



DUAL BAND Mobile Cellular Phone SGH-S500

SERVICE Manual

DUAL BAND MOBILE CELLULAR PHONE



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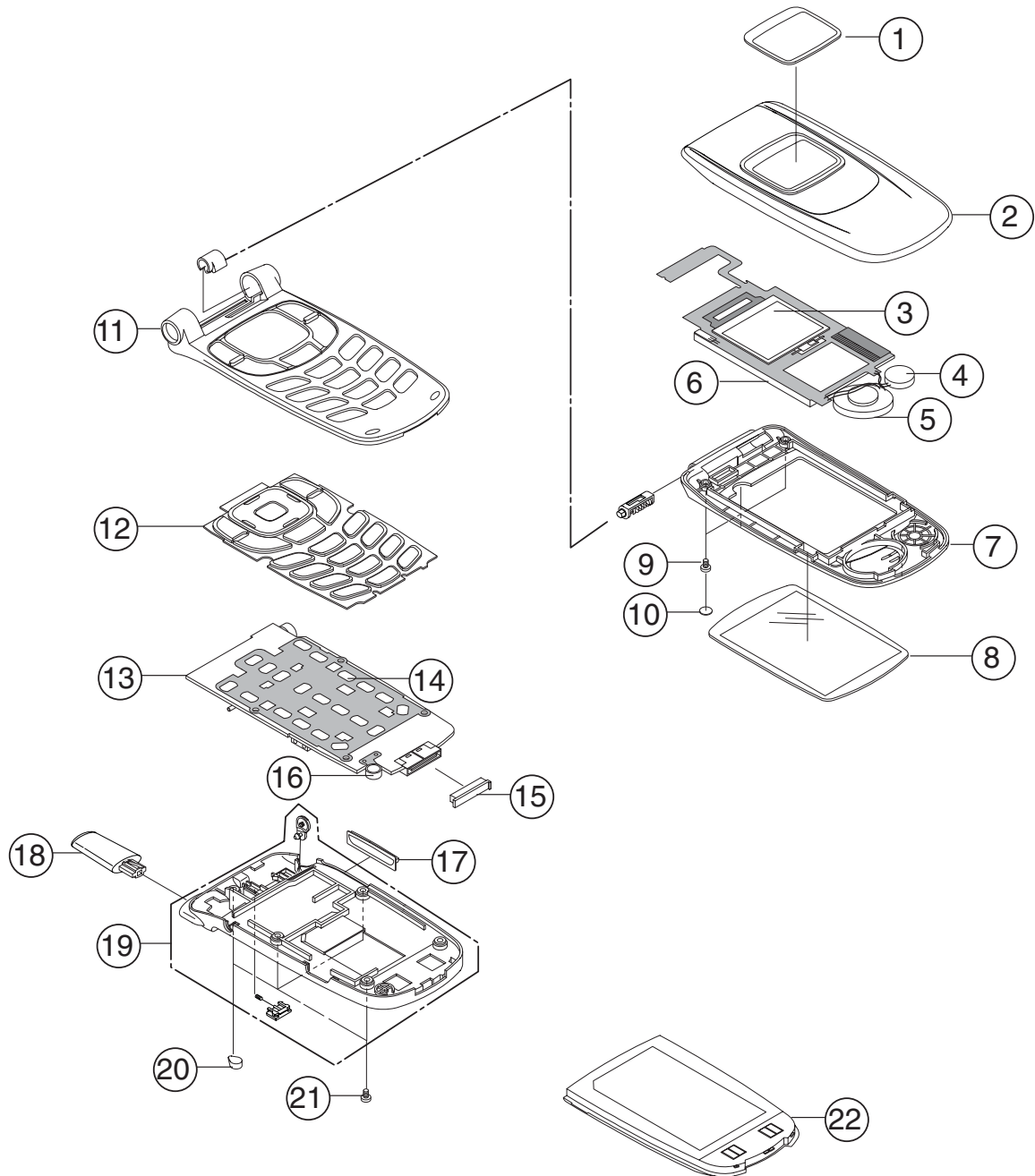
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1. SGH-S500 Exploded Views and Parts List

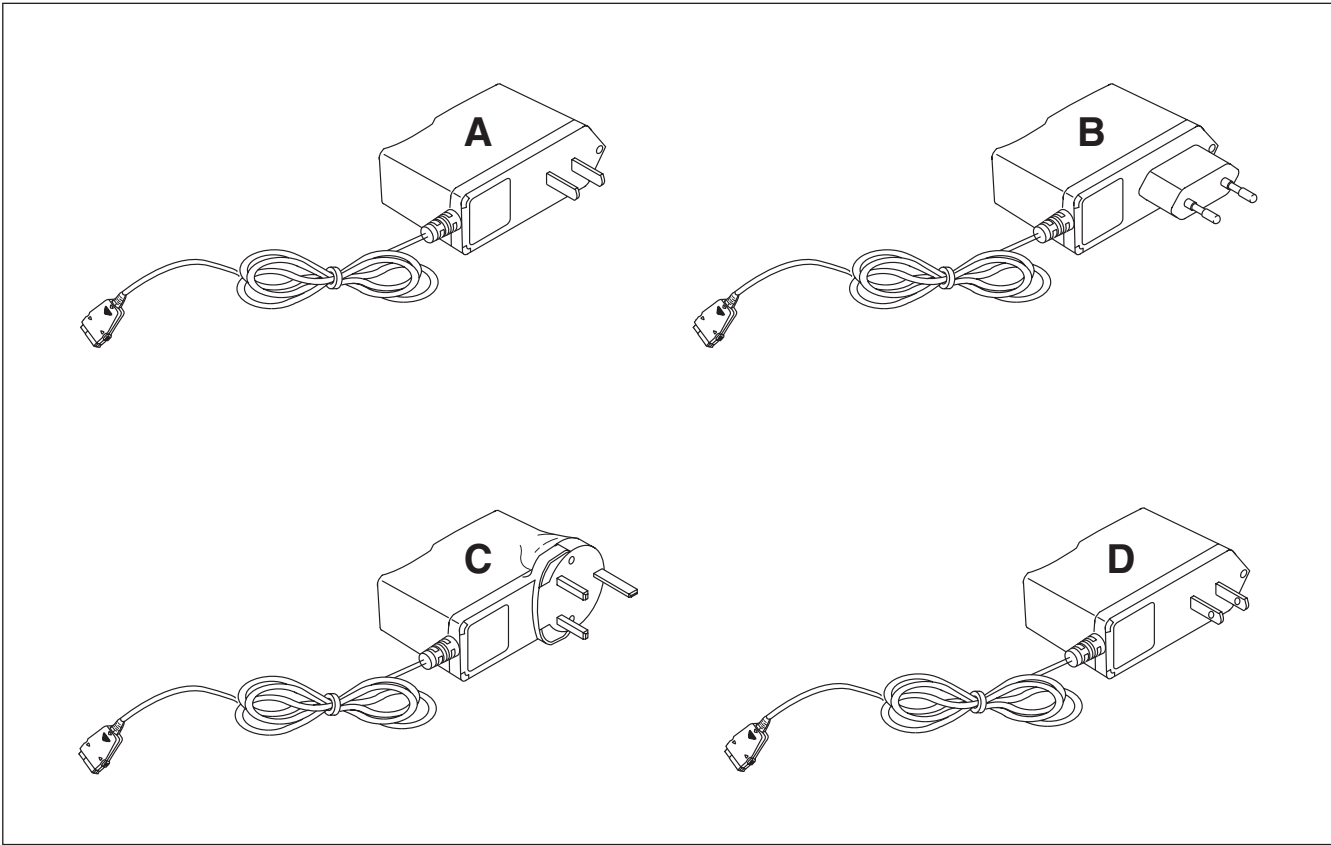
1-1 Main



1-2 Main Parts List

Location No.		Description	SEC CODE	Remark
1		SUB WINDOW LCD	GH72-05977A	
2		FOLDER UPPER	GH75-02248A	
3		LCD	GH07-00316A	
4		MOTOR	3101-001294	
5		SPEAKER	3001-001390	
6		MAIN LCD	GH07-00190A	
7		FOLDER LOWER	GH75-02249A	
8		MAIN WINDOW LCD	GH75-02999A	
9		SCREW	6001-001479	
10		SCREW CAP	GH74-03662A	
11		FRONT COVER	GH75-02250A	
12		KEYPAD	GH75-02247A	
13		MAIN PBA	GH92-01368A	
14		DOME SHEET	GH59-00727A	
15		CONNECTOR COVER	GH73-01394A	
16		MIC	GH30-00014A	
17		SIDE KEY	GH75-02264A	
18		ANTENNA	GH42-00292A	
19		REAR COVER	GH75-02251A	
20		RF COVER	GH73-01553A	
21		SCREW	6001-001479	
22		BATTERY	GH43-00836A	

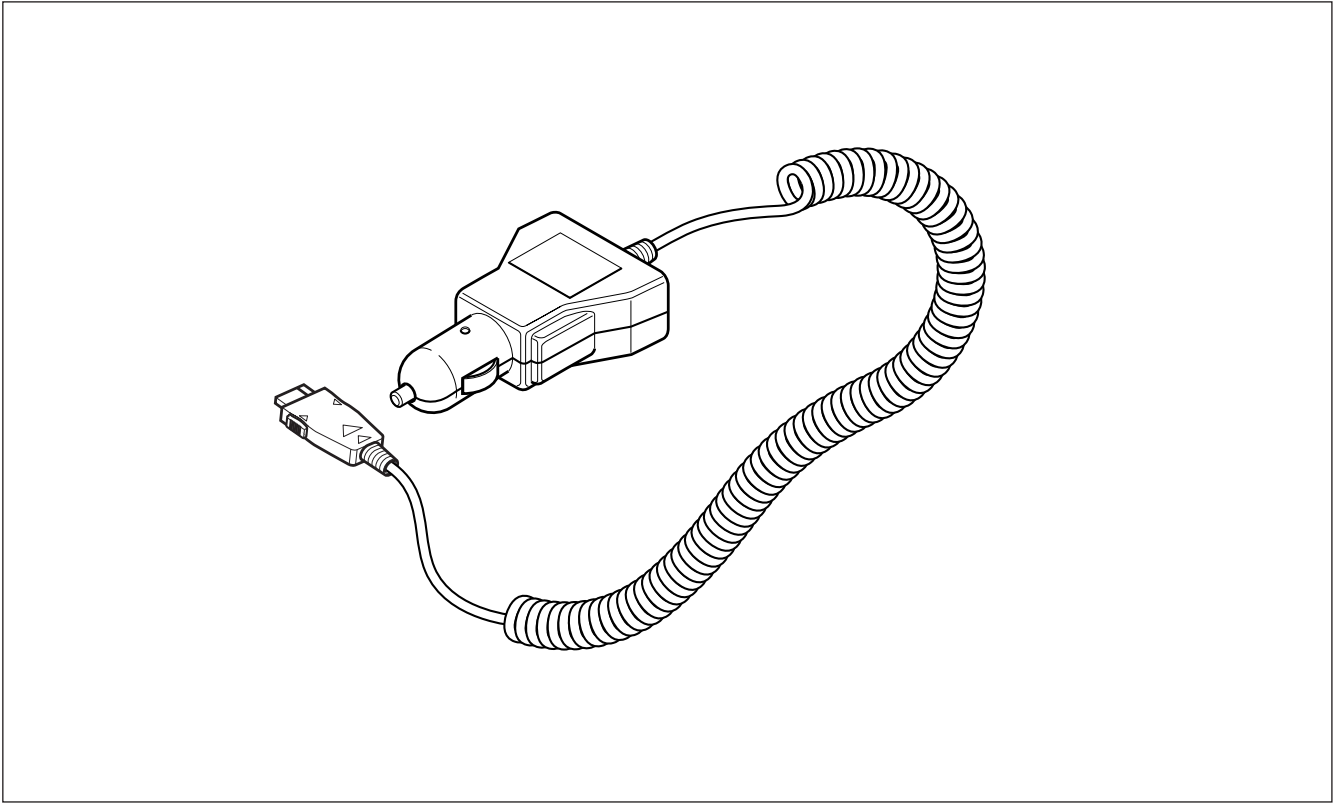
1-3 Travel Adapter



1-4 Travel Adapter Parts List

TYPE	SEC CODE	REMARK
A	GH44-00171A	CHINA
B	GH44-00184A	EUROPE
C	GH44-00171C	UNITED KINGDOM
D	Gh44-00171E	TAIWAN

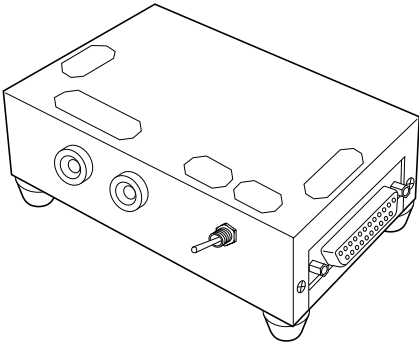
1-5 Ciger Light Adapter

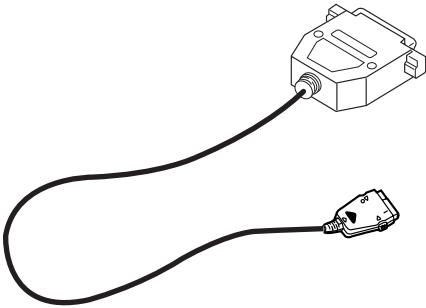


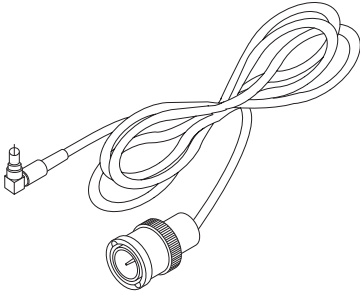
1-6 Ciger Light Adapter Parts List

DESCRIPTION	SEC CODE	REMARK
Ciger Light Adapter Code	GH44-00170A	BLACK

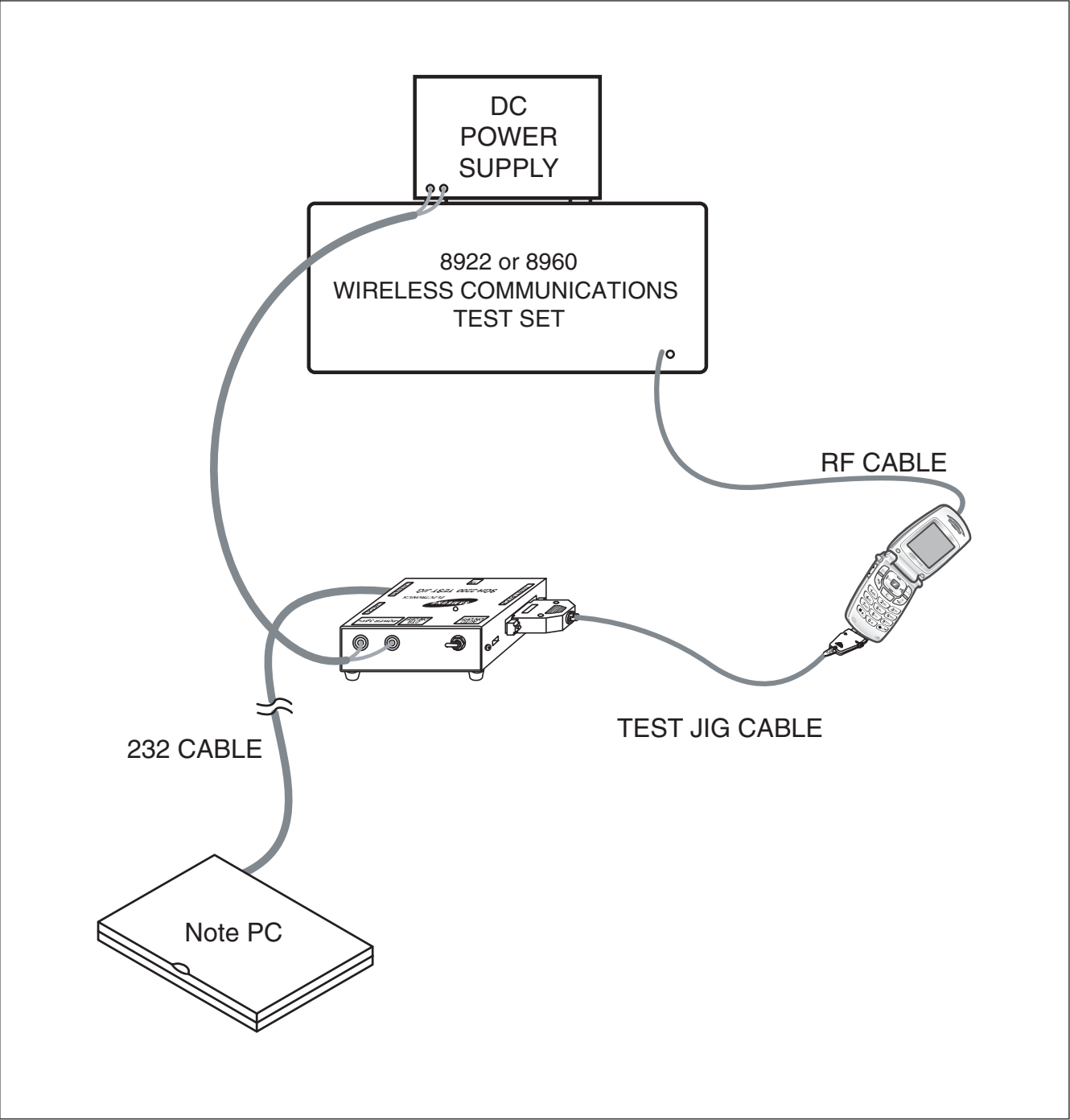
1-7 Test Jig

	
TEST JIG	GH80-01909A

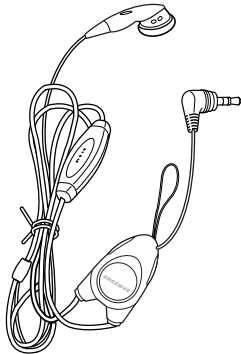
	
TEST JIG CABLE	GH39-000217A

	
RF CABLE	GH39-00172A

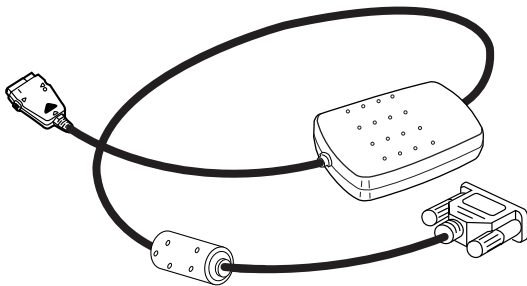
1-7-1 Test Jig



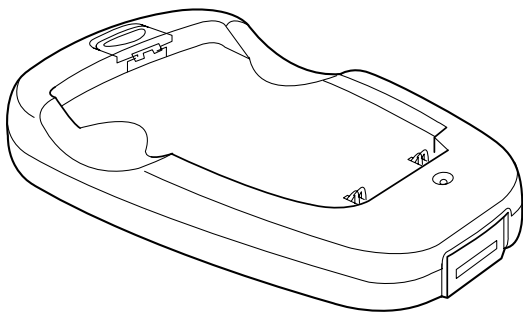
1-8 Wearable EAR Microphone

	
Wearable EAR Microphone	GH59-00394B

1-9 Data Kit

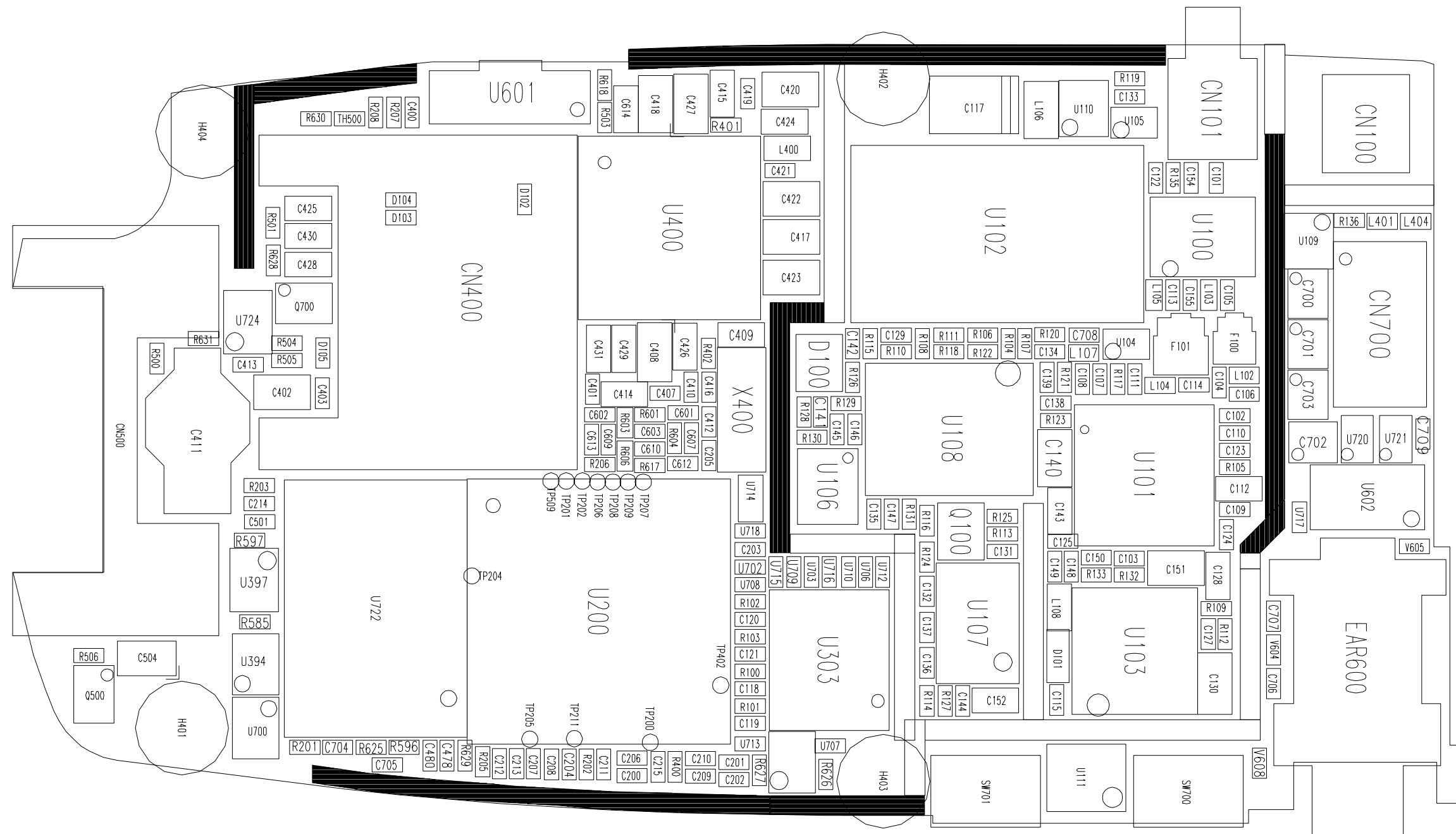
	
DATA KIT	GH39-00143B

1-10 Battery Charger

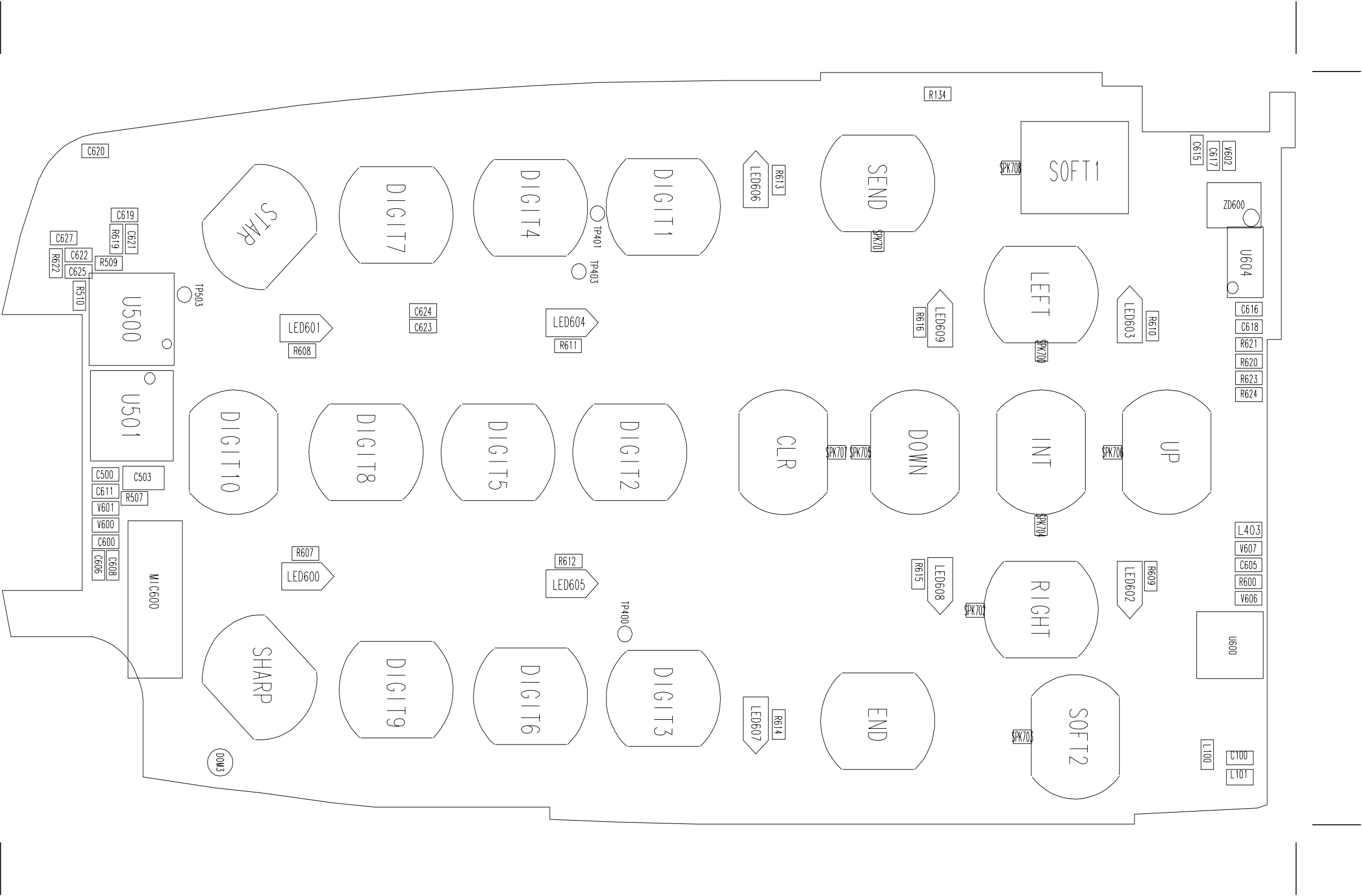
	
BATTERY CHARGER	GH44-00279A

2. PCB Diagrams

2-1 Main Top



2-2 Main Bottom



3. Electrical Parts List

NO	SEC CODE	DESIGN LOC
1	0404-001077	D100
2	0405-001122	D101
3	0501-002051	Q100
4	0504-001060	U109
5	0504-001060	U110
6	0505-001423	U397
7	0505-001423	U724
8	0506-000107	Q500
9	0506-000107	Q700
10	0604-001146	U601
11	0801-002237	U300
12	0801-002540	U394
13	0801-002540	U700
14	1001-001183	U602
15	1001-001231	U720
16	1001-001231	U721
17	1109-001243	U722
18	1201-001785	U102
19	1203-002824	U111
20	1204-001960	U303
21	1205-002257	U400
22	1205-002264	U101
23	1205-002276	U200
24	1209-001429	U106
25	1404-001221	TH500
26	1405-001082	D102
27	1405-001082	D103
28	1405-001082	D104
29	1405-001082	D105
30	1405-001082	V604
31	1405-001082	V605
32	1405-001082	V608
33	2007-000138	R105
34	2007-000140	R126
35	2007-000140	R128
36	2007-000140	R401
37	2007-000141	R207
38	2007-000141	R208
39	2007-000141	U708

NO	SEC CODE	DESIGN LOC
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41	2007-000142	R101
42	2007-000142	R102
43	2007-000142	R103
44	2007-000142	R113
45	2007-000146	U709
46	2007-000148	R130
47	2007-000148	R135
48	2007-000148	R136
49	2007-000148	R201
50	2007-000148	R400
51	2007-000148	R203
52	2007-000148	R506
53	2007-000148	R604
54	2007-000148	R625
55	2007-000151	R116
56	2007-000151	R109
57	2007-000155	R124
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59	2007-000162	R205
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65	2007-000162	R618
66	2007-000162	R629
67	2007-000162	R630
68	2007-000162	R631
69	2007-000171	R115
70	2007-000171	R127
71	2007-000171	R503
72	2007-000171	R596
73	2007-000171	R626
74	2007-000171	R627
75	2007-000171	U702
76	2007-000173	R104
77	2007-000173	R108
78	2007-000242	R601

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81	2007-000982	R112
82	2007-001305	R118
83	2007-001305	R122
84	2007-001306	R106
85	2007-001306	R107
86	2007-001306	R110
87	2007-001306	R111
88	2007-001313	R132
89	2007-001313	U707
90	2007-001319	U703
91	2007-001323	R131
92	2007-001325	U706
93	2007-002797	R121
94	2007-003030	R123
95	2007-007001	R206
96	2007-007009	R125
97	2007-007100	R402
98	2007-007334	R505
99	2007-007573	R504
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101	2007-007588	R133
102	2007-007699	R119
103	2007-007699	R120
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107	2203-000233	C129
108	2203-000233	C131
109	2203-000233	C132
110	2203-000233	C136
111	2203-000233	C138
112	2203-000233	C149
113	2203-000254	C144
114	2203-000254	C204
115	2203-000254	C410
116	2203-000254	C478
117	2203-000254	C704

NO	SEC CODE	DESIGN LOC
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120	2203-000278	C102
121	2203-000278	C122
122	2203-000278	C123
123	2203-000278	C133
124	2203-000278	C154
125	2203-000278	C155
126	2203-000278	C407
127	2203-000278	C609
128	2203-000278	C613
129	2203-000278	C115
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131	2203-000330	C416
132	2203-000330	C601
133	2203-000330	C612
134	2203-000330	C708
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139	2203-000438	U710
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141	2203-000585	C119
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144	2203-000628	C139
145	2203-000679	C101
146	2203-000812	C105
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161	2203-001607	C128
162	2203-001652	C414
163	2203-001652	C425
164	2203-002687	U715
165	2203-005056	C141
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194	2203-005065	C614
195	2203-005446	C142

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211	2203-006090	C423
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213	2203-006274	C151
214	2301-001512	C130
215	2404-001105	C422
216	2404-001105	C408
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224	2703-001709	L108
225	2703-002370	L103
226	2703-002485	R603
227	2703-002485	R606
228	2703-002519	L102
229	2703-002586	L104
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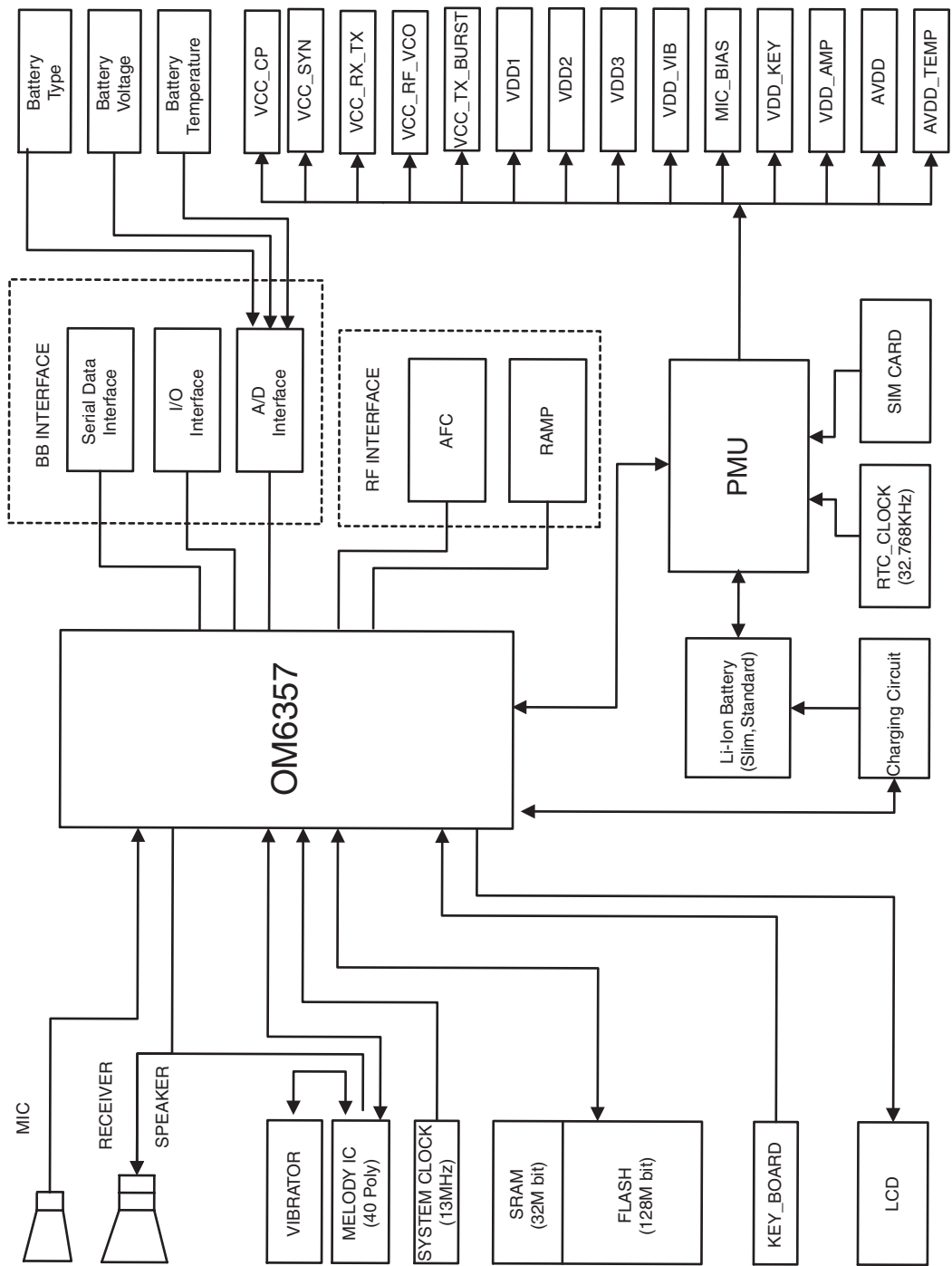
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240	2909-001197	U100
241	3301-001105	L400
242	3301-001630	L106
243	3404-001152	SW700
244	3404-001152	SW701
245	3705-001242	CN101
246	3709-001250	CN400
247	3710-001816	CN500
248	3711-005078	CN700
249	3722-001715	EAR600
250	4302-001119	C411
251	4709-001296	U105
252	4709-001297	U104

NO	SEC CODE	DESIGN LOC
1	0406-001104	ZD600
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9	0601-001647	LED607
10	0601-001647	LED608
11	0601-001647	LED609
12	1009-001010	U600
13	1202-001036	U604
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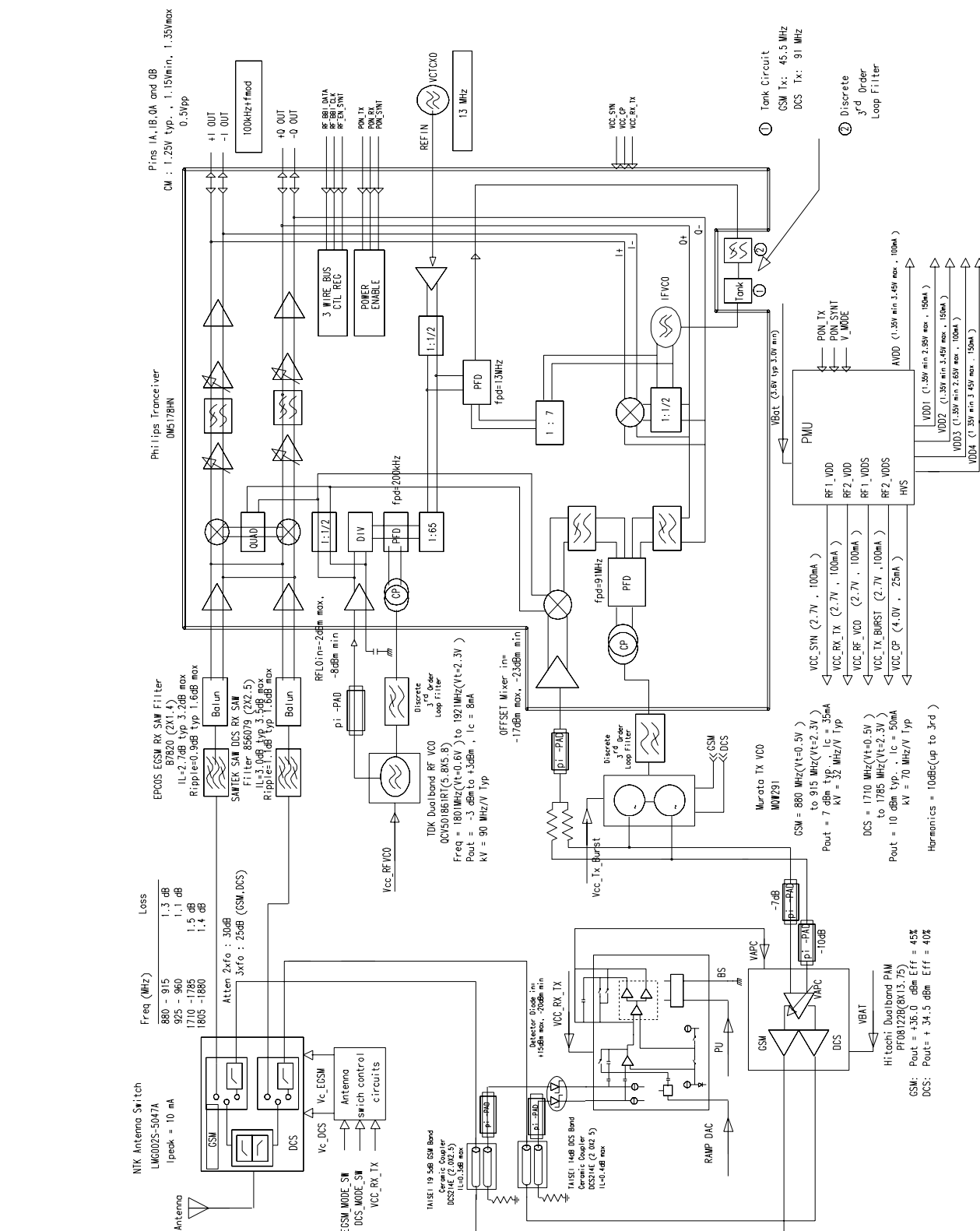
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49	2203-001383	C100
50	2203-005061	C605
51	2203-005281	L100
52	2203-005482	C619
53	2203-005482	C622
54	2203-006053	C503
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56	2703-002597	L403
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4. Block Diagrams

4-1 Main Baseband

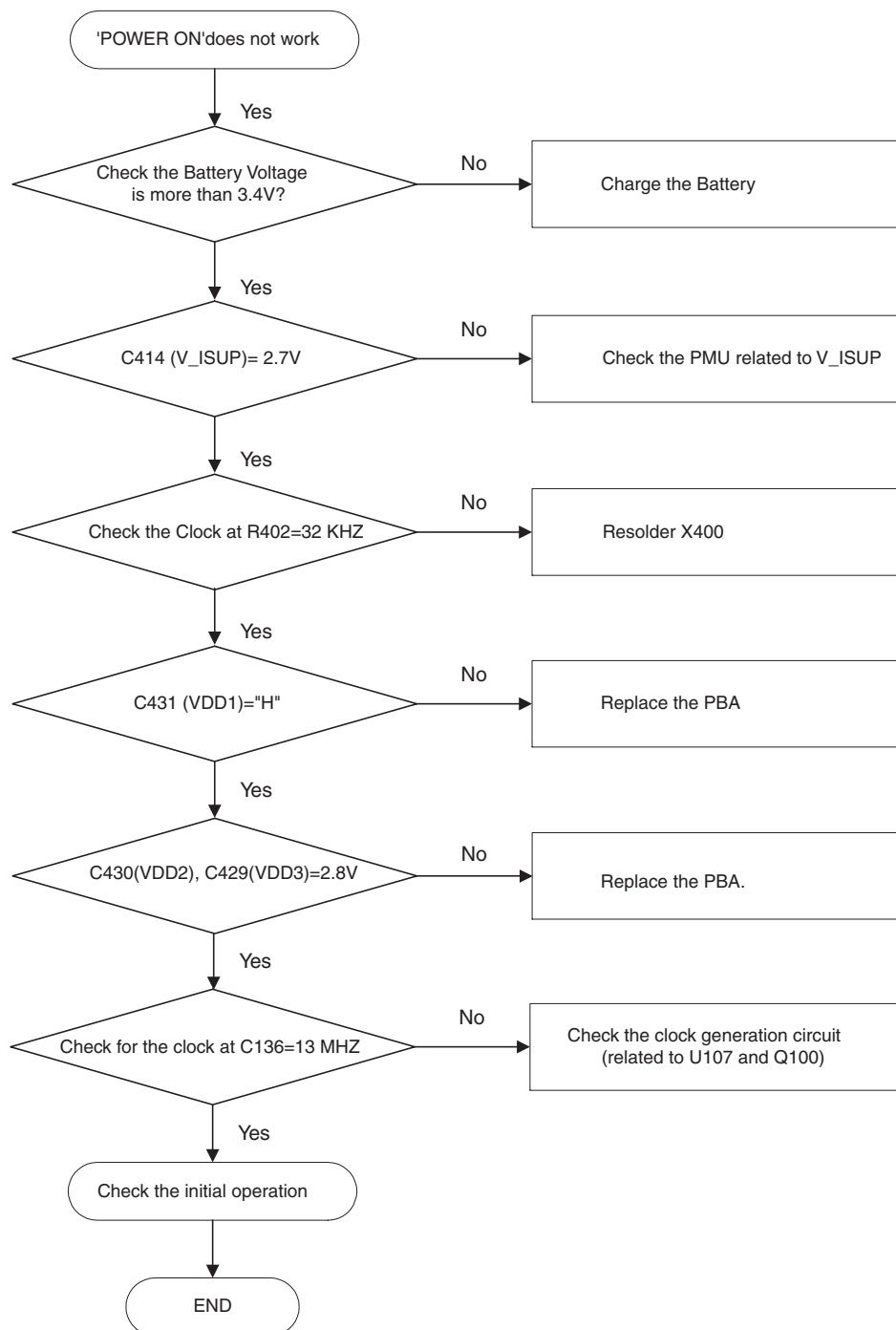


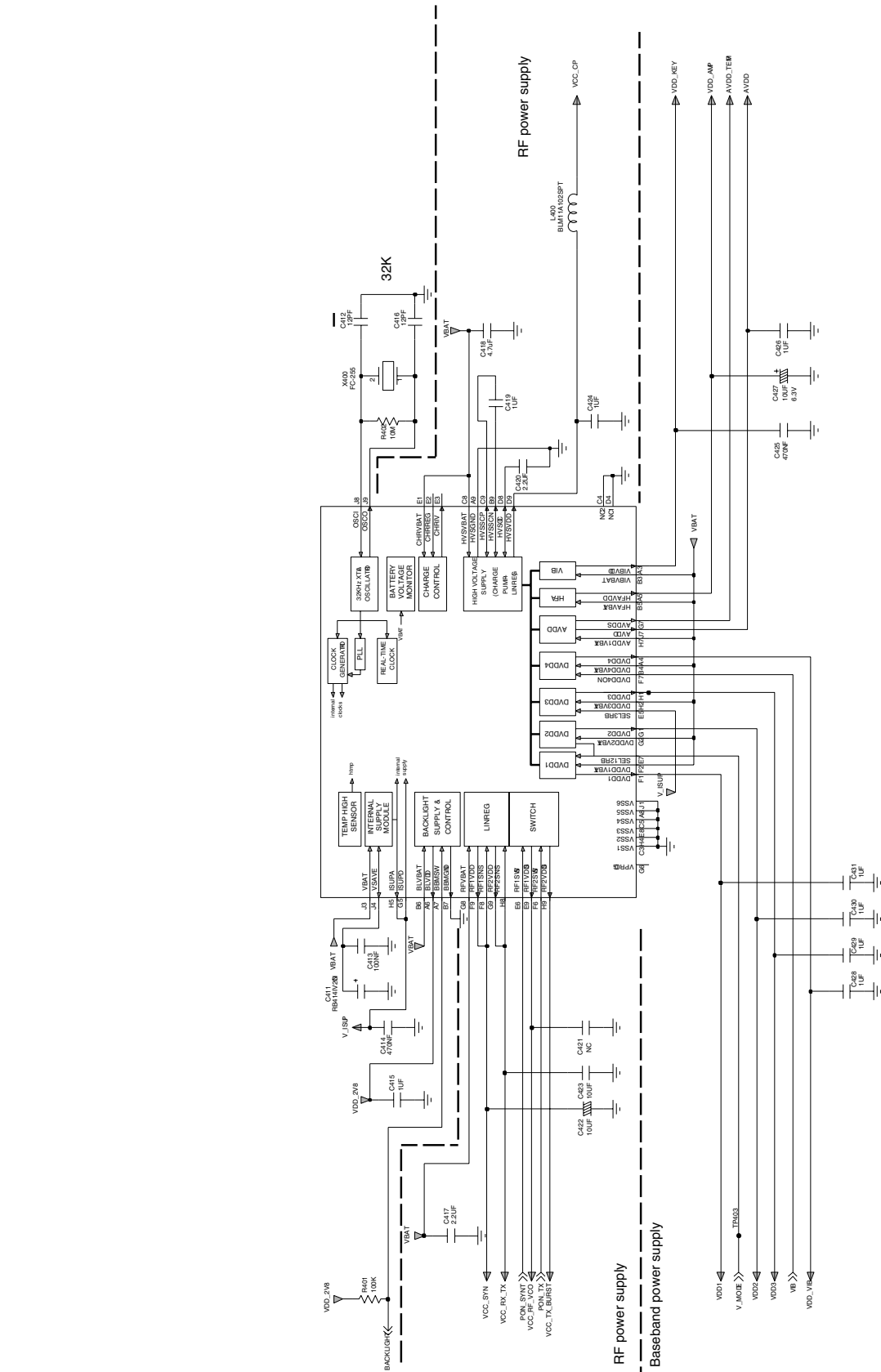
4-2 Main RF



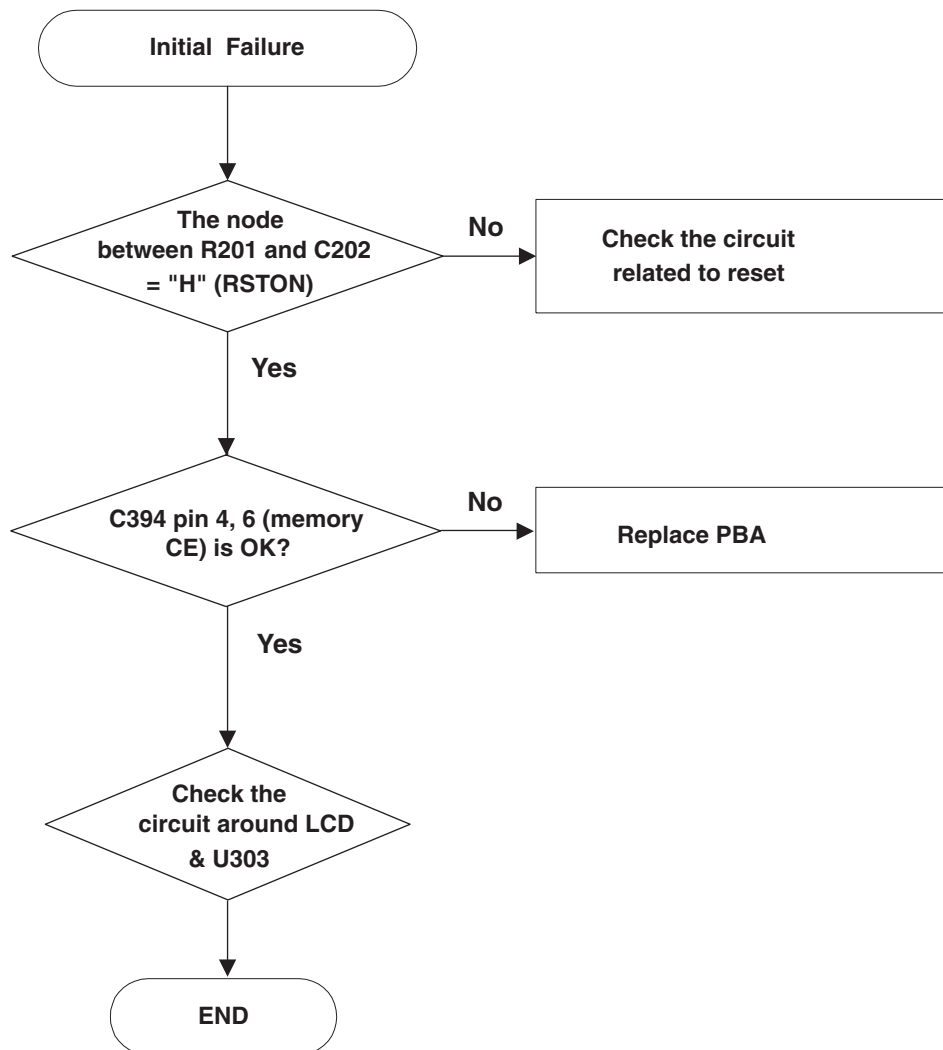
5. Flow Chart of Troubleshooting and Circuit Diagrams

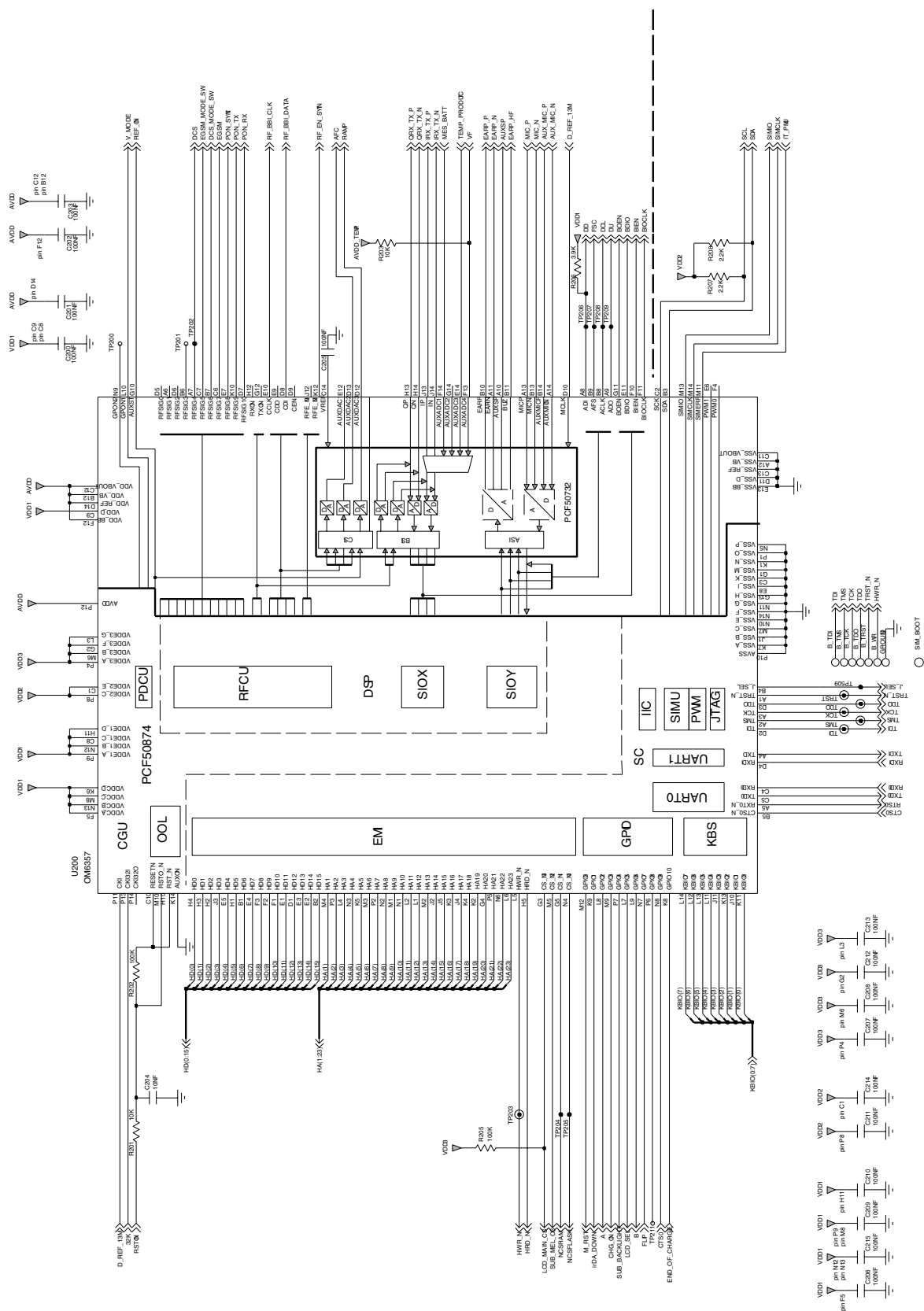
5-1 Power ON



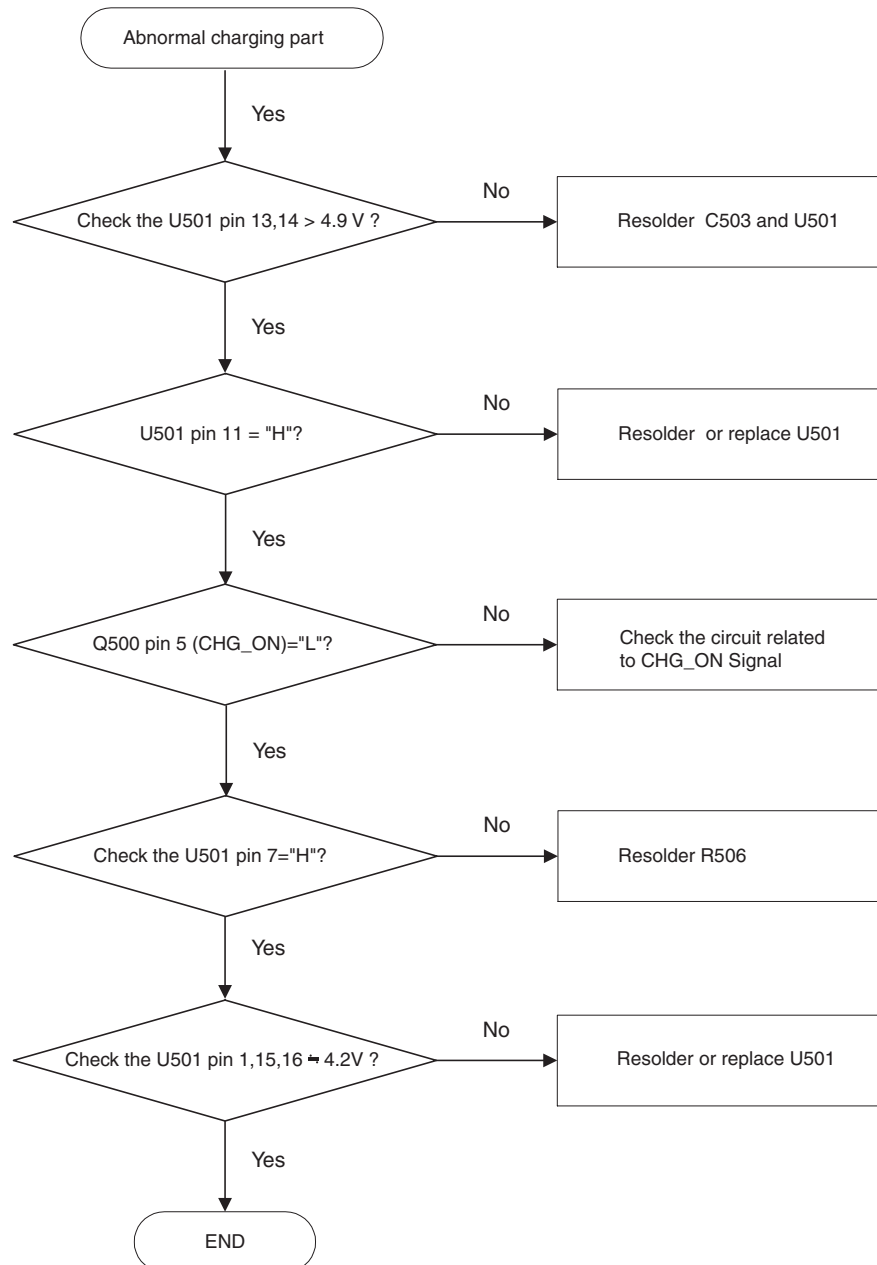


5-2 Initial

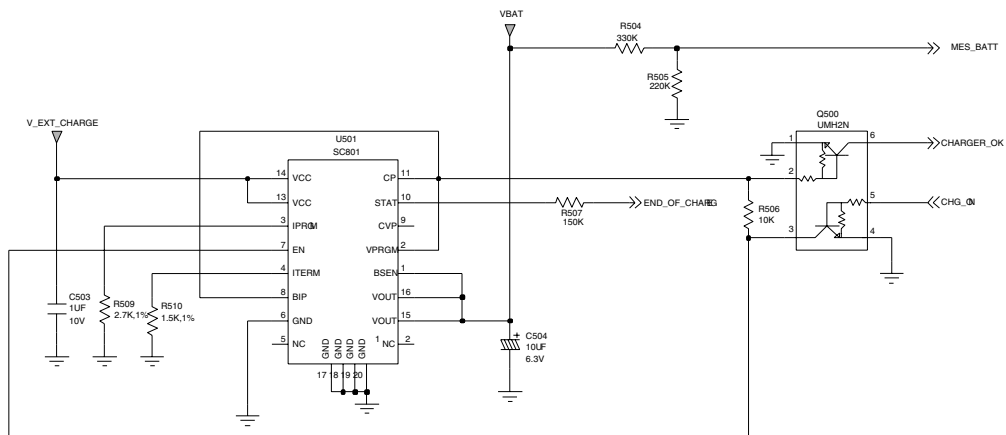




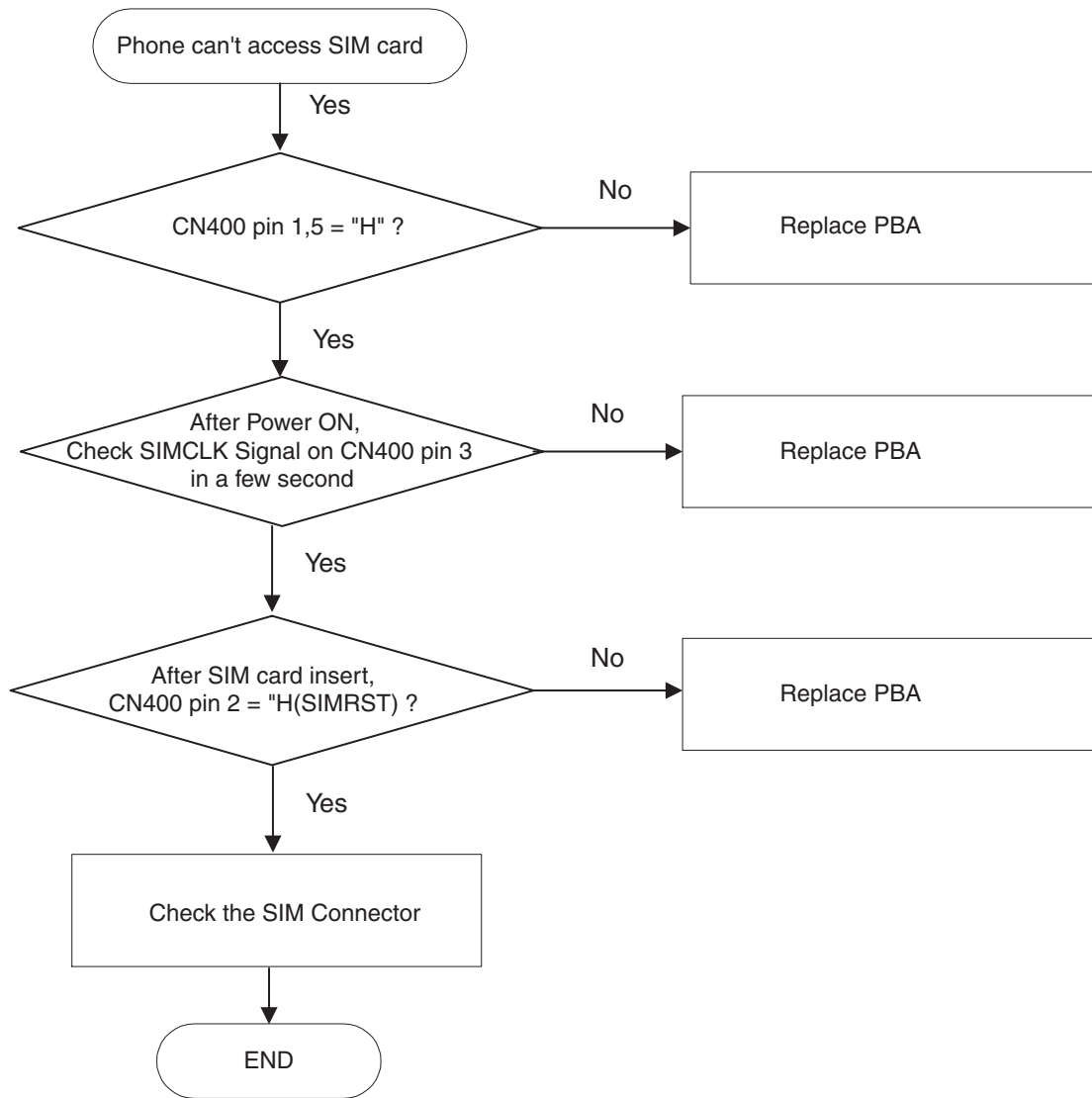
5-3 Charging Part



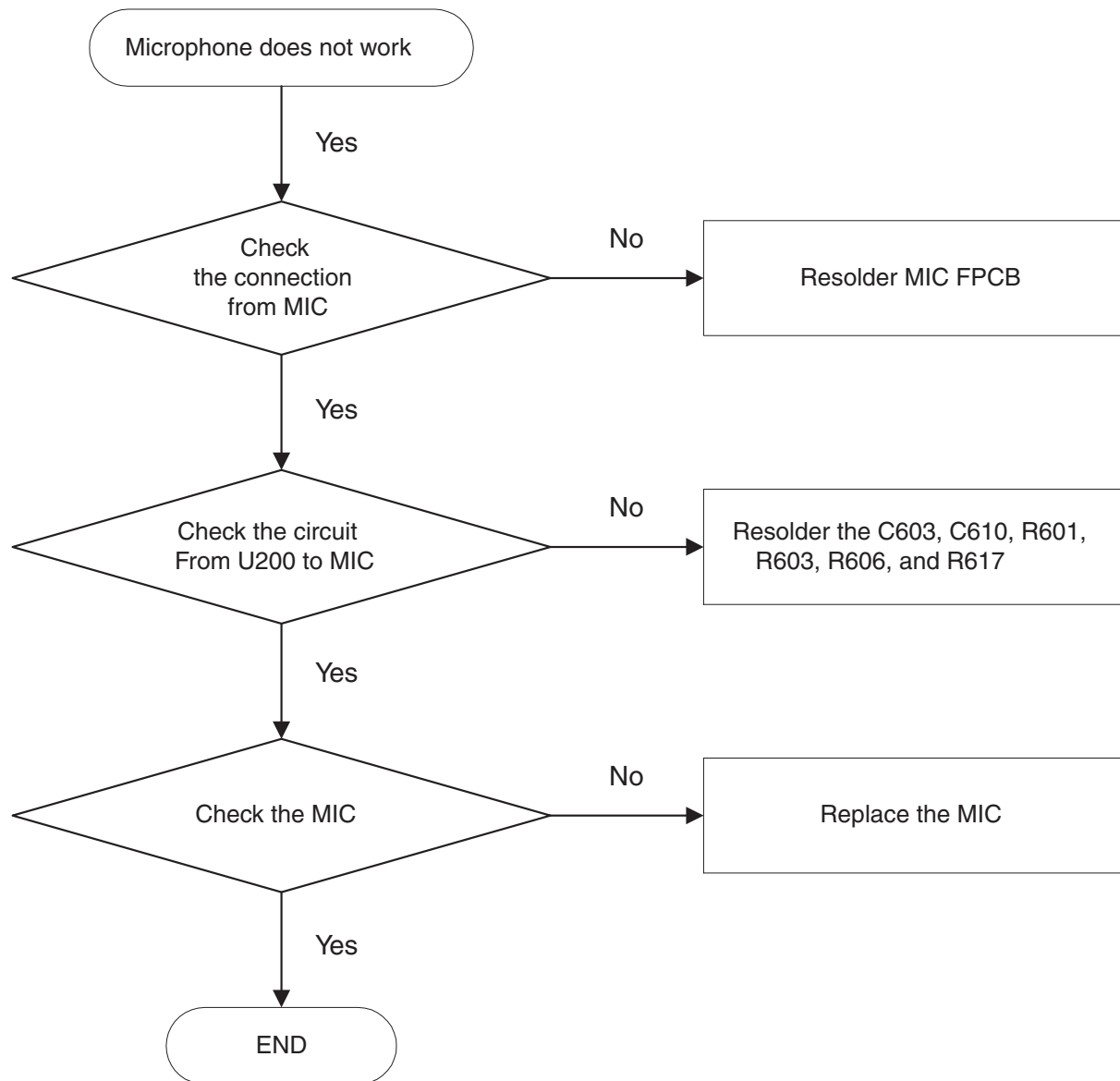
Charge of Battery

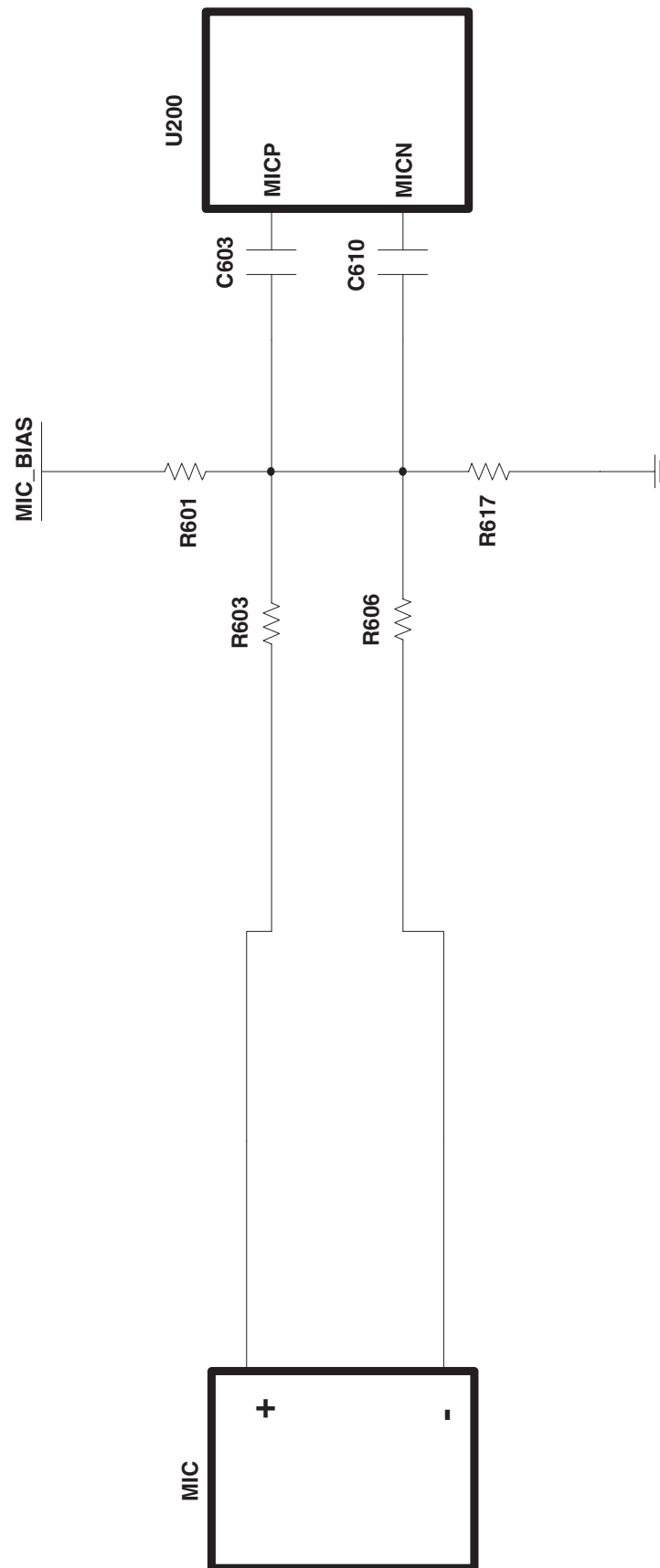


5-4 Sim Part

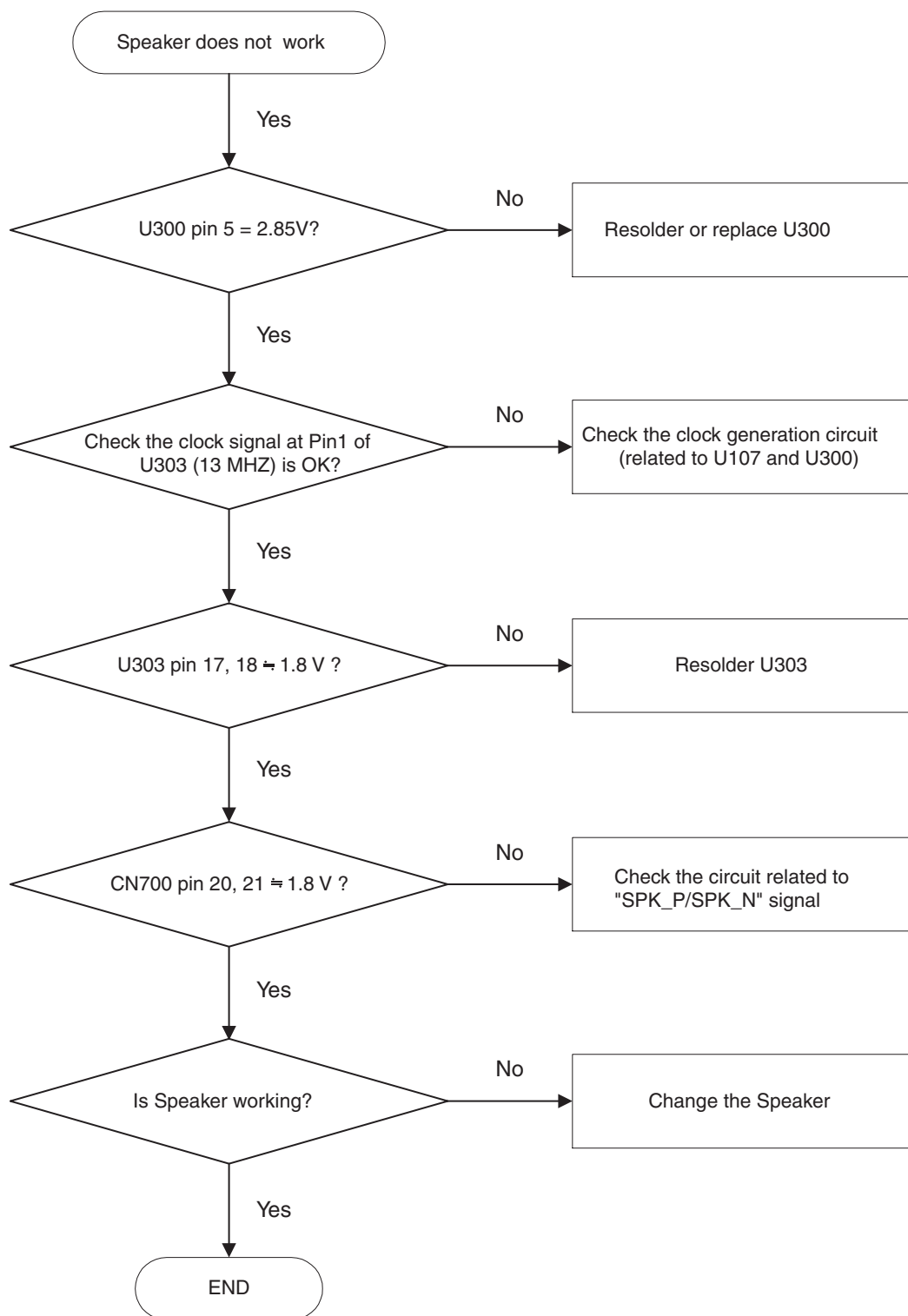


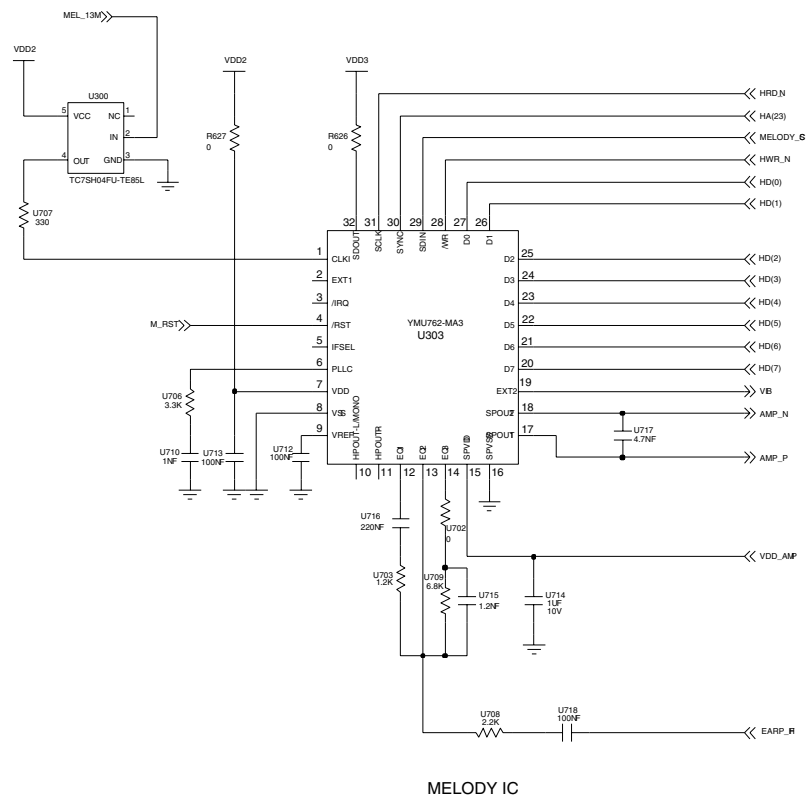
5-5 Microphone Part



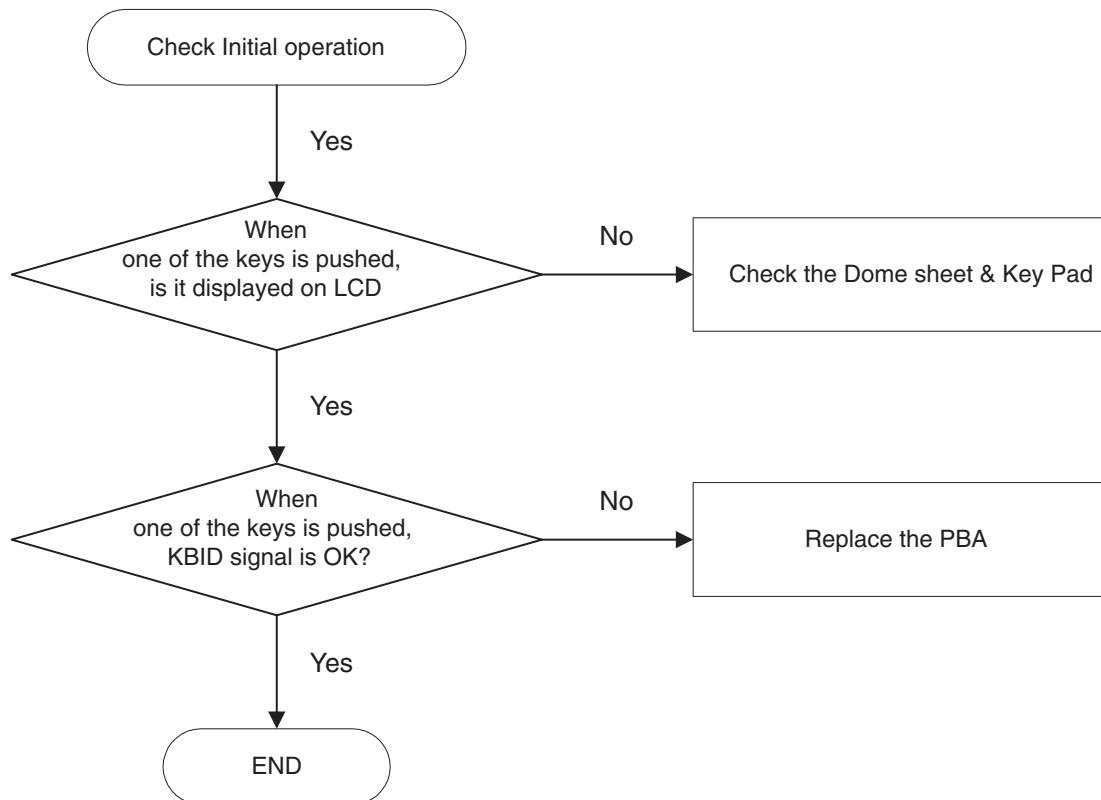


5-6 Speaker Part (Melody)

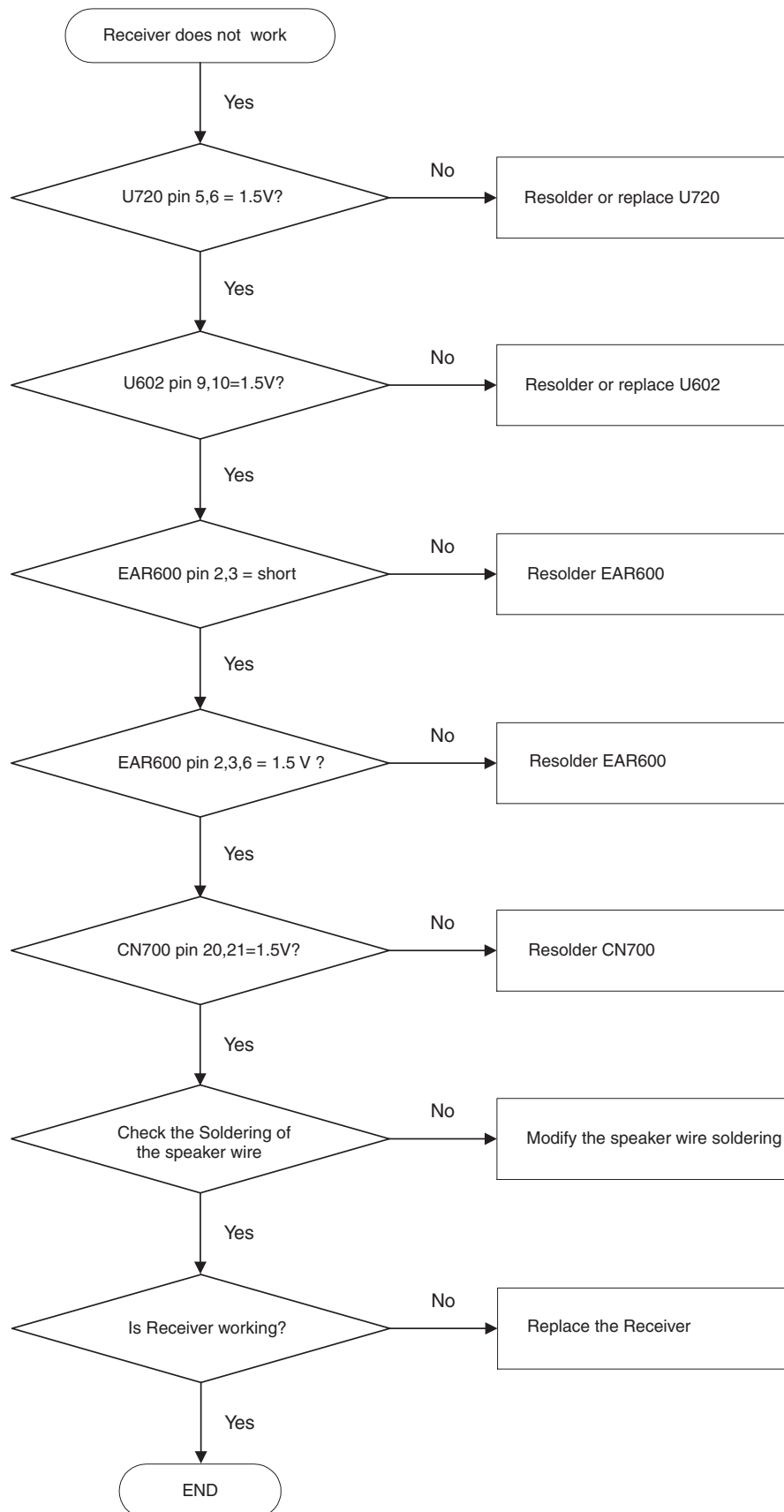




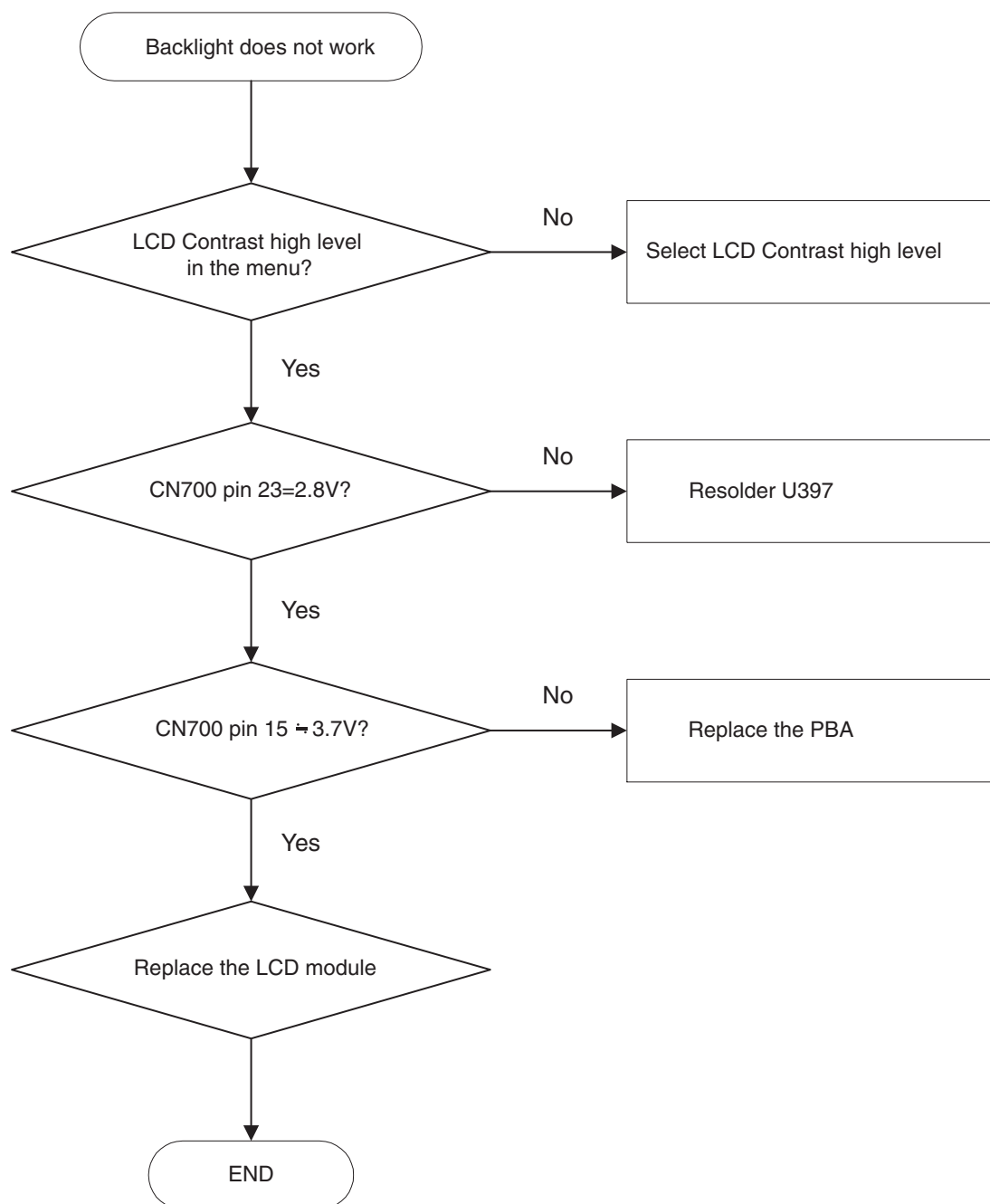
5-7 Key Data Input



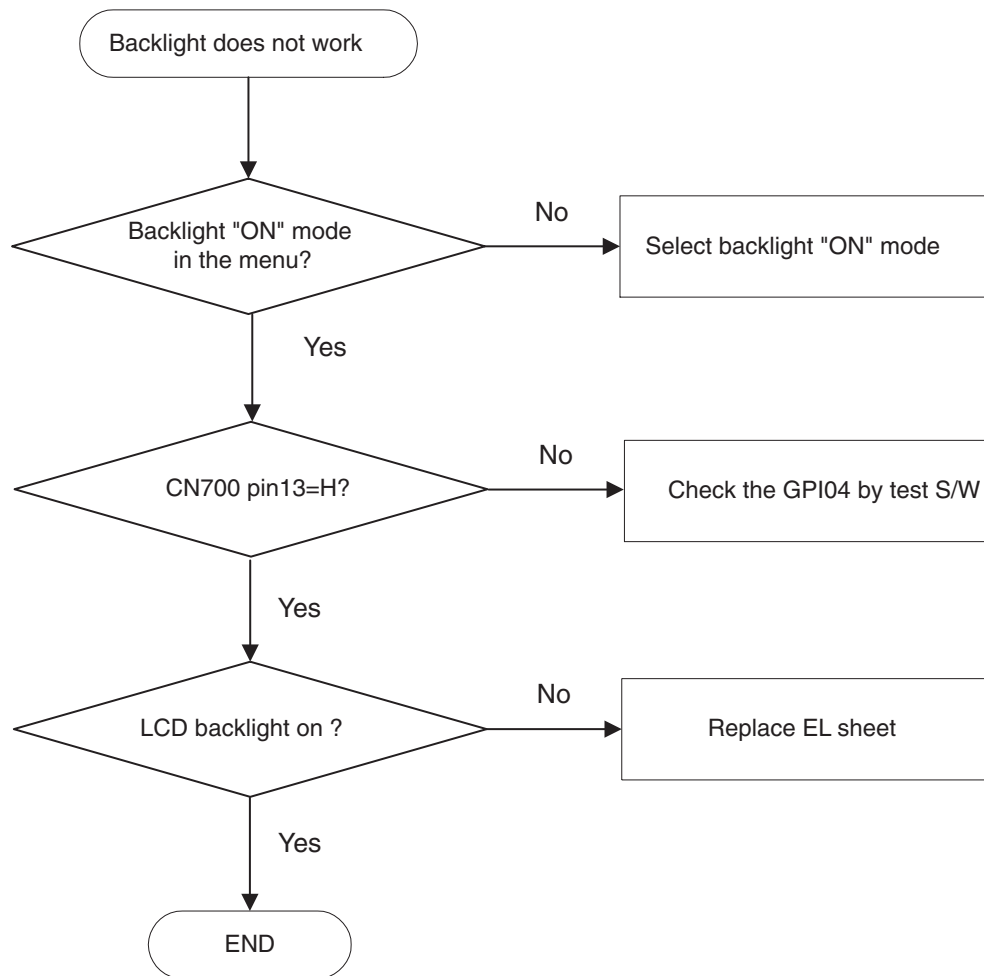
5-8 Receiver Part



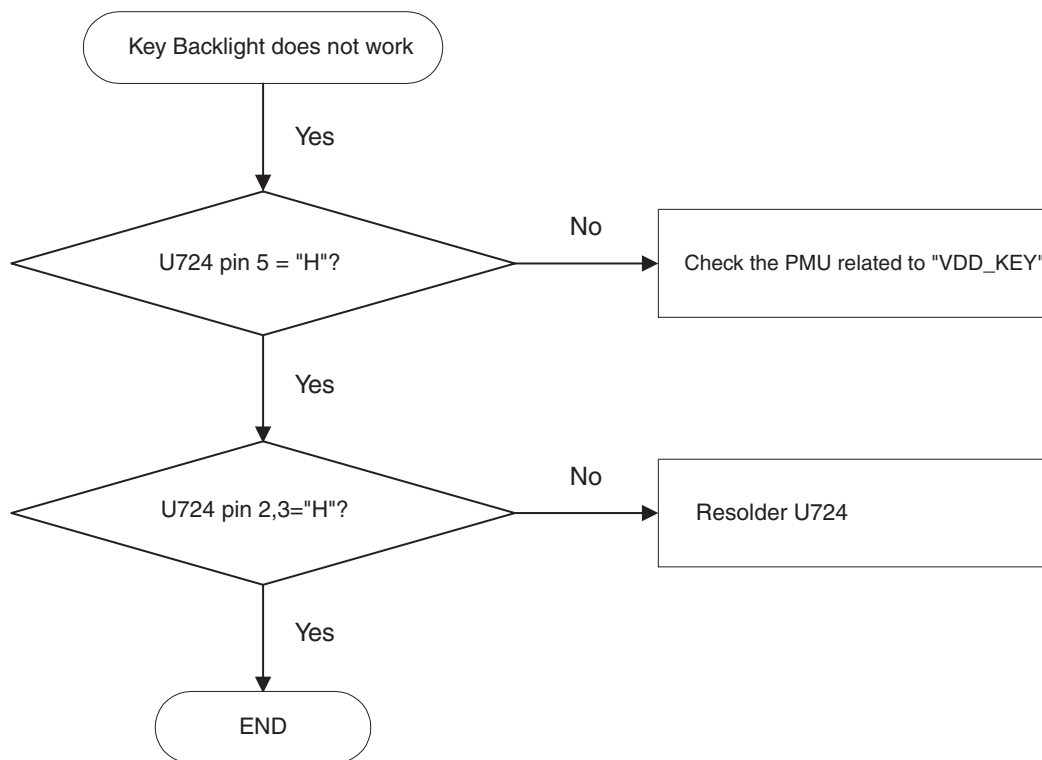
5-9 Back Light (for Color Main LCD)



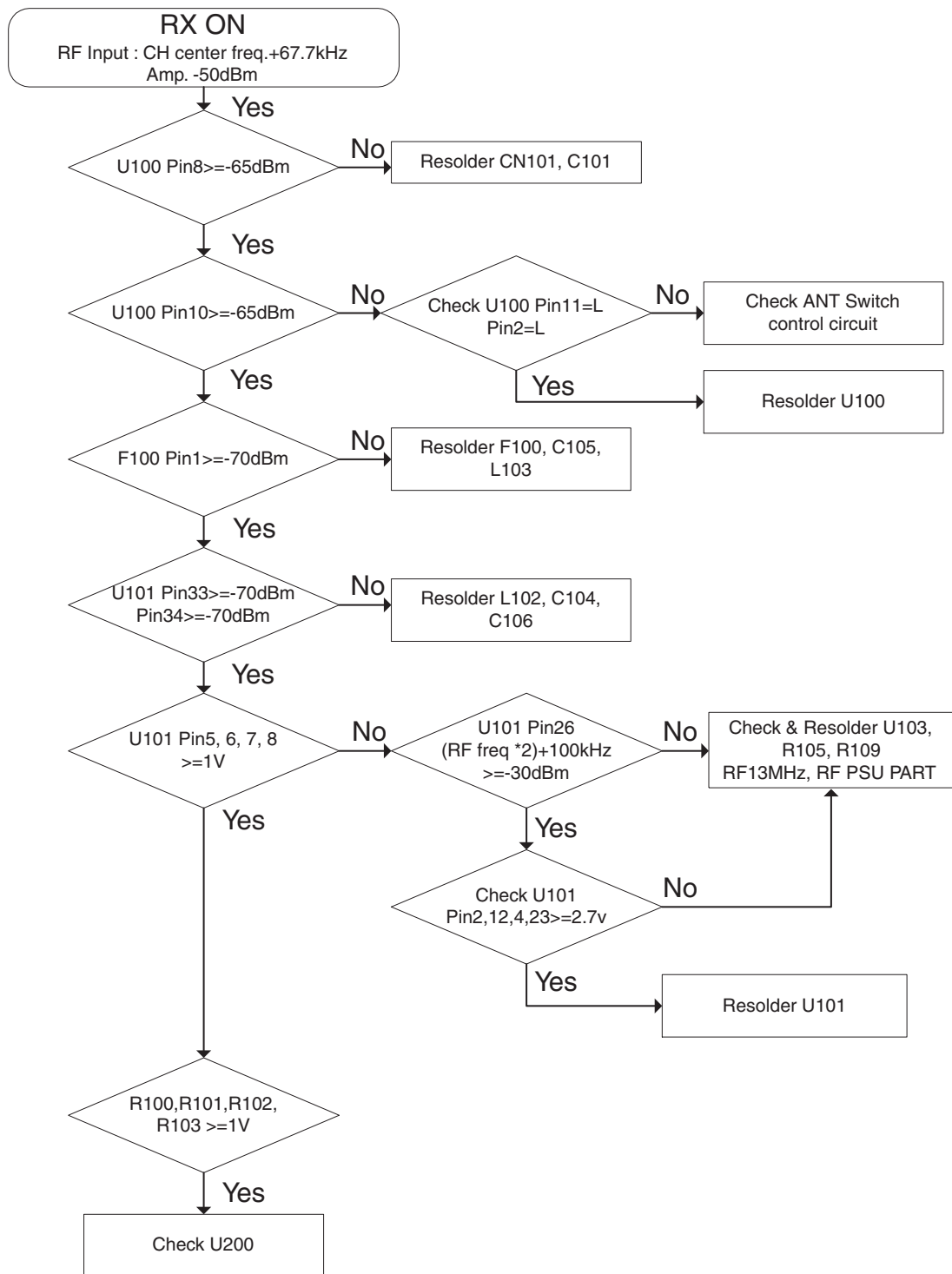
5-10 Back Light (for Sub LCD)



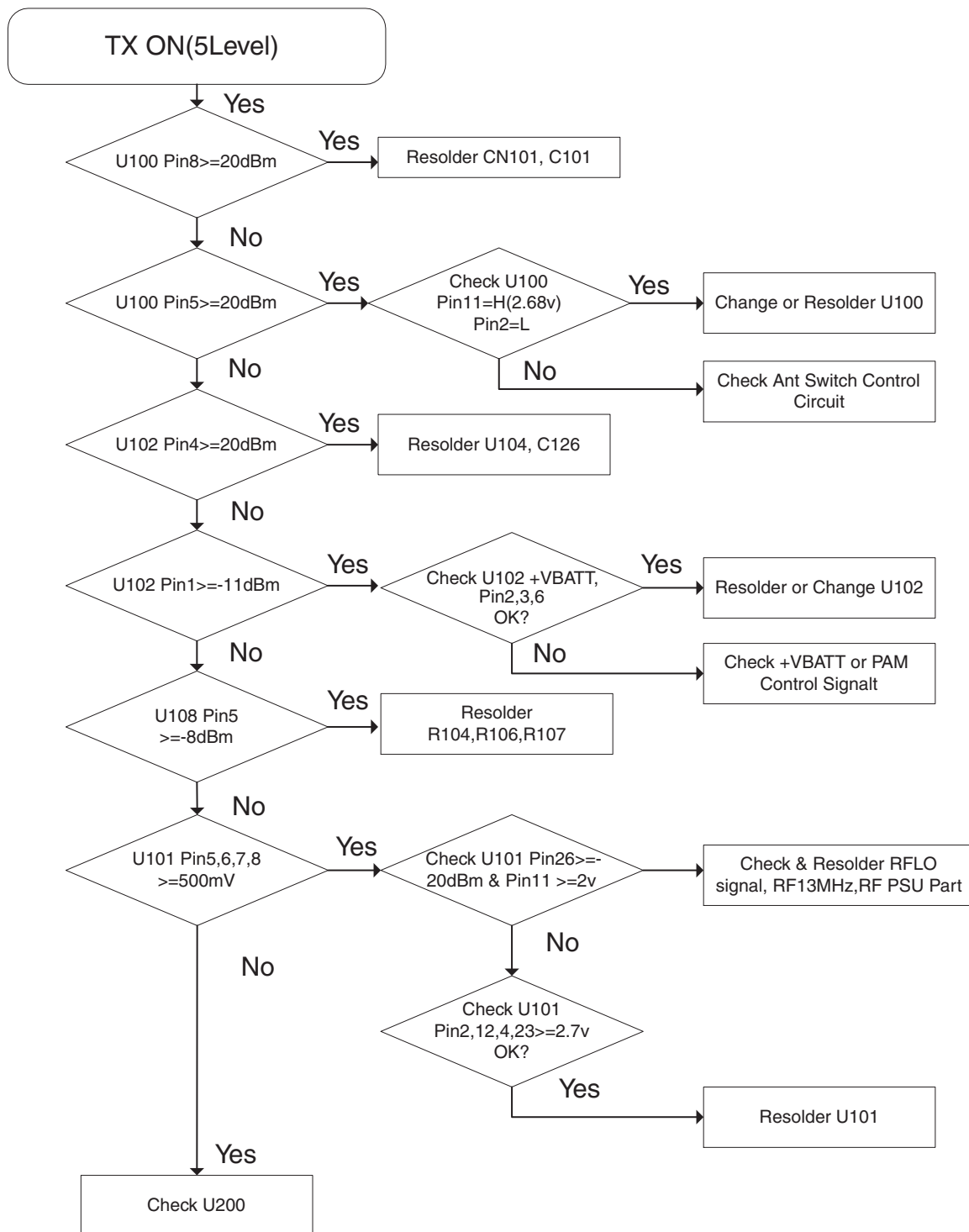
5-11 Key Back Light



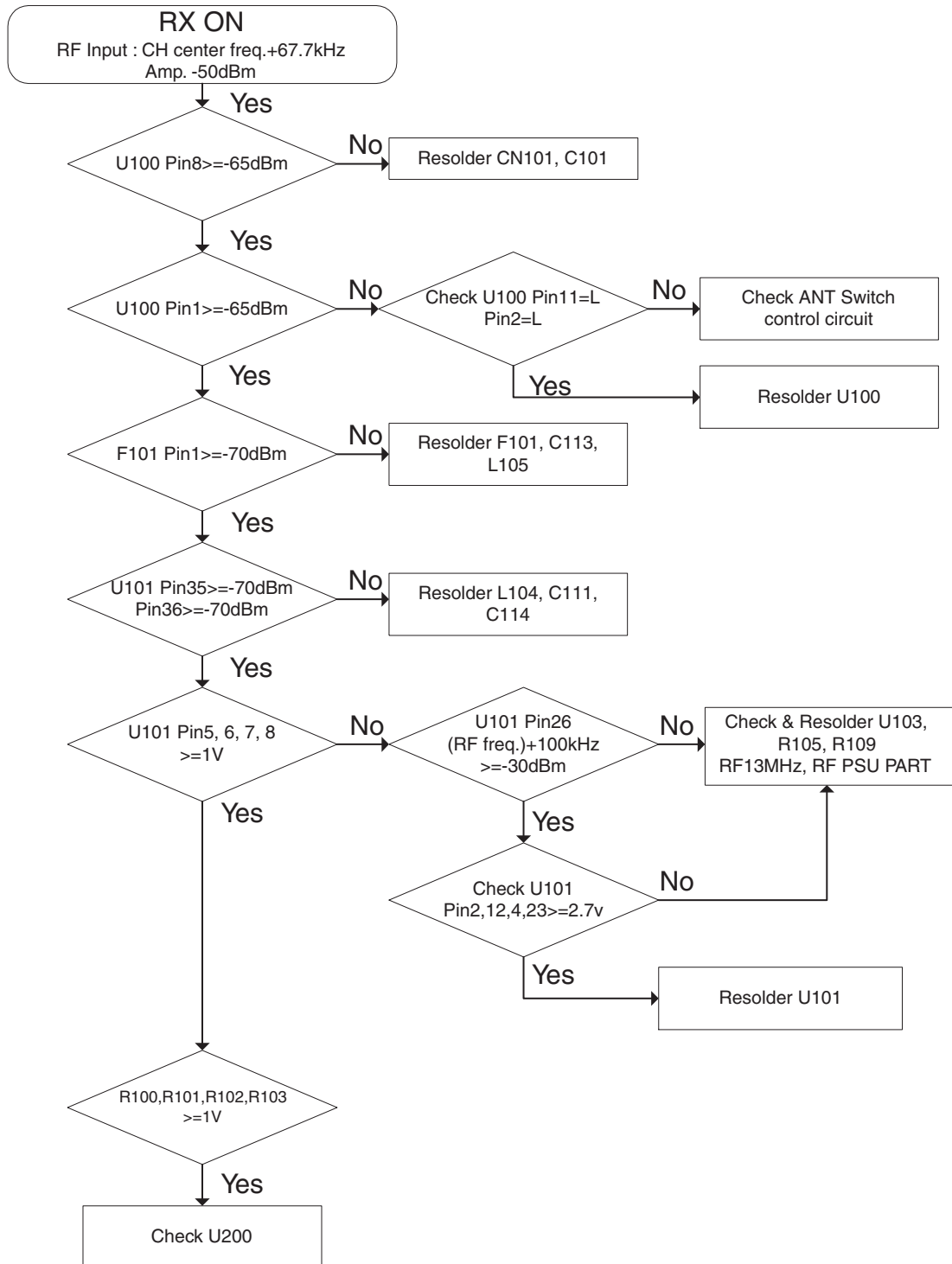
5-12 GSM Receiver



5-13 GSM Trasmmitter



5-14 DCS Receiver



5-15 DCS Transmitter

