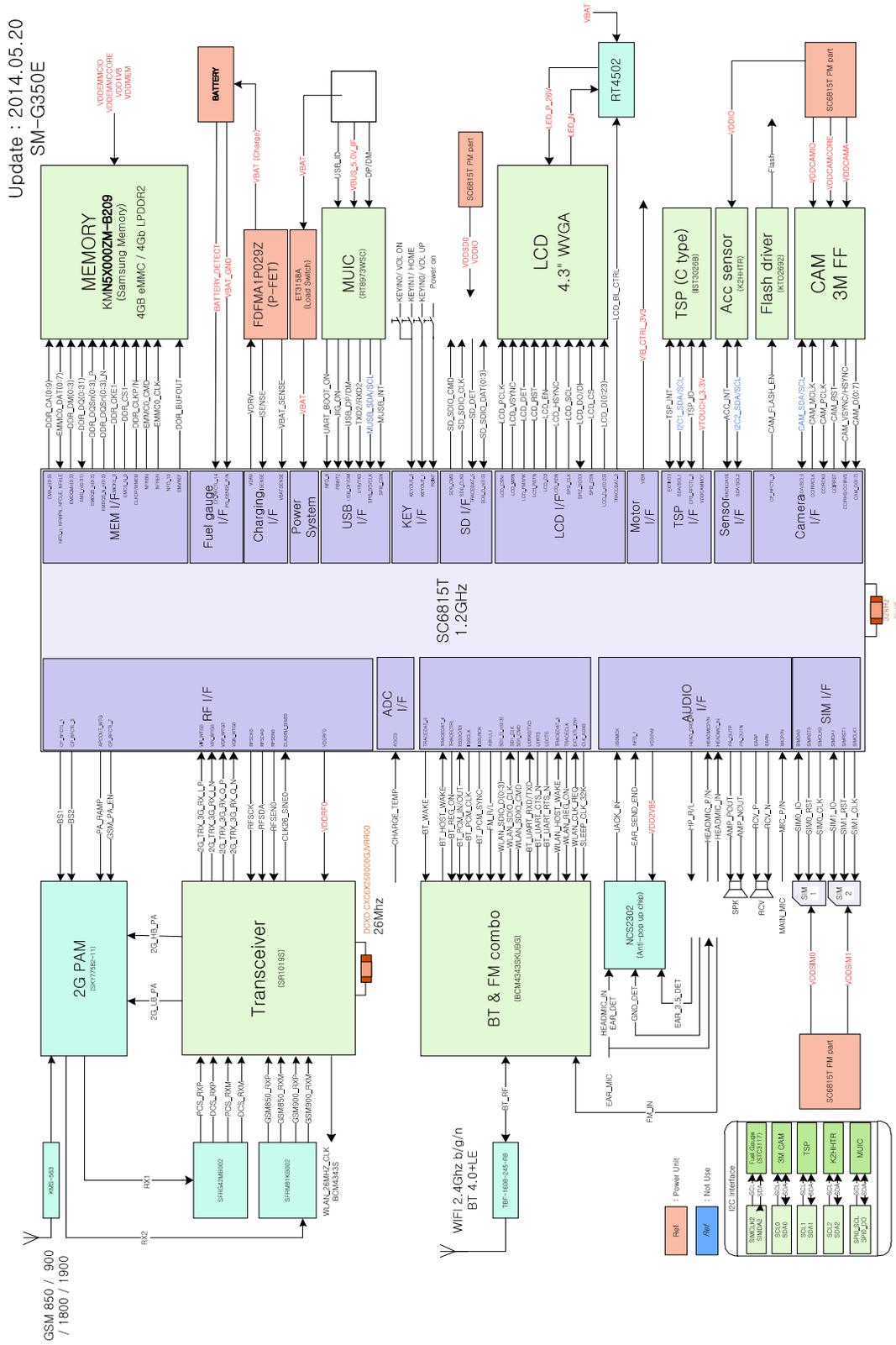


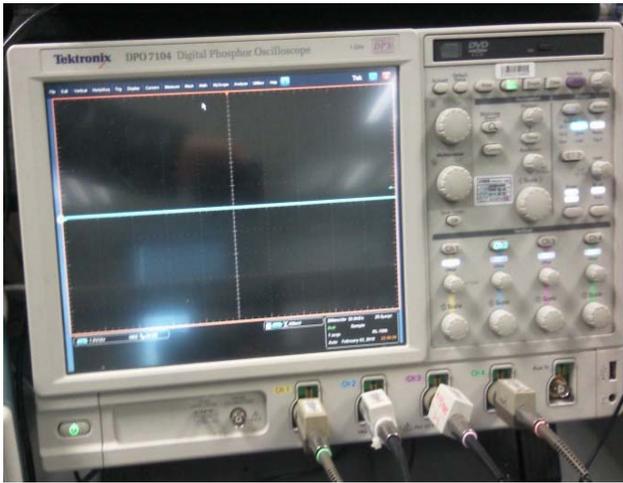
8. Level 3 Repair

8-1. Block Diagram



8-3. Flow Chart of Troubleshooting

Equipments



↑ Oscilloscope



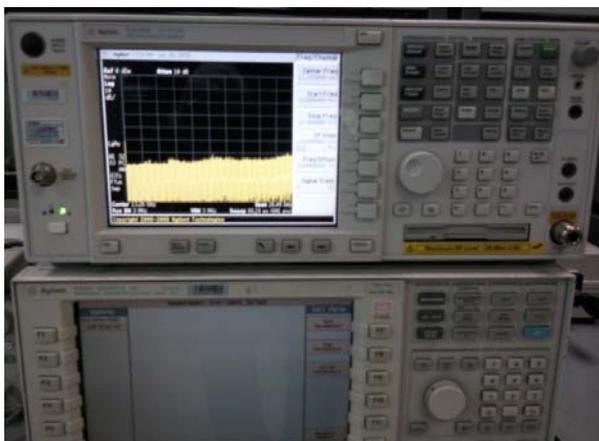
↑ Digital Multimeter



↑ Power Supply



↑ + driver, ESD Safe Tweezer

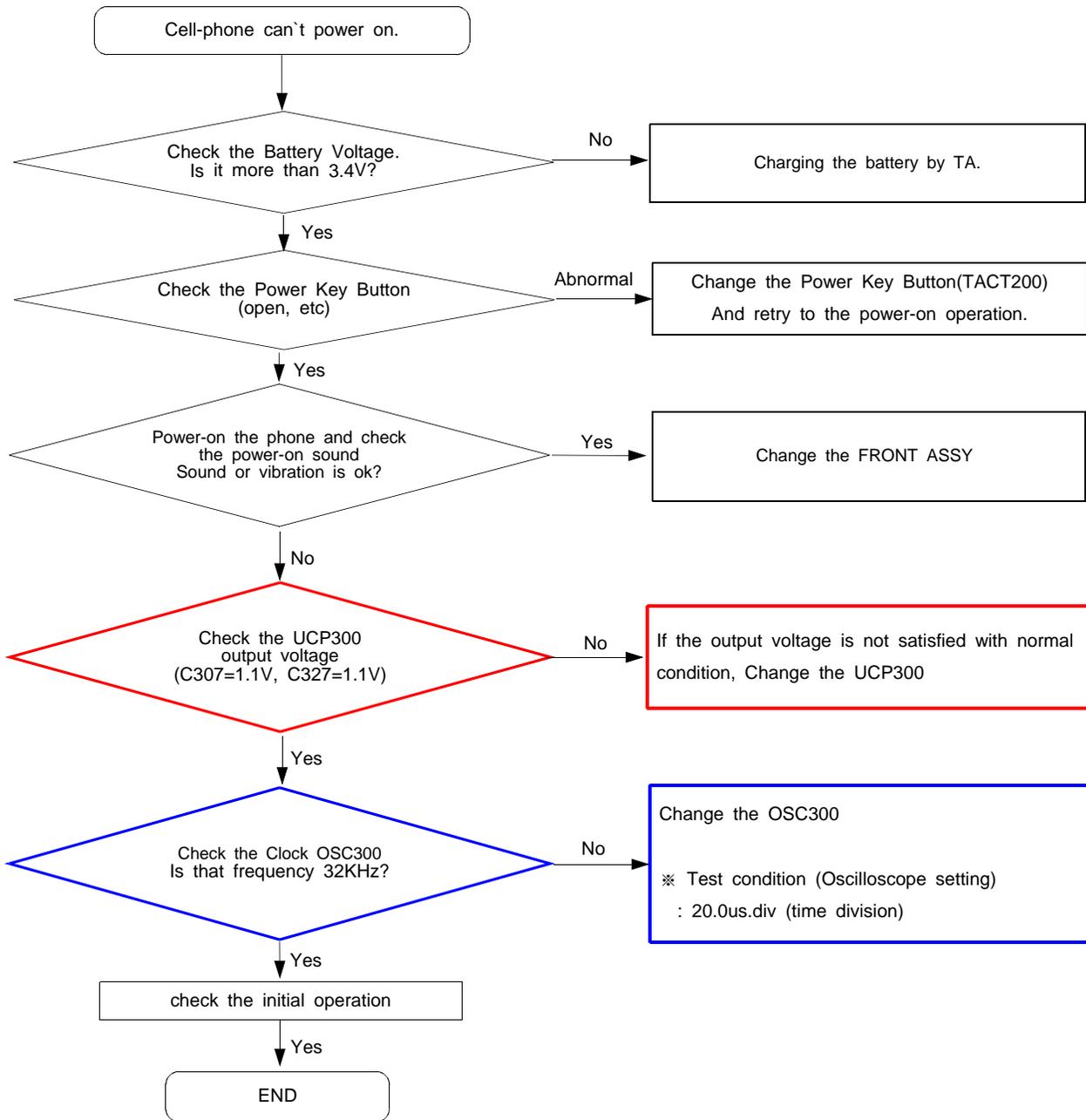


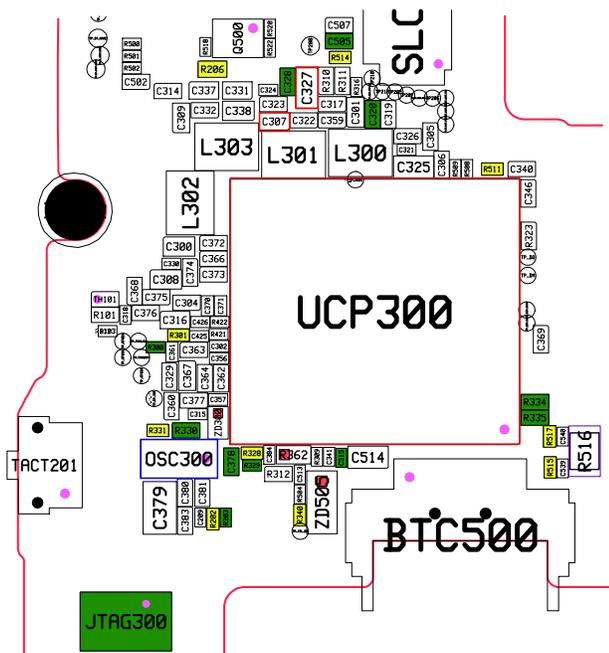
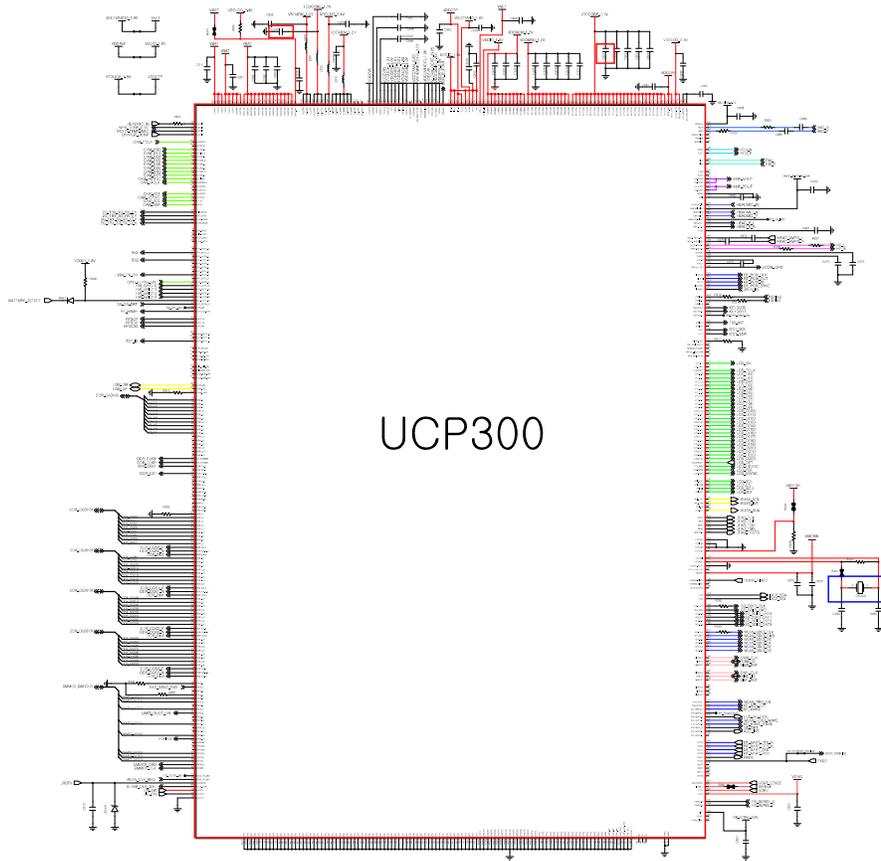
↑ 8960 & Spectrum Analyzer



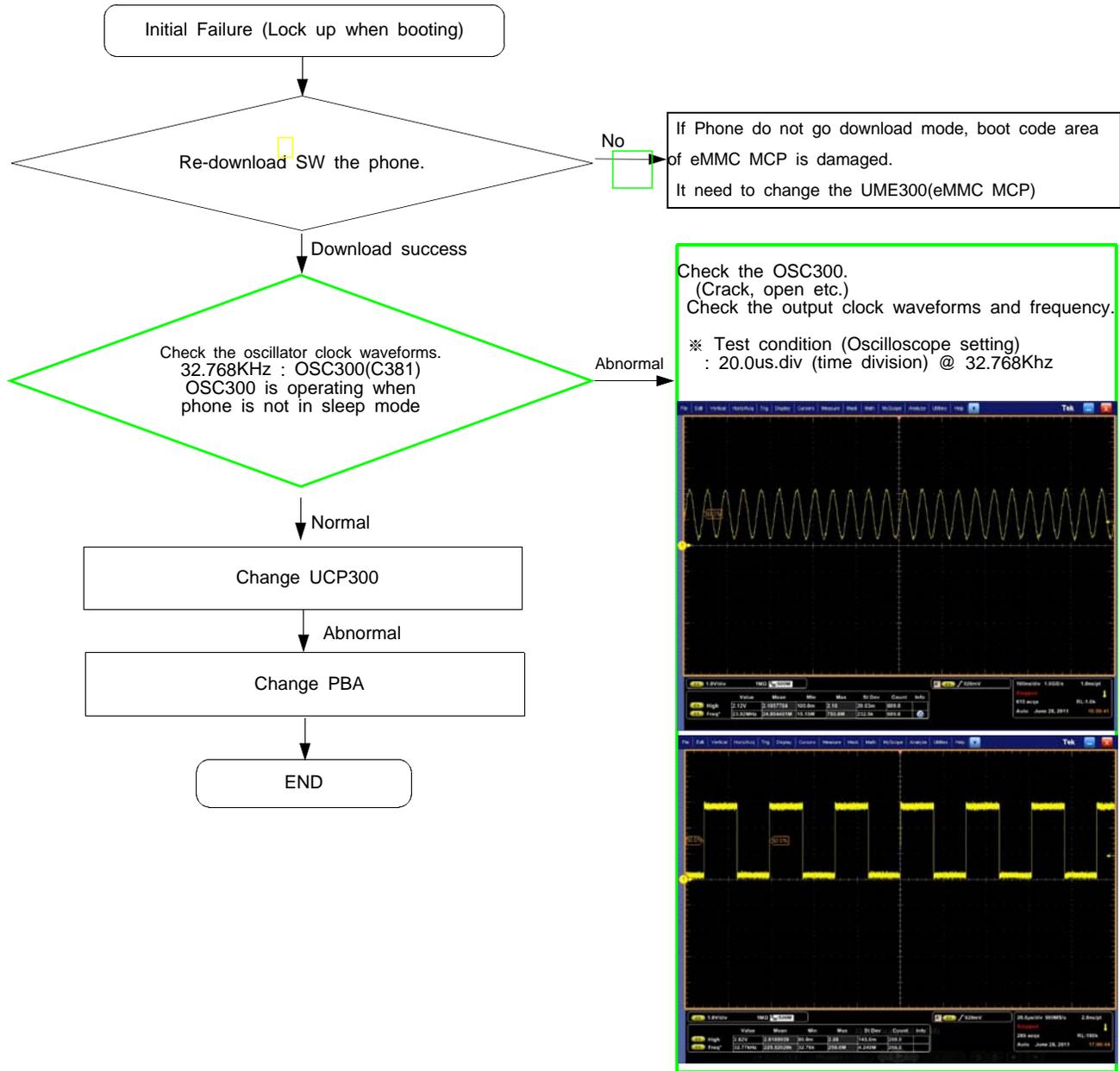
↑ Soldering iron

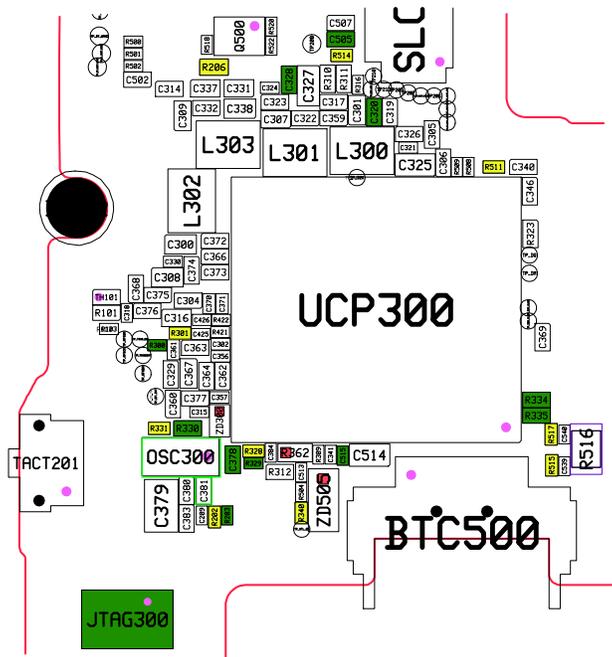
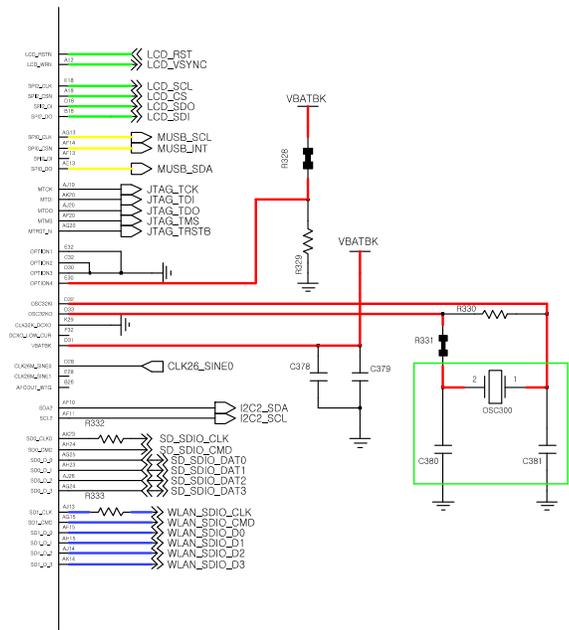
8-3-1. Power On



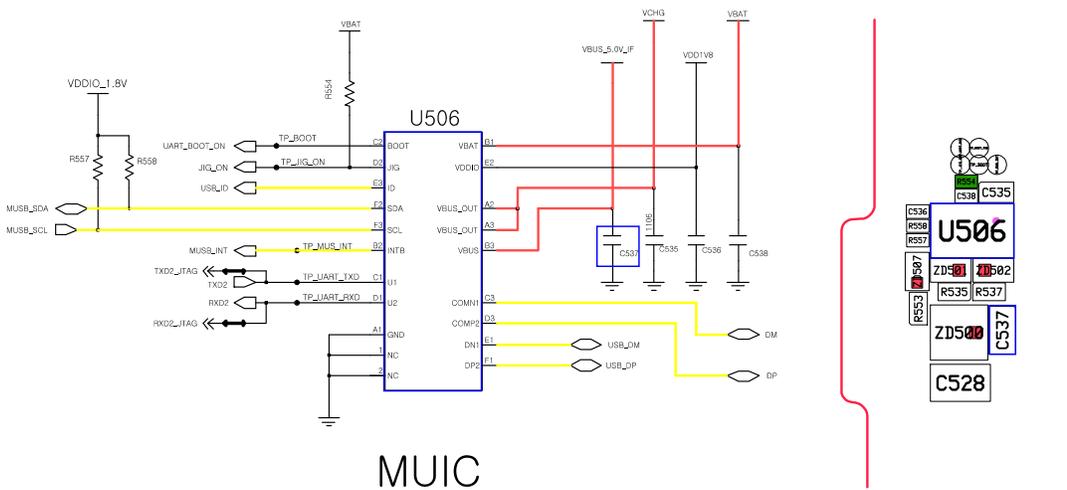
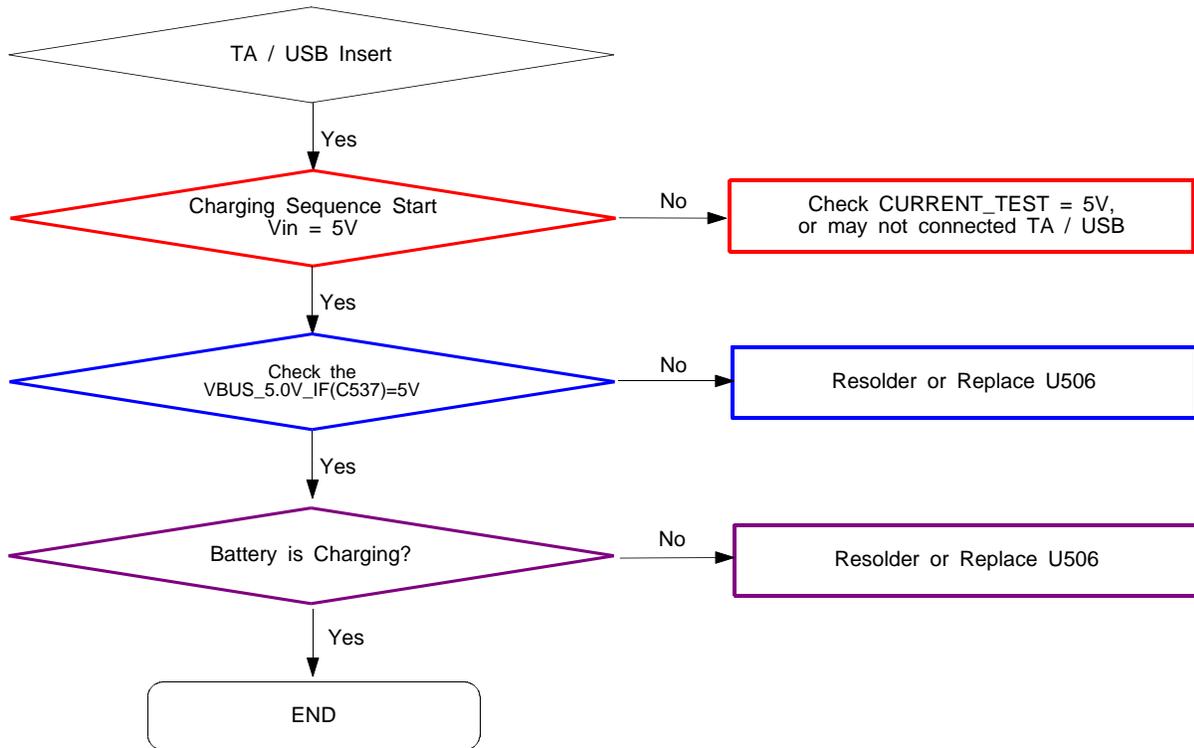


8-3-2. Initial (Lock up)

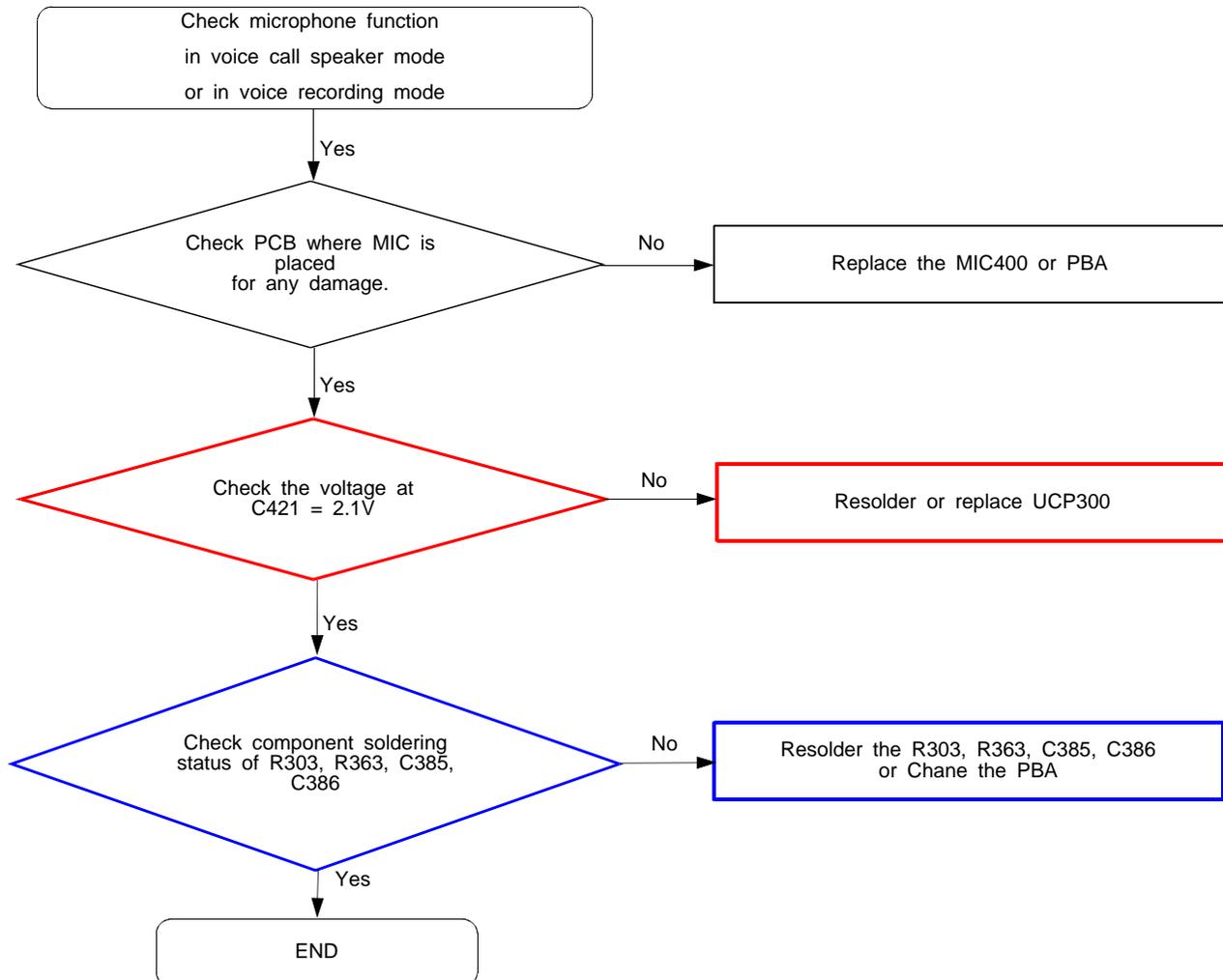


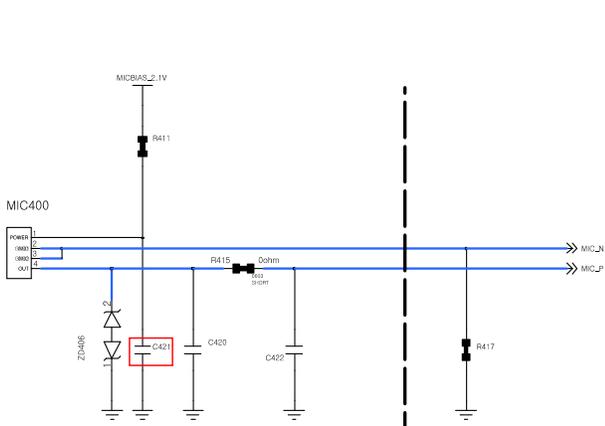


8-3-3. Charging Part

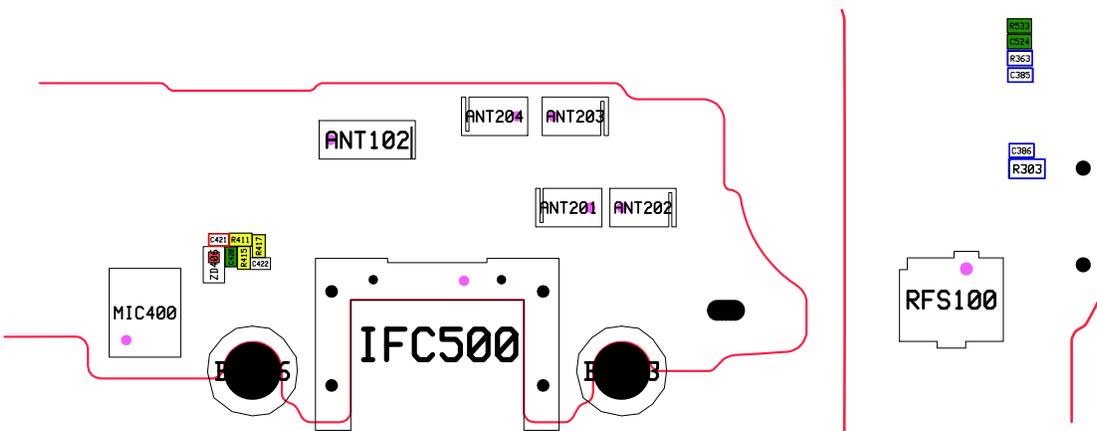
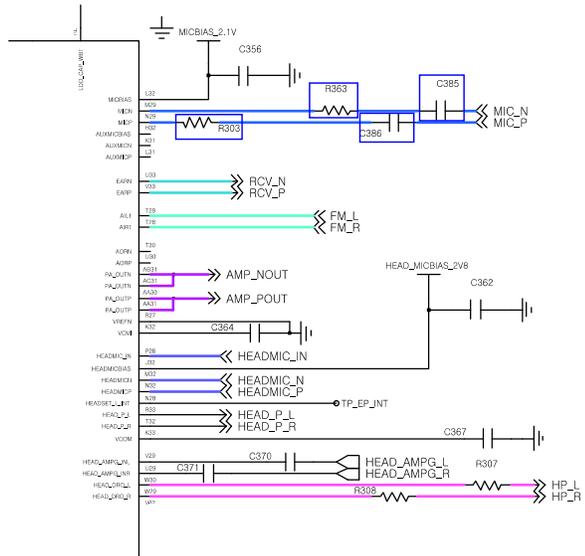


8-3-4. Microphone Part

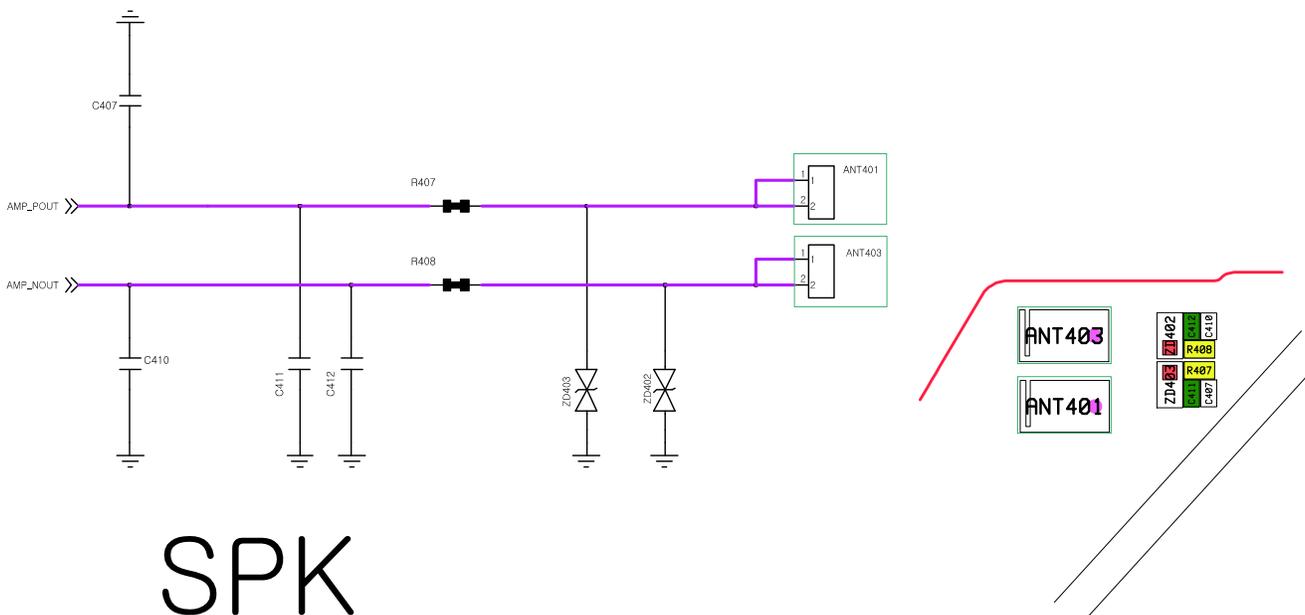
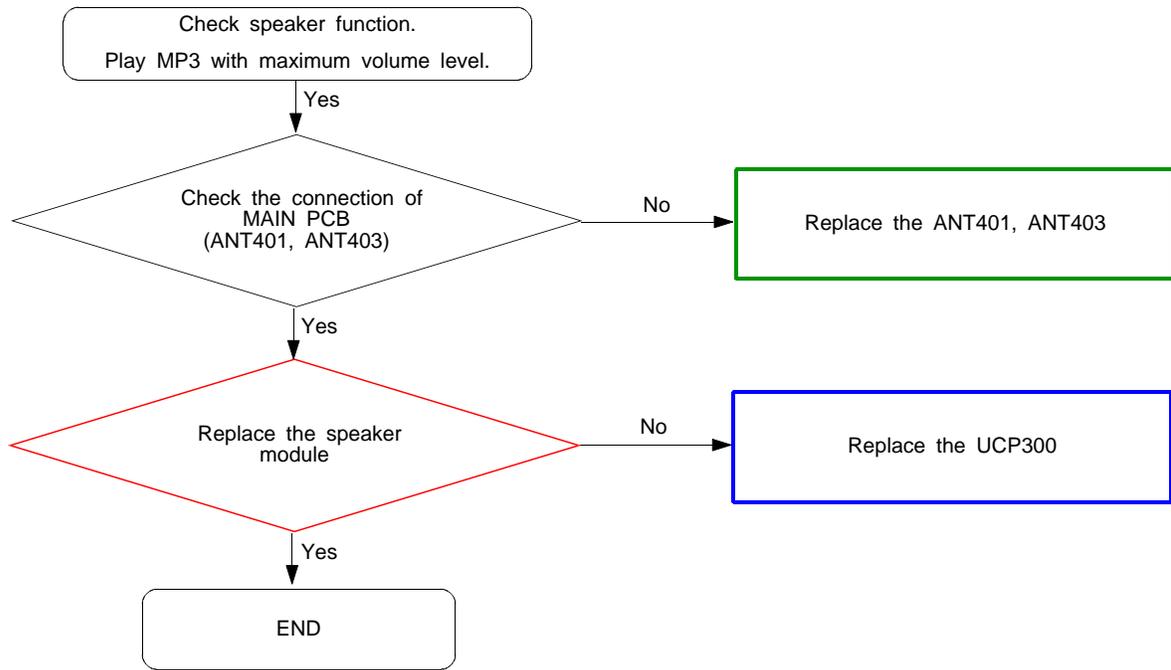




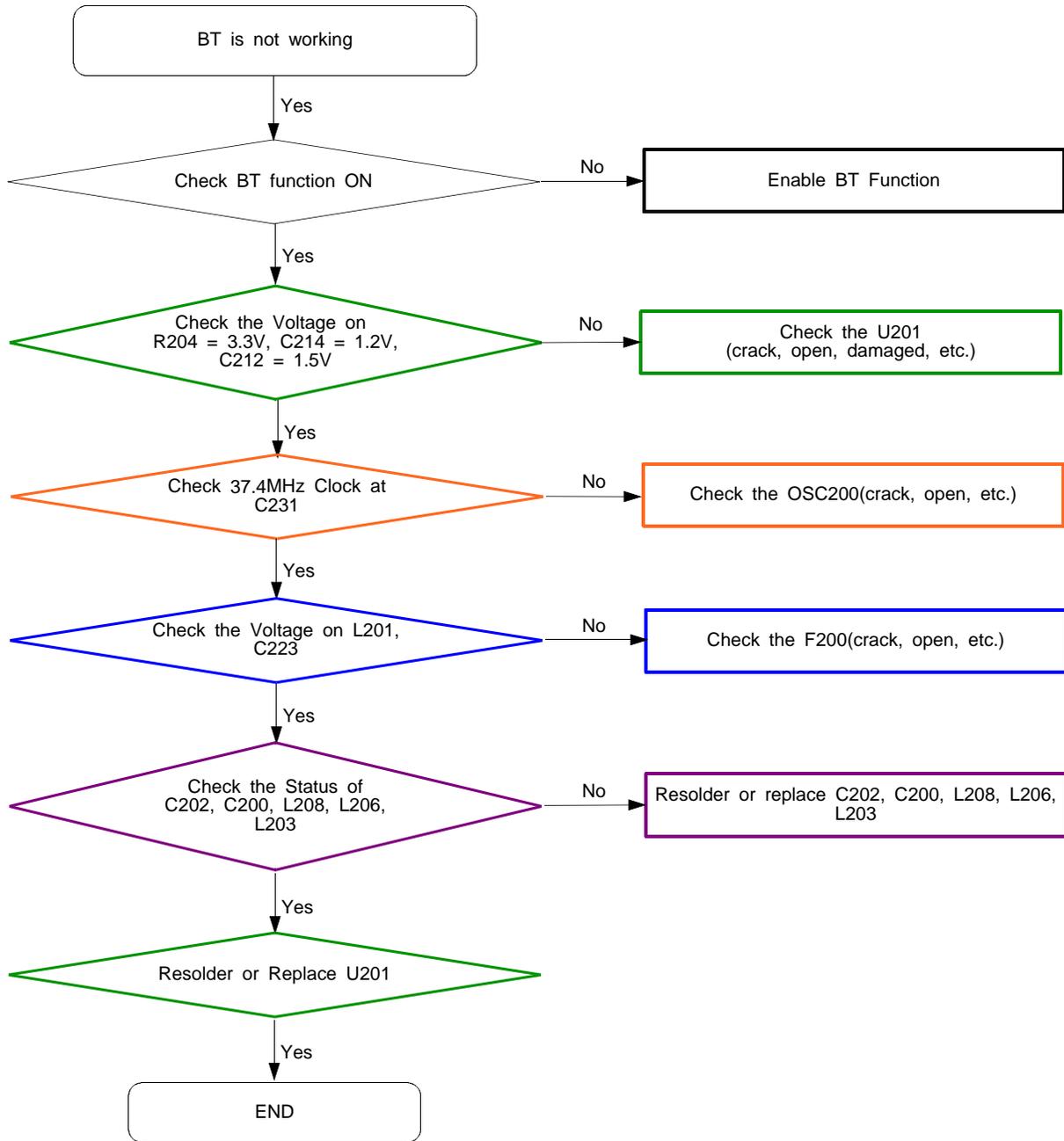
MAIN_MIC

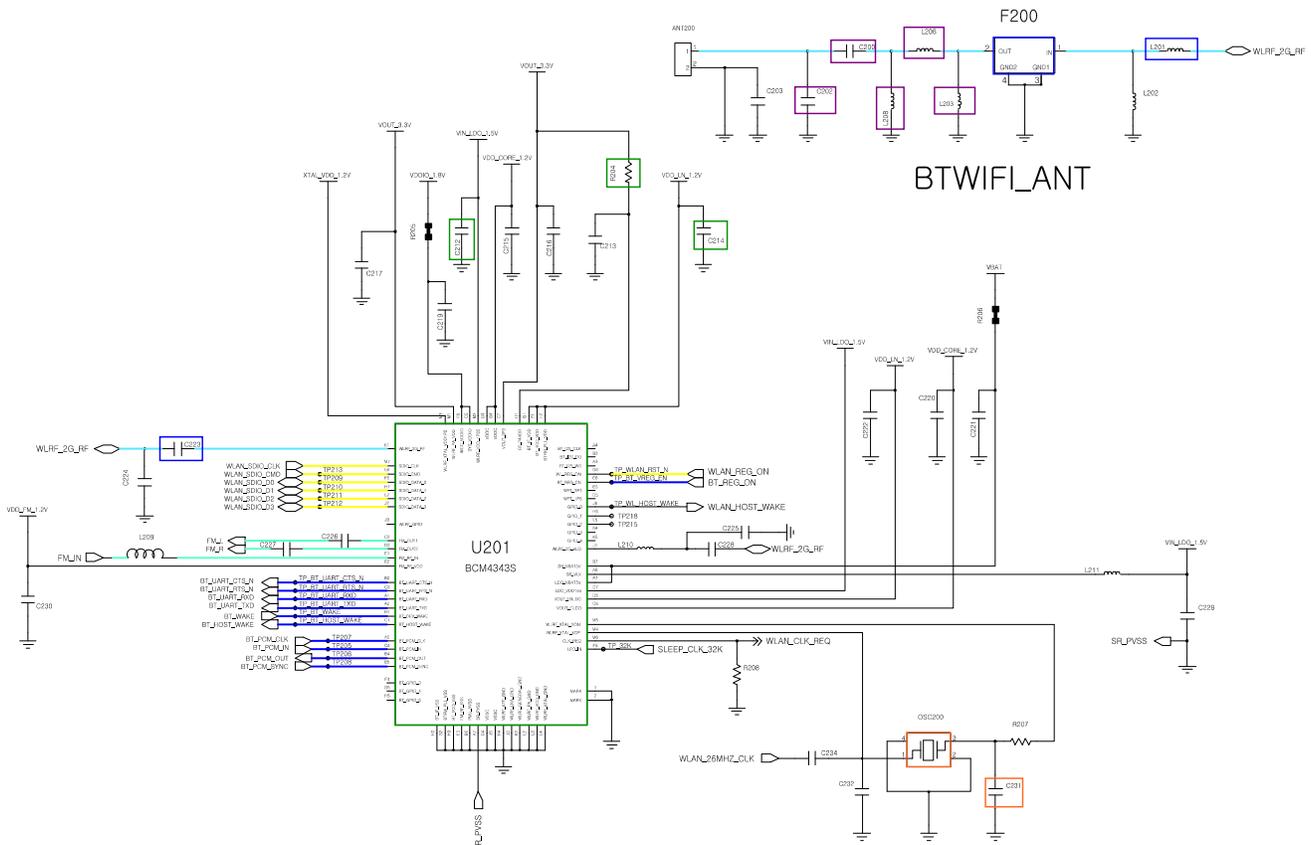


8-3-5. Speaker Part

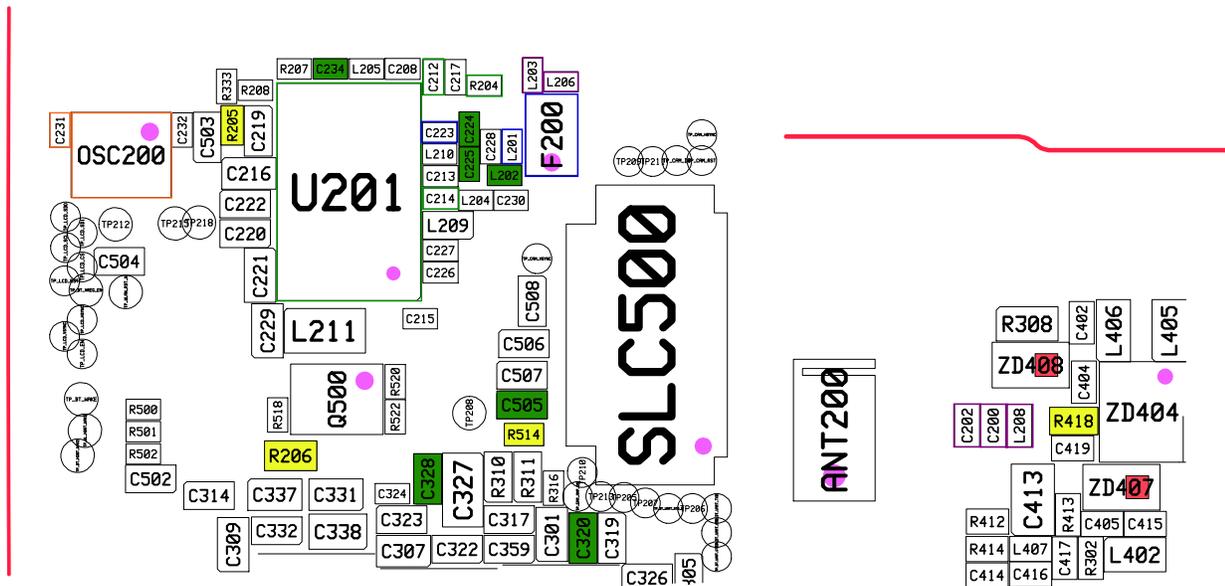


8-3-6. BT Part

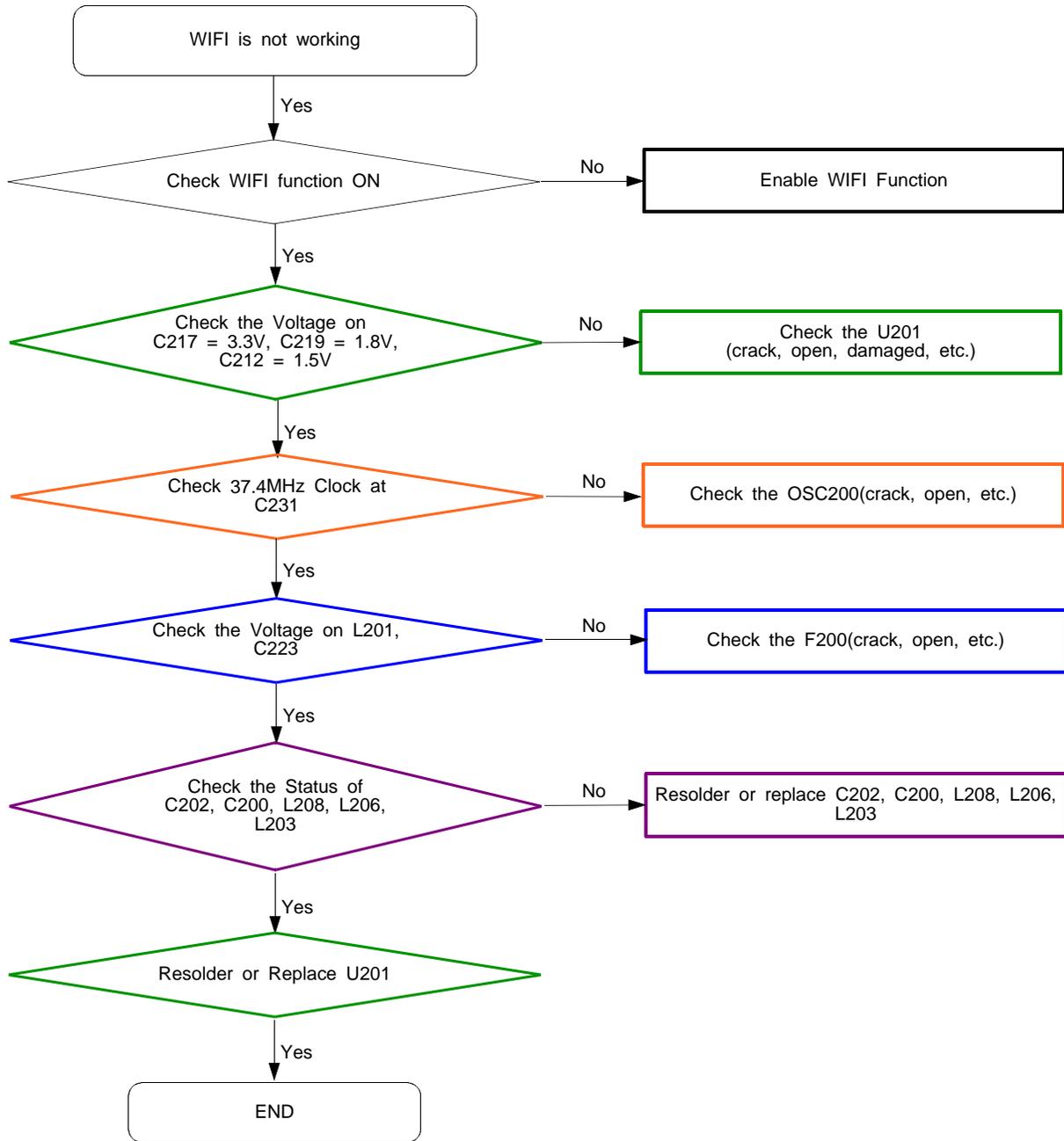




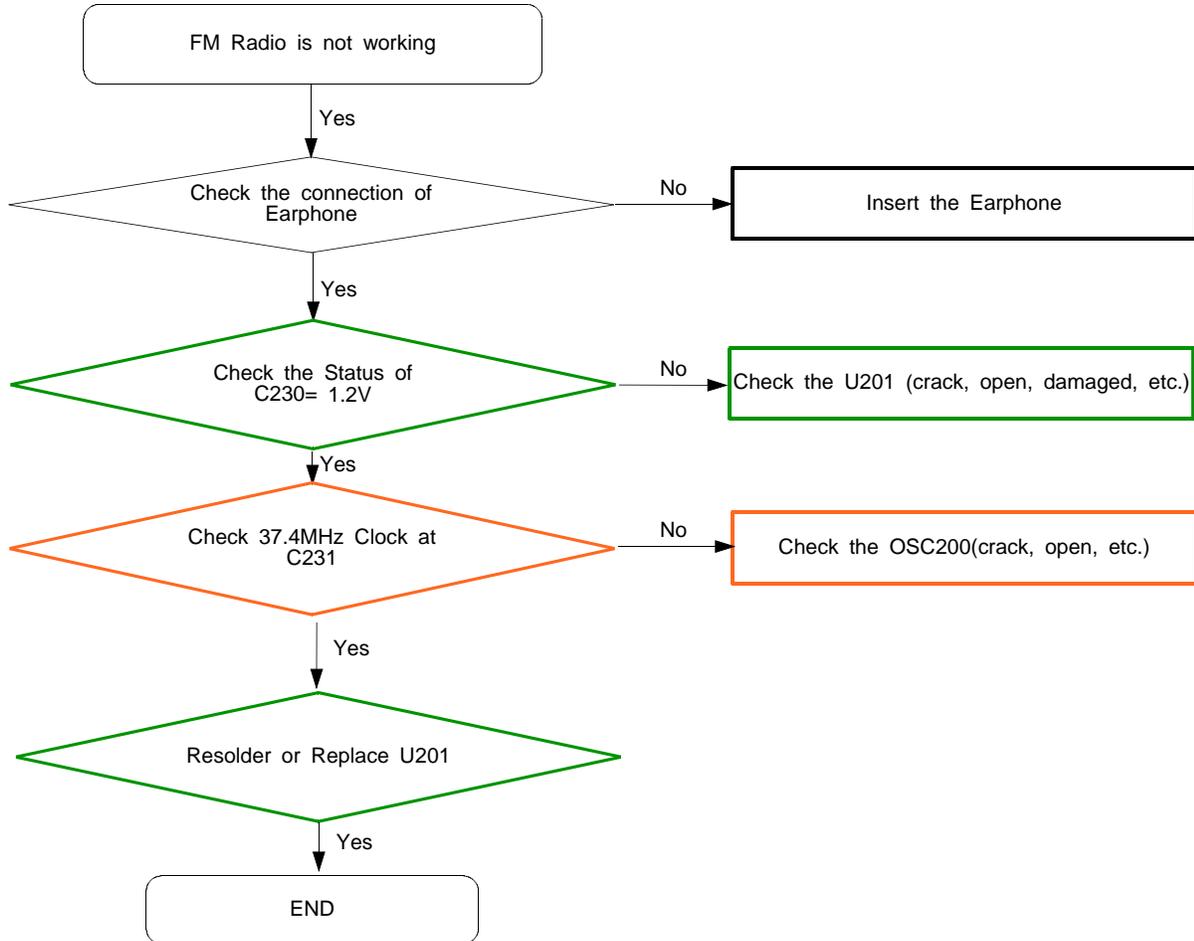
BTWIFI_FM

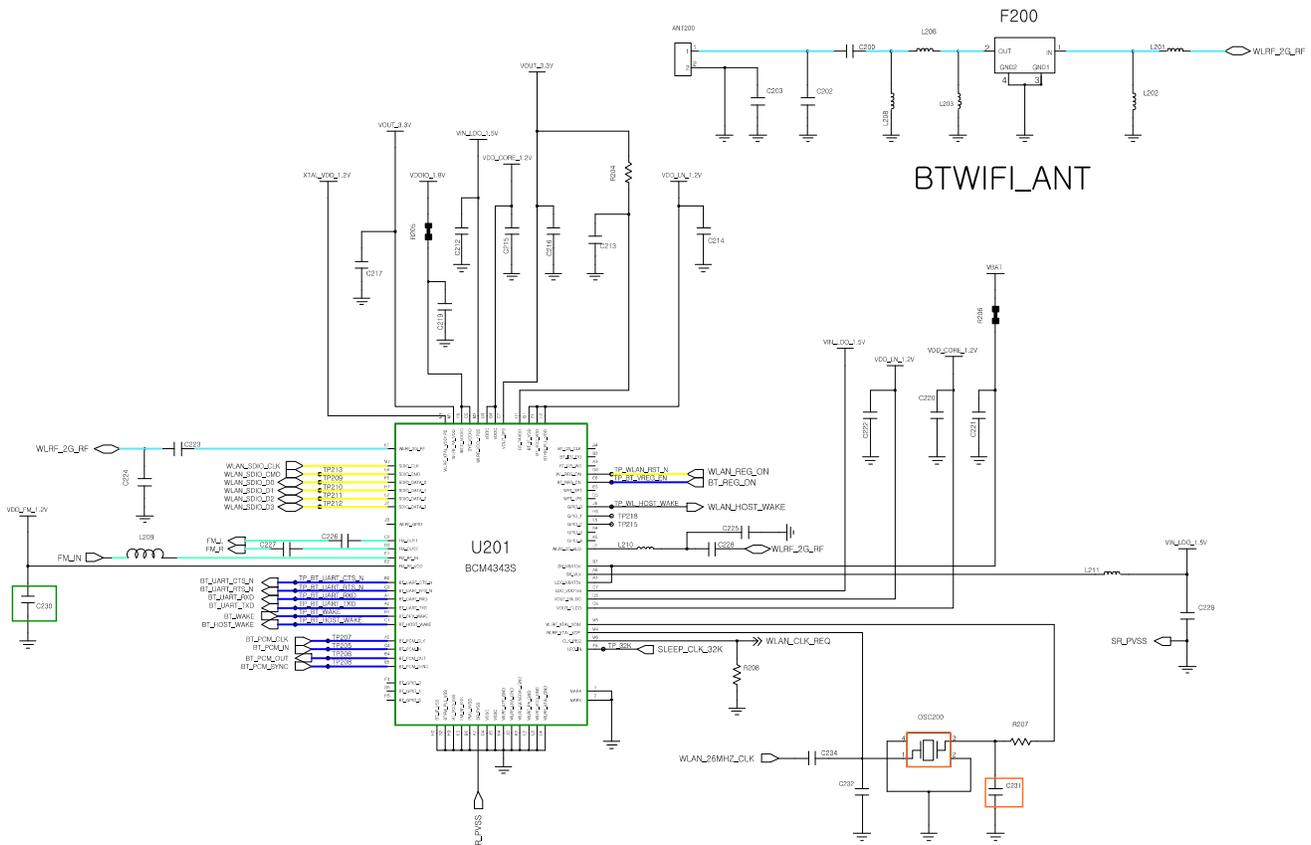


8-3-7. WIFI Part

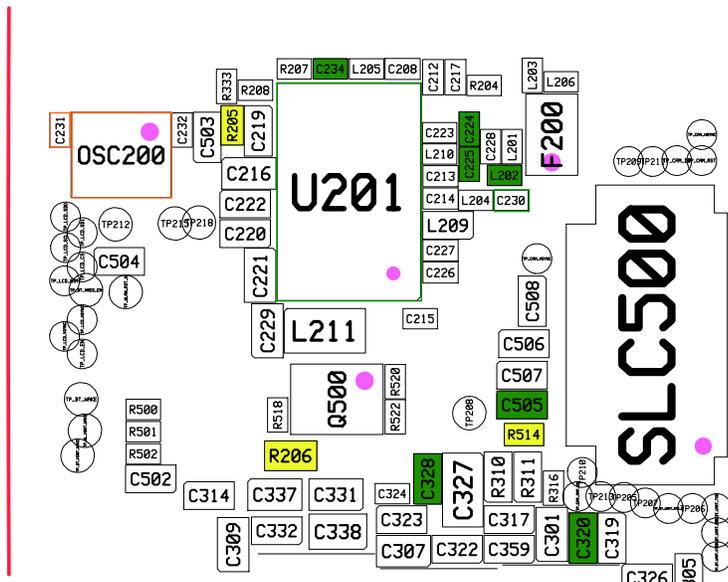


8-3-8. FM Part

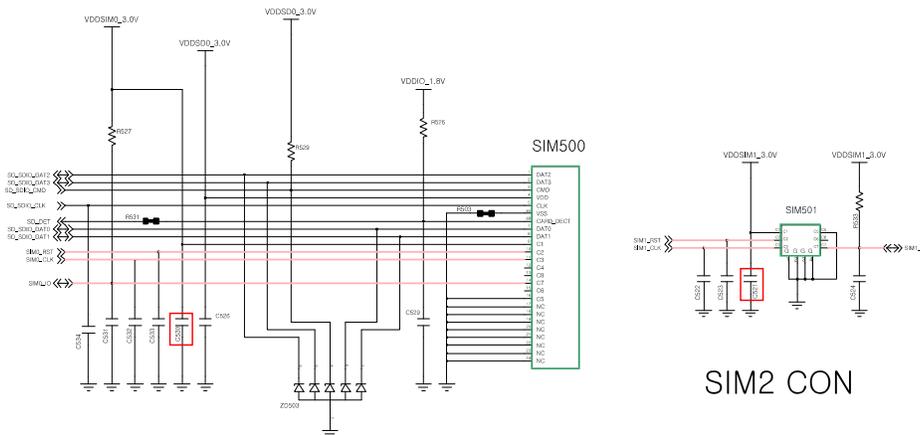
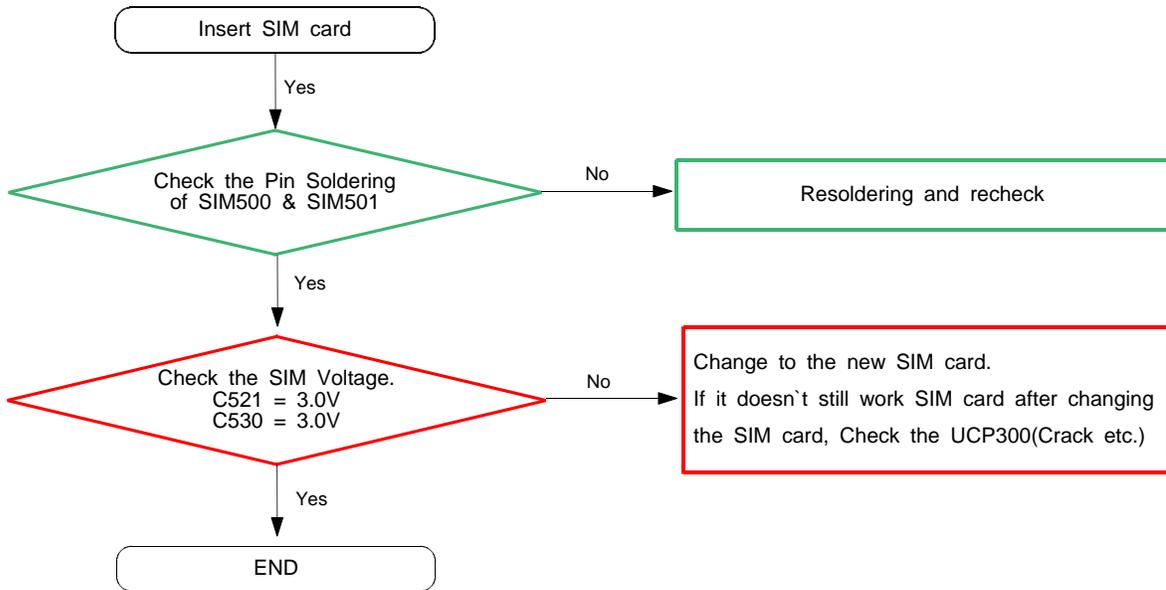




BTWIFI_FM

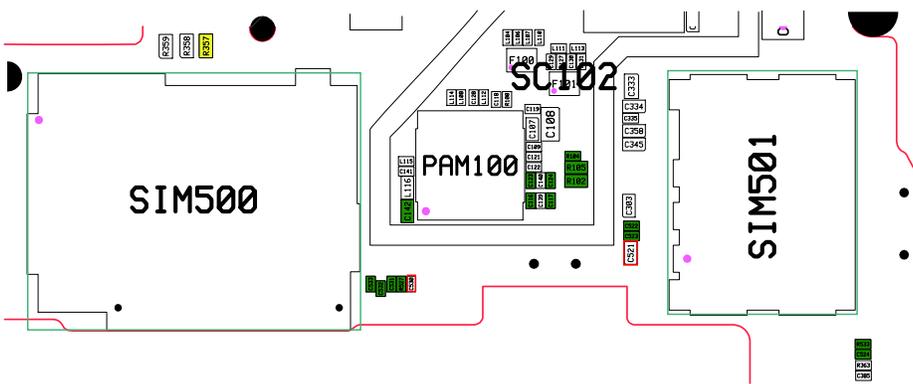


8-3-9. SIM Part

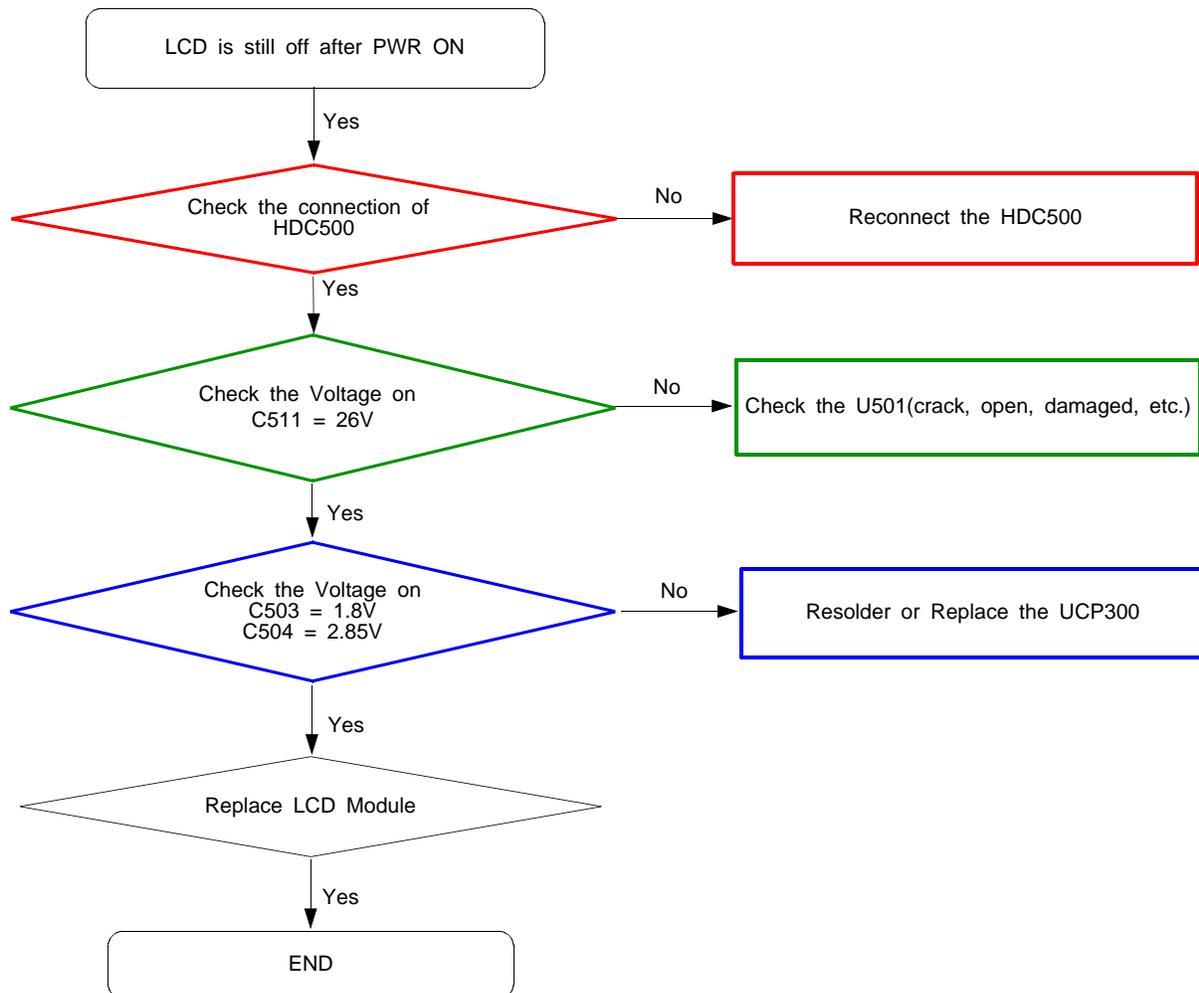


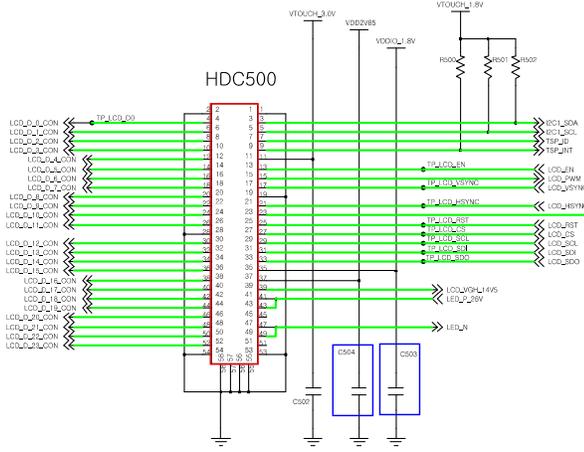
SD & SIM 1 CON

SIM2 CON

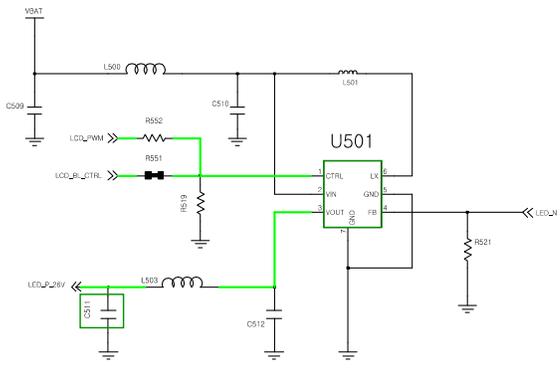


8-3-10. LCD

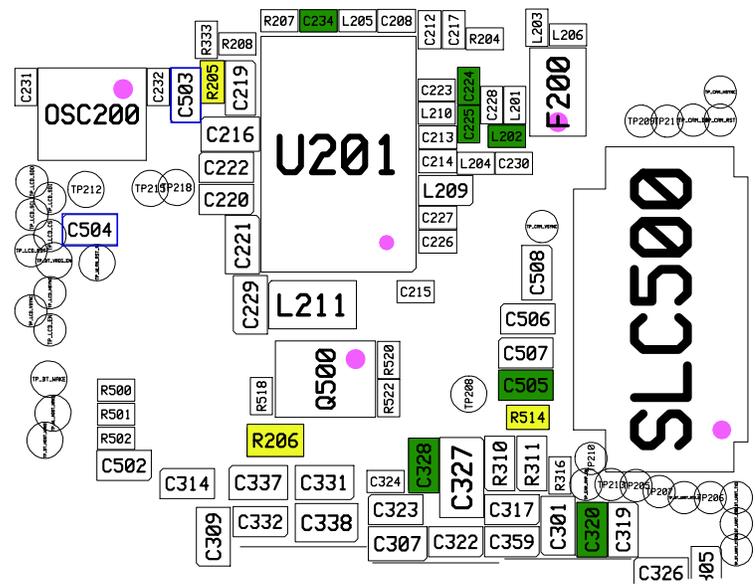
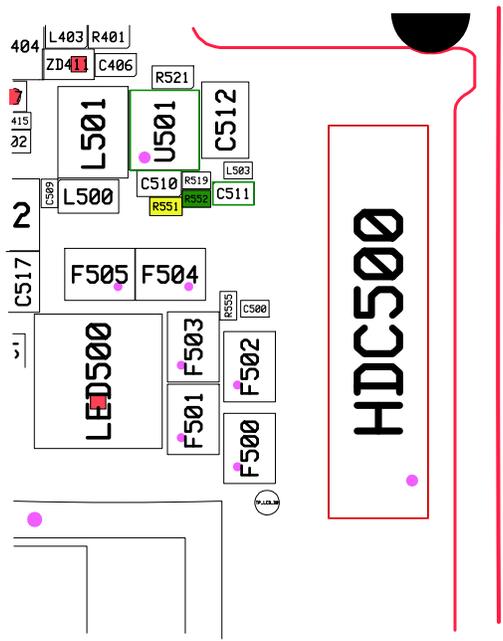




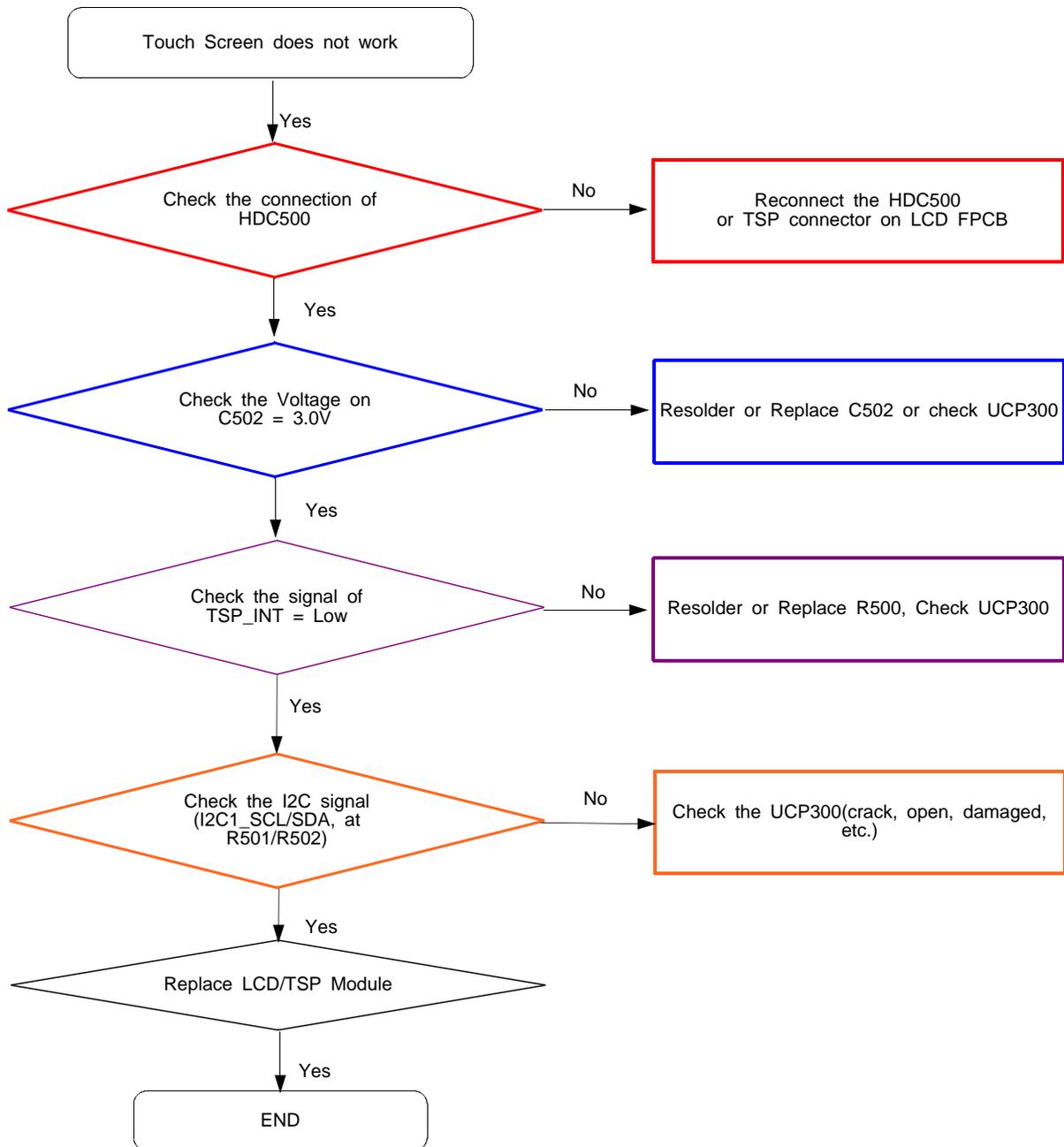
4.3" WVGA LCD CON

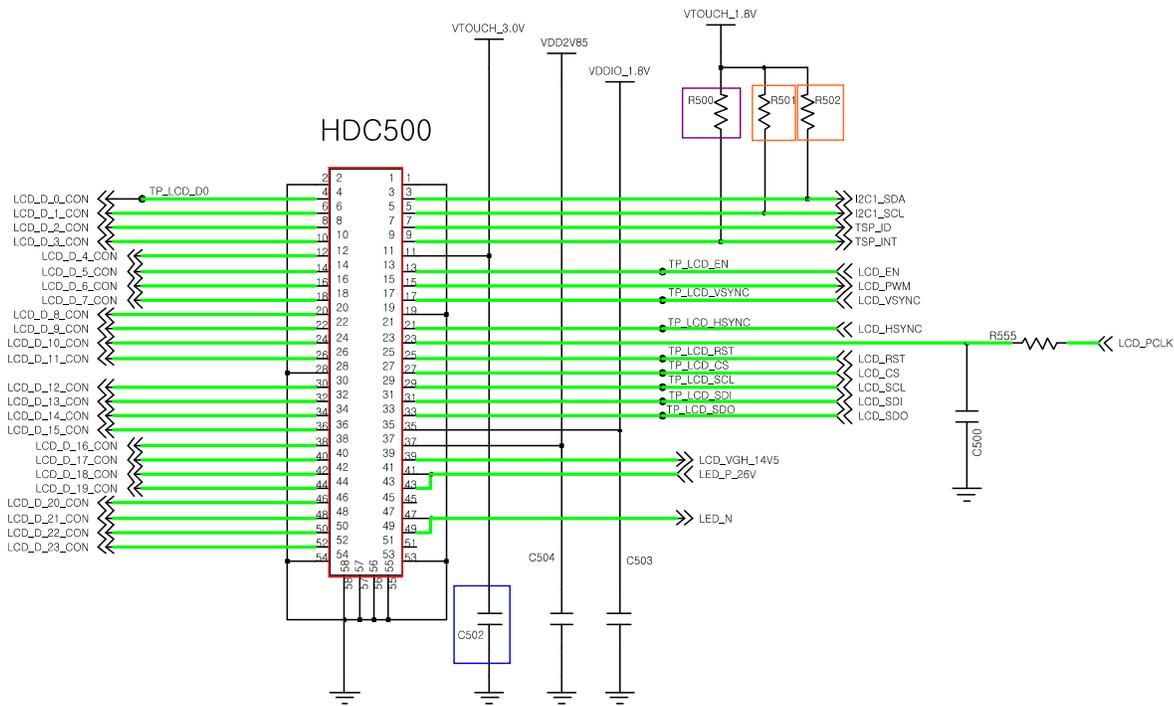


LCD BL IC

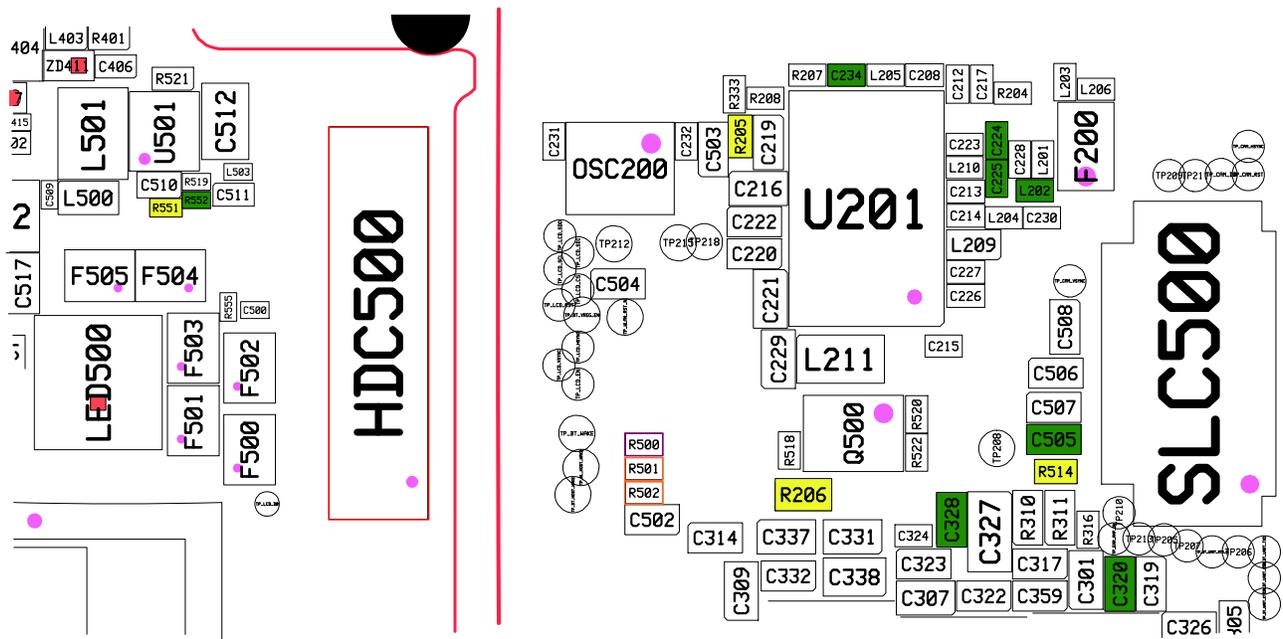


8-3-11. TSP

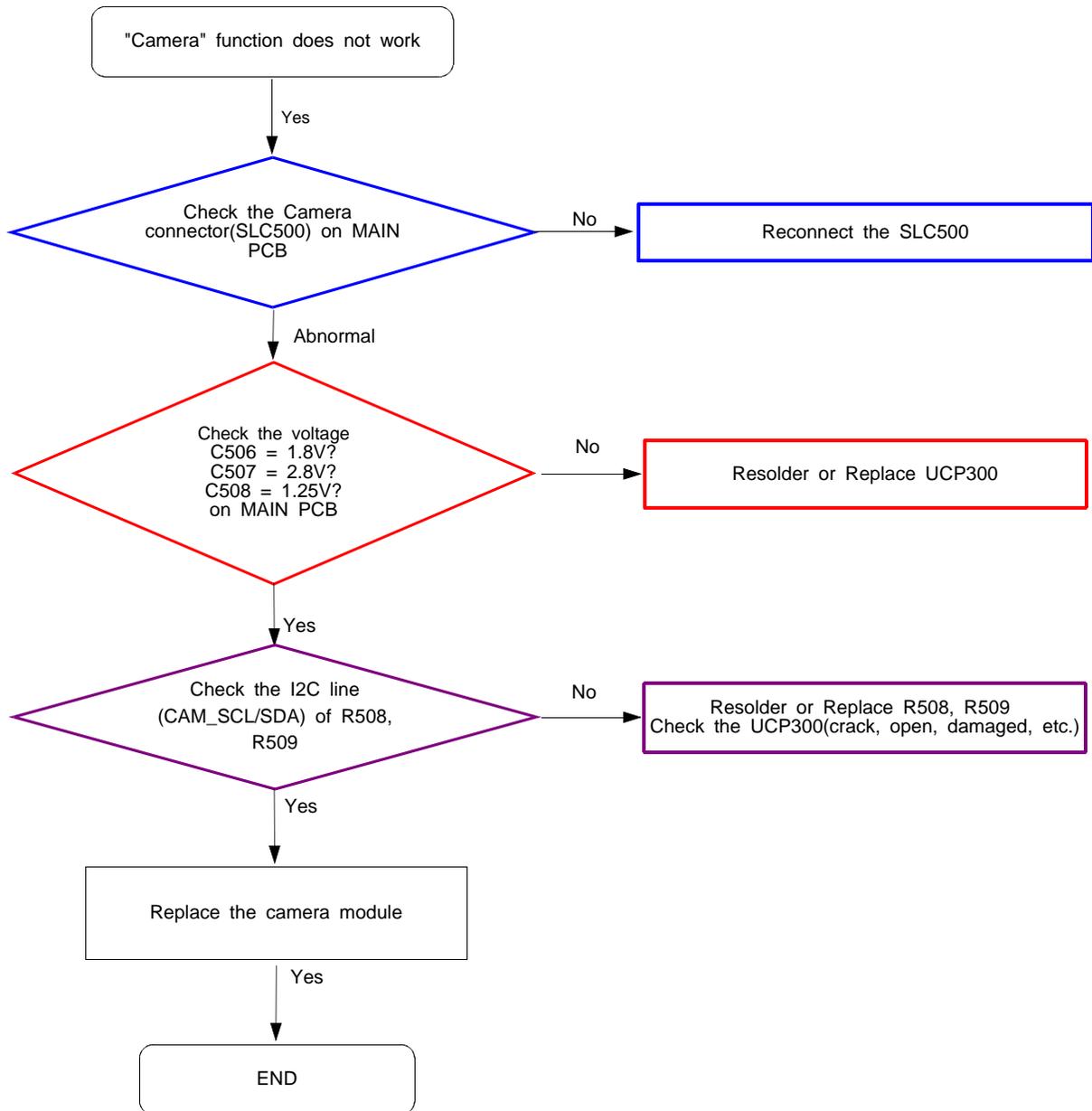


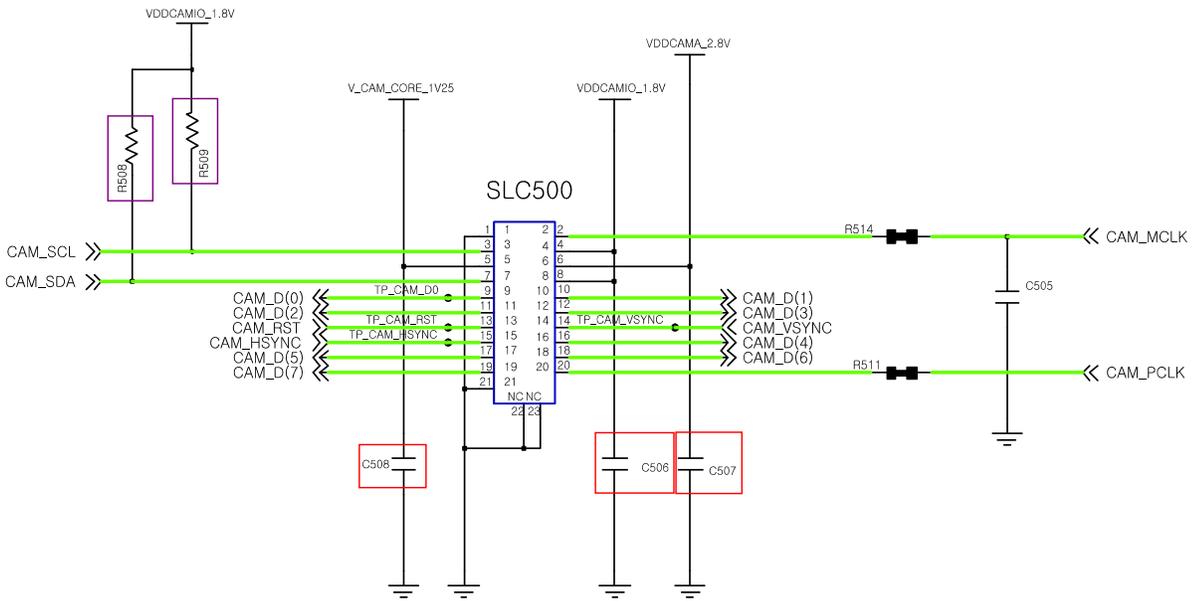


4.3" WVGA LCD CON

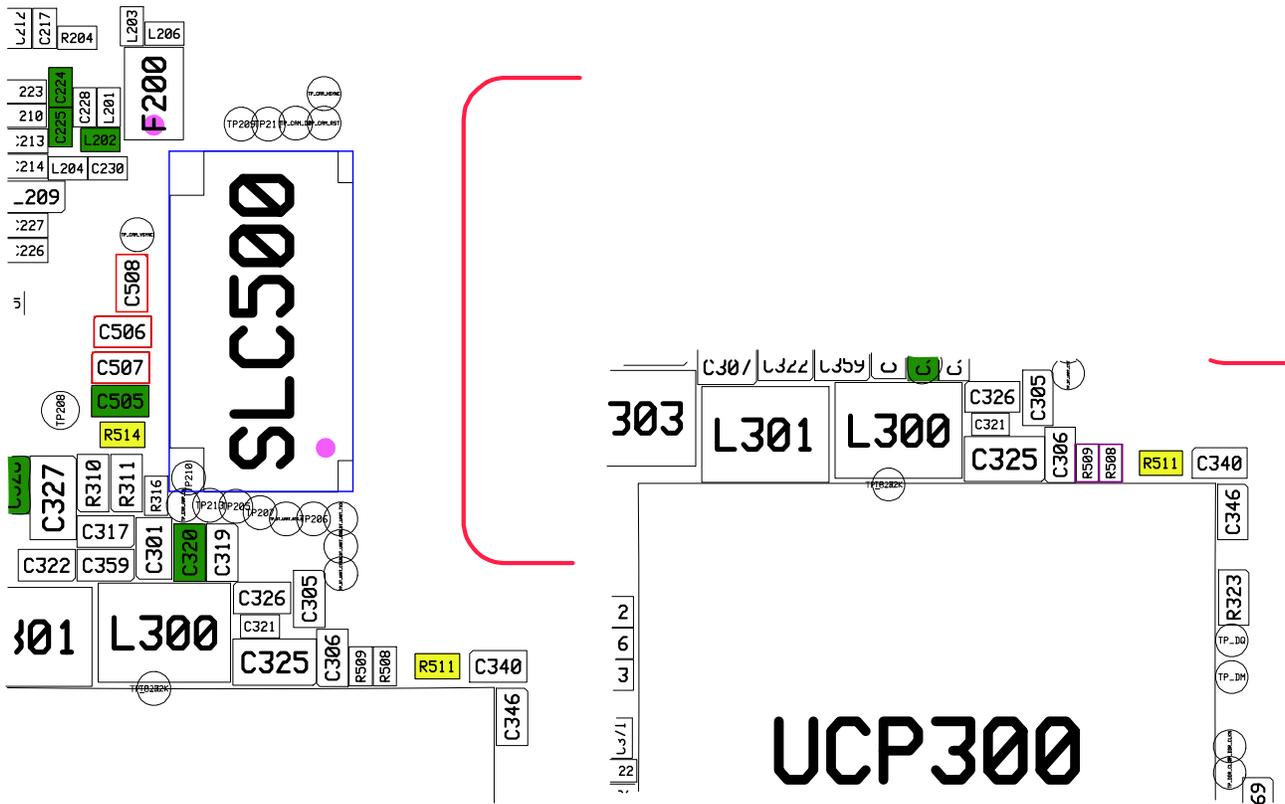


8-3-12. 3.0M CAM

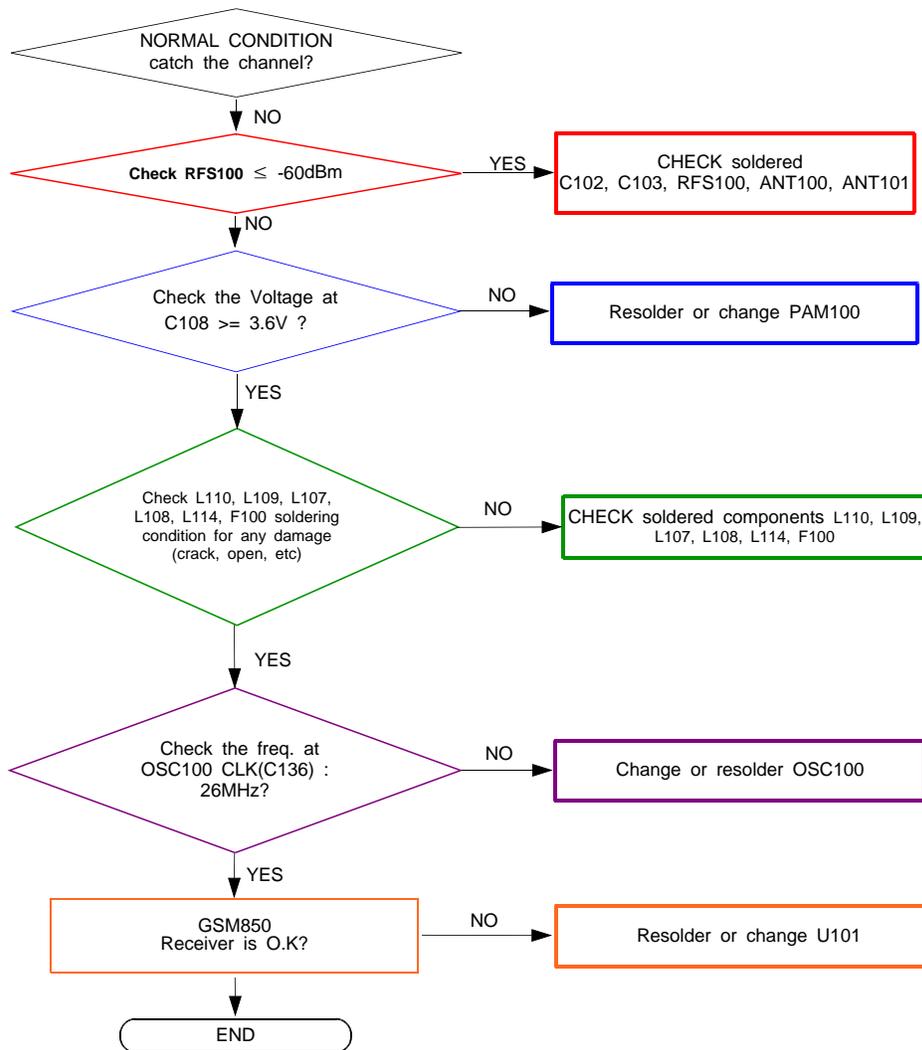




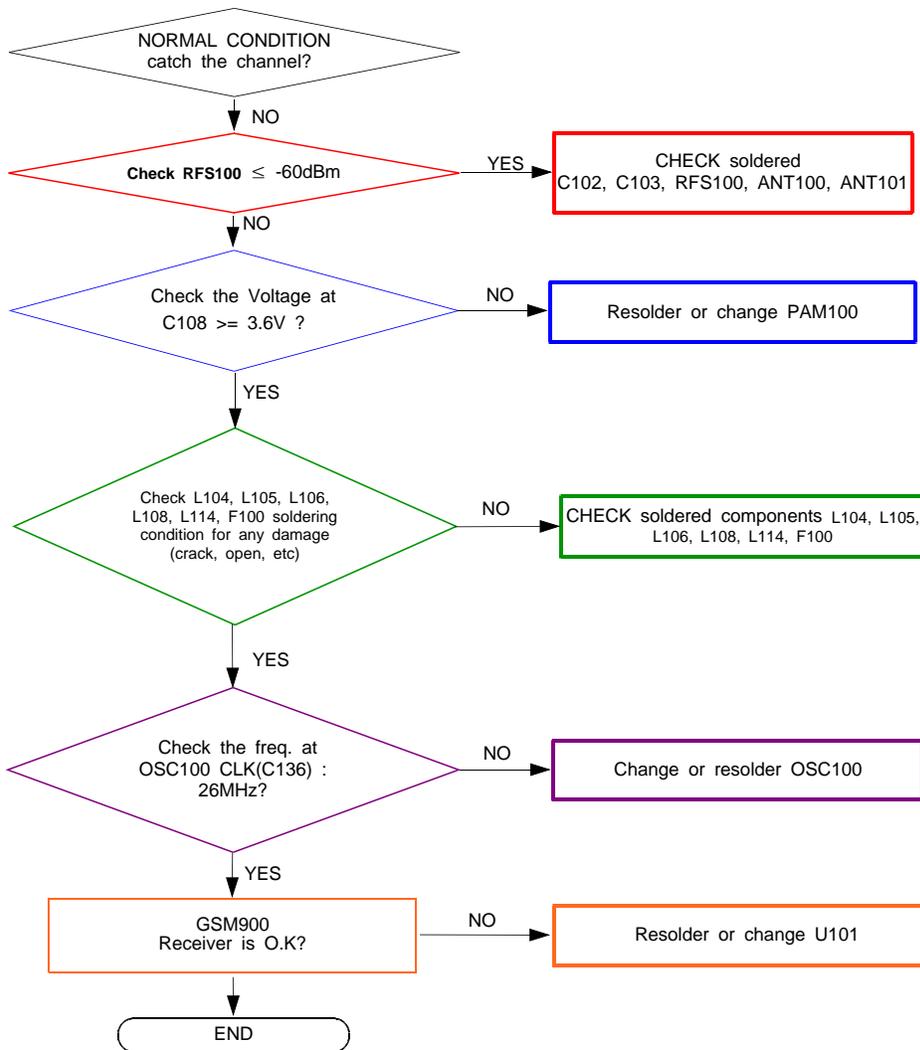
3M CAM CON



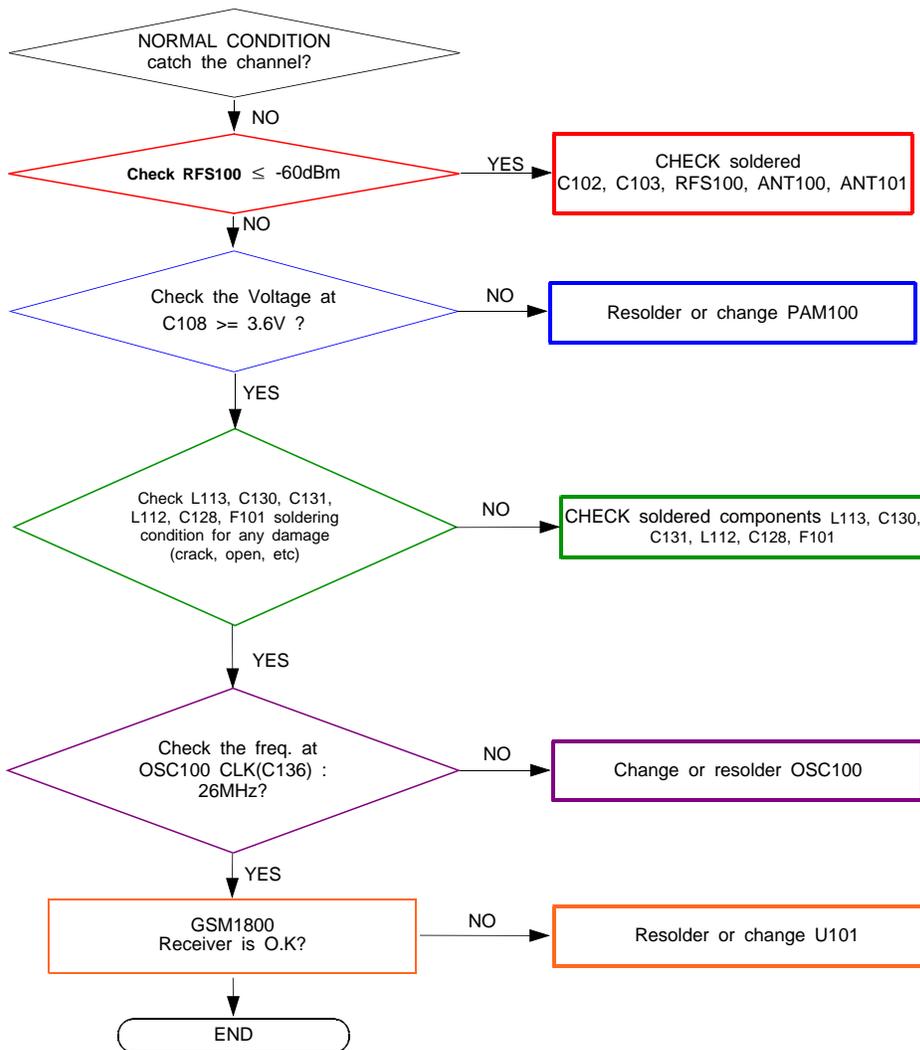
8-3-13. GSM850 RX



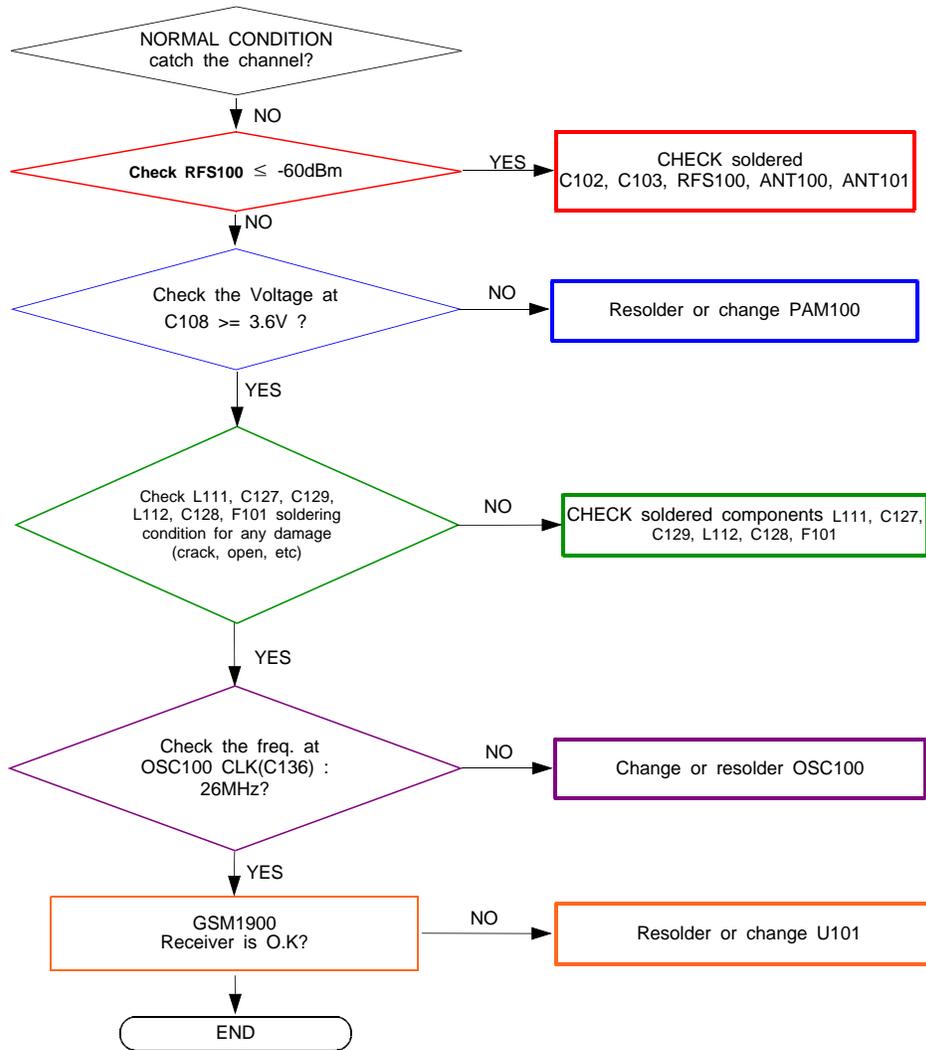
8-3-14. GSM900 RX



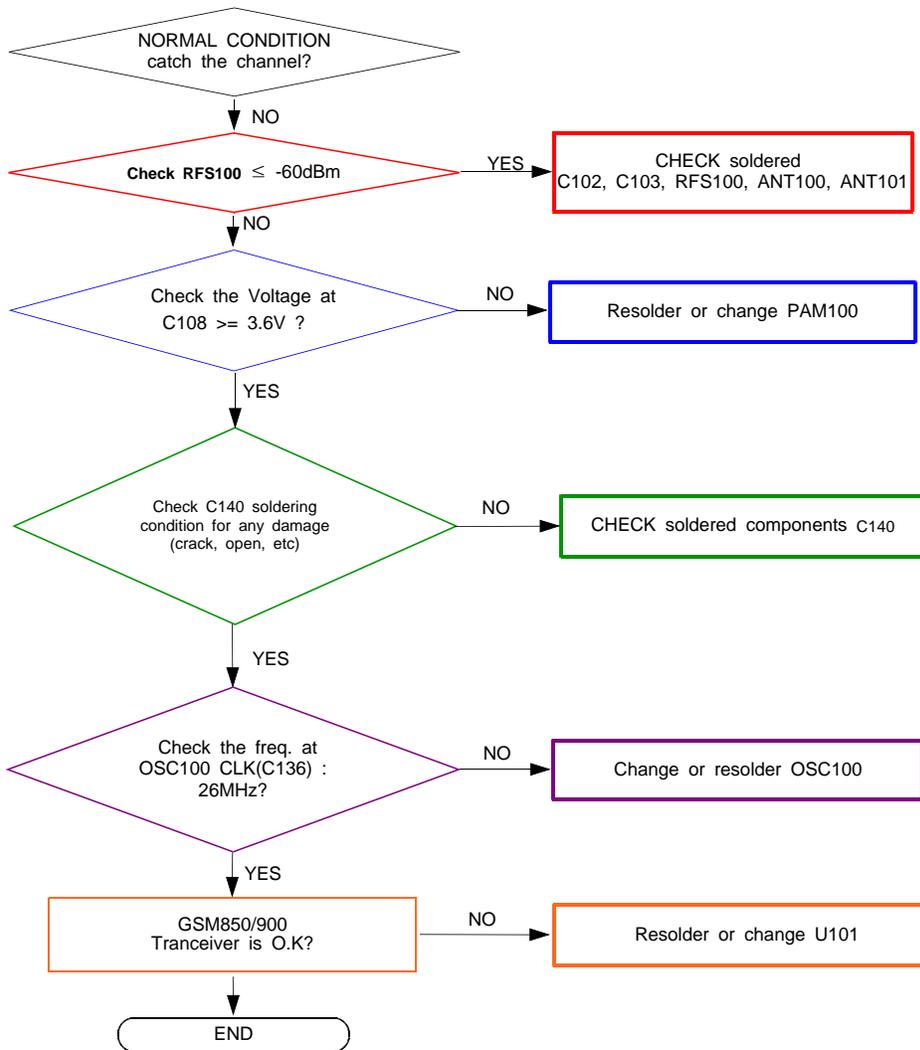
8-3-15. GSM1800 RX



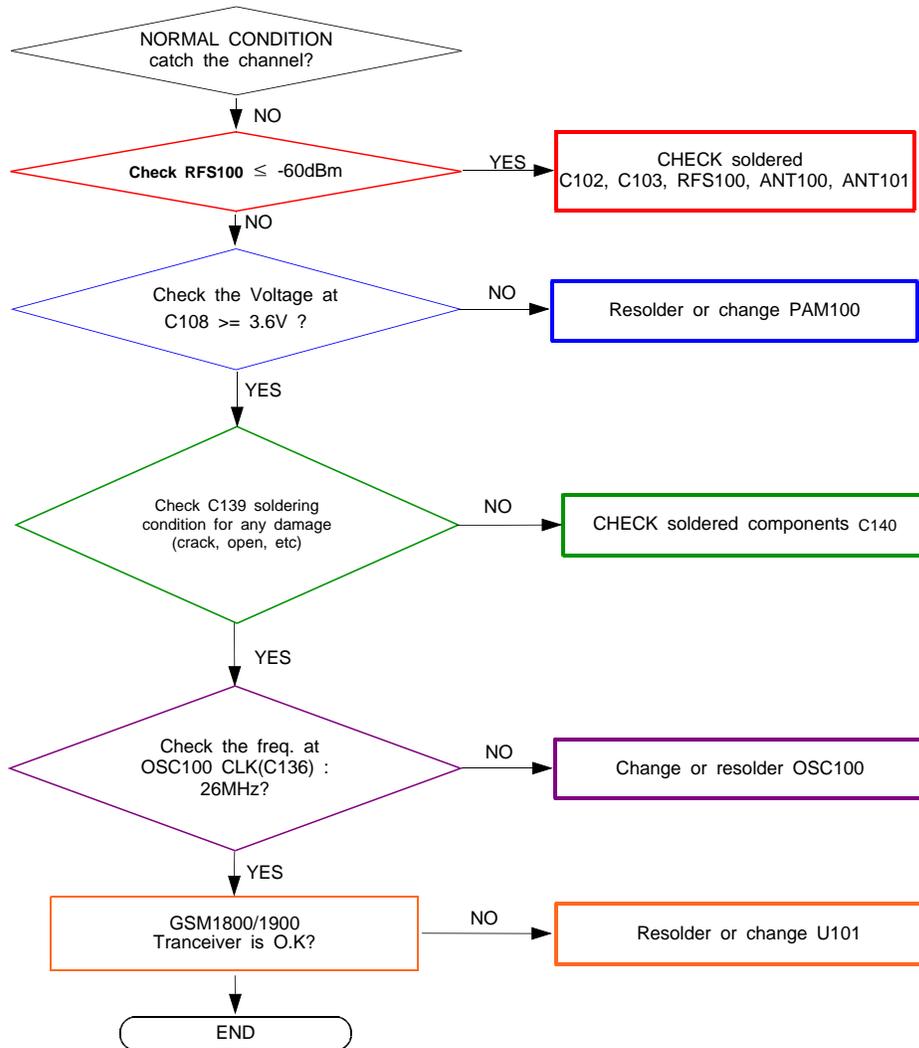
8-3-16. GSM1900 RX



8-3-17. GSM850/GSM900 TX



8-3-18. GSM1800 / GSM1900 TX



8-4. Service Schematics

UCP300

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
A	VSSQ	VSSQ	EMD[31]		NFBEX	NFB[6]		NFBEX	NFB[3]		LCD_CS0	LCD_WB	LCD_D[6]	LCD_D[10]		LCD_D[12]	LCD_D[12]	SPI2_CS	TRACEDAT[11]	BFSDAO		OP_RFCIL[2]	OP_RFCIL[11]		ADOUTL[6]	VOP_WT0			VIBR	PLASB[5]	NC	NC	
B	VSSQ	VSSQ	EMD[28]	NFBEX	NFB[7]	NFB[10]	NFB[11]	NFBEX	NFB[3]	NFB[12]	NFB[13]	LCD_D00	LCD_D[3]	LCD_D[7]	LCD_D[9]	LCD_D[12]	LCD_D[12]	SPI2_D0	TRACEDAT[4]	BFSDAO	BFSDAO	OP_RFCIL[0]	OP_RFCIL[7]	OP_RFCIL[8]	ADOUTL[6]	VOP_WT0	VIP_WT0	VIA_WT0	VIBR	PLASB[5]	NC	NC	
C	EMD[26]	EMD[25]	EMD[31]	NFBEX			NFB[14]	NFB[0]		LCD_CS0	LCD_D[0]		LCD_D[12]	LCD_D[19]		LCD_D[19]		SPI2_D1	TRACEDAT[5]	TRACEDAT[5]		OP_RFCIL[3]	OP_RFCIL[19]		VIP_WT0	VOP_WT0	OPLED	MPLER[BO/VP]	EMD[102]	EMD[102]	EMD[102]		
D			EMD[31]	NFBEX	NFB[5]	NFB[0]	NFB[11]	NFB[0]	NFB[9]	LCD_CS0	LCD_D[3]		LCD_D[8]	LCD_D[13]	LCD_D[16]			SPI2_D1	TRACEDAT[6]	TRACEDAT[6]		OP_RFCIL[6]	OP_RFCIL[13]	OP_RFCIL[11]		VIP_WT0	VSSQ	CLK200_S	OP1003	VRATR	OP1003	OP1003	
E	EMD[27]	EMD[30]	EMD[28]		NFBEX	NFB[4]	VXF[1]	VXF[2]	NFB[2]	NFB[13]	LCD_D0	LCD_D[11]	LCD_D[5]	LCD_D[14]	LCD_D[18]	LCD_D[22]		SPI2_CLK	TRACEDAT[7]	TRACEDAT[7]		OP_RFCIL[13]	OP_RFCIL[15]	OP_RFCIL[15]	OP_RFCIL[15]	VOP_WT0	VOP_WT0	CLK200_S	OP1004	OP1004	OP1004	OP1004	
F	EMD[16]	EMD[41]	EMD[31]	VSSQ						LCD_D0	LCD_D[11]	LCD_D[2]		LCD_D[17]	LCD_D[23]			TRACEDAT[2]	TRACEDAT[2]		OP_RFCIL[11]	OP_RFCIL[10]	VIP_2					ABCT1	ABCT1	ABCT1	ABCT1		
G		EMD[14]	EMD[13]																									ABCT2	ABCT2	EXTSTY	EMD[10]	VOP2[8]	
H	EMD[13]			EMD[5]	VSSQ																												VOP2[9]
J	EMD[11]	EMD[8]	EMD[12]	EMD[5]	VSSQ	VSSQ			VIBR		VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR							
K	EMD[10]	EMD[9]							VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR
L	EMD[10]	EMD[11]	EMD[12]	EMD[5]	VSSQ				VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR
M	EMD[10]	EMD[11]	EMD[12]	EMD[5]	VSSQ				VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR
N	EMD[10]	EMD[11]	EMD[12]	EMD[5]	VSSQ				VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR
P	EMD[4]	EMD[5]	EMD[6]	EMD[7]					VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR
R			EMD[10]	EMD[11]	EMD[12]	EMD[5]	VSSQ		VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR
T	EMD[8]	EMD[14]	EMD[12]	EMD[7]	EMD[11]				VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR
U	EMD[15]	EMD[15]	EMD[12]	EMD[2]	EMD[11]				VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR
V	EMD[11]	EMD[12]	EMD[14]	EMD[3]	VSSQ				VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR
W		EMD[10]	EMD[10]	VSSQ					VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR
Y	EMD[10]	EMD[10]	EMD[10]	VSSQ					VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR
AA	EMD[16]	EMD[17]	EMD[10]	EMD[10]	VSSQ				VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR
AB	EMD[17]	EMD[17]	EMD[17]	EMD[17]					VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR
AC			EMD[11]						VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR
AD	EMD[10]	EMD[10]	EMD[10]	VSSQ	VSSQ				VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR
AE	EMD[19]	EMD[23]	EMD[23]	VSSQ		SCL0		VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR
AF	EMD[20]	EMD[23]	EMD[23]	VSSQ		SCL0		VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR	VIBR
AG	EMD[17]	EMD[18]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]	EMD[21]								
AH	EMD[22]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]									
AJ	VSSQ	VSSQ	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]								
AK	VSSQ	VSSQ	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]	EMD[16]								