

8. Level 3 Repair

9-1. Battery Replacement

→ Whenever the battery should be changed from broken one to new one, "Battery accumulation usage-amount initialization" should be done like below.

9-1-1. Required items in order to repair battery

- SM-A500F/G/H Mobile Phone
- SM-A500F/G/H Battery
- PC
- JIG BOX (GH81-11888A)
- JIG Cable (GH81-10952A)
- Serial Cable

※ Settings



Connect ANYWAY JIG
with JIG CABLE (Phone to JIG)
and PC to Anyway JIG Using Serial cable



9-1-2. Battery replacement procedure.

- To Be Determined soon.

9-1. Speaker module Replacement

→ Whenever speaker module should be changed from broken one to new one, "SPK calibration" should be done like below.

9-1-1. Required items in order to repair speaker module

- SM-A500F/G/H Mobile Phone
- SM-A500F/G/H Speaker module
- PC
- Earphone
- JIG BOX (GH81-11888A)
- JIG Cable (GH81-10952A)
- Serial Cable



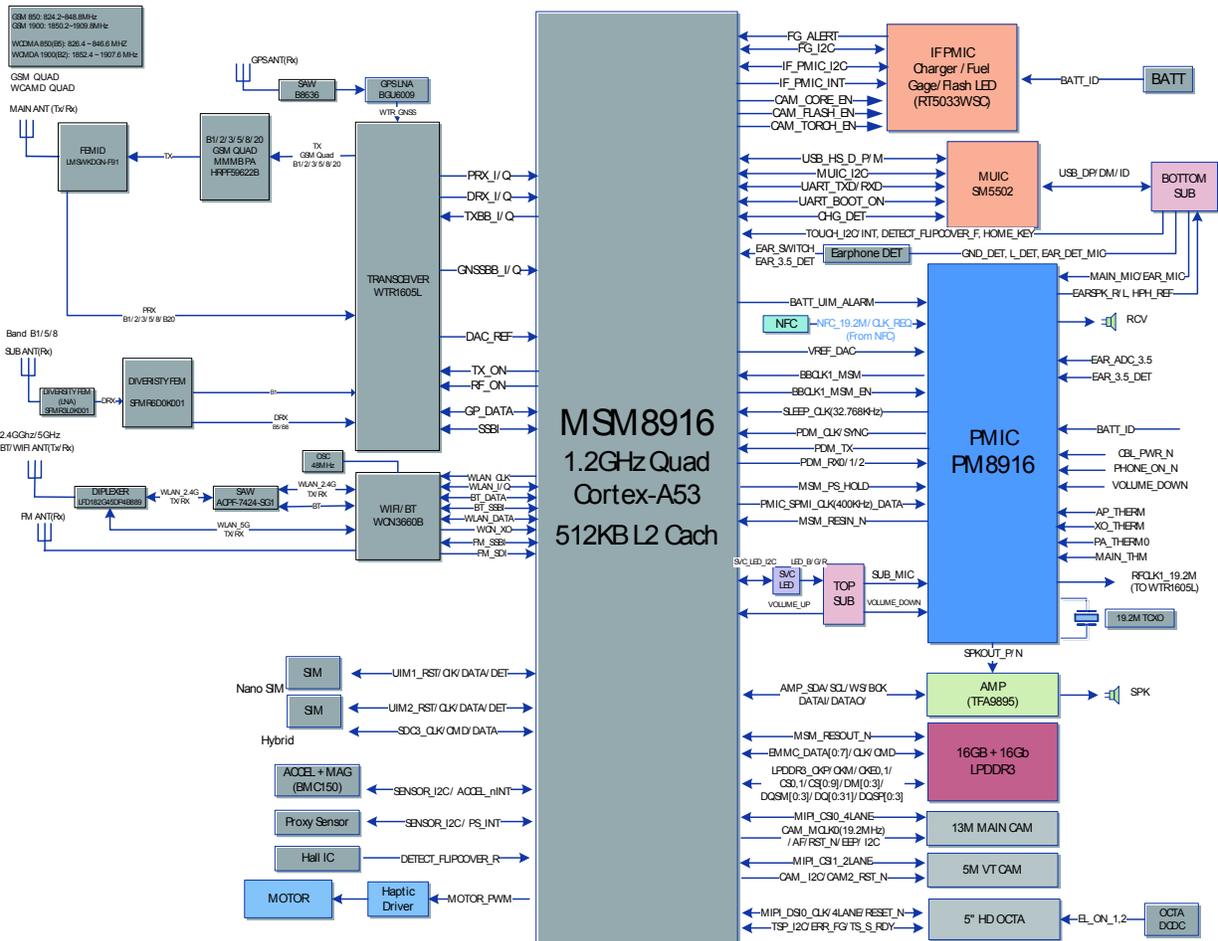
Connect ANYWAY JIG
with JIG CABLE (Phone to JIG)
and PC to Anyway JIG Using Serial cable



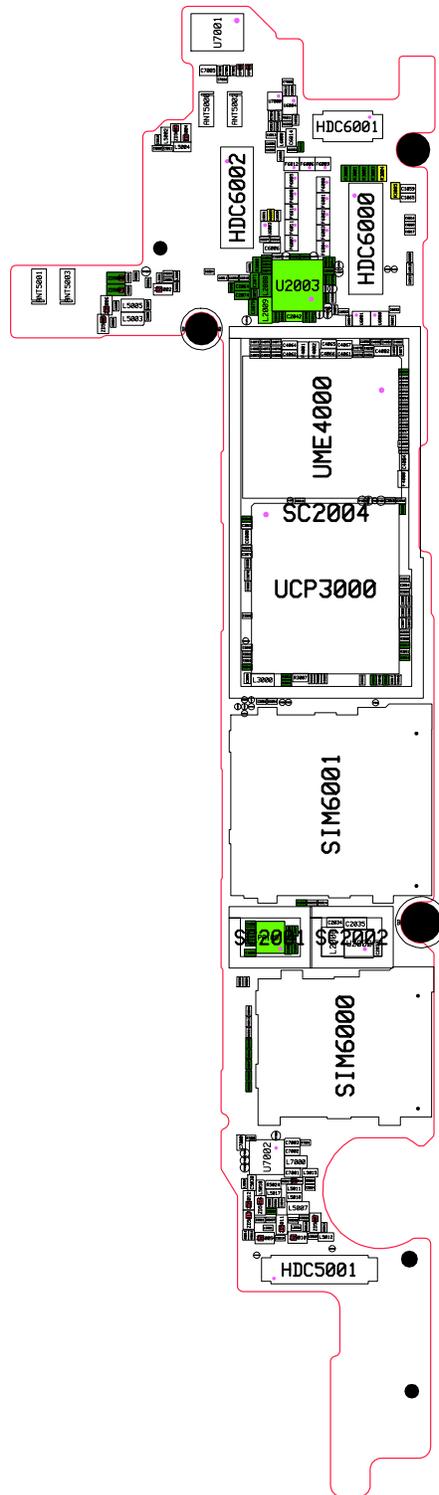
9-1-2. Speaker module replacement procedure.

- To Be Determined soon.

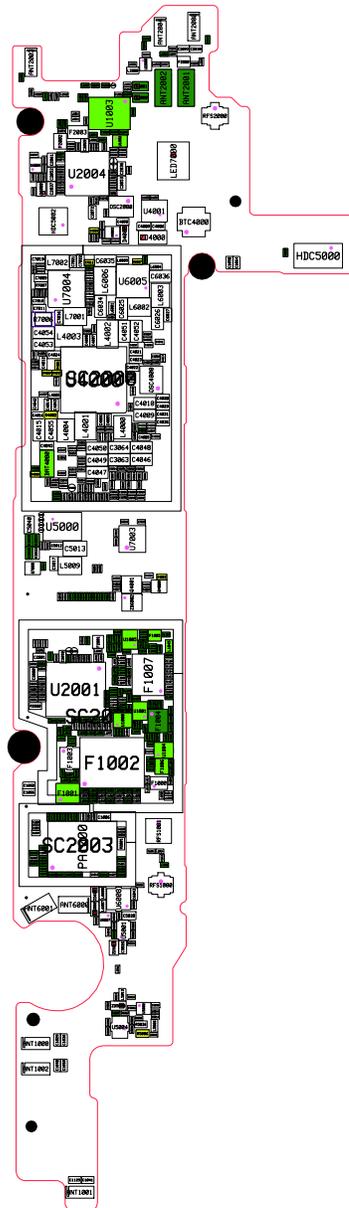
8-1. Block Diagram



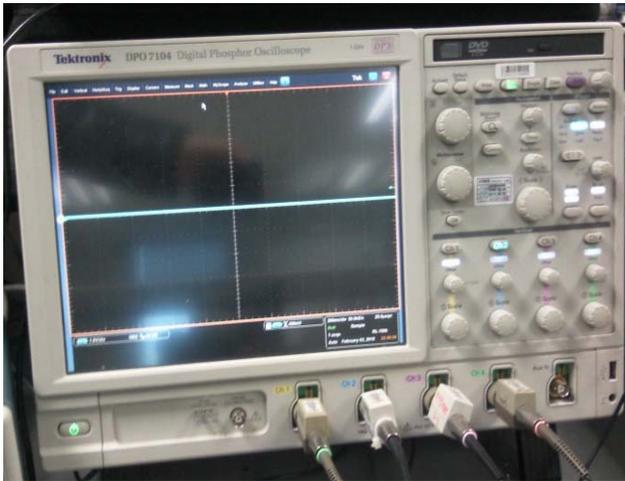
8-2. PCB Diagrams
8-2-1. Main PCB Top



8-2-2. Bottom



8-2-3. Equipments



↑ Oscilloscope



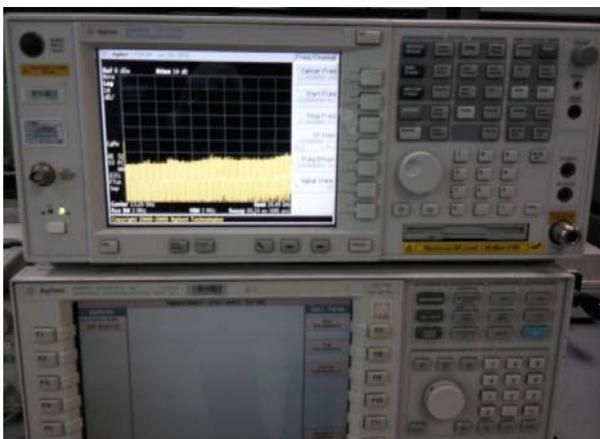
↑ Digital Multimeter



↑ Power Supply



↑ + driver, ESD Safe Tweezer



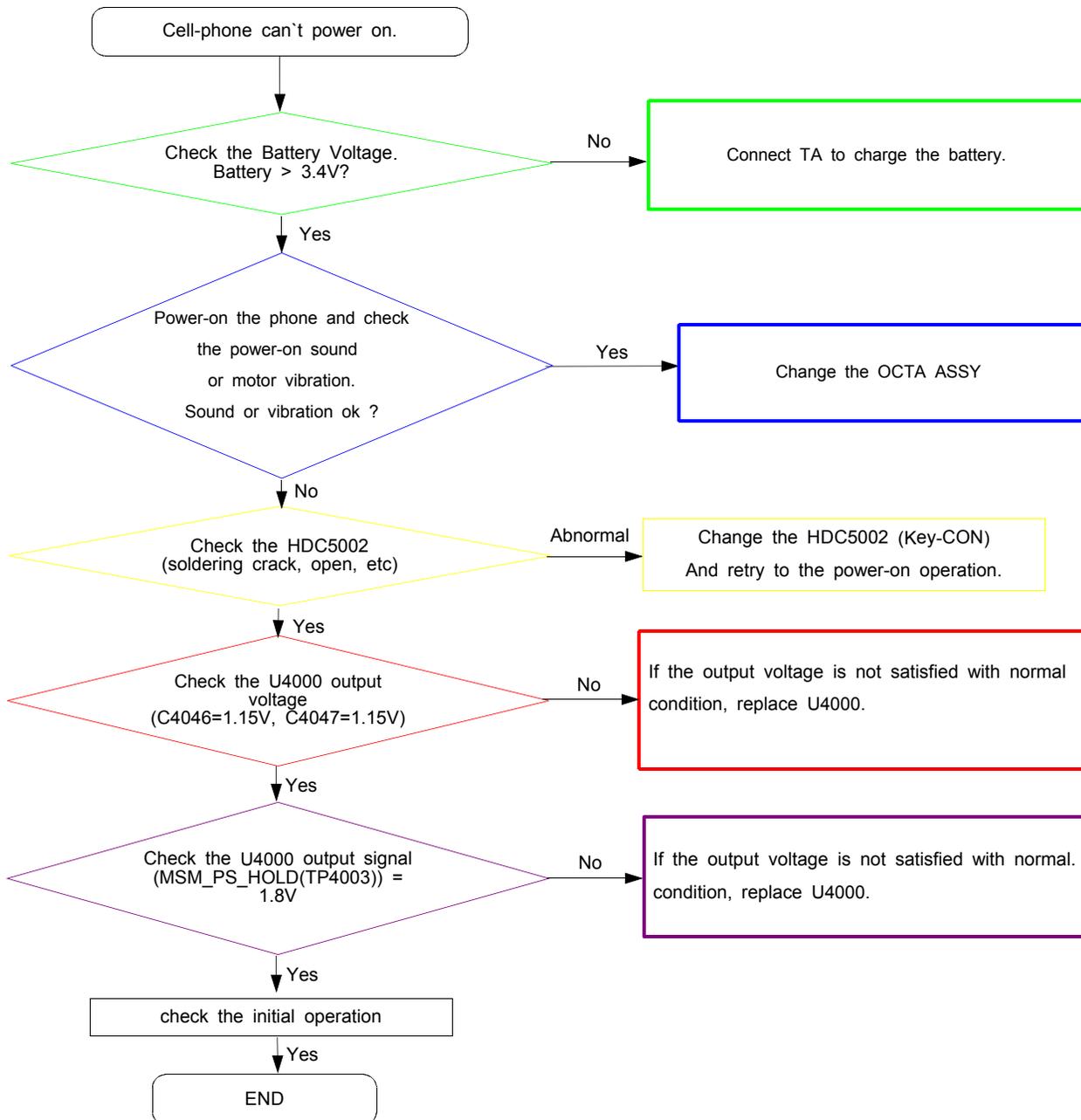
↑ 8960 & Spectrum Analyzer



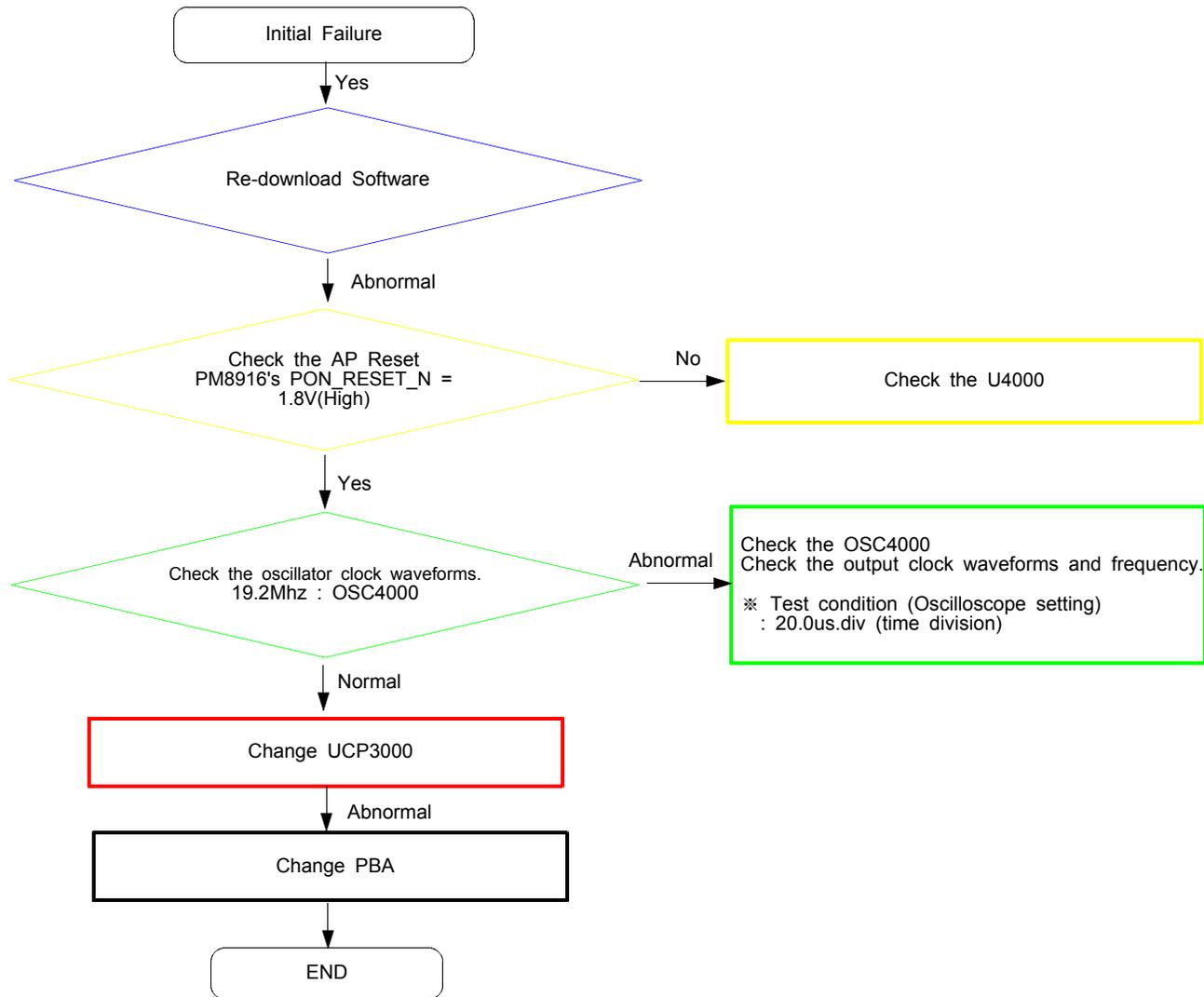
↑ Soldering iron

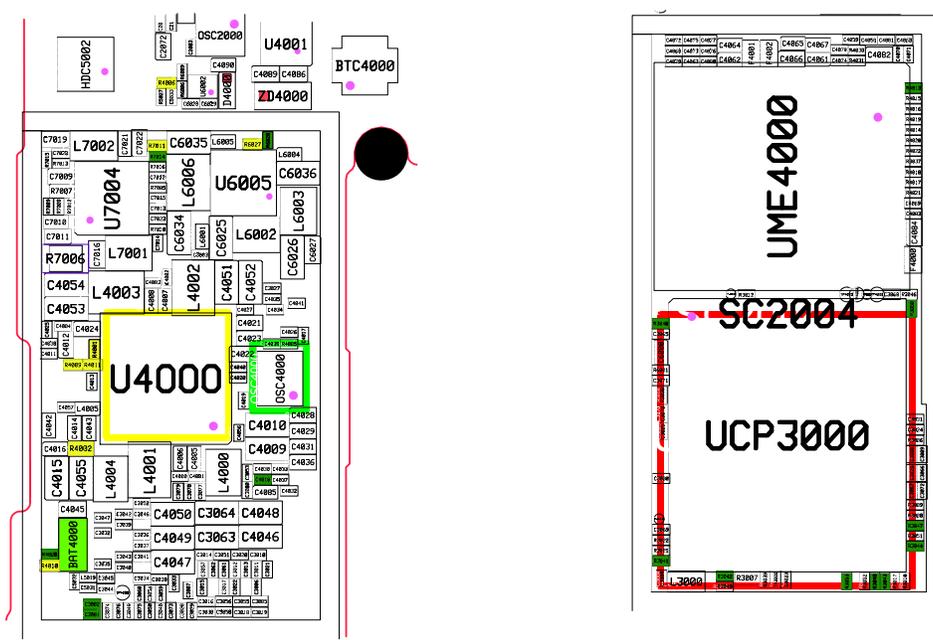
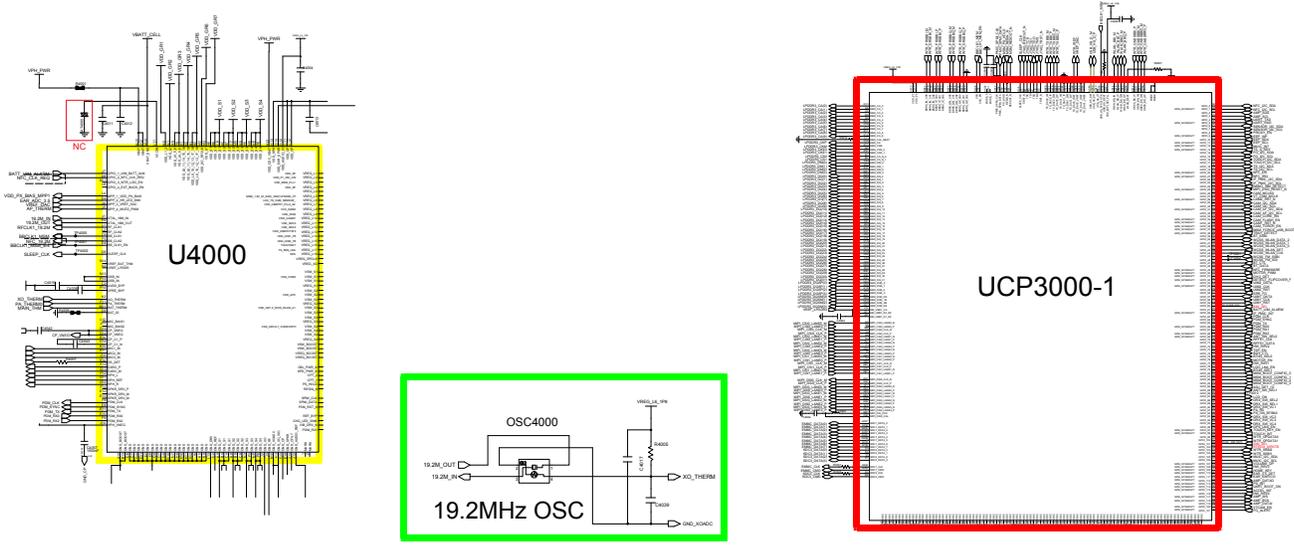
8-3. Flow Chart of Troubleshooting

8-3-1. Power On

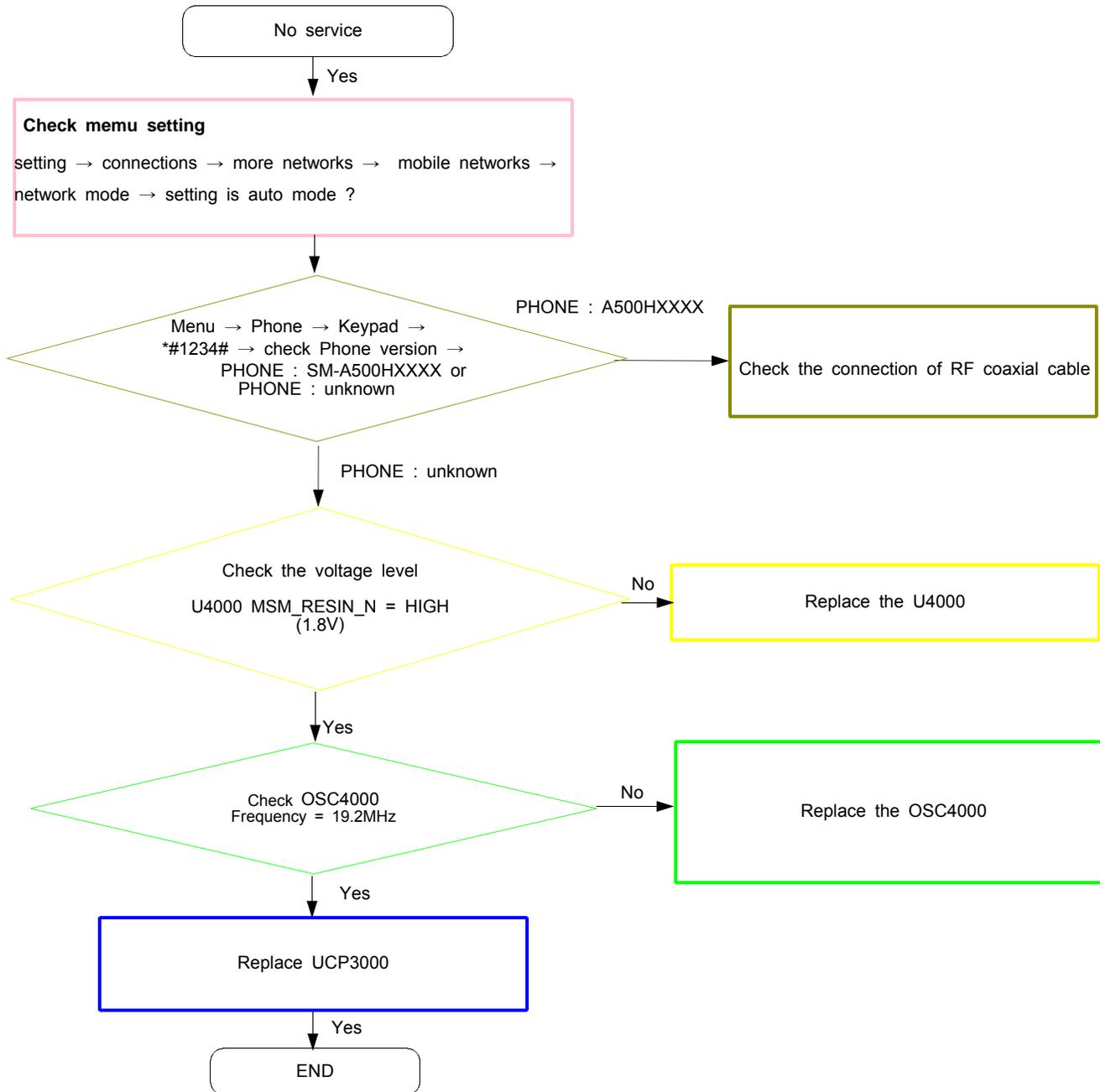


8-3-2. Initial

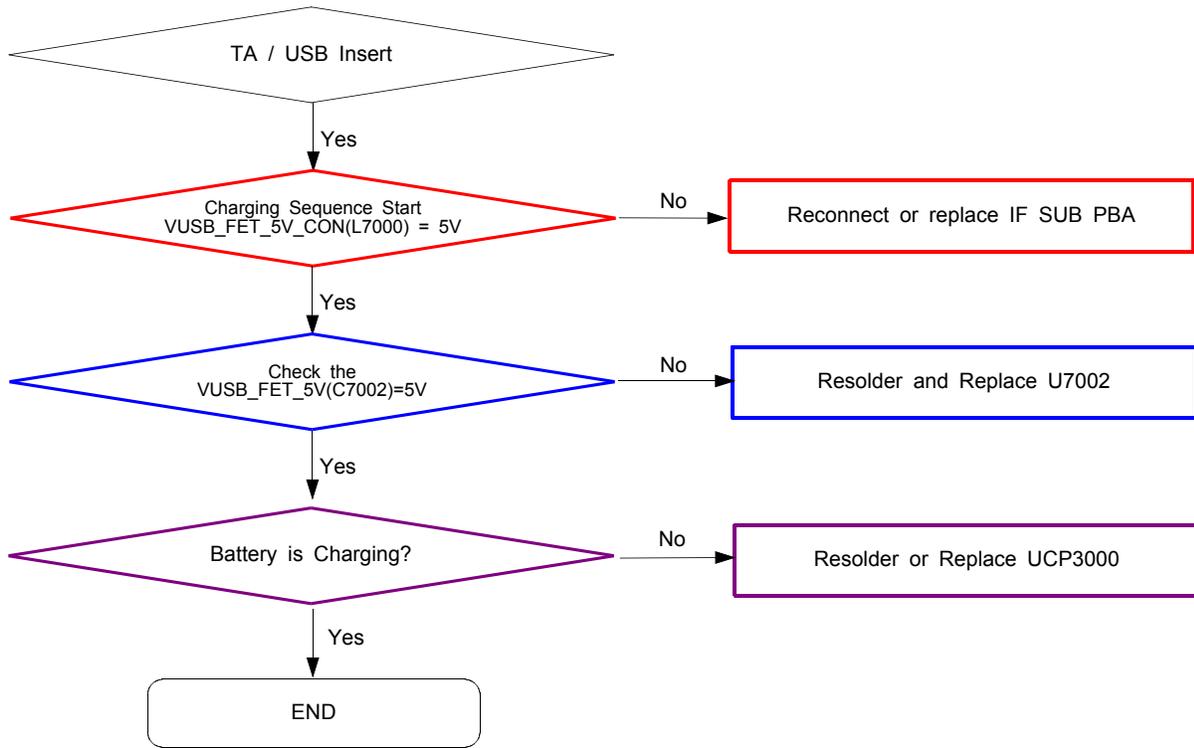




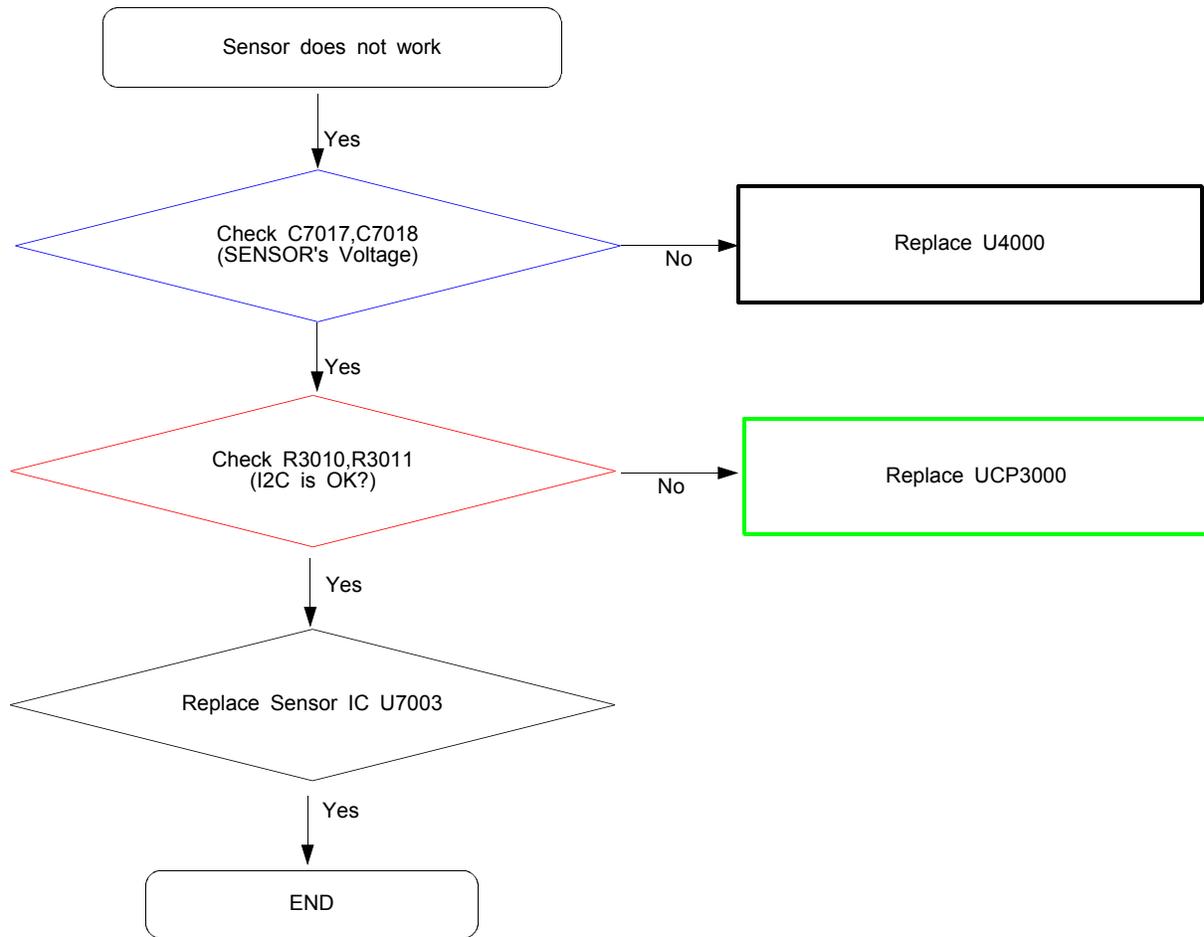
8-3-3. No Service



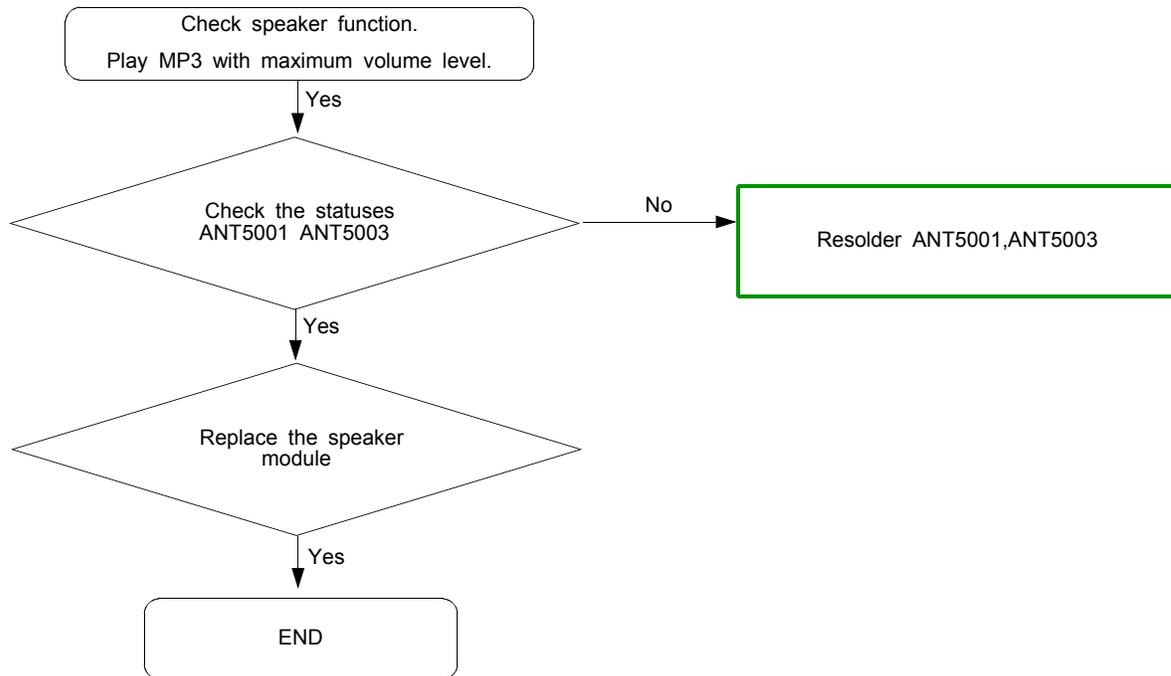
8-3-6. Charging Part



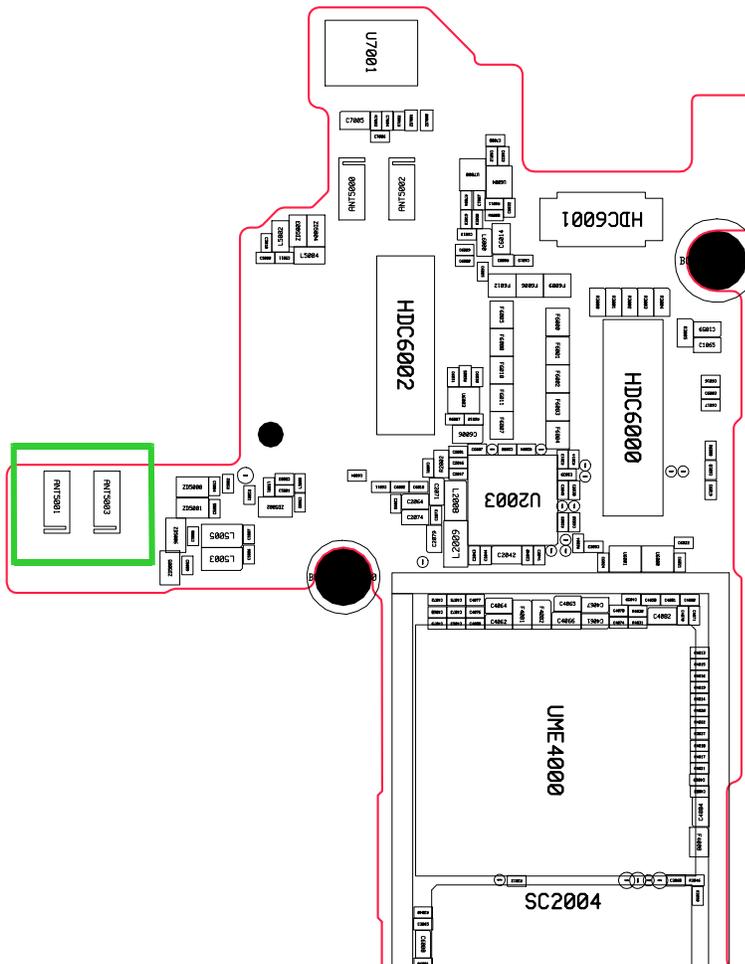
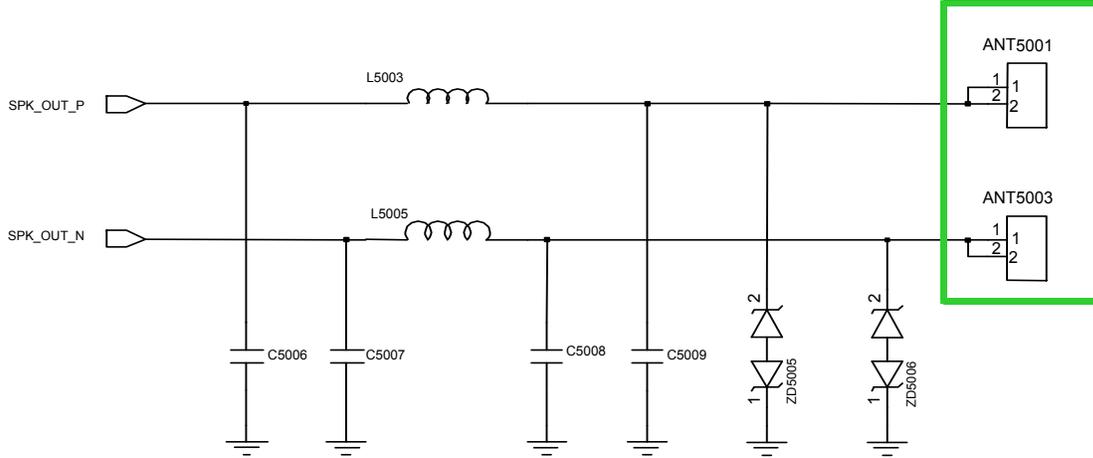
8-3-7. 6Axes Sensor



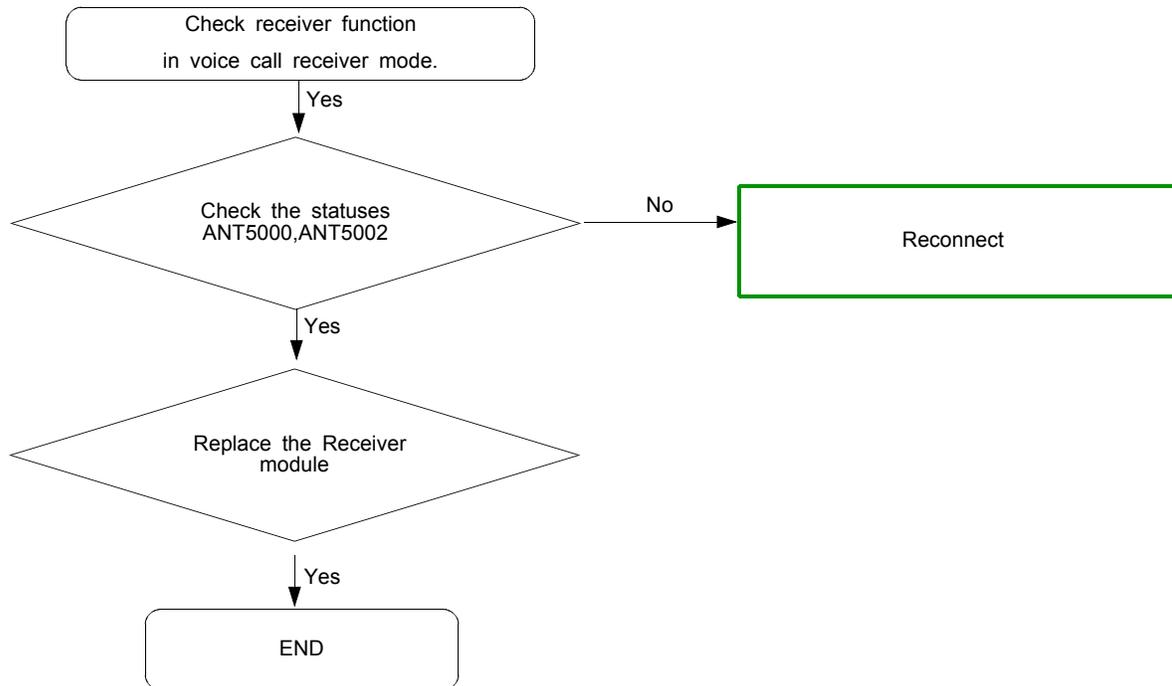
8-3-8. Speaker Part

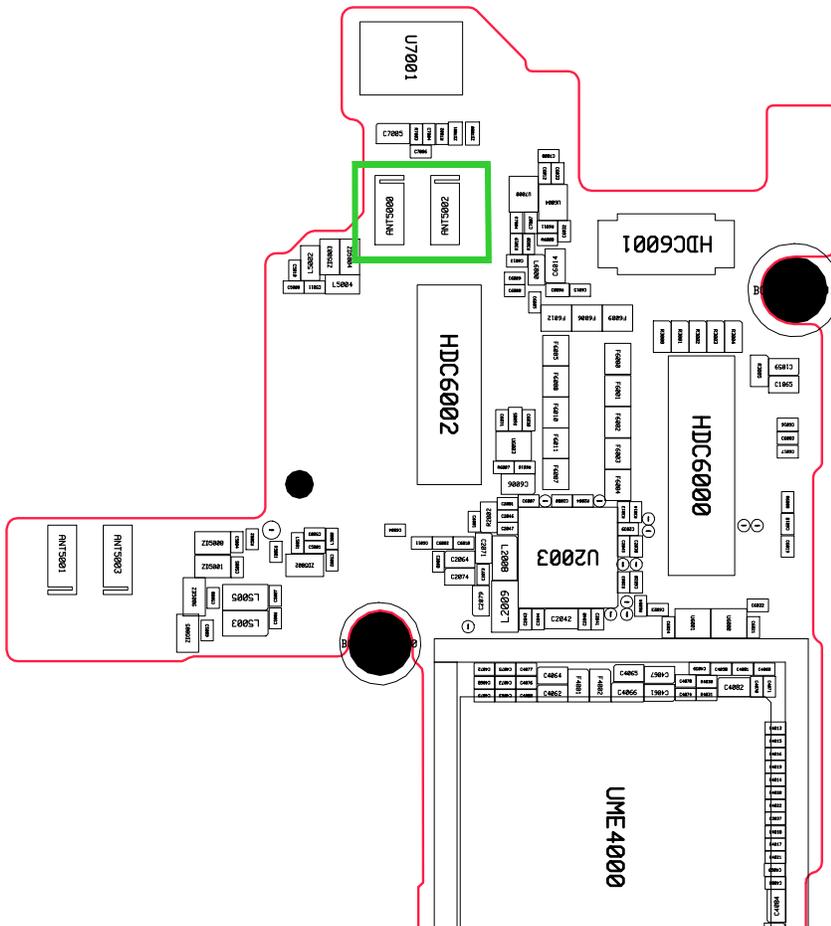
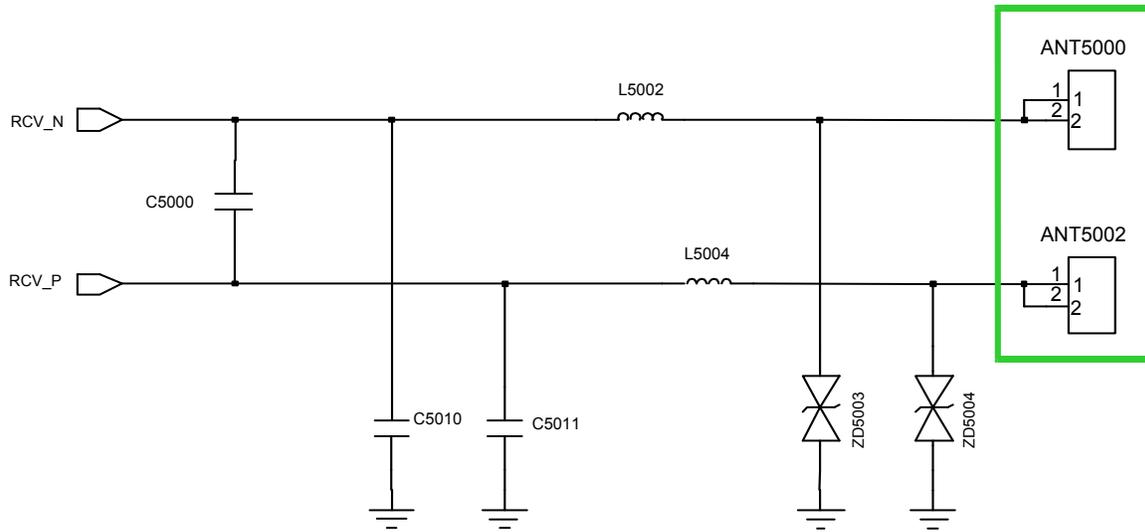


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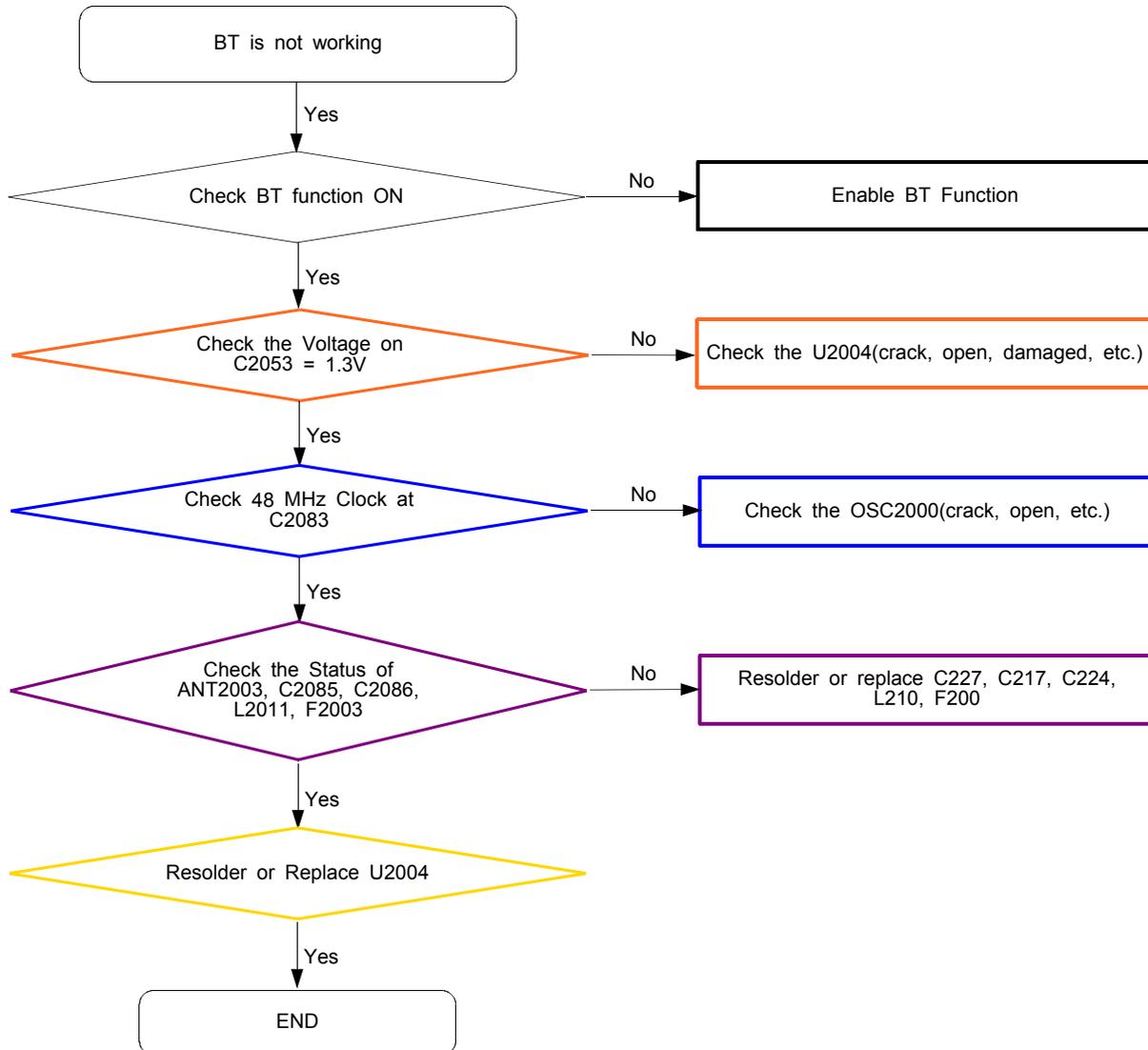


8-3-9. Receiver Part

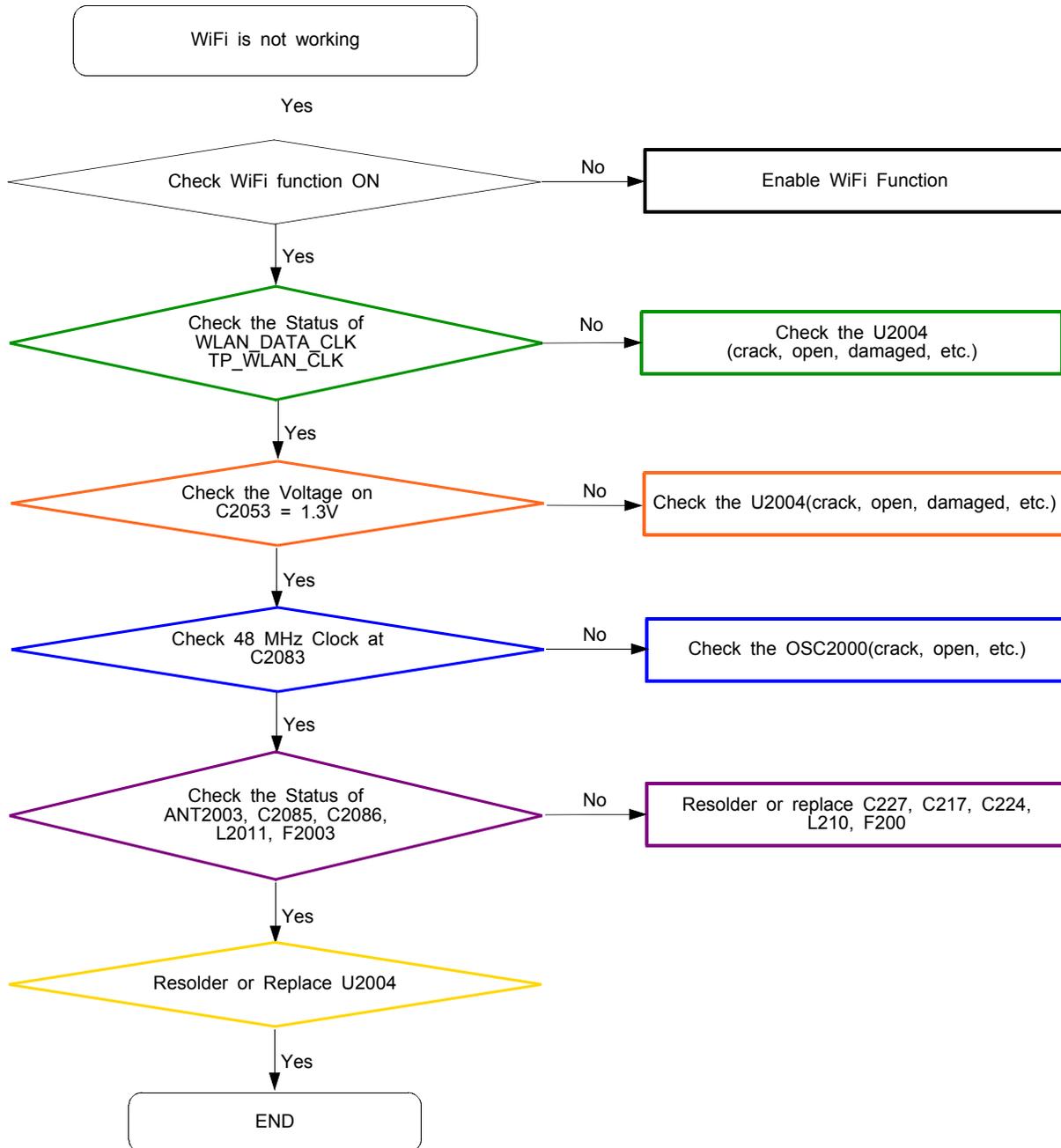




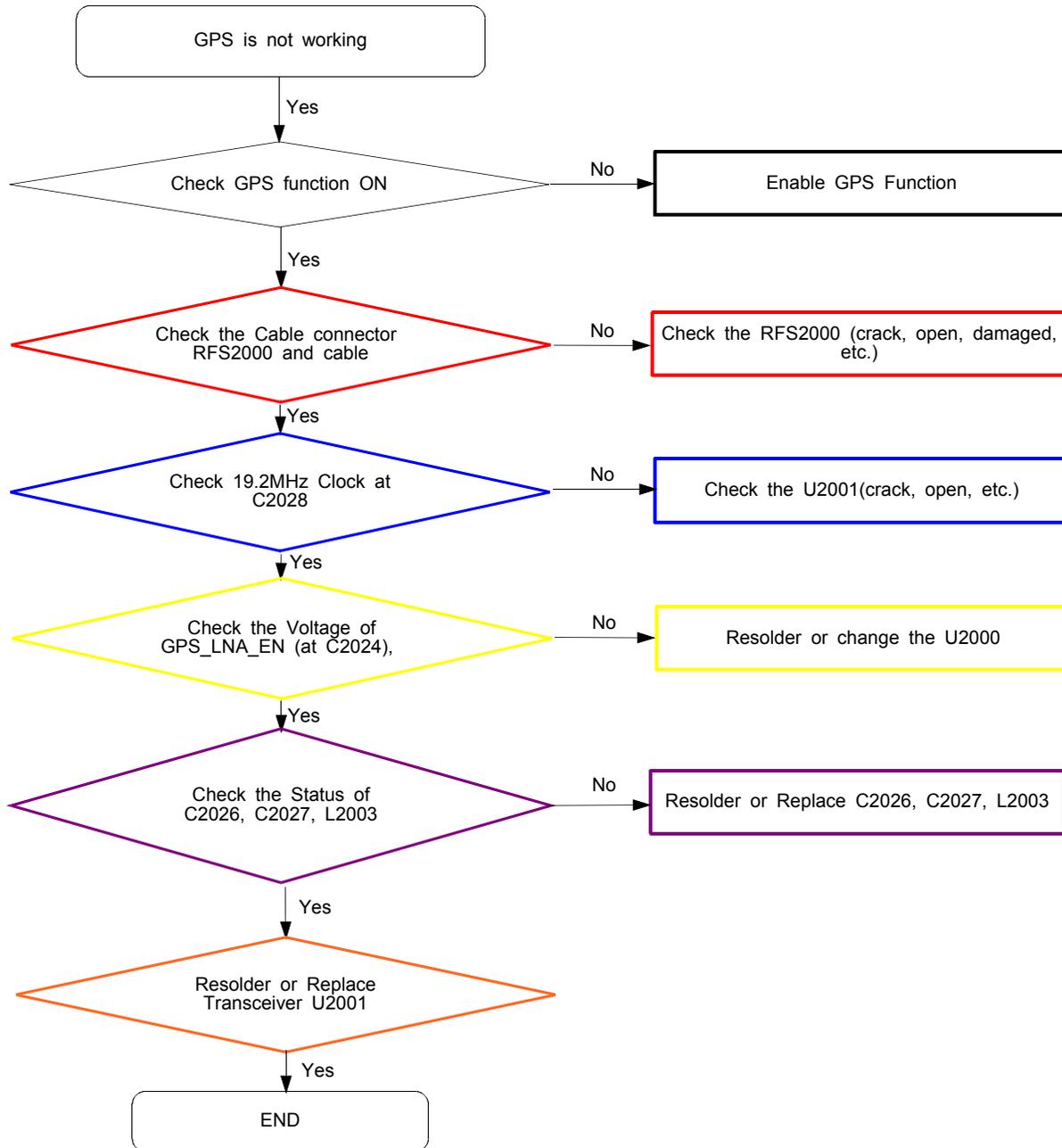
8-3-6. BT Part

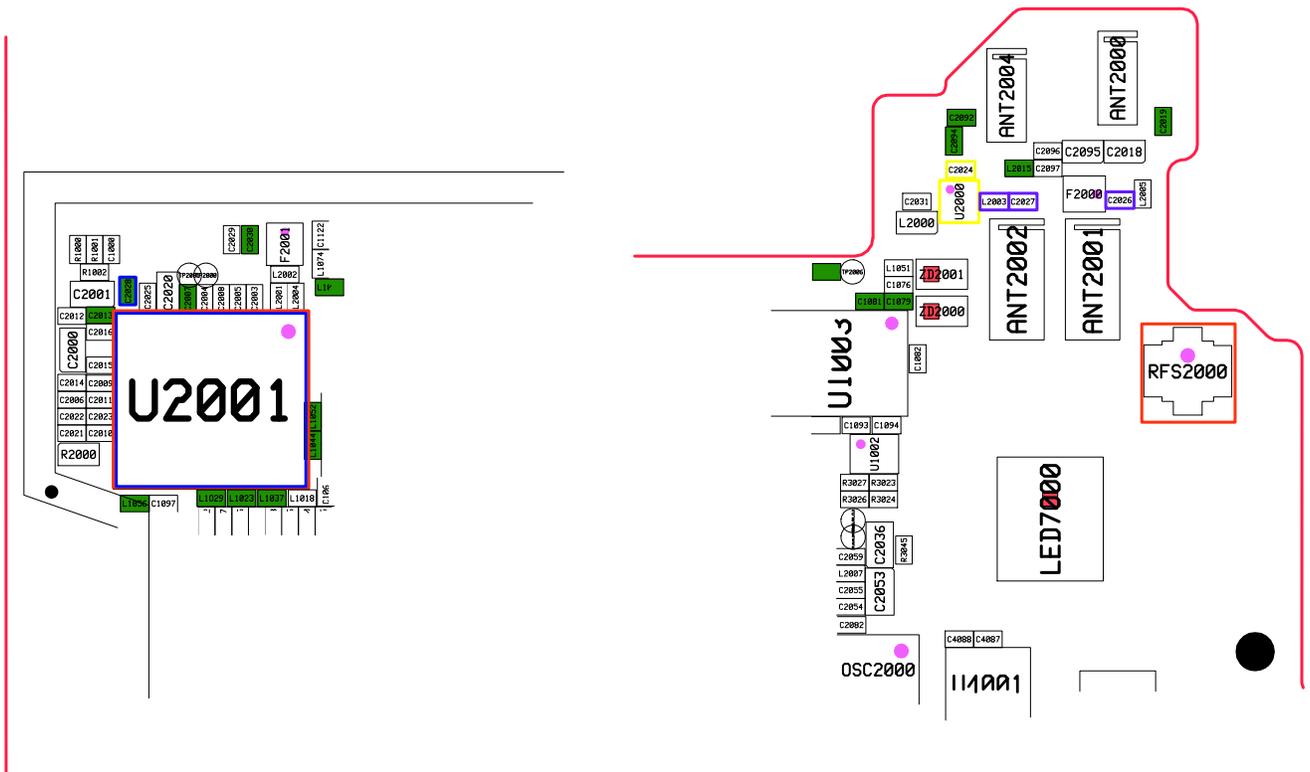
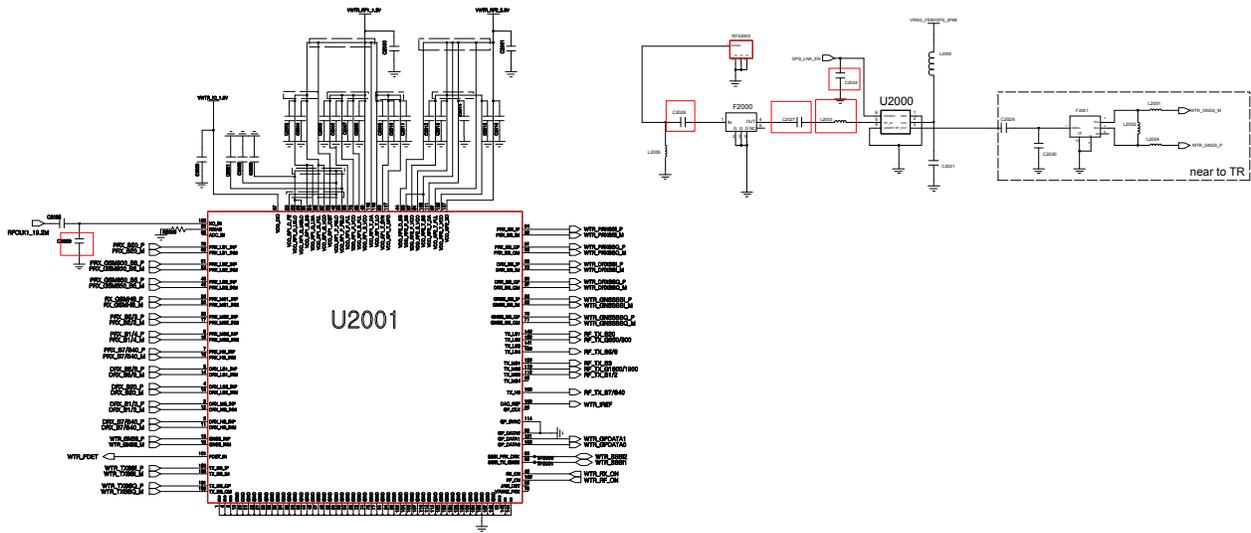


8-3-7. WIFI Part

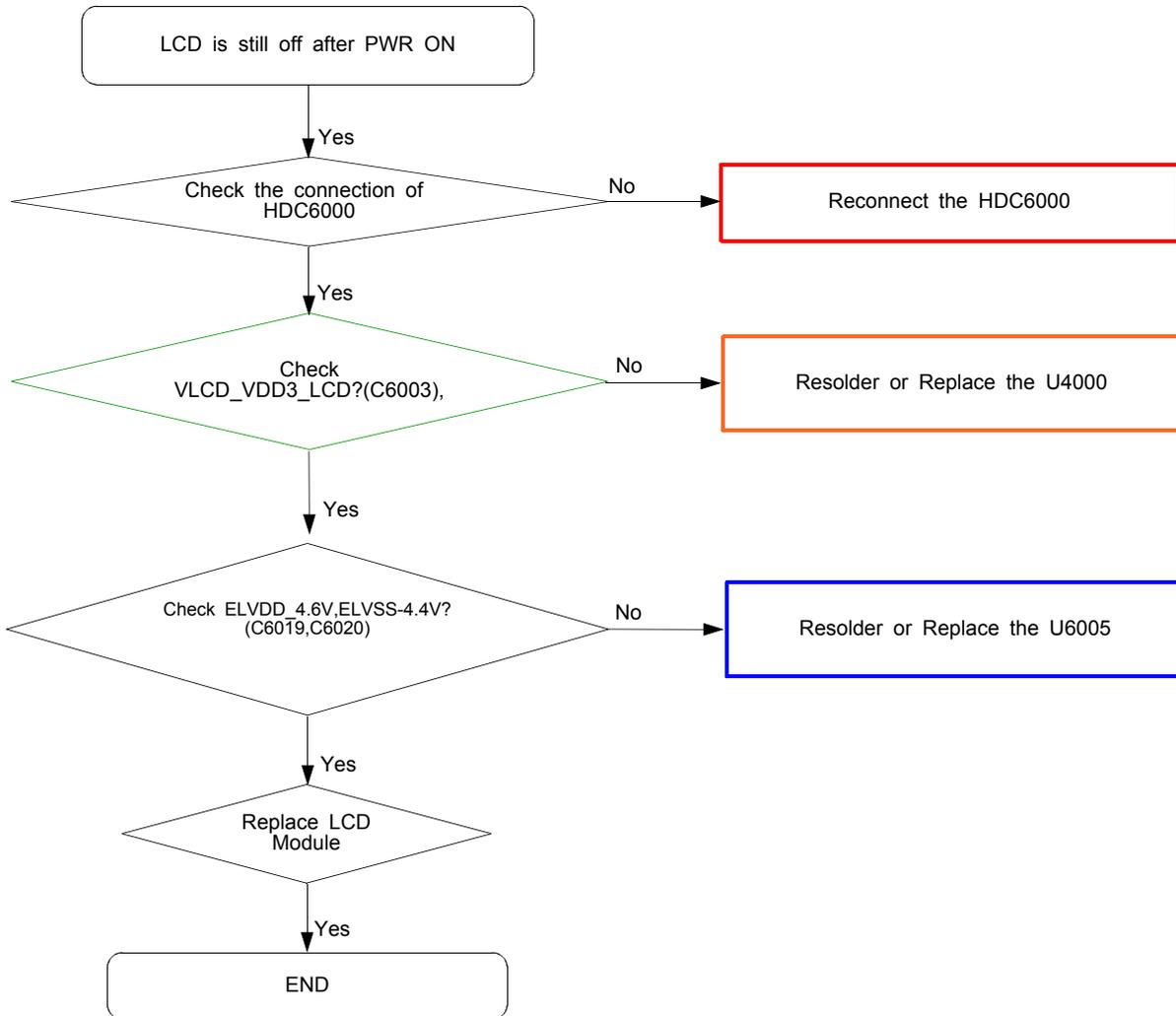


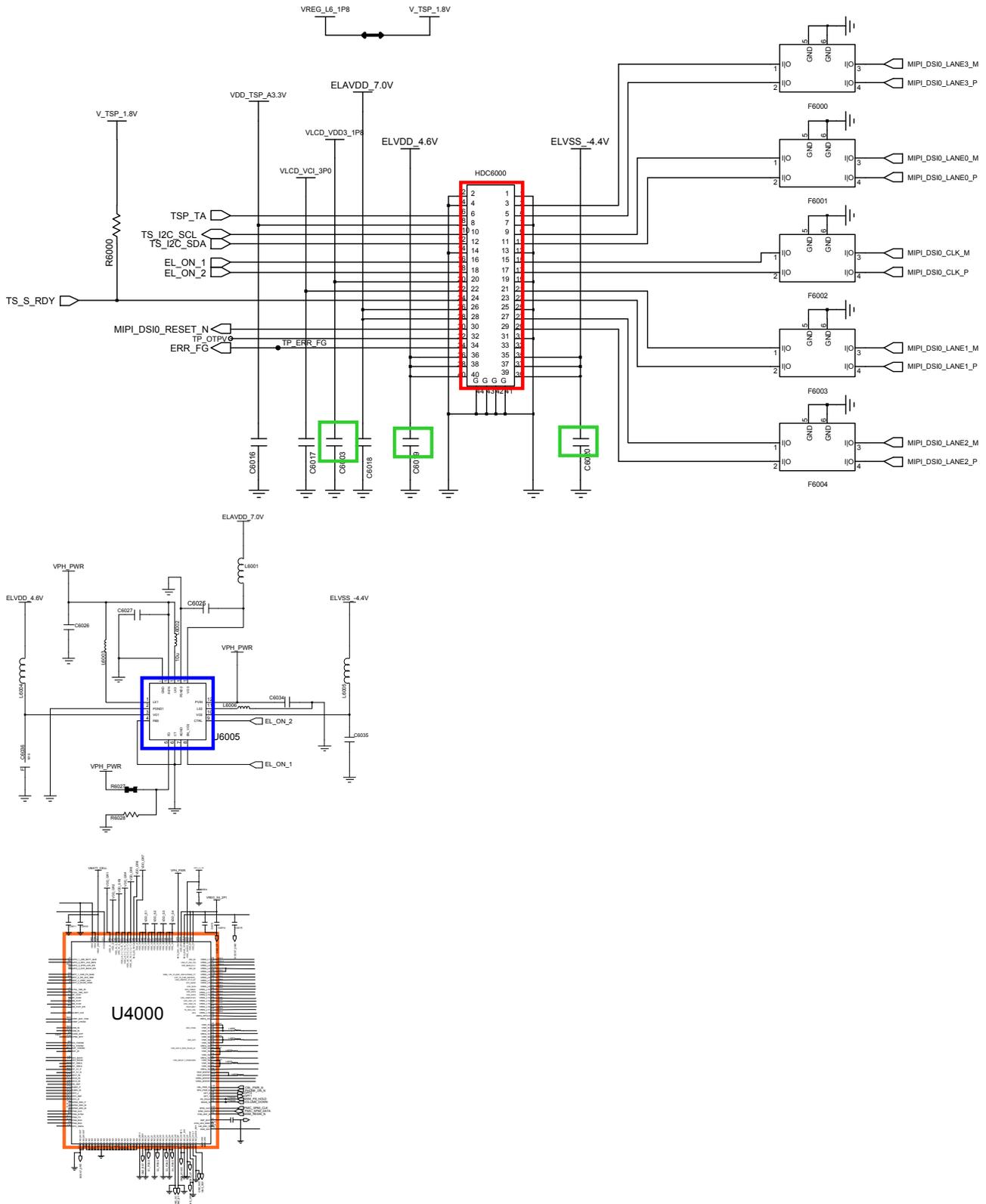
8-3-8. GPS Part



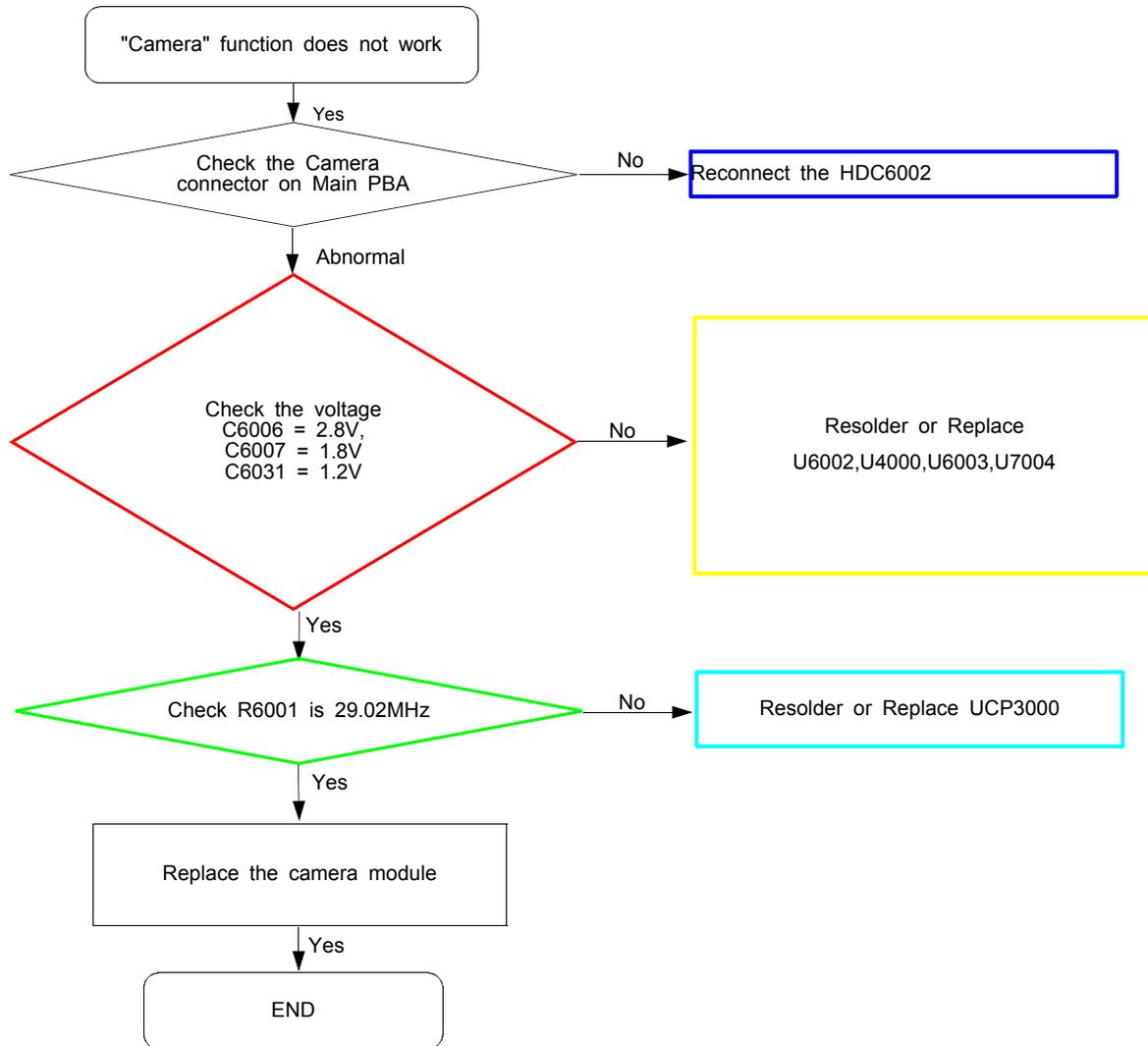


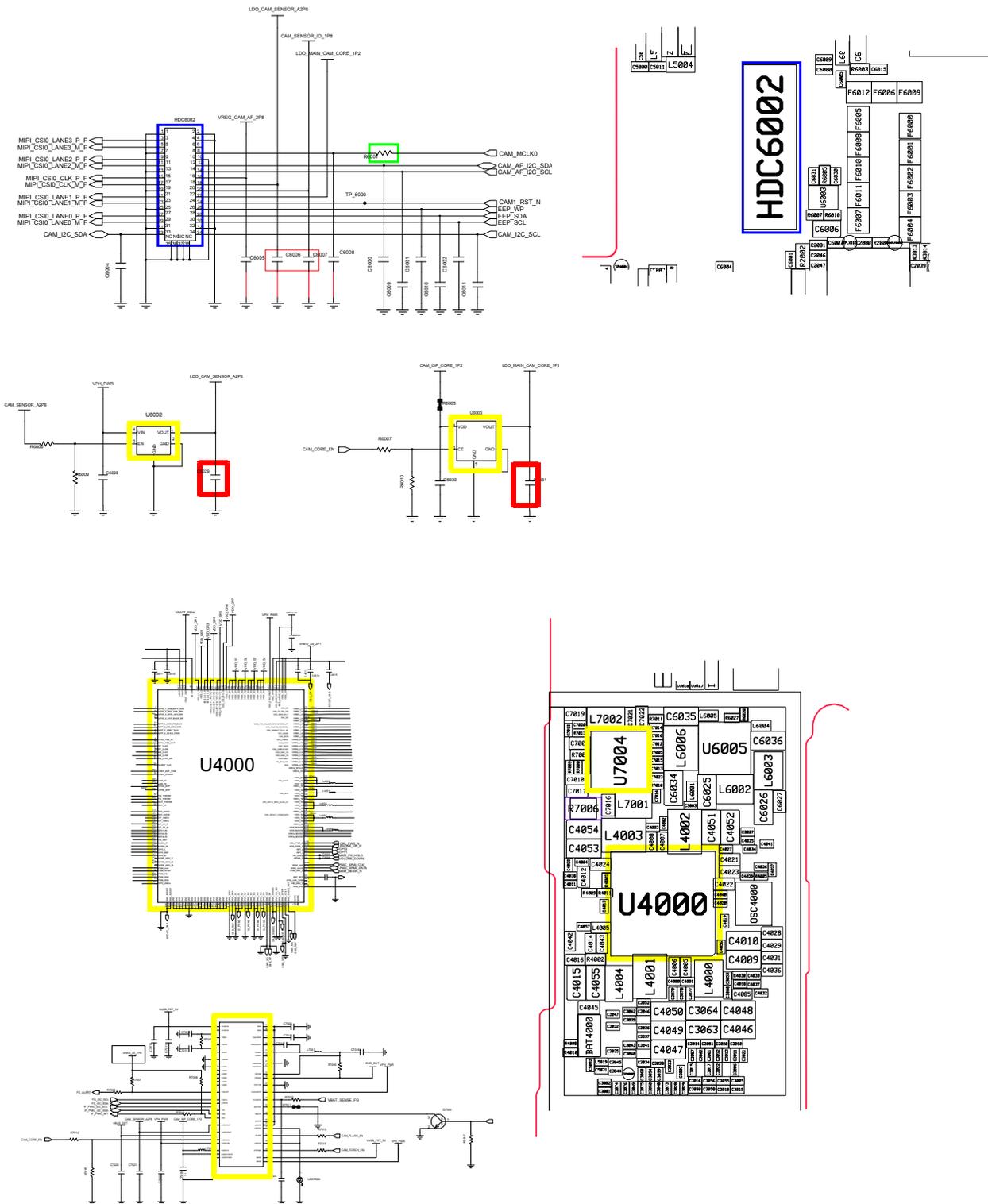
8-3-12. LCD

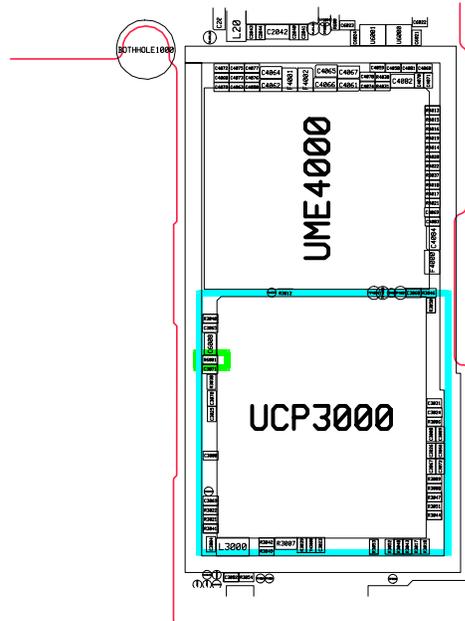
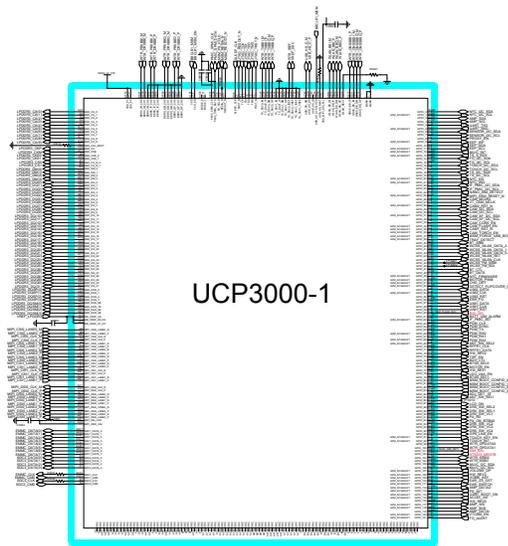




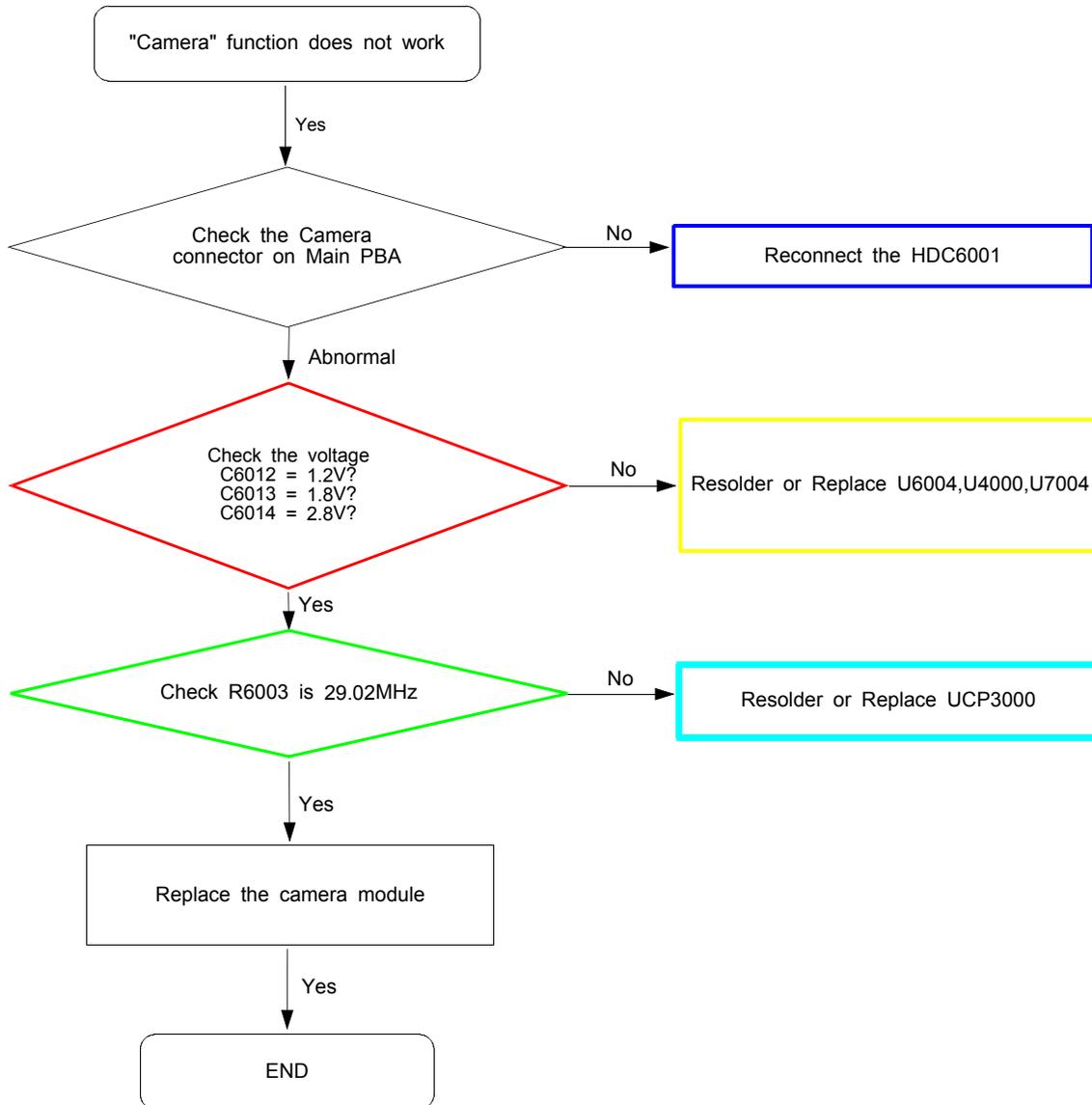
8-3-13. 13M CAM



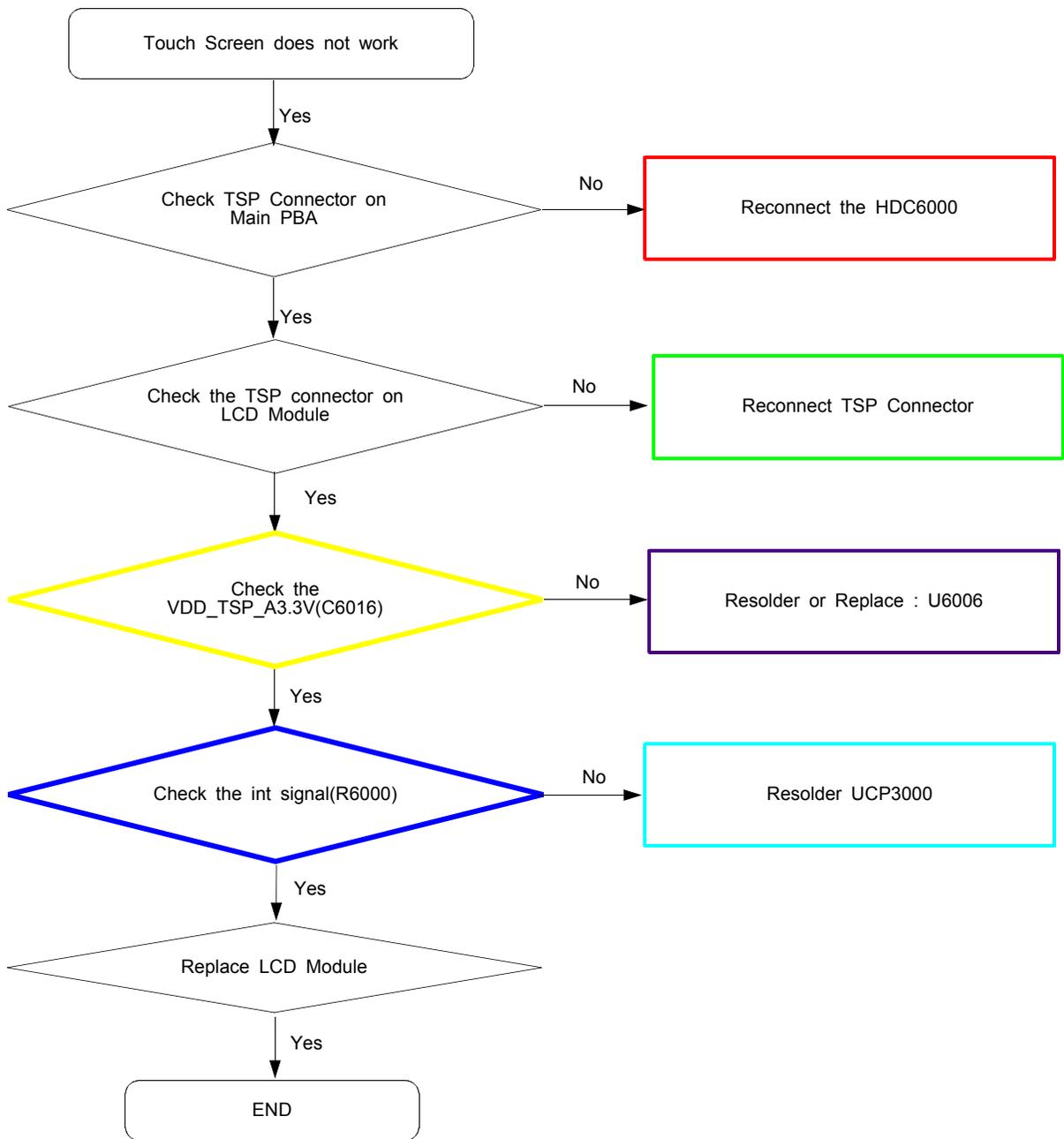


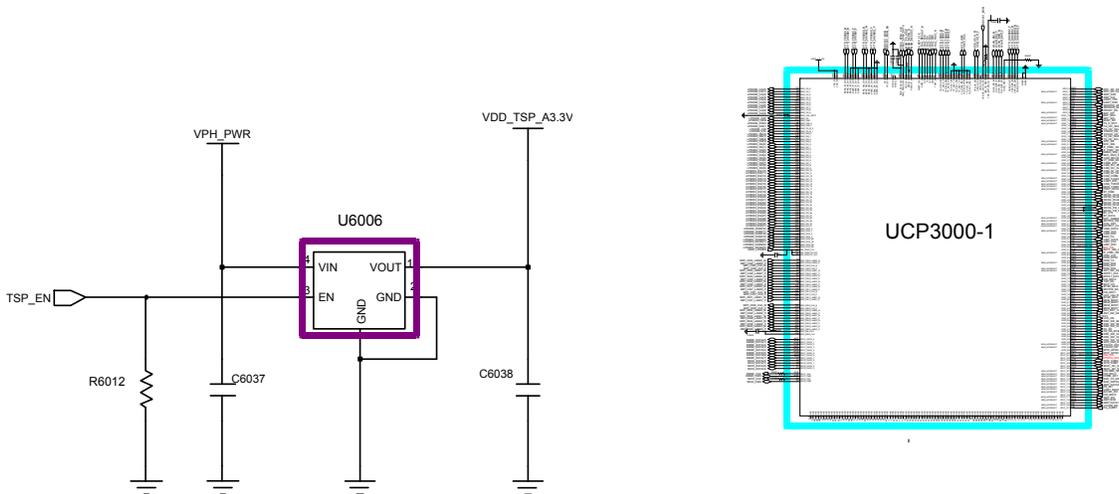
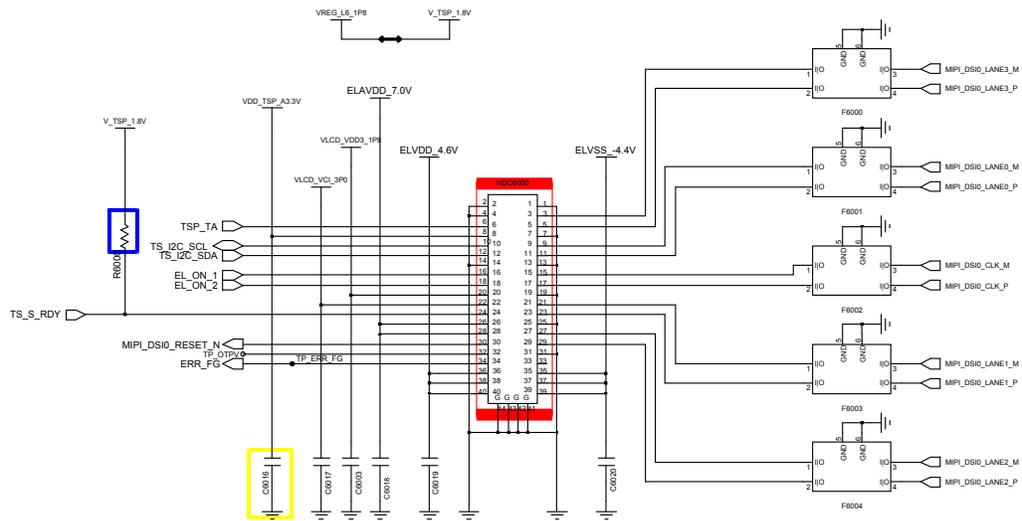


8-3-14. VT CAM

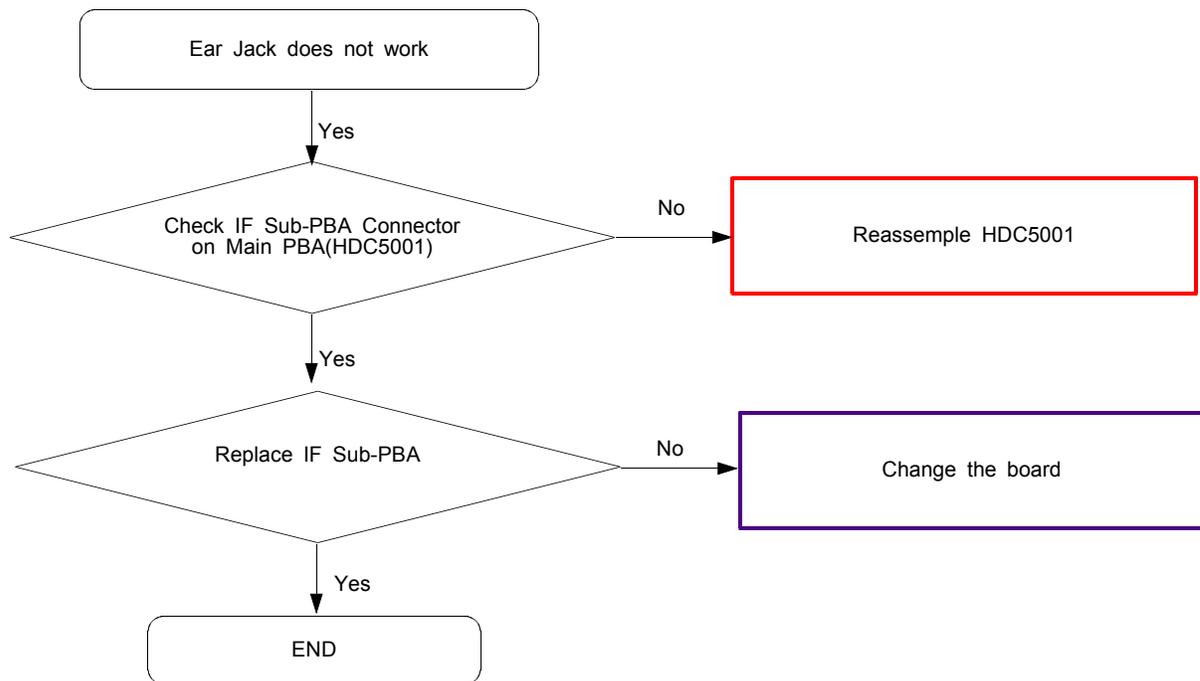


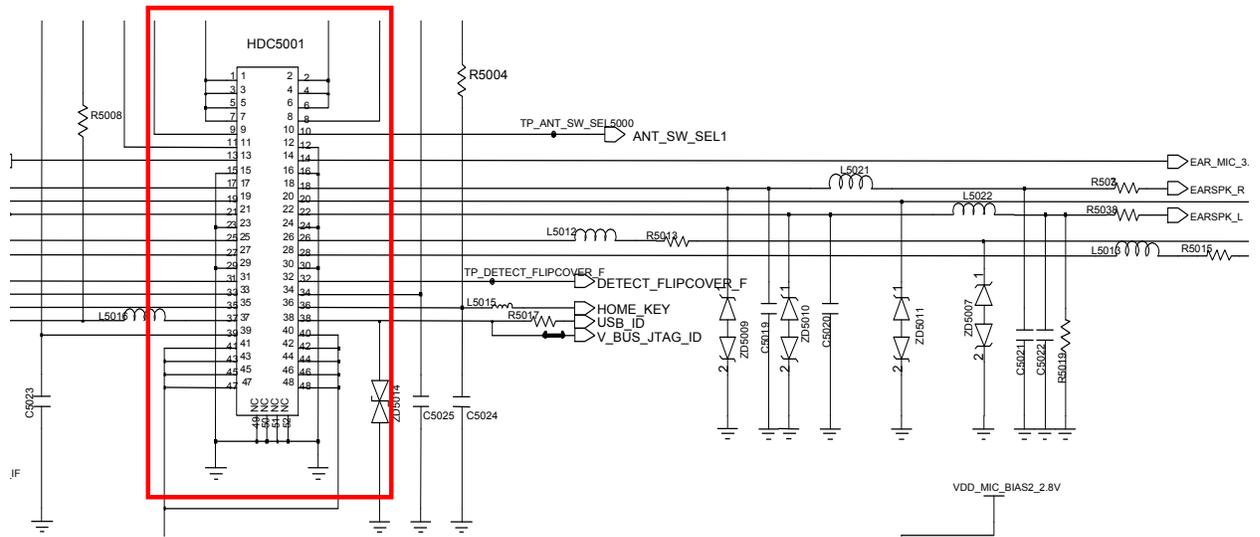
8-3-15. TSP



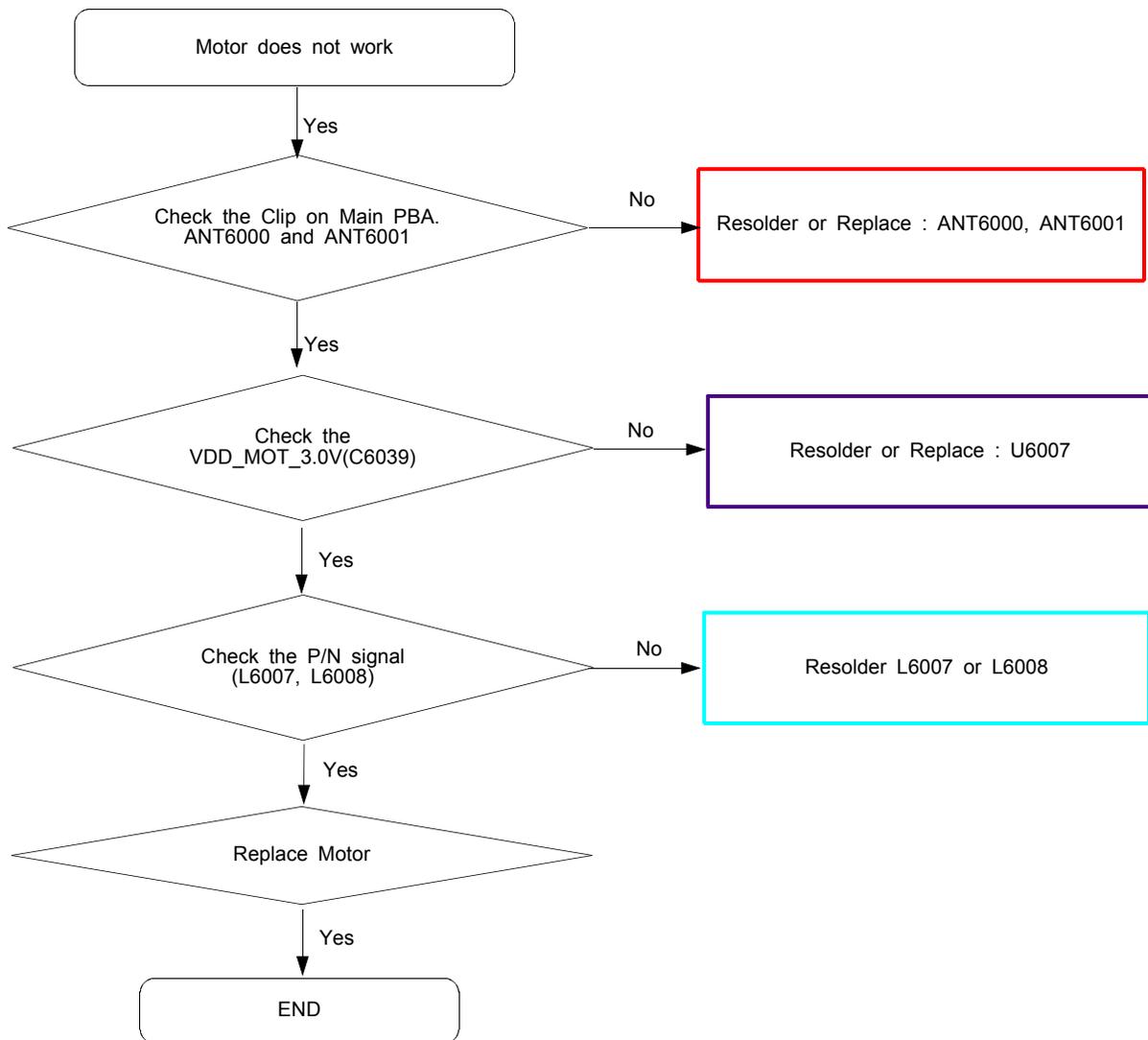


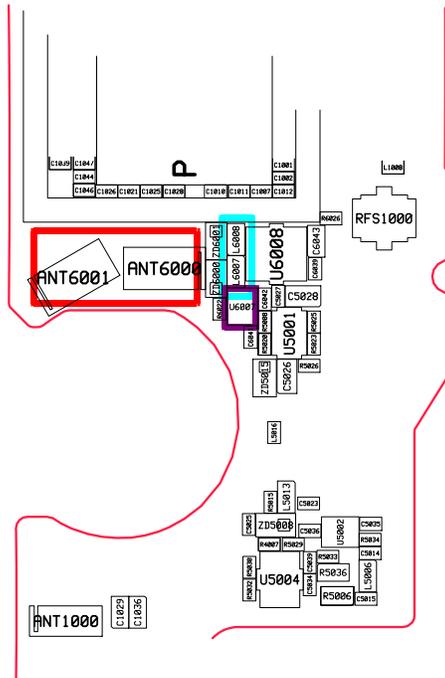
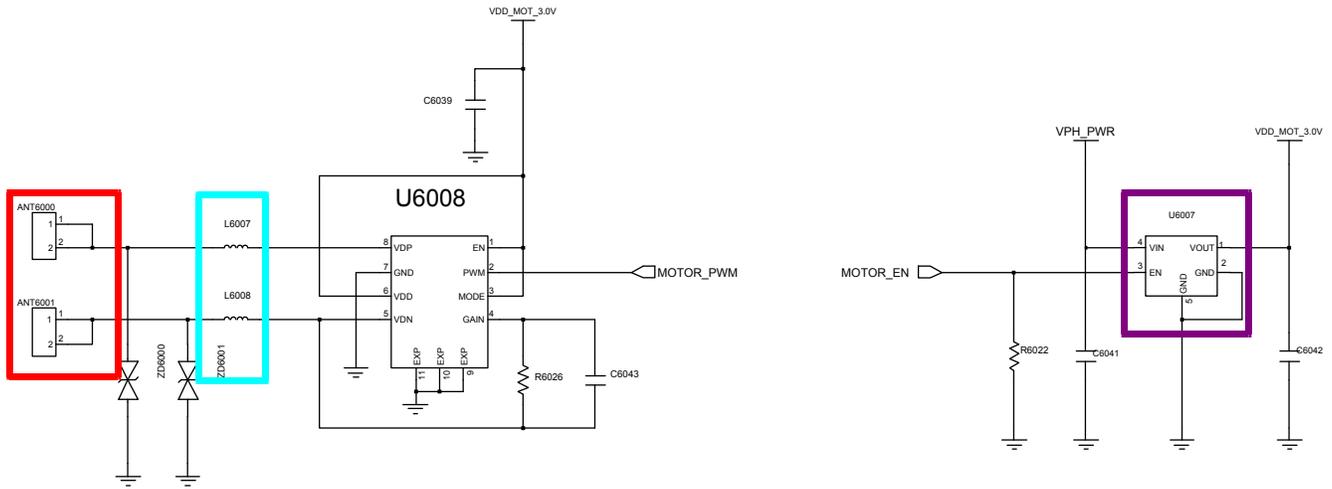
8-3-16. Ear Jack



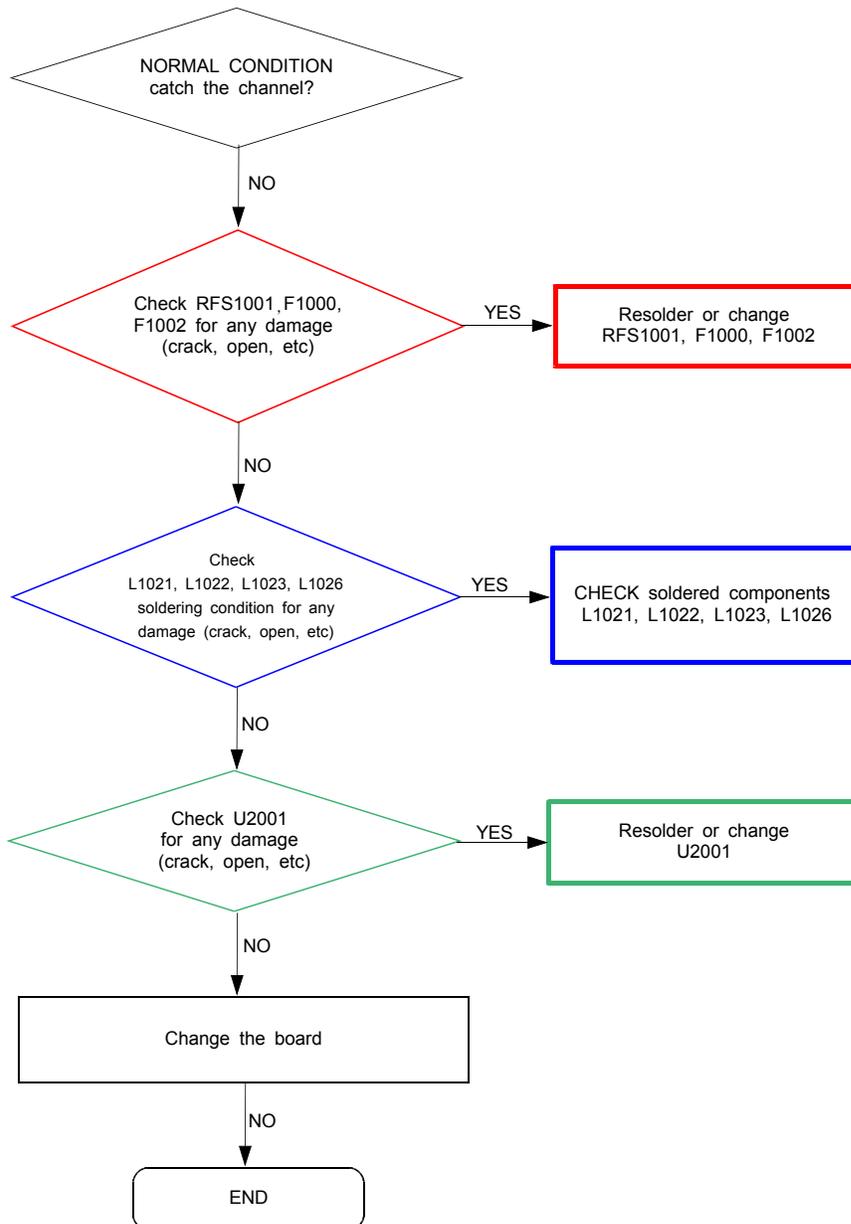


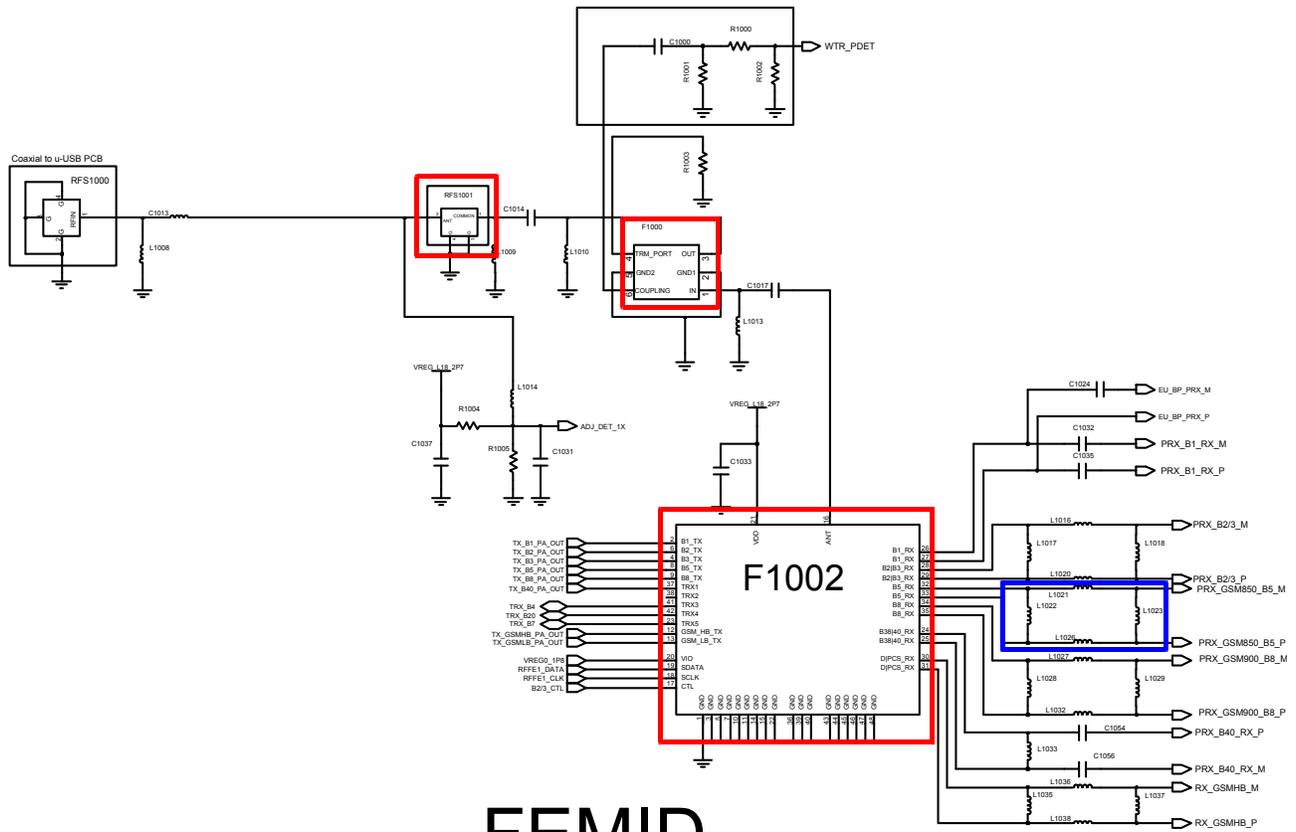
8-3-17. Motor



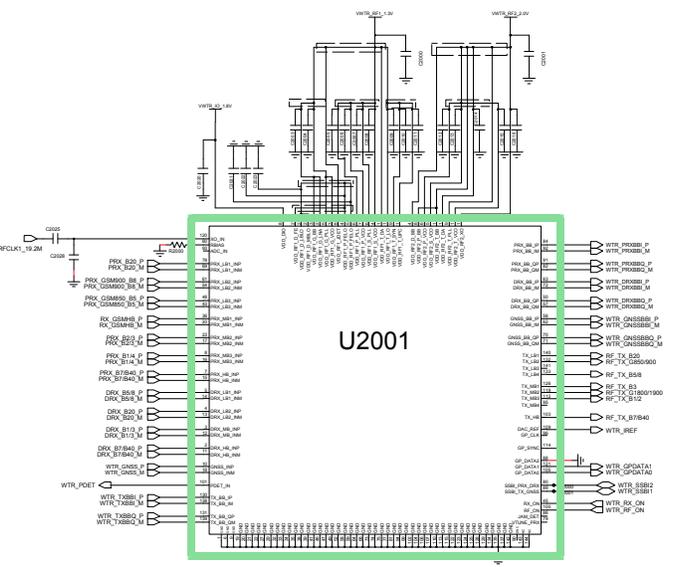


8-3-18. GSM850 / WCDMA B5 RX



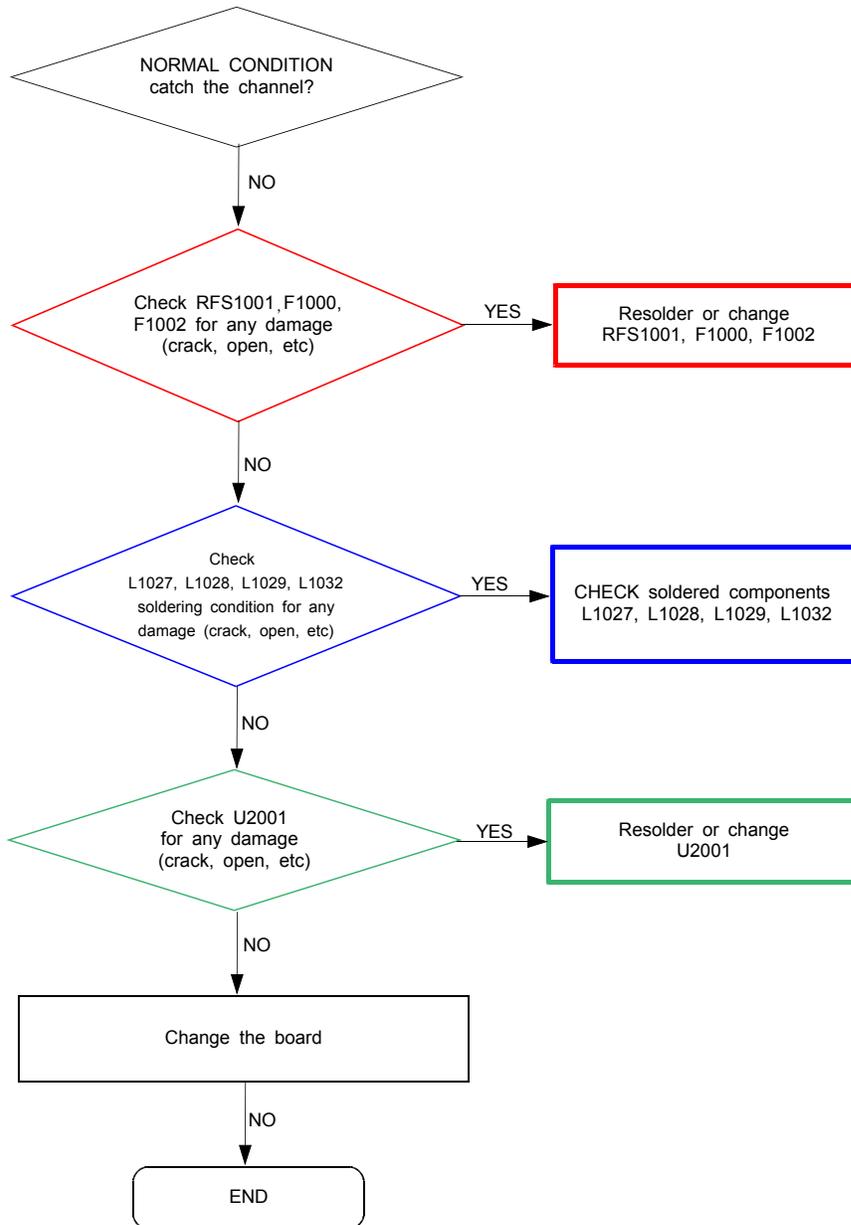


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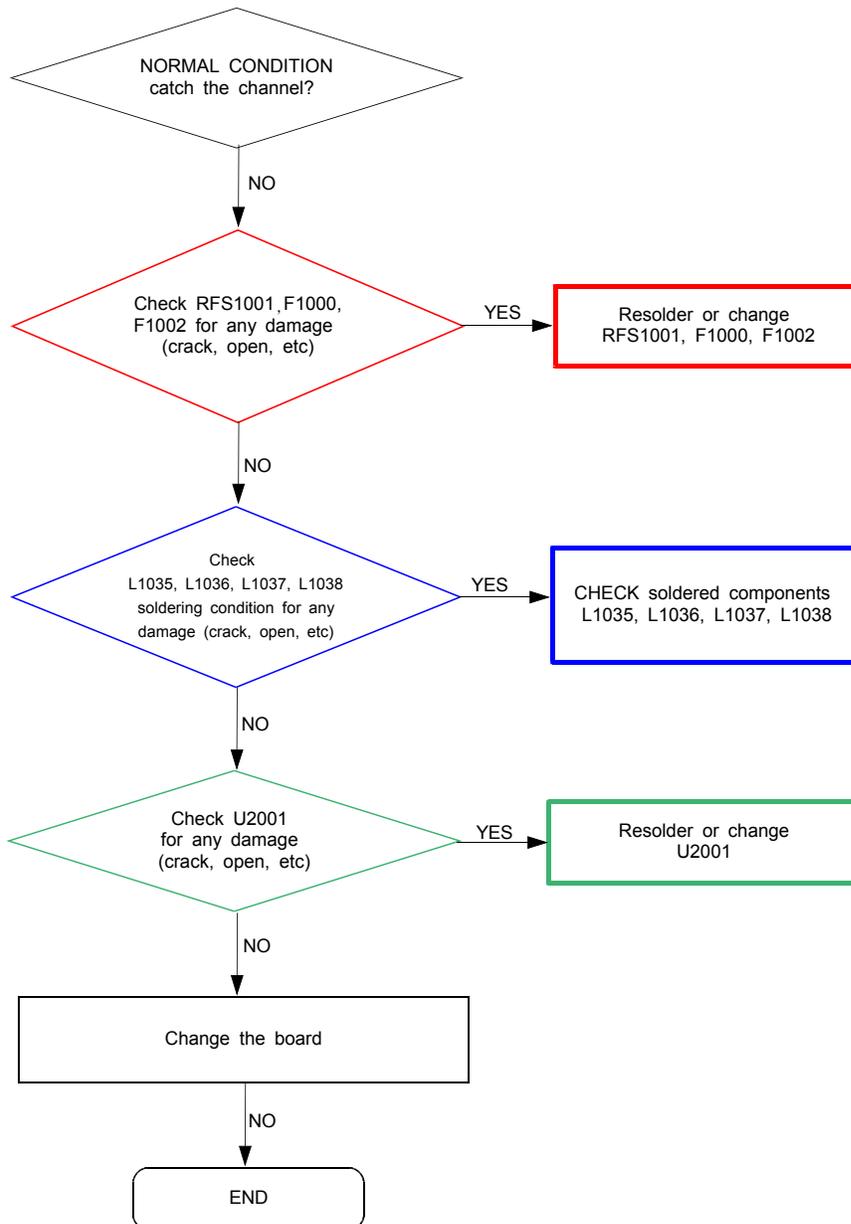


RF Transceiver

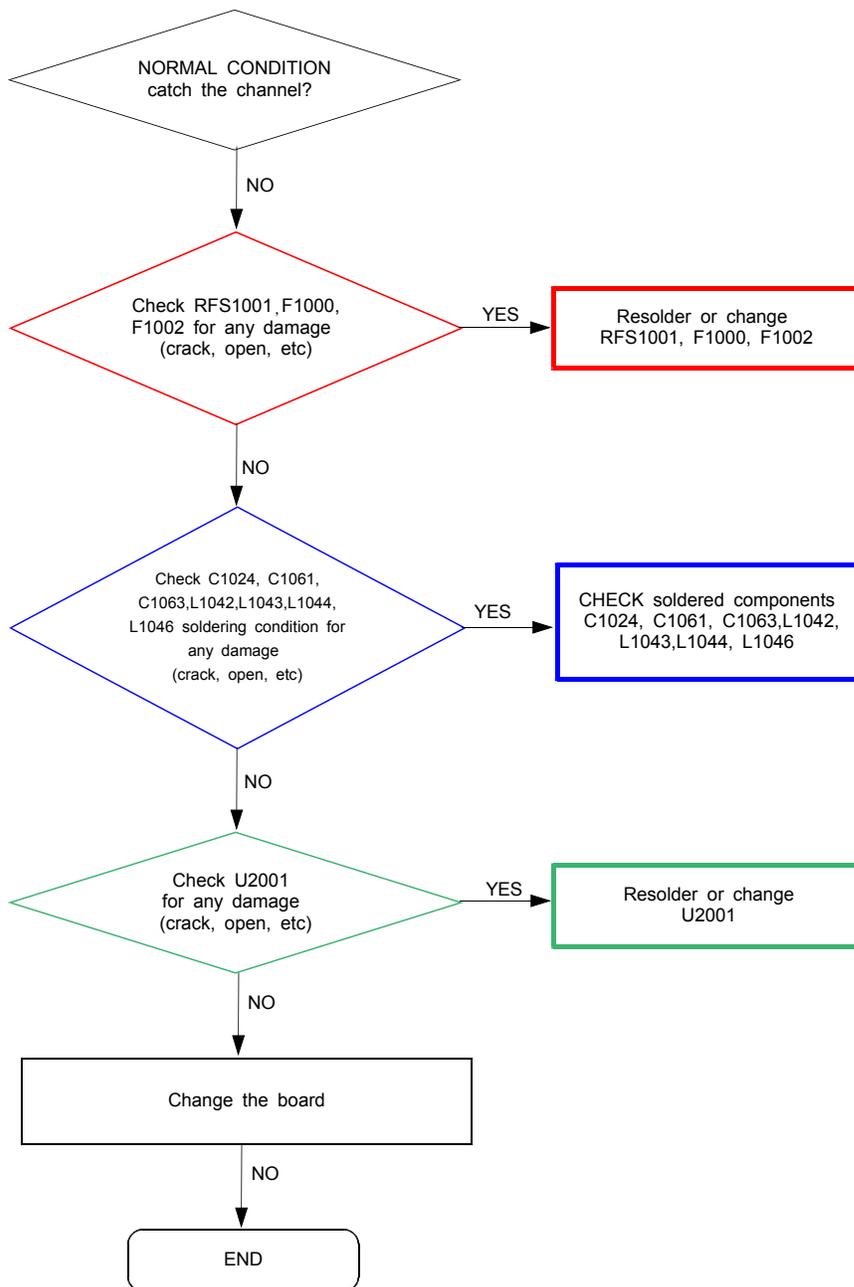
8-3-19. GSM900 / WCDMA B8 RX

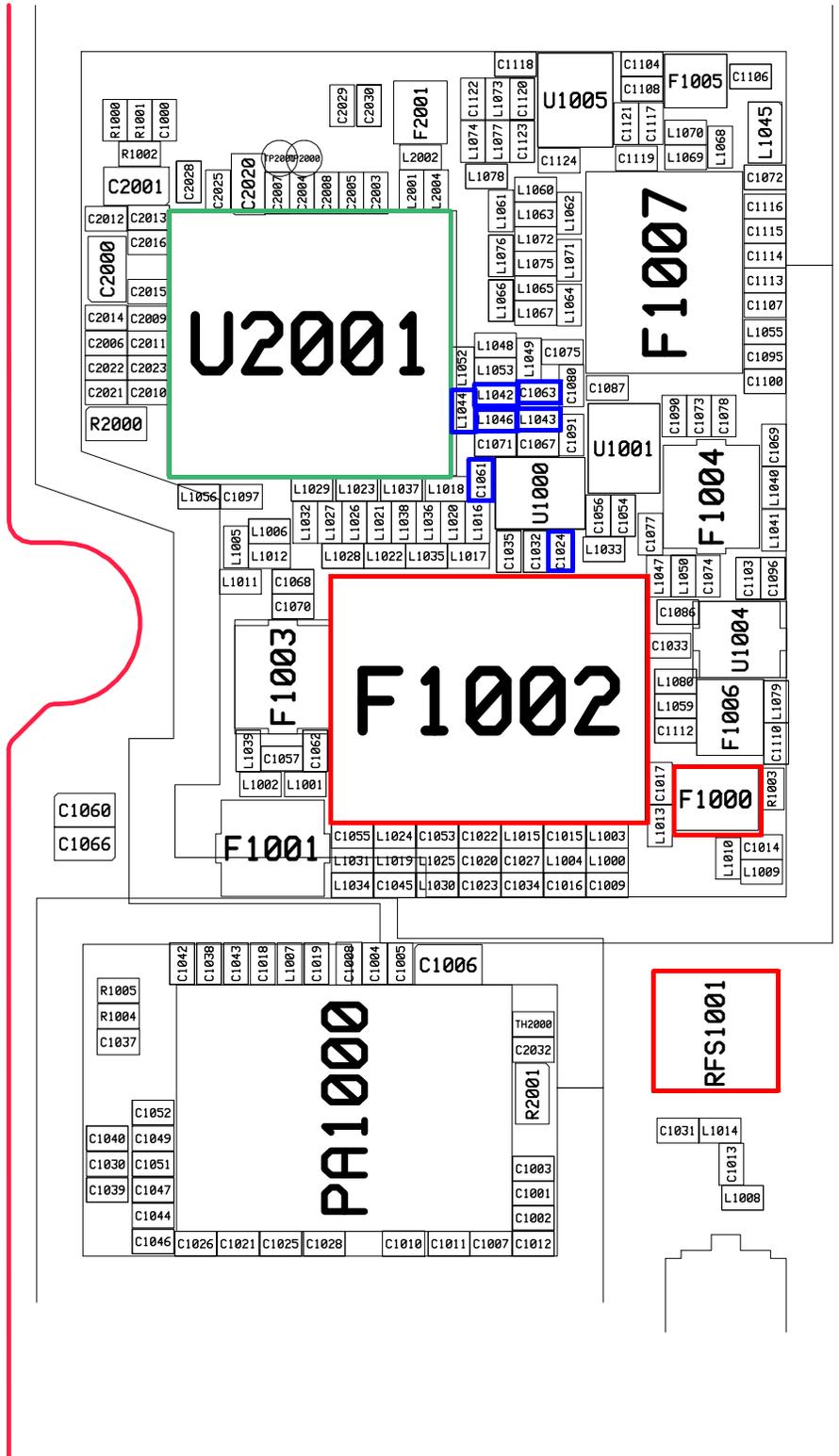


8-3-20. GSM1800 / GSM1900 RX

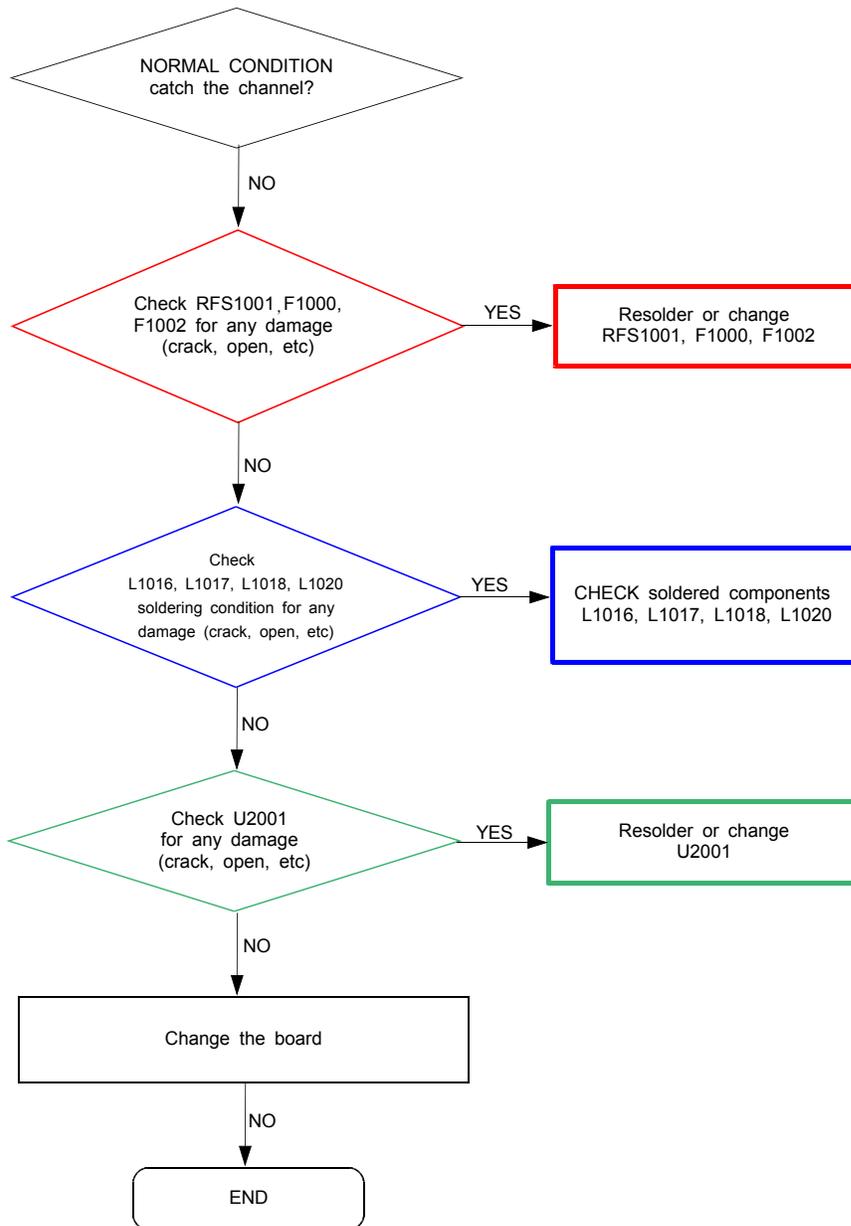


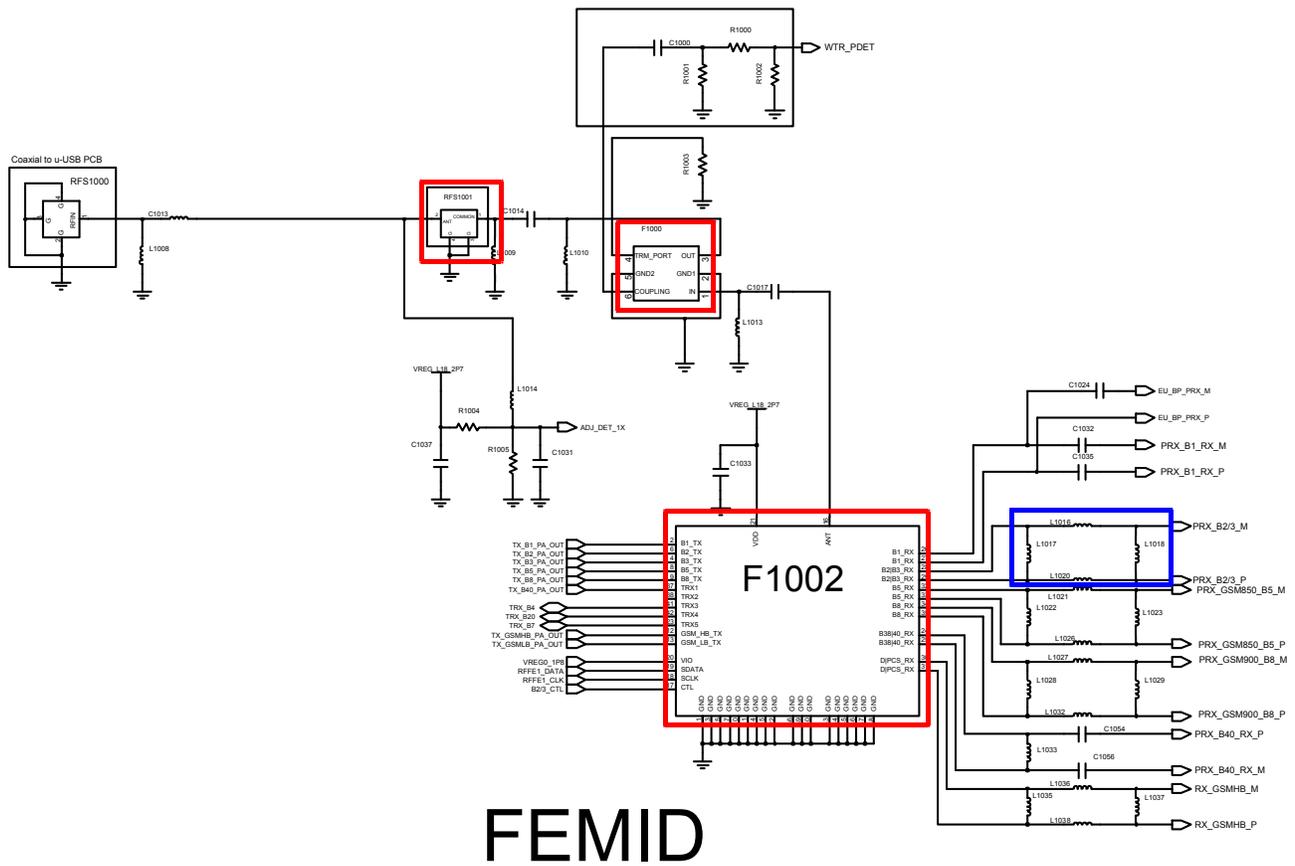
8-3-21. WCDMA B1 RX



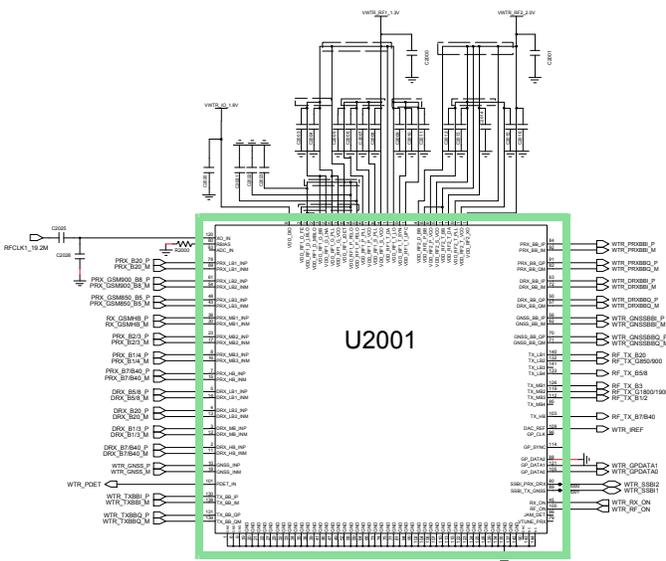


8-3-22. WCDMA B2 RX



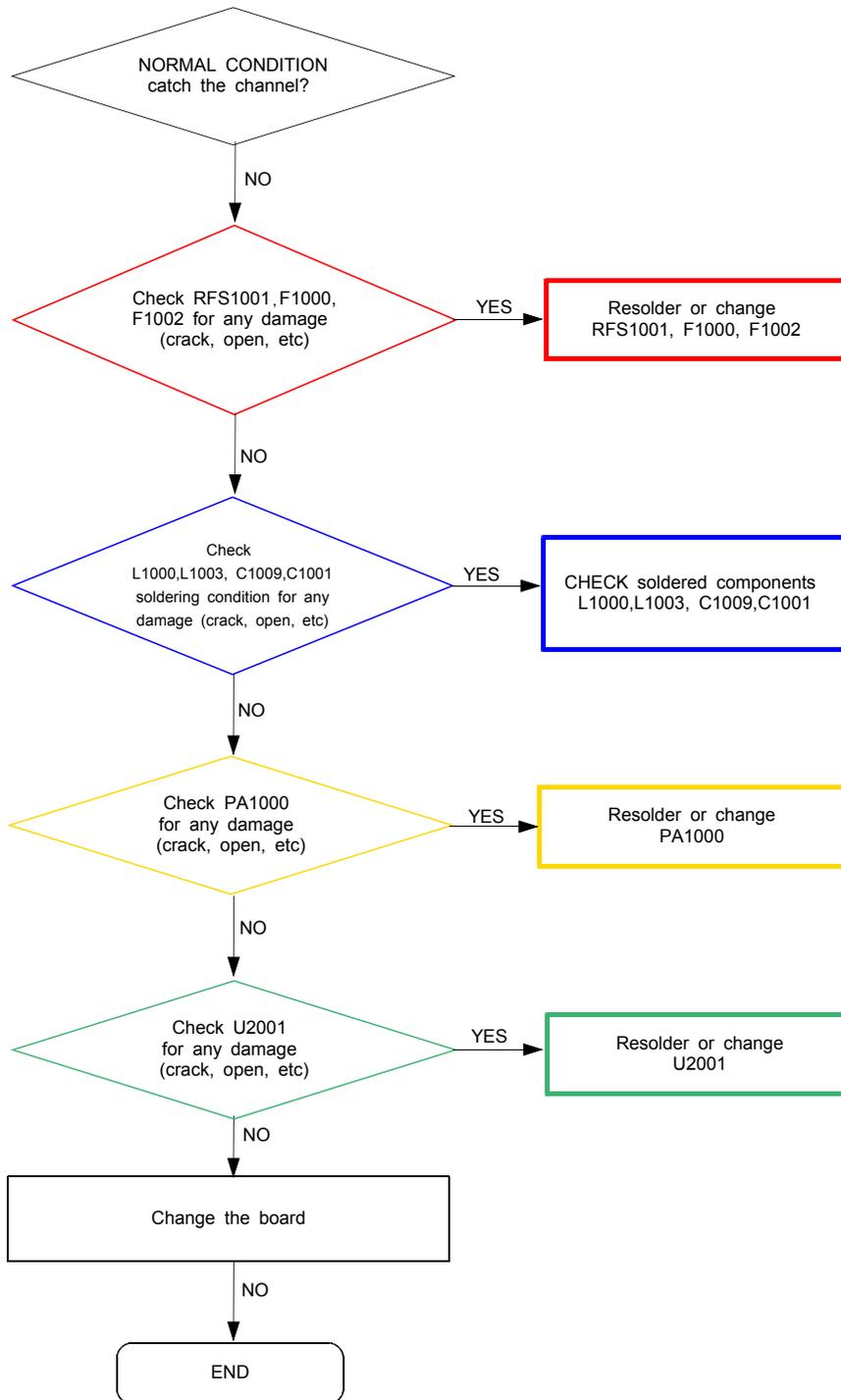


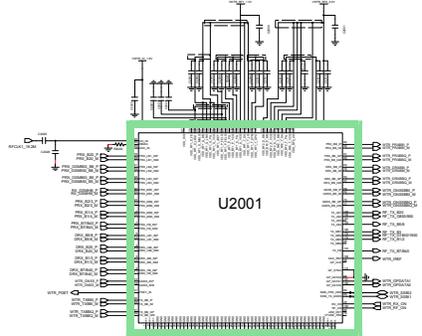
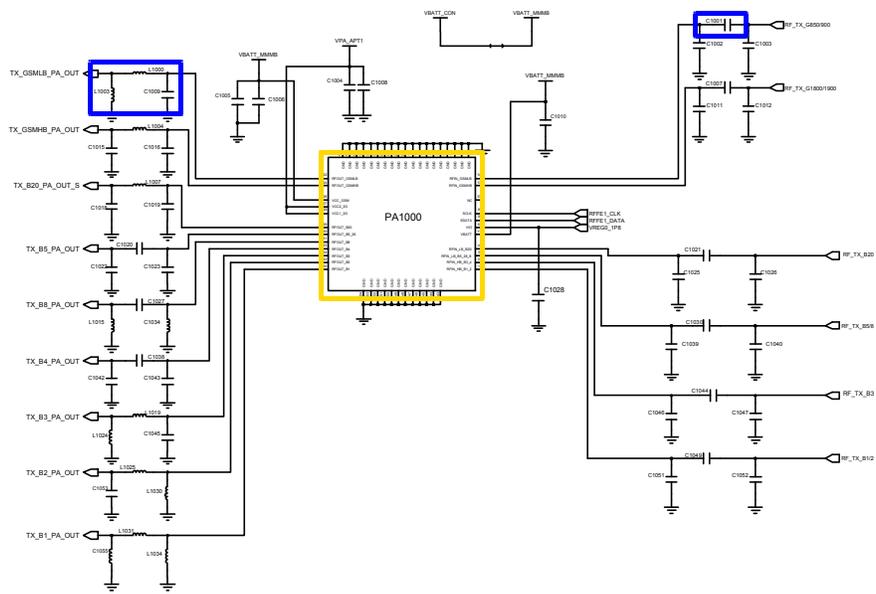
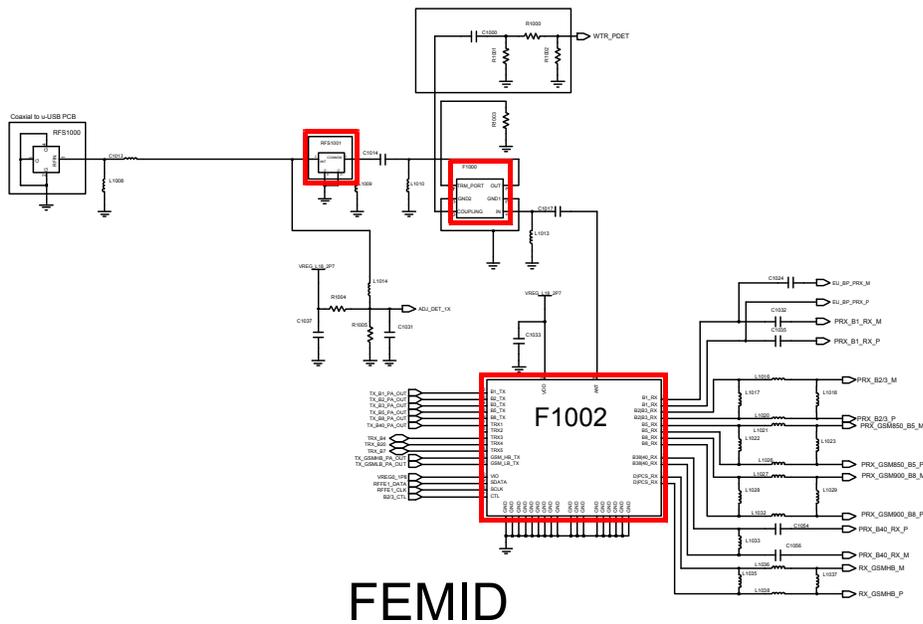
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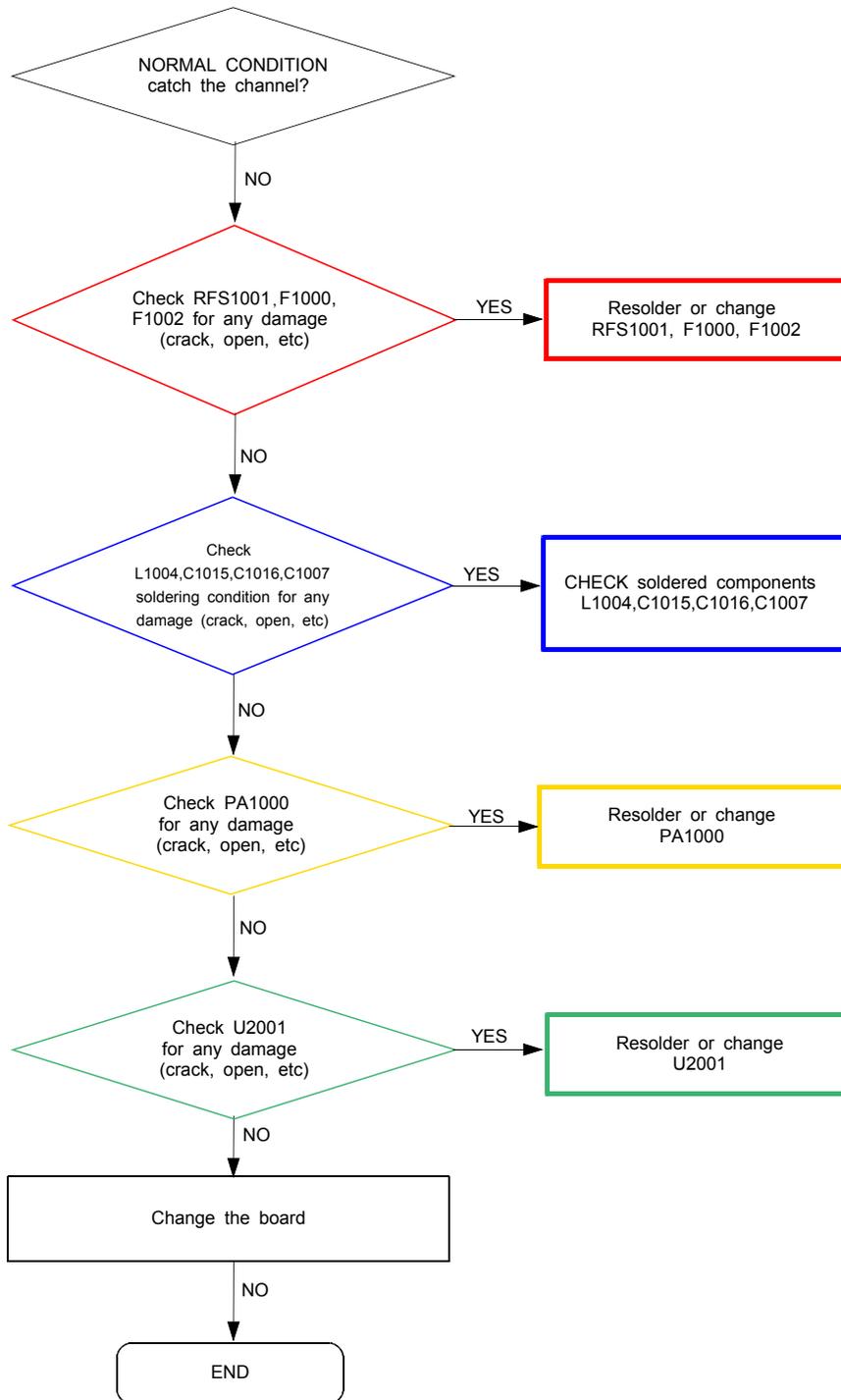
RF Transceiver

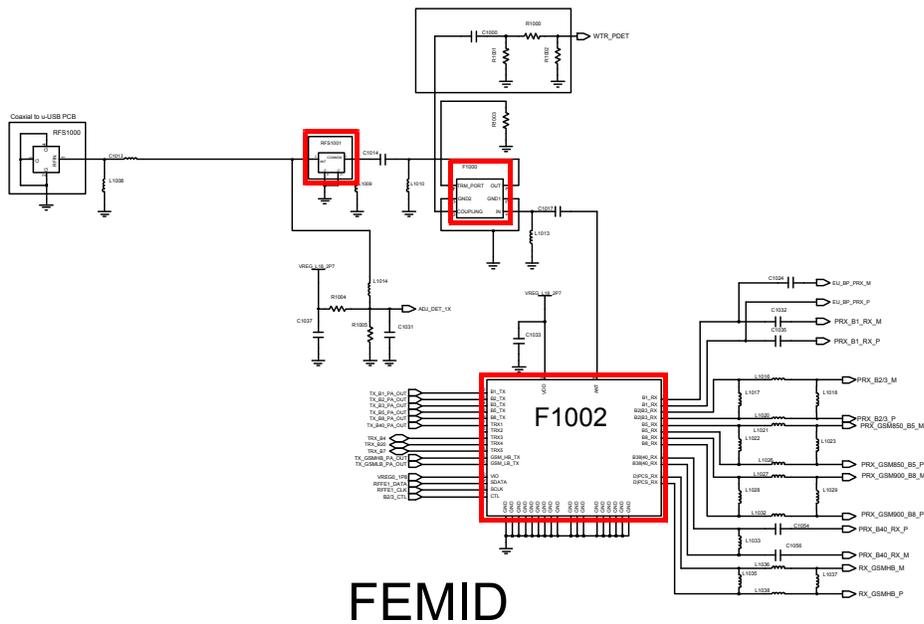
8-3-25. GSM850 / GSM900 TX



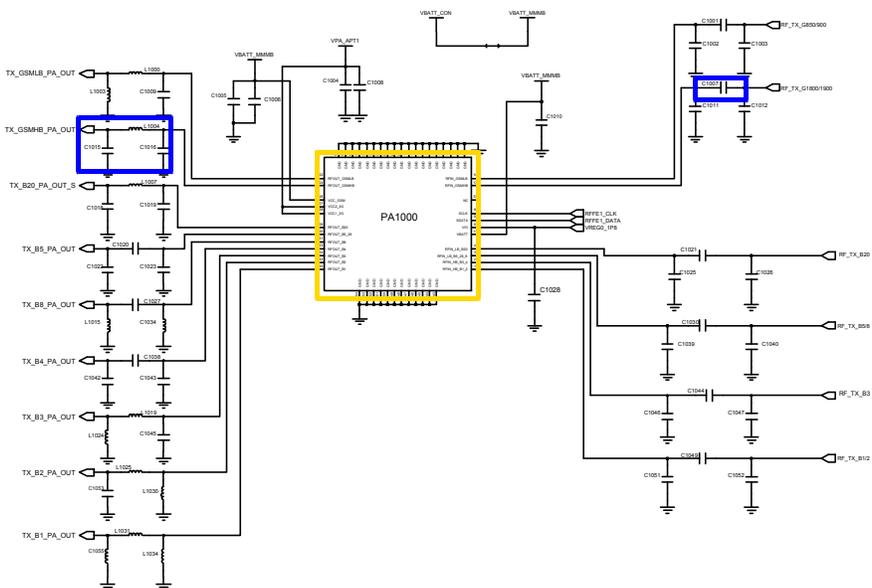


8-3-26. GSM1800 / GSM1900 TX

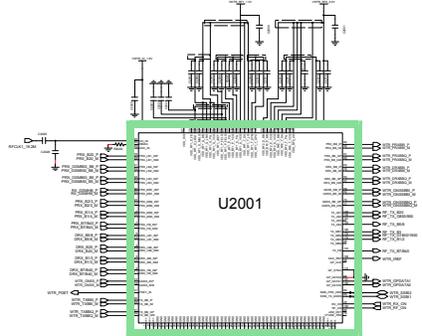




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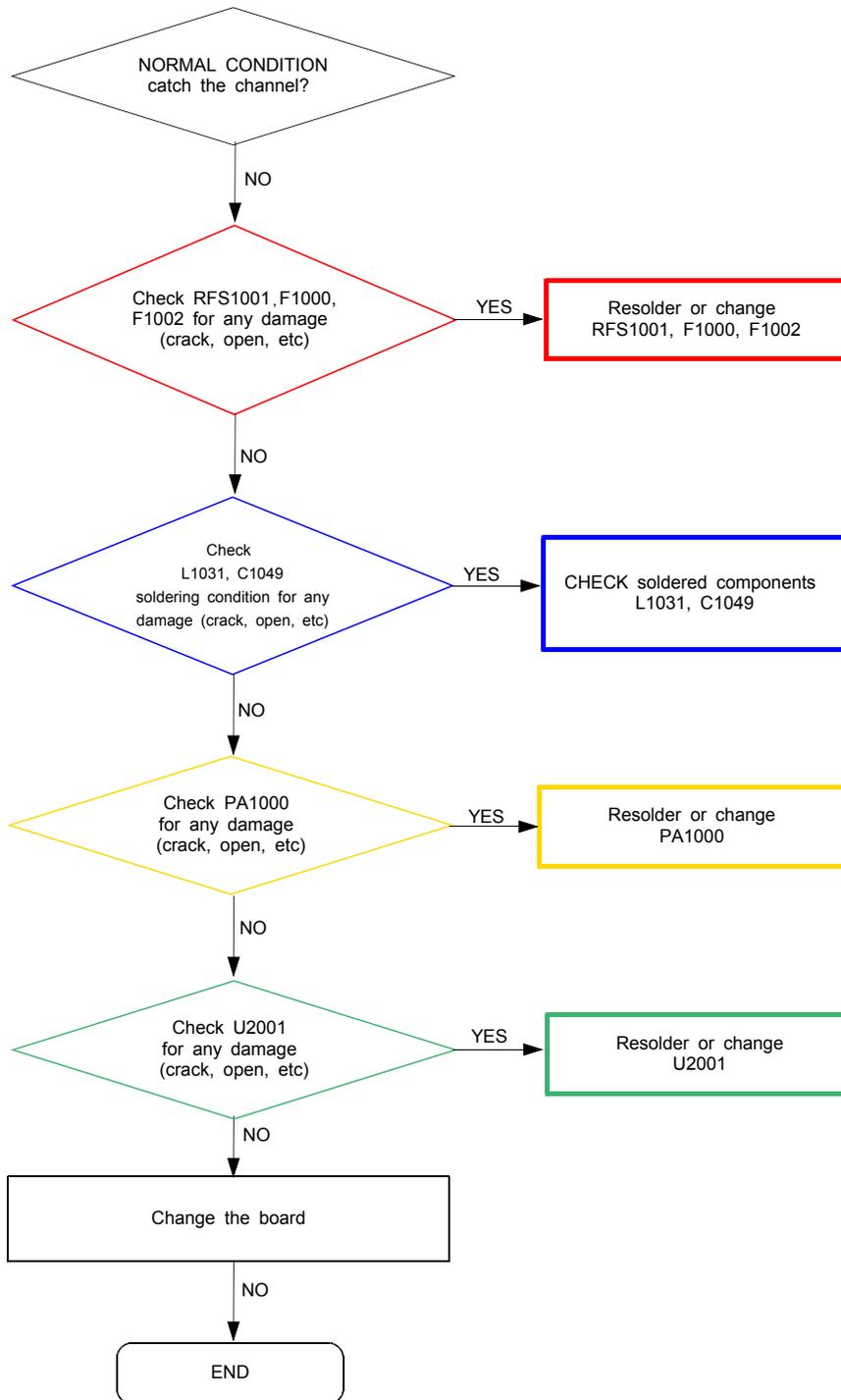


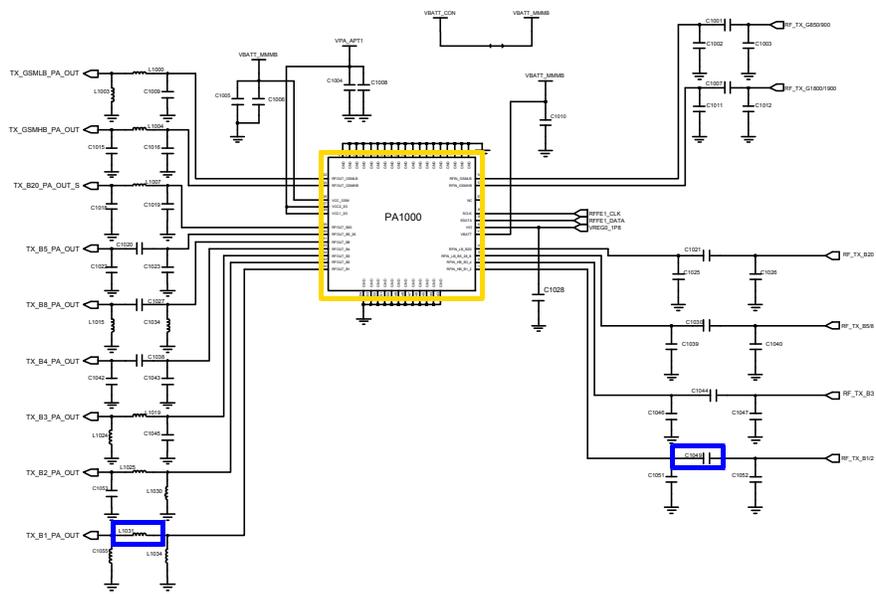
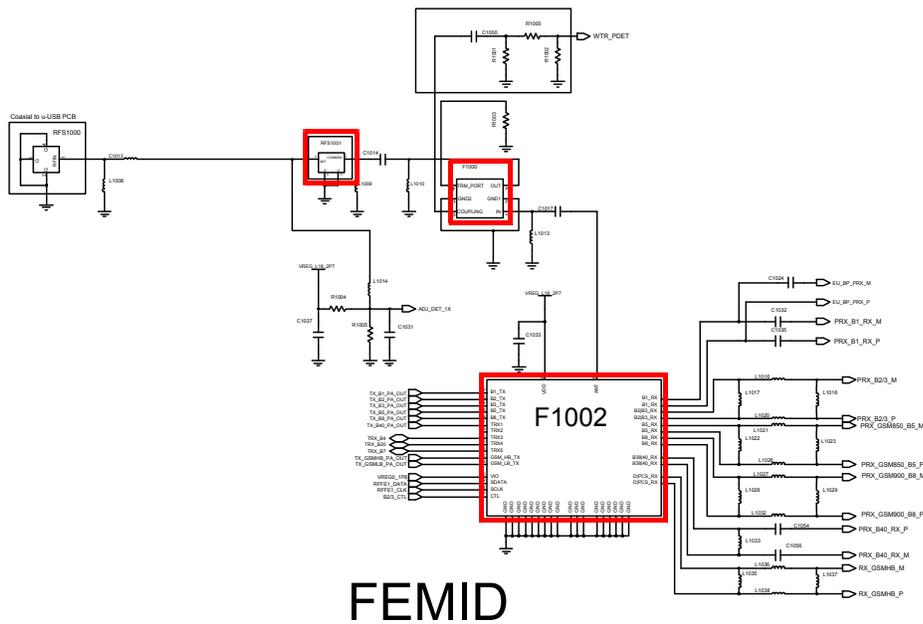
BAND1/2/3/5/8/20, GSM QUAD MMB PA



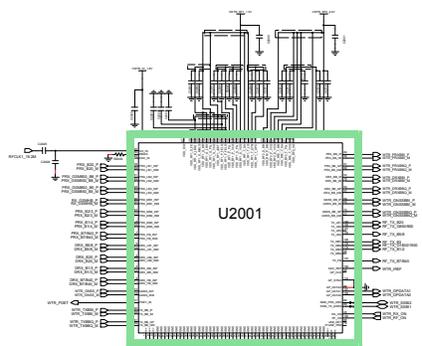
RF Transceiver

8-3-27. WCDMA B1 TX

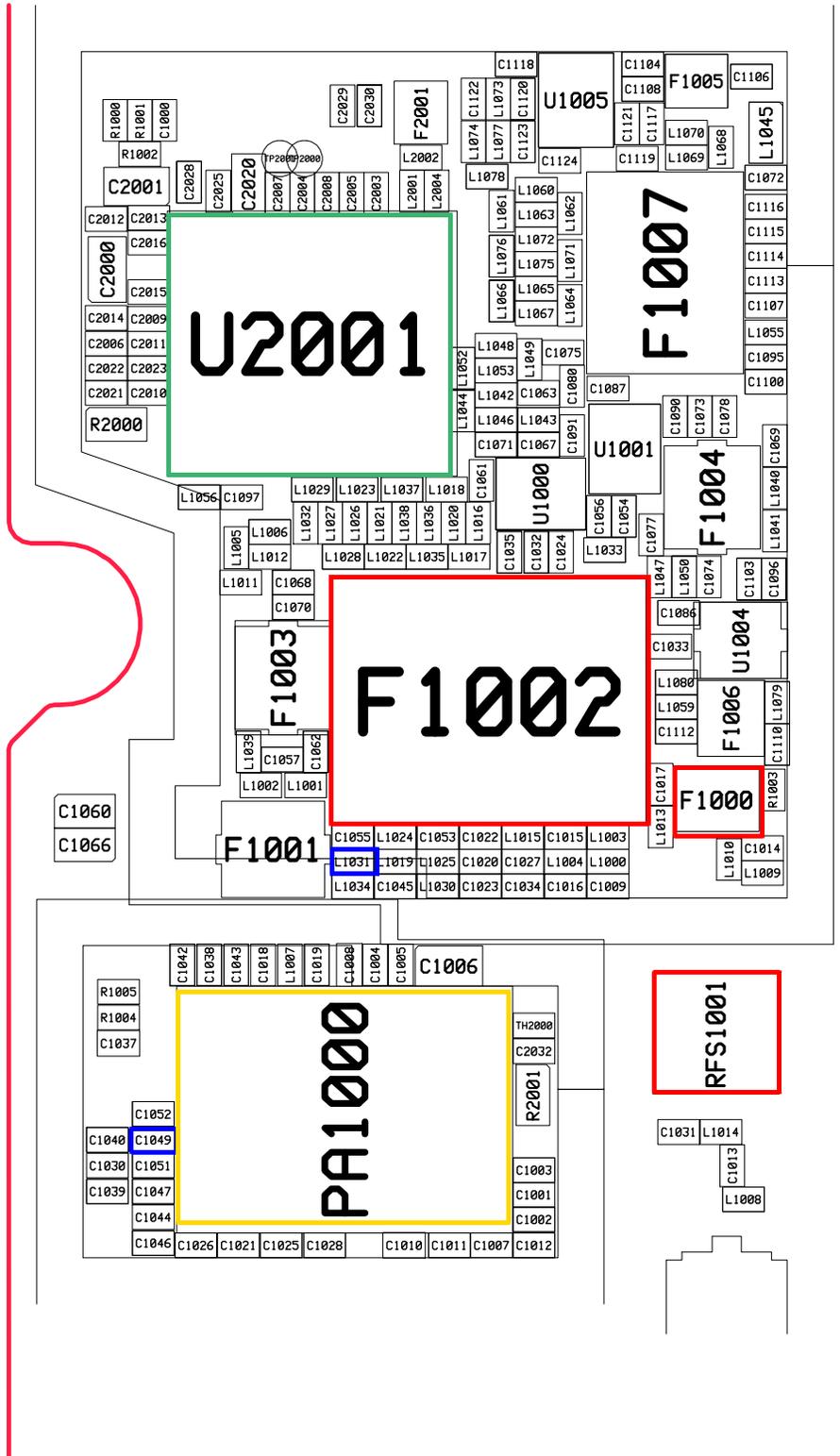




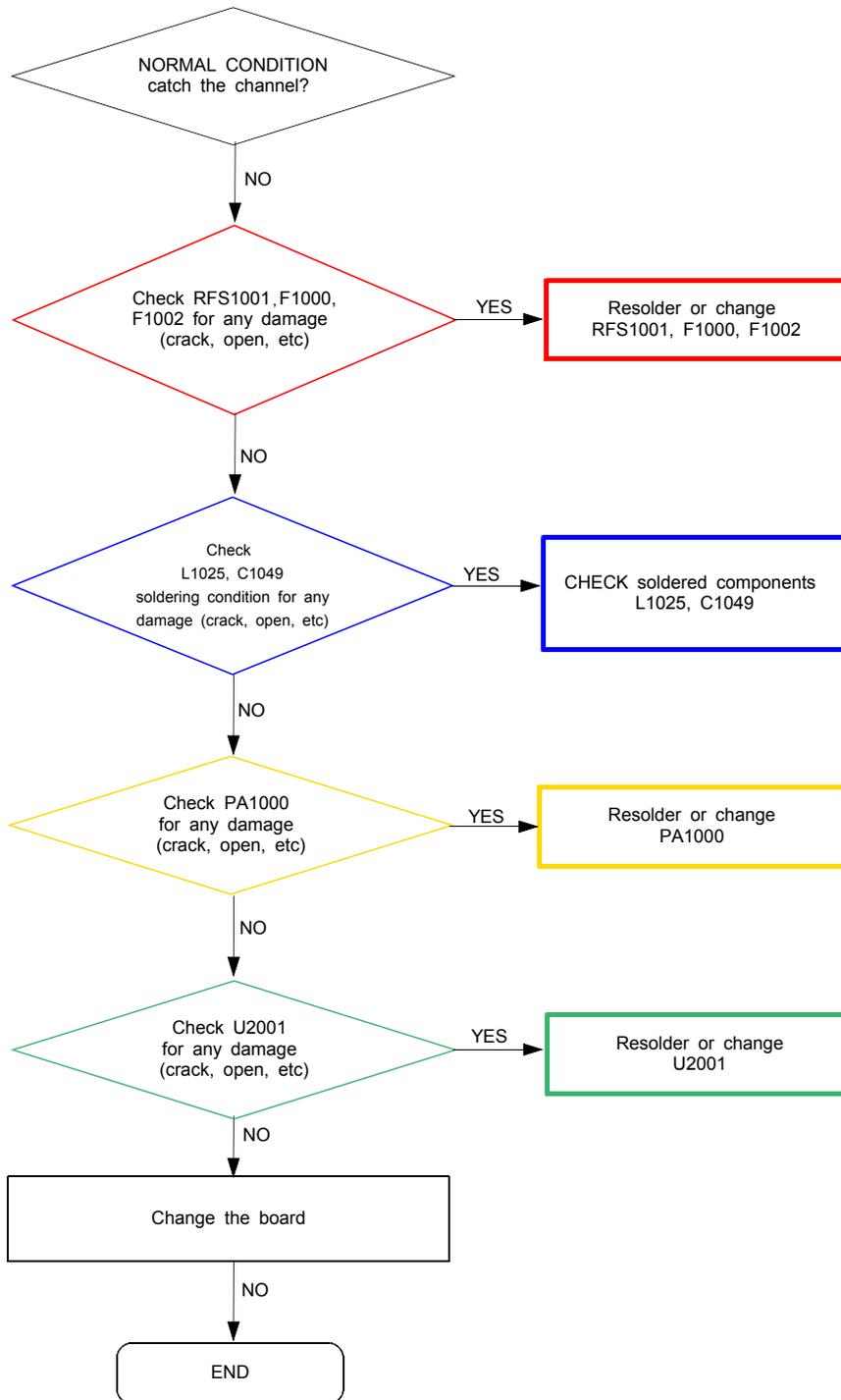
BAND1/2/3/5/8/20, GSM QUAD MMB PA

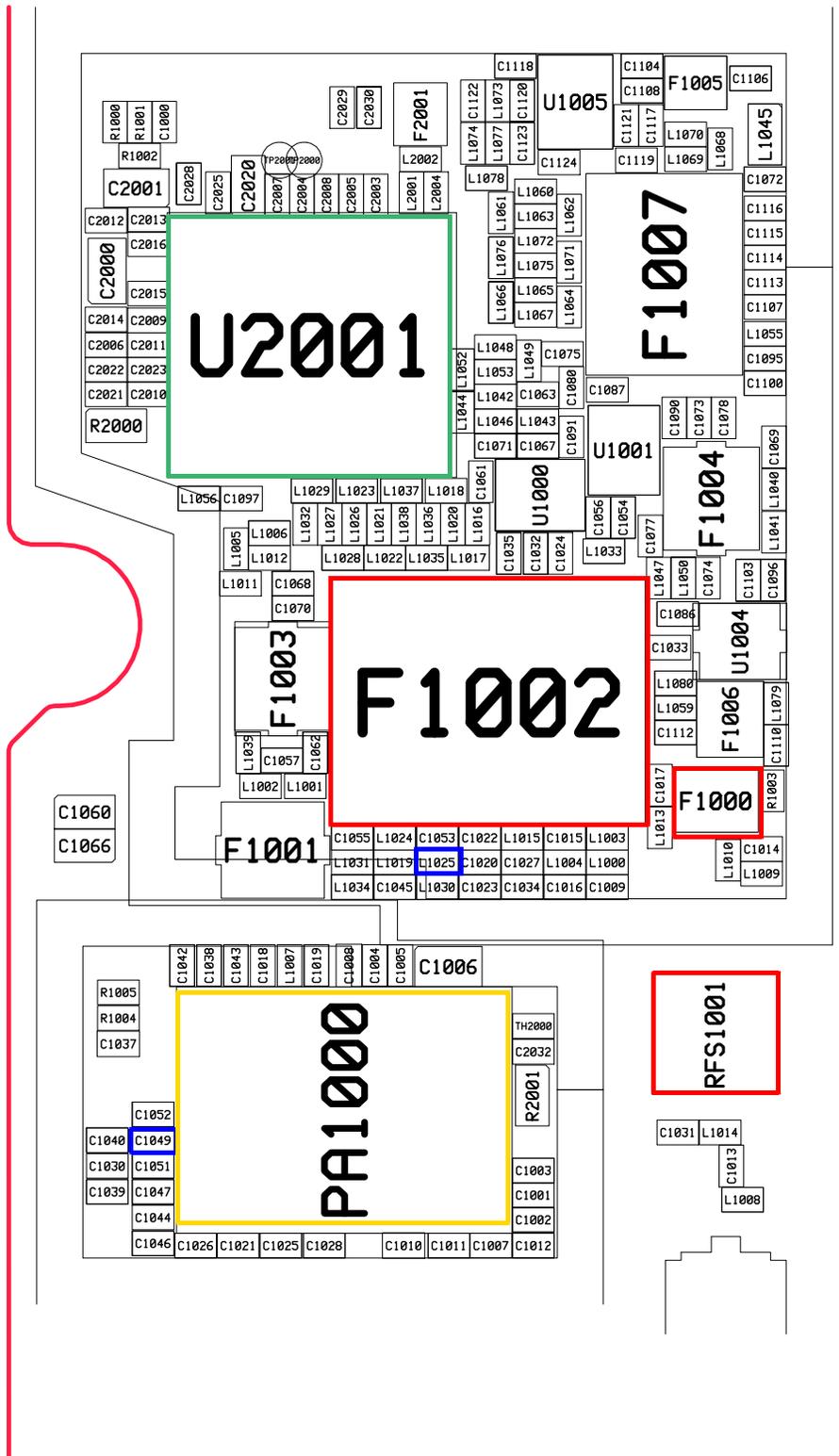


RF Transceiver

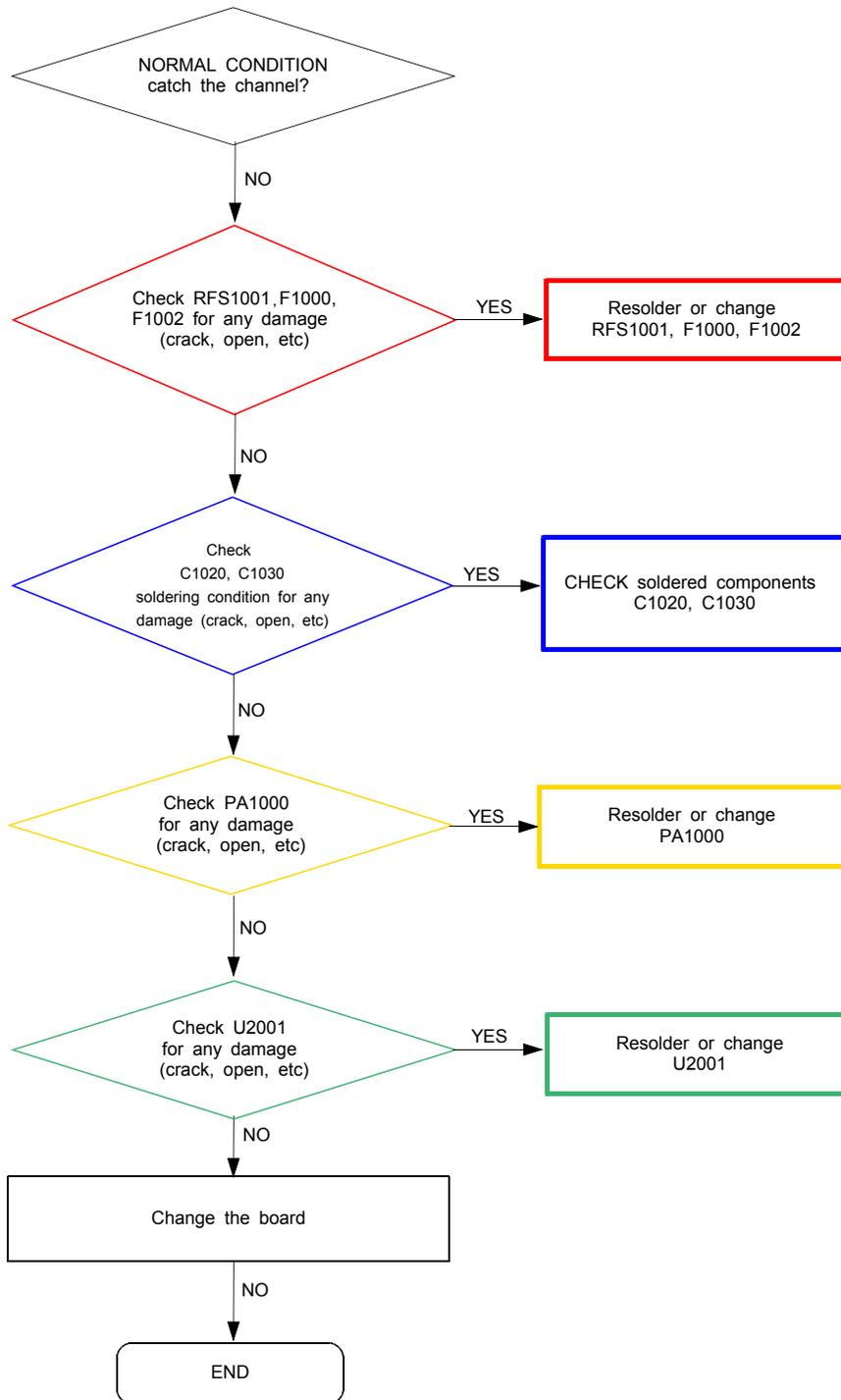


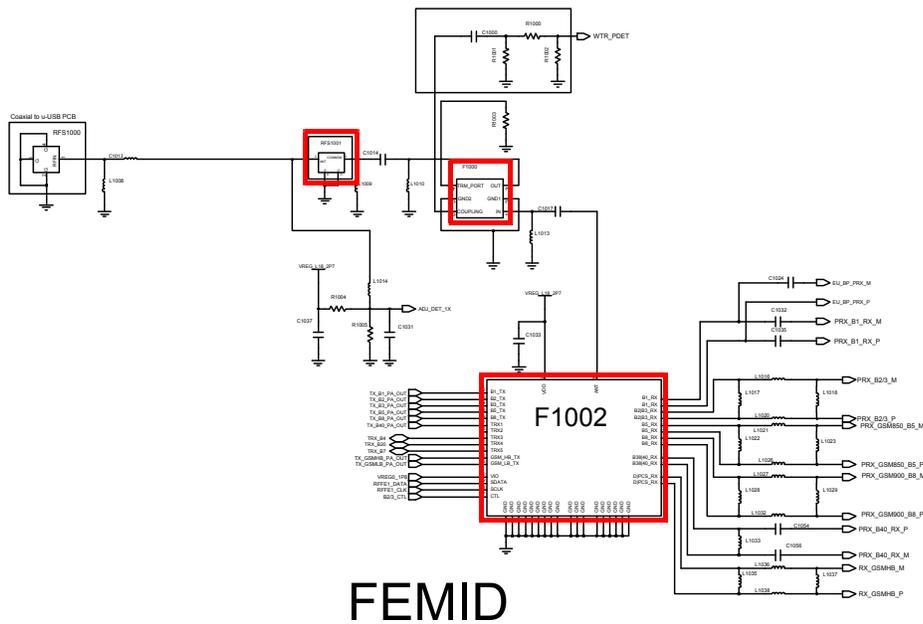
8-3-28. WCDMA B2 TX



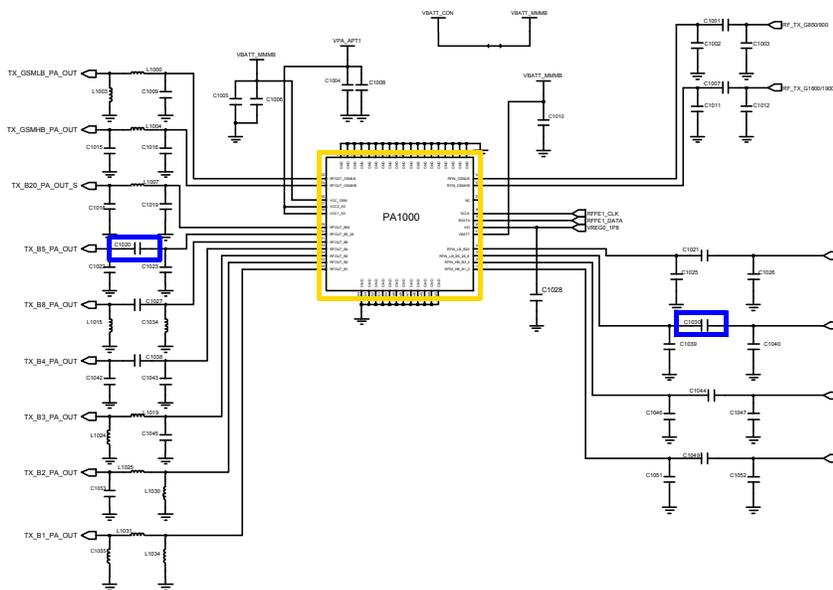


8-3-29. WCDMA B5 TX

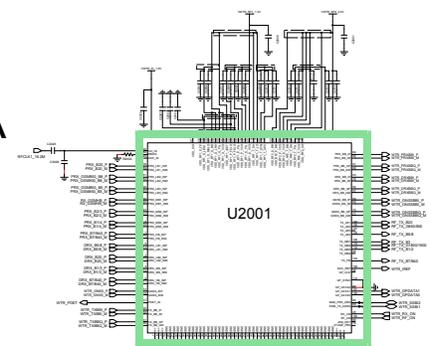




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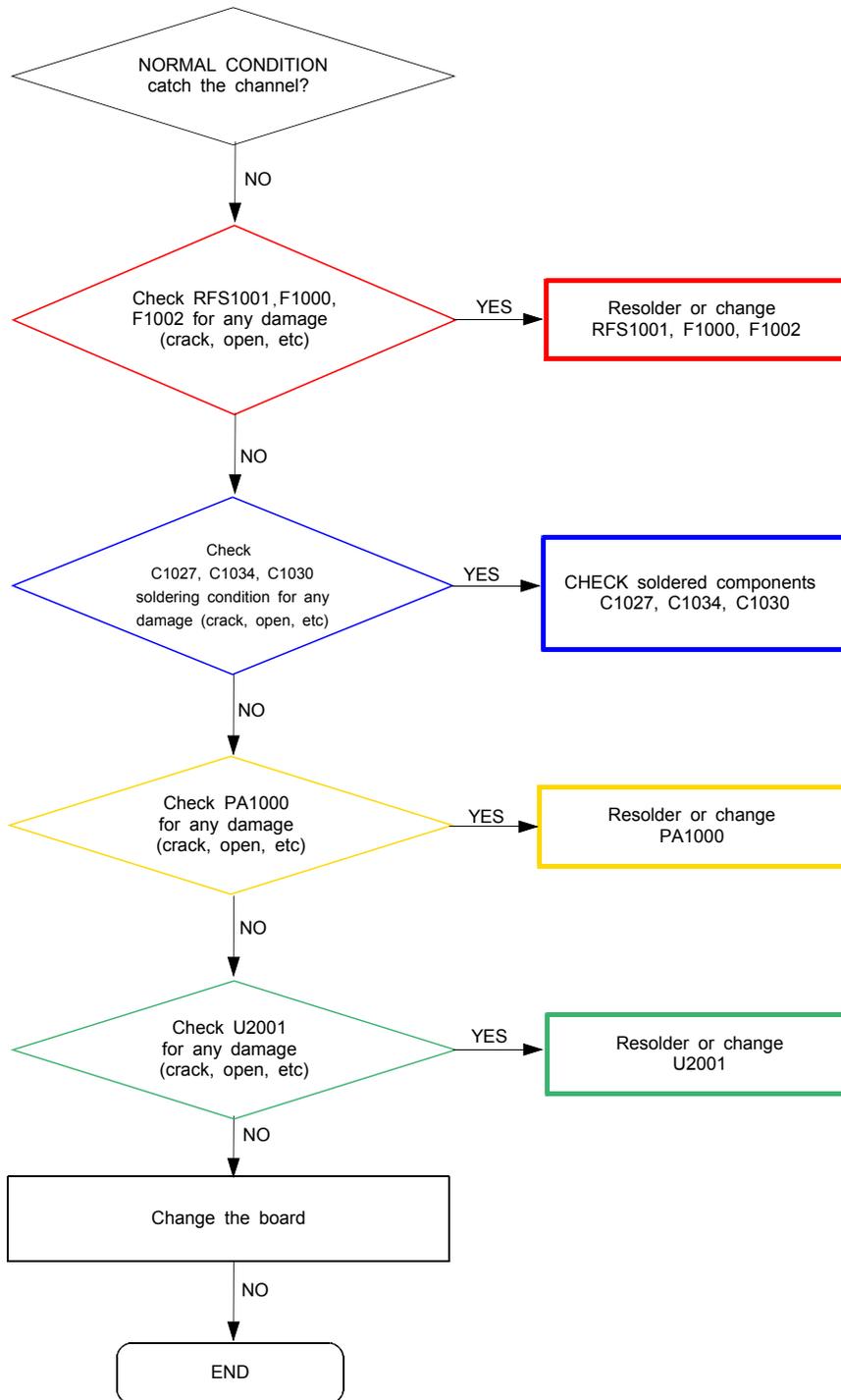


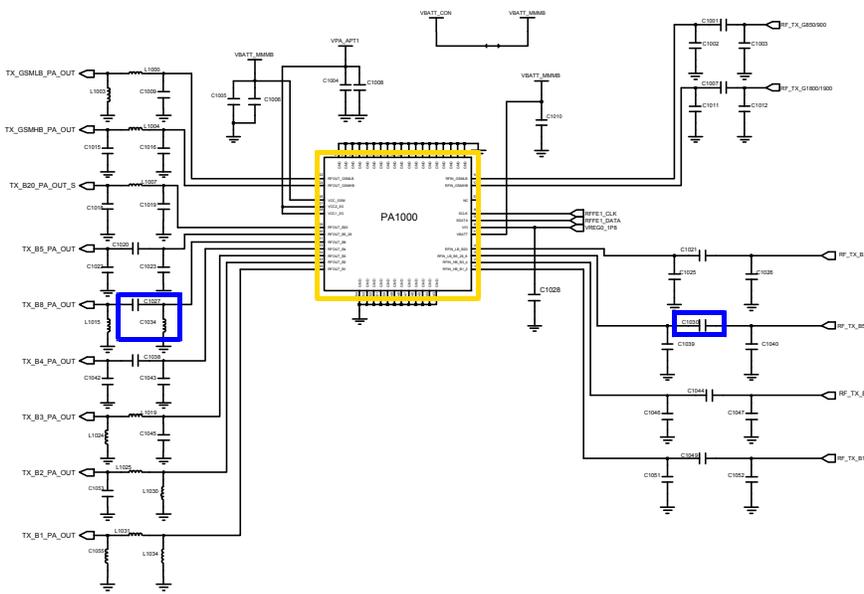
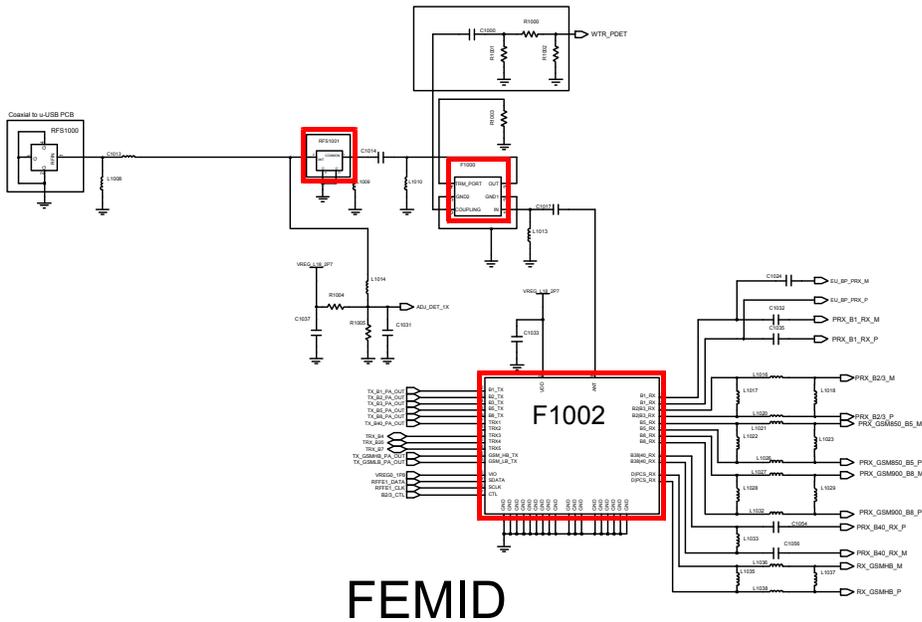
BAND1/2/3/5/8/20, GSM QUAD MMB PA



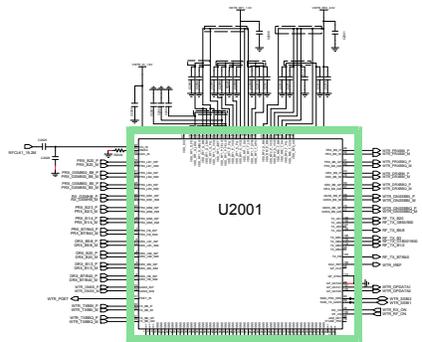
RF Transceiver

8-3-30. WCDMA B8 TX





BAND1/2/3/5/8/20, GSM QUAD MMB PA



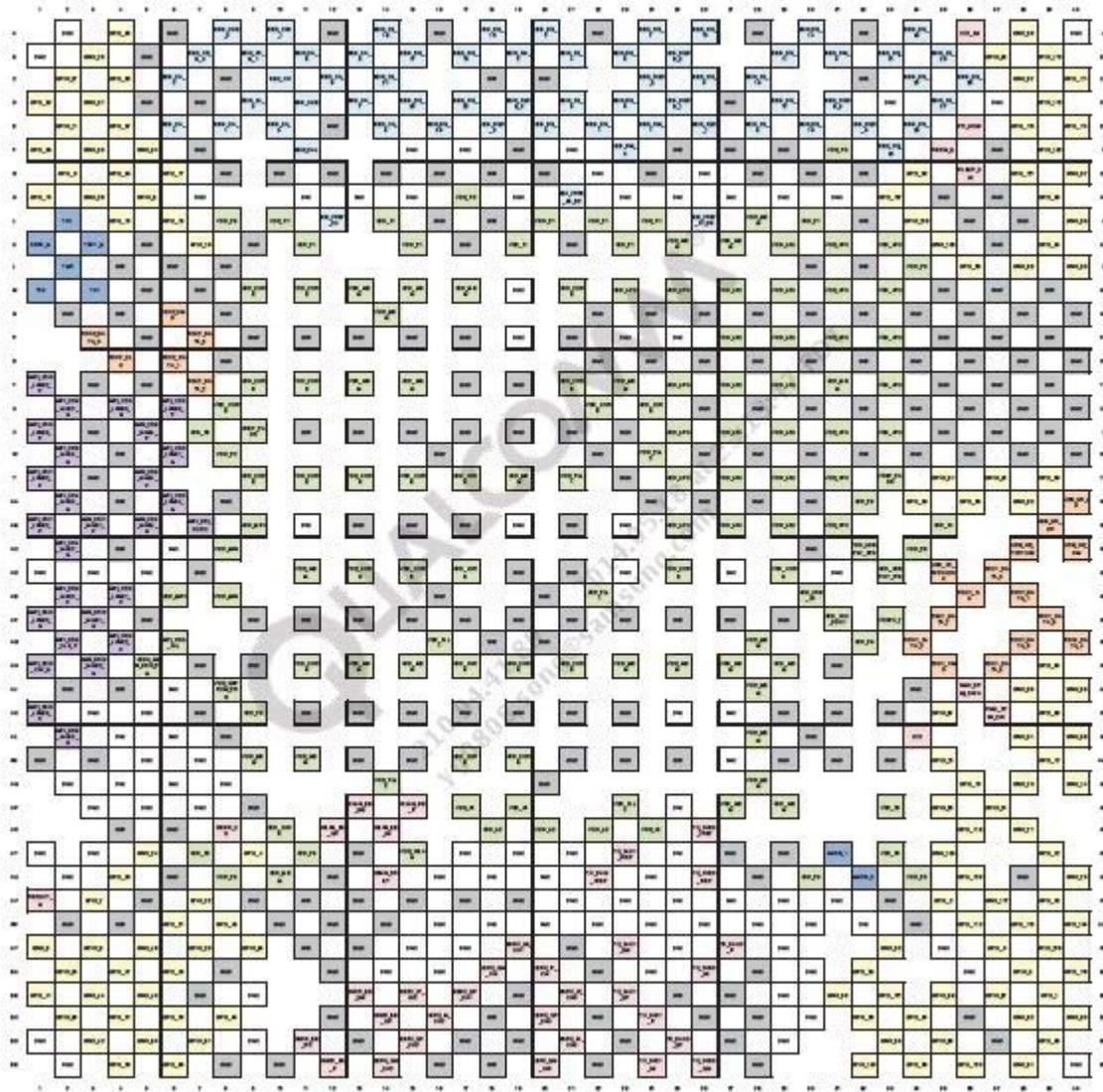
RF Transceiver

-NC Point(Top View)

●: NC

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
A														
B														
C	●													●
D	●							●	●	●	●	●	●	●
E	●	●	●	●	●	●	●	●	●	●	●	●	●	●
F	●					●	●							●
G	●					●	●							●
H	●					●	●							●
I	●					●	●							●
J	●					●	●							●
K	●					●	●							●
L	●					●	●							●
M	●					●	●							●
N	●					●	●							●
P	●					●	●							●
R	●					●	●							●
T	●					●	●							●
U	●					●	●							●
V	●					●	●							●
W	●					●	●							●
Y	●					●	●							●
AA						●	●							
AB						●	●							

UME4000



UCP3000

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>
<u>A</u>														
<u>B</u>														
<u>C</u>									●					
<u>D</u>							●	●						
<u>E</u>					●									
<u>F</u>			●		●									
<u>G</u>														
<u>H</u>	●		●					●						●
<u>J</u>								●						
<u>K</u>					●	●					●			
<u>L</u>				●	●	●		●						
<u>M</u>														●
<u>N</u>														
<u>P</u>										●				

U4000