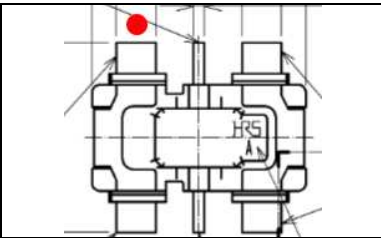
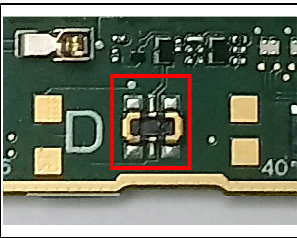
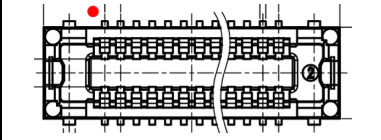
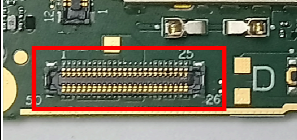
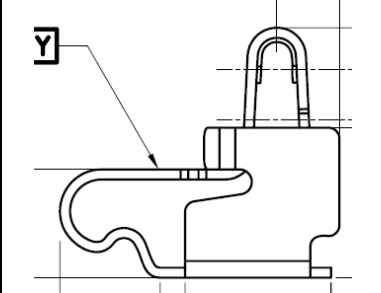
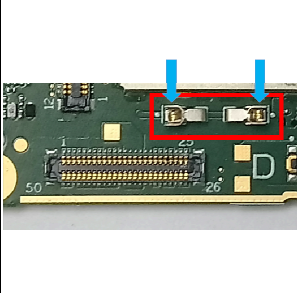
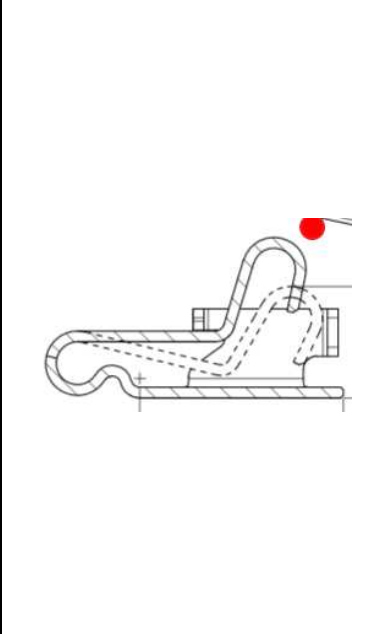
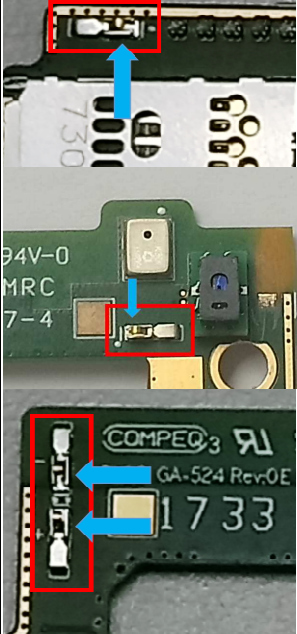
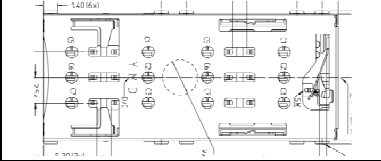
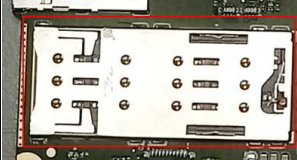
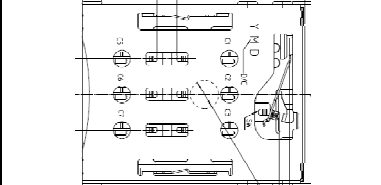
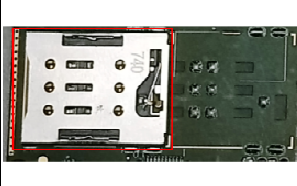
## Secondary side

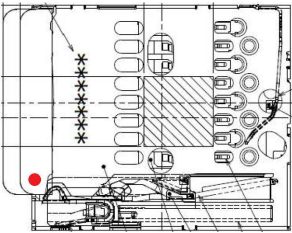
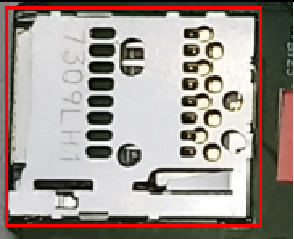
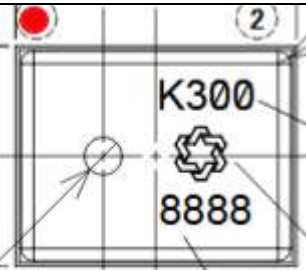
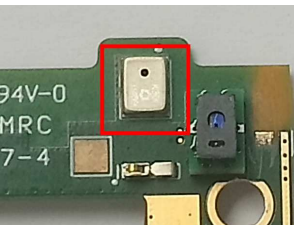
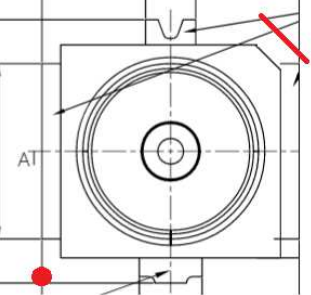
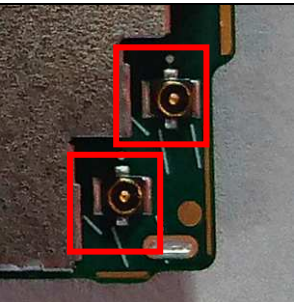




**The Component direction is shown by using red point.**

Position	PBA drawing	PBA picture
J3601		
ANT3304 ANT3305 PAD3201 PAD3204 PAD3205		
J4201		
J4203		
J4202		
J3901		
J4101		

J3801		
J3701		
GP3401 GP3402		
SPR2201 SPR2202		
J2802		
J2802		

J2801		
U3901		
FJP3101 FJP3102		

## 4 Additional Repair info

### 4.1 Primary Side

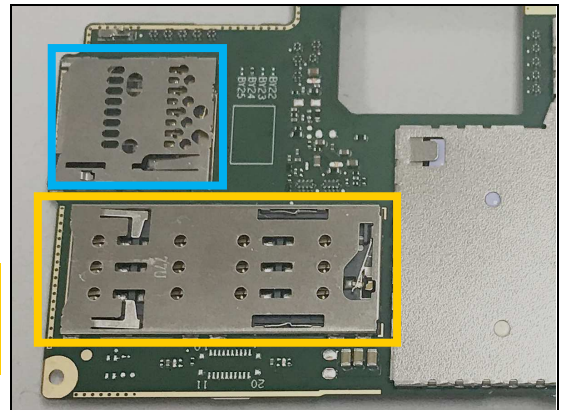
1

J2801

*Replace if mechanical damaged.*

*(No Memory Card found )*

*Protect the SIM connector slot with capton tape!*



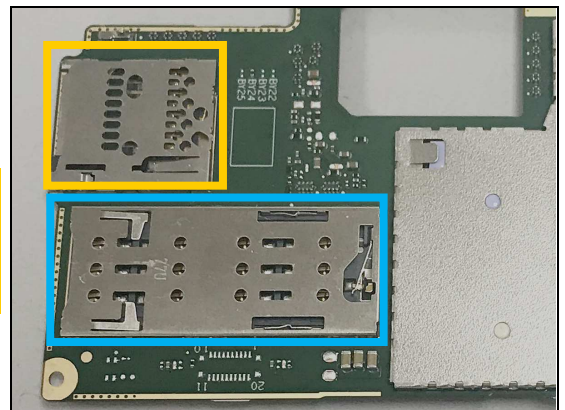
2

J2802

*Replace if mechanical damaged.*

*(No network, restart, No SIM card is detected, can't insert Cap Tray Assy)*

*Protect the SD Holder connector with capton tape!*

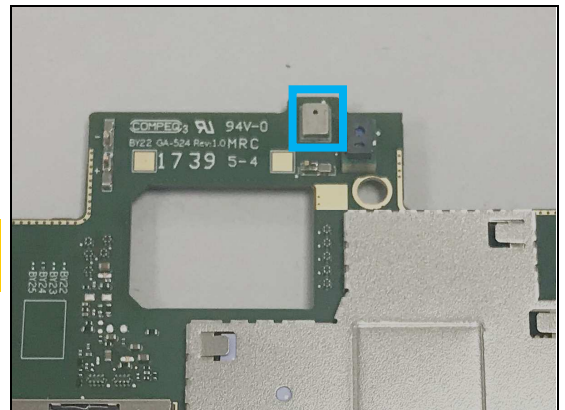


3

U3901

*Replace if mechanical damaged.*

*(2nd MIC not working)*

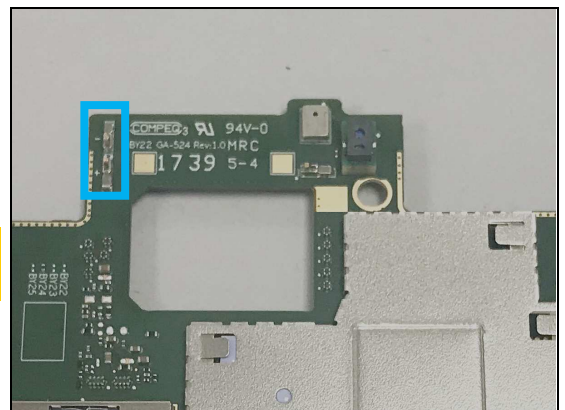


4

SPR2201, SPR2202

*Replace if mechanical damaged.*

*(Front Flash LED not working)*





### 4.2 Secondary Side

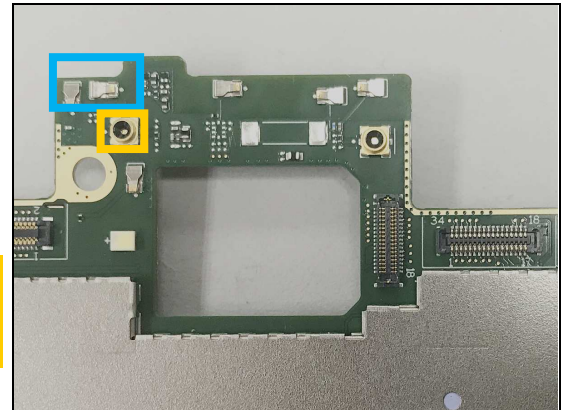
5

ANT3304, ANT3305

*Replace if mechanical damaged.*

*(No or bad WLAN/ BT/ GPS)*

*Protect the RF switch with capton tape!*

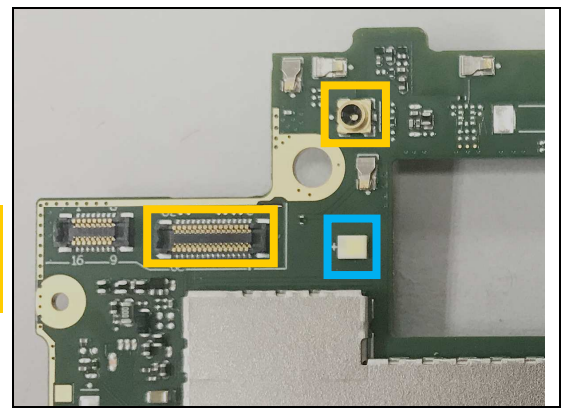


6

D2201

*Replace if Flash LED not working.*

*Protect the BtB connector and RF switch with capton tape!*



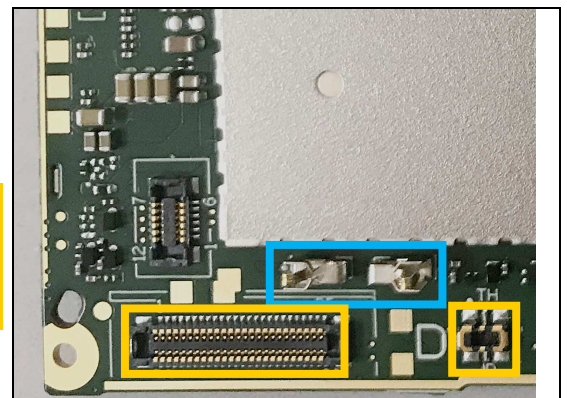
7

GP3401, GP3402

*Replace if mechanical damaged.*

*(No or bad NFC)*

*Protect the Battery and BtB connectors with capton tape!*



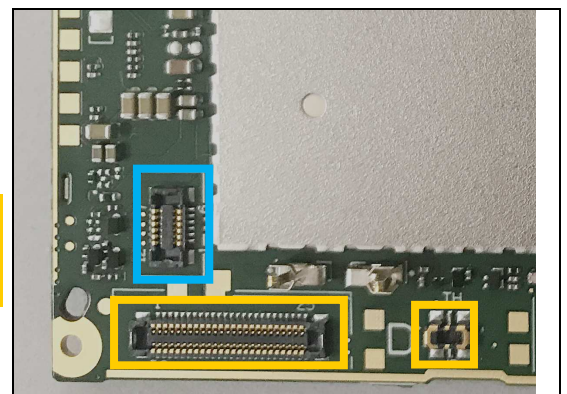
8

J3601

*Replace if mechanical damaged.*

*(Finger print not working)*

*Protect the BtB connectors with capton tape!*



## Repair Actions: Additional Repair Info

9

J3701

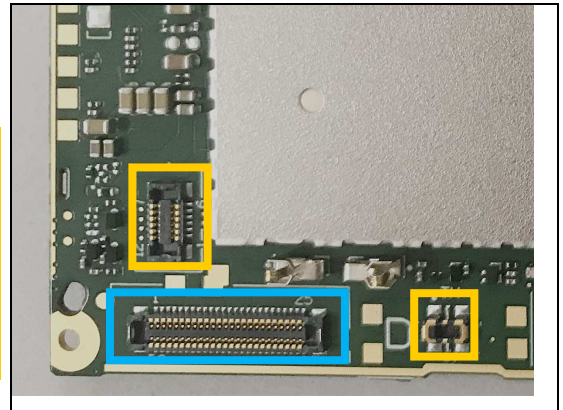
**Replace if mechanical damaged.**

**(Cannot Charge/ USB**

**data transfer error / Main mic not working /**

**Loudspeaker no sound / Keys not working properly and related symptoms)**

**Protect the Battery and BtB connectors with capton tape!**



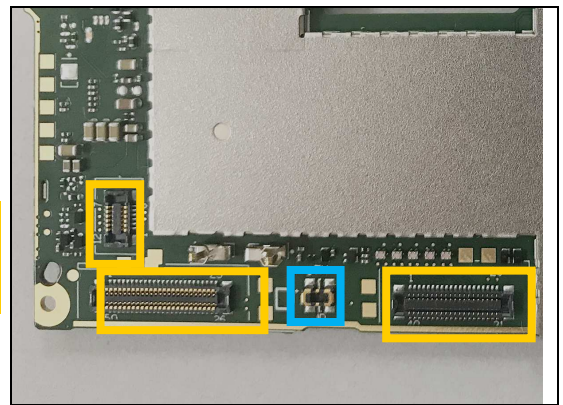
10

J3801

**Replace if mechanical damaged.**

**(Phone dead or power off)**

**Protect the BtB connectors with capton tape!**



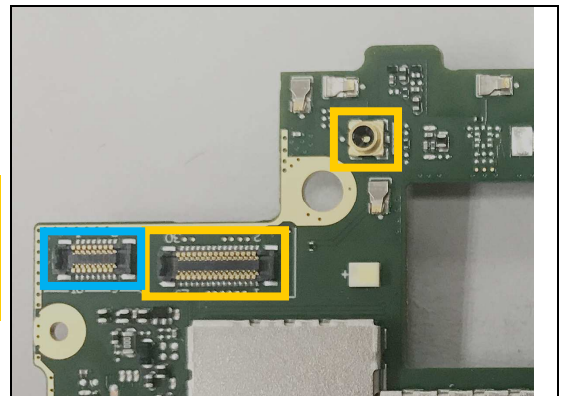
11

J3901

**Replace if mechanical damaged.**

**(No sound from headset / No FM radio)**

**Protect the RF switch and BtB connectors with capton tape!**



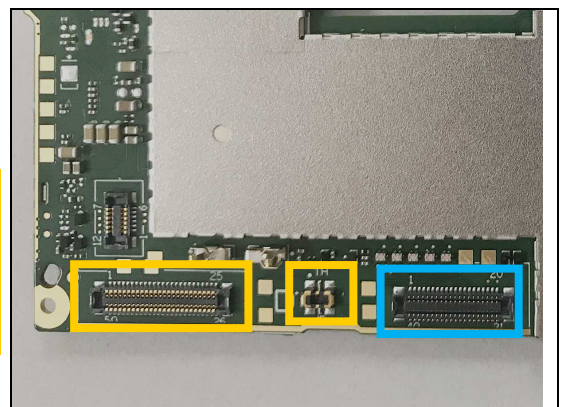
12

J4101

**Replace if mechanical damaged.**

**(Display abnormal or touch panel related symptoms)**

**Protect the Battery BtB and Display BtB connector with capton tape!**

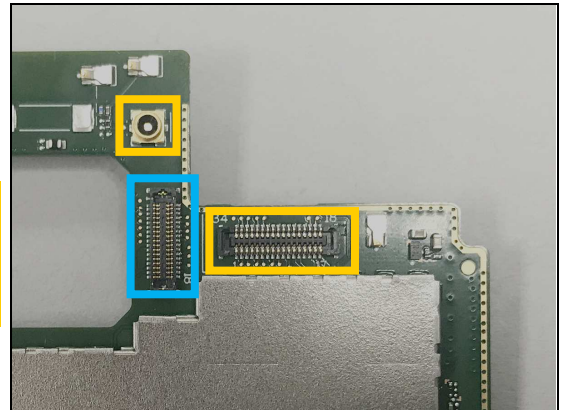


## Repair Actions: Additional Repair Info

**13**

**J4201**

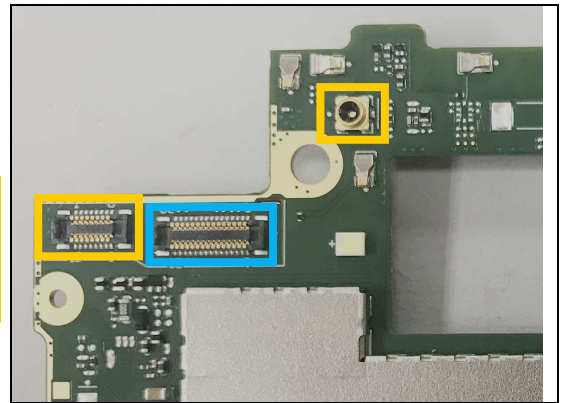
**Replace if mechanical damaged.**  
**(Main camera not working properly)**  
**Protect the RF switches and BtB connector with capton tape!**



**14**

**J4202**

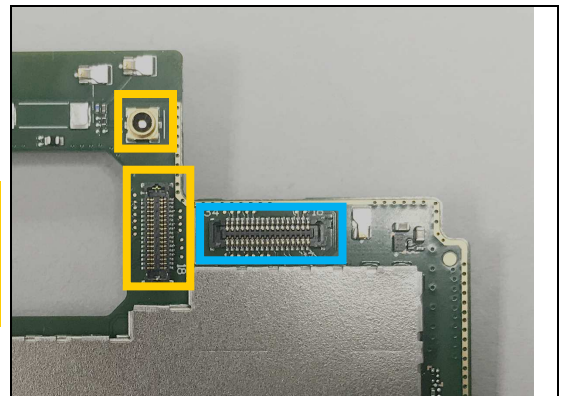
**Replace if mechanical damaged.**  
**(Front camera not working properly)**  
**Protect the RF switch and BtB connector with capton tape!**



**15**

**J4203**

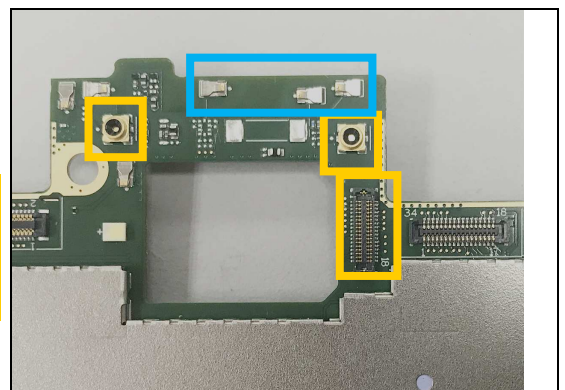
**Replace if mechanical damaged.**  
**(Wide-angle Front camera not working properly)**  
**Protect the RF switch and BtB connector with capton tape!**



**16**

**PAD3201, PAD3204, PAD3205**

**Replace if mechanical damaged.**  
**(Bad network, diversity Rx antenna)**  
**Protect the RF switches and BtB connector with capton tape!**





## Repair Actions: Additional Repair Info

17

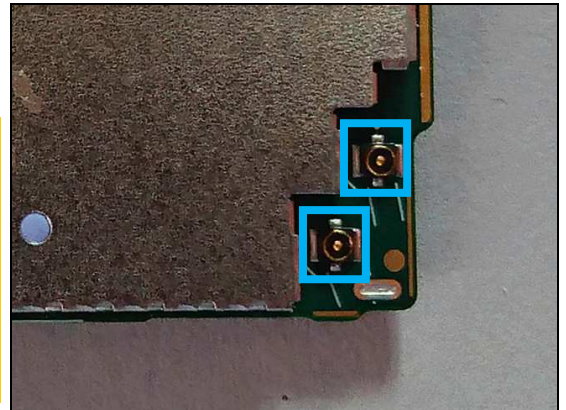
FJP3101, FJP3102

*Replace if mechanical damaged.*

*(Bad network, Main antenna)*

*Protect the other RF connector with capton tape if only replace one of them!*

*Note! The position number of the two RF connectors are different between H3113/H3133/H4113/H4133 and H3123, please refer to 'Component Placing-secondary side' for more details.*





## 5 Revision History

Rev.	Date	Changes / Comments
1	2018-Jan-12	Release