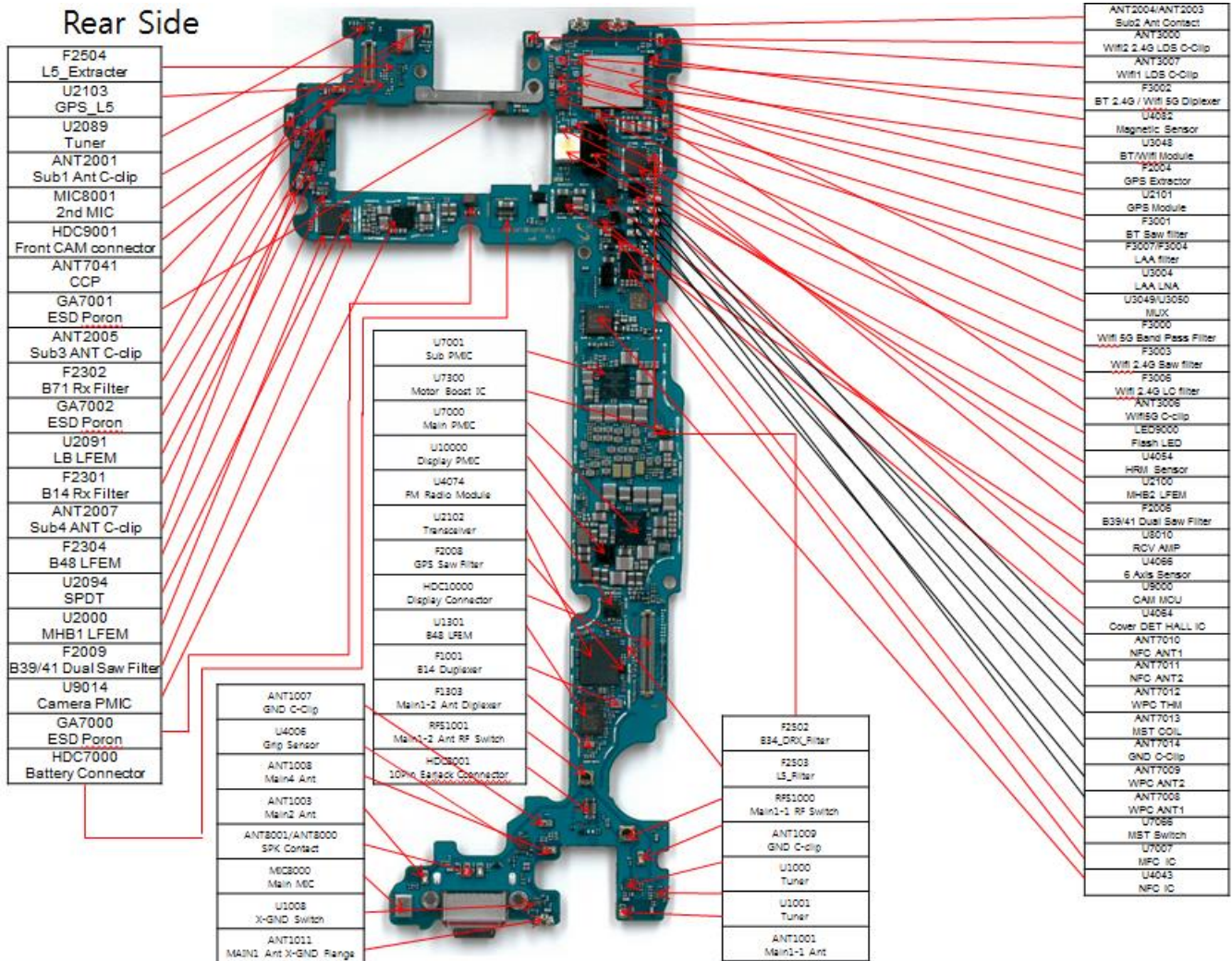


8. Level 3 Repair

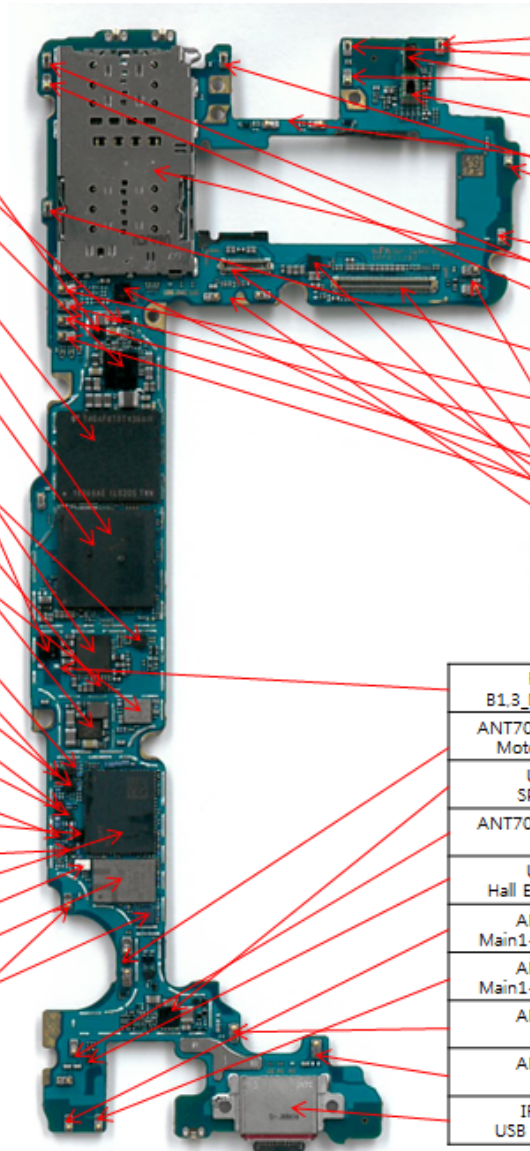
8-1. Components Layout



8. Level 3 Repair

Front Side

U7004
Boost Regulator
U7010
Logic Gate
U7003
IF PMIC
UME6000
UFS Memory
UCP500
AP
UCP500UP
DRAM
U4050
OVP LS
U8042
Audio Codec
U4049
Audio SW
U10001
Low Voltage Comparator
U2001
ET Modulator
U1010
2G PA
U1006
DP4T
F1502
B39 MIMO_Filter
U1009
DP4T
F1010
B7/40 Dual Saw Filter
F1302
B30 Saw Filter
U1005
SP4T
F1004
B25/66 Dual Saw Filter
U1007
SP4T
U1004
OMH PAMID
F1000
Main1-1 AntDiplexer
U1002
LB LPAMID
F1002
B71 Duplexer
ANT1005
GND C-clip



F1501
B1.3_MIMO_Filter
ANT7022/ANT7021
Motor Contact
U8000
SPK AMP
ANT7039/ANT7040
CCP
U4076
Hall Effect Switch
ANT1002
Main1-2 Ant C-Clip
ANT1000
Main1-1 Ant C-Clip
ANT7038
CCP
ANT7043
CCP
IFC4000
USB Connector

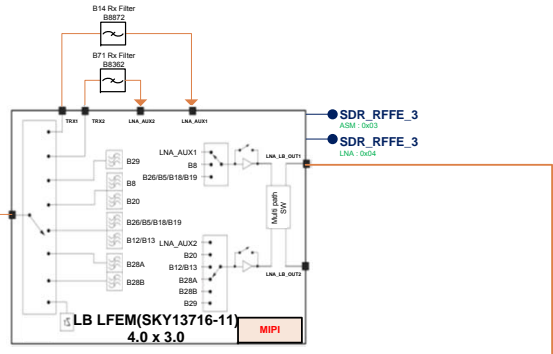
ANT2000
Sub1 Ant
ANT2002
Sub2 Ant
ANT7032
CCP
U4101
Proxy sensor
U4100
Color Sensor
ANT8002/ANT8003
RDV Contact
ANT3003
GND C-clip
ANT2006
Sub3 Ant
ANT2008
Sub4 Ant
SIM3000
SIM Socket
ANT3001
WiFi 1.2.4G METAL
ANT3005
WiFi 1.2.4G GND
ANT3004
GND C-clip
ANT7020
GND C-clip
ANT7019
INT Key
ANT7015
Volume Down Key
ANT 7018
Volume Up Key
U4062
Barometer Sensor
HDC9003
Super Wide CAM Connector
ANT7035/ANT7034
CCP
U9024
2nd CAM PMIC
HDC9000
Dual CAM Connector
ANT7017/ANT7016
Power Key



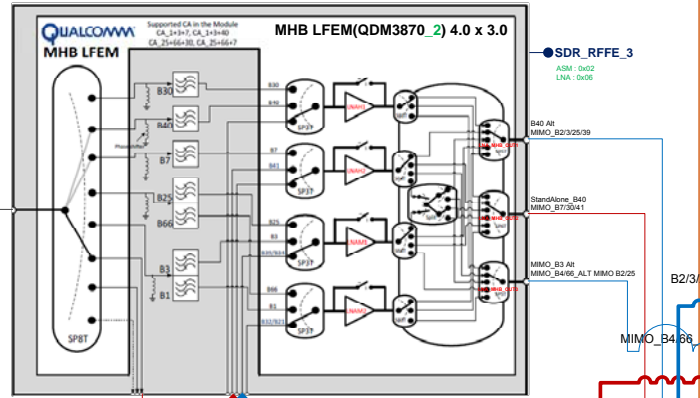
SM-G9730/G9738 Common

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2018.12.14

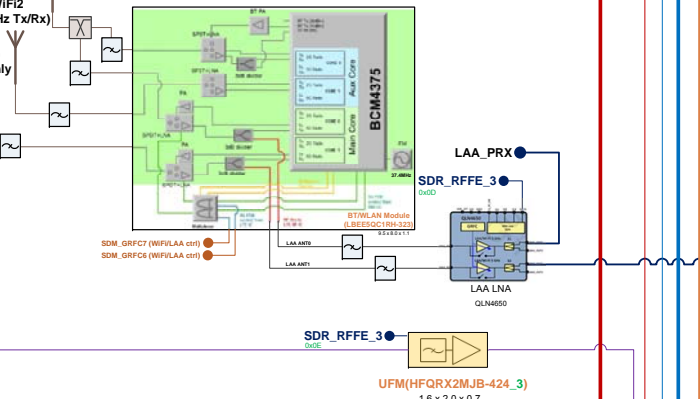
ANTENNA (LB)
CDMA/EVDO BC0/10 Rx Only
GSM/GPRS/EDGE 850 Rx Only
UMTS B5 Rx Only
LTB B5/12/13/14/26/29/71 Rx Only



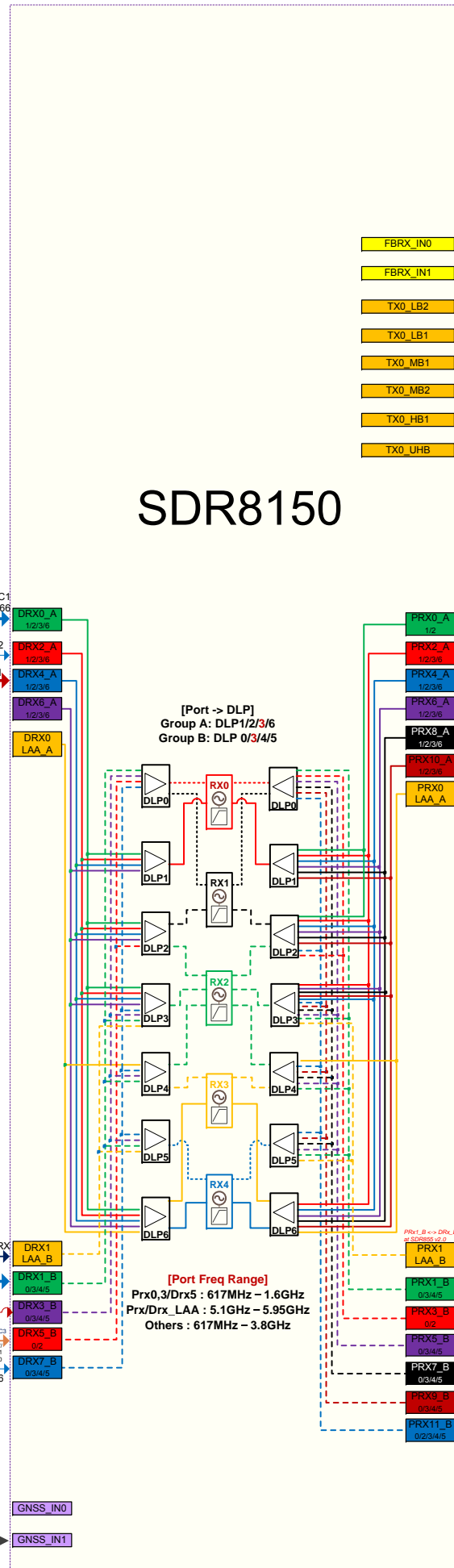
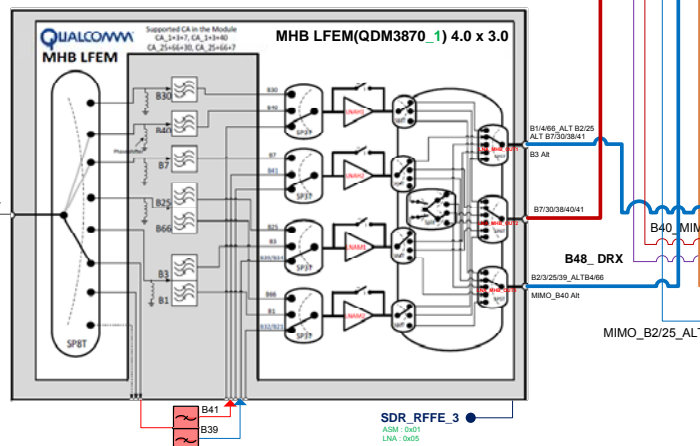
ANTENNA (mb/hb)
LTE : 2/4/7/25/30/41/66 Rx Only
(4x4 DL MIMO)



ANTENNA (UHB)
LTE B48 Rx Only



ANTENNA (MB/HB/GPS)
CDMA BC1 Rx Only
GSM/GPRS/EDGE 1900 Rx Only
UMTS B2/4 Rx Only
GPS Rx Only



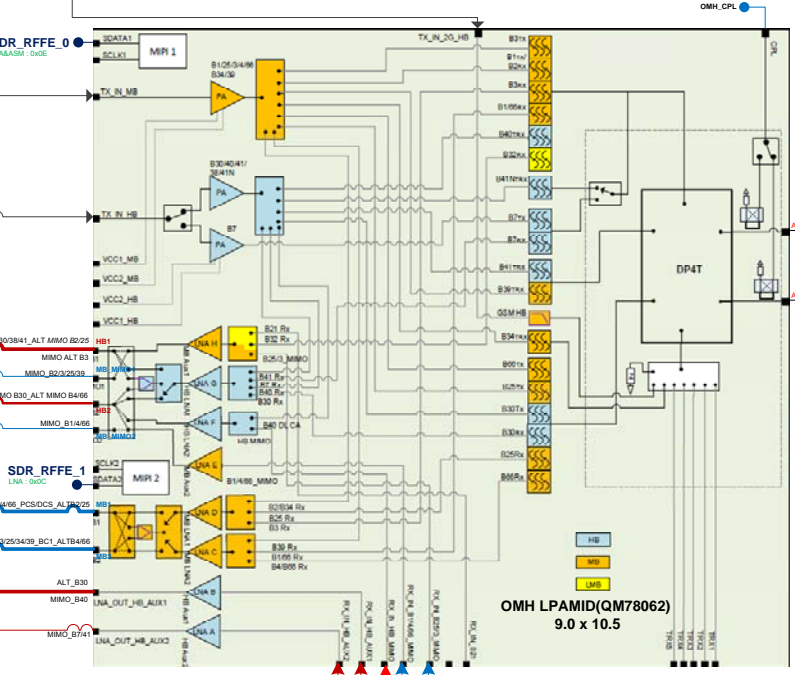
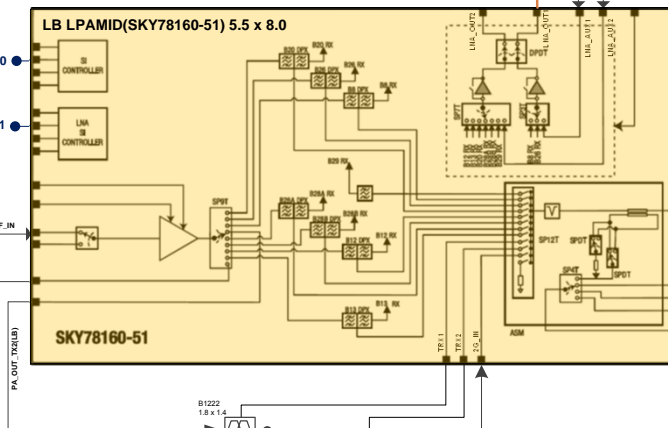
SDM_RFFE_2 (CLK - 38.4 MHz)

- LB LPAMid_LNA_OUT1
- FBRX_IN0
- FBRX_IN1
- TX0_LB2
- TX0_LB1
- TX0_MB1
- TX0_MB2
- TX0_HB1
- TX0_UHB

- PRX0_A
- PRX2_A
- PRX4_A
- PRX6_A
- PRX8_A
- PRX10_A
- PRX0_A

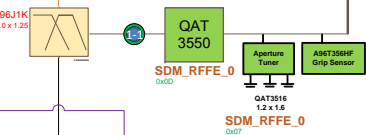
- PRX1_B
- PRX3_B
- PRX5_B
- PRX7_B
- PRX9_B
- PRX11_B

- GNSS_IN0
- GNSS_IN1

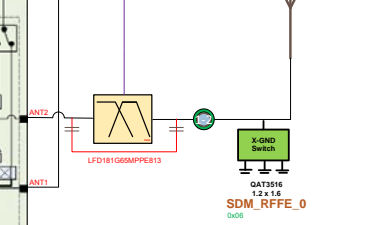


ET Modulator QET5100

ANTENNA (LB/MB)
CDMA/EVDO BC0/1/10 Tx/Rx
GSM/GPRS/EDGE 850/1900 Tx/Rx
UMTS B2/4/5 Tx/Rx
LTE B2/4/5/12/13/14/25/26/30/66/71 Tx/Rx
LTE B29 Rx Only
LTE B7 Tx/Rx (Tx with CA PCC Only)



ANTENNA (HB || UHB)
LTE B7/38/41/48 Tx/Rx



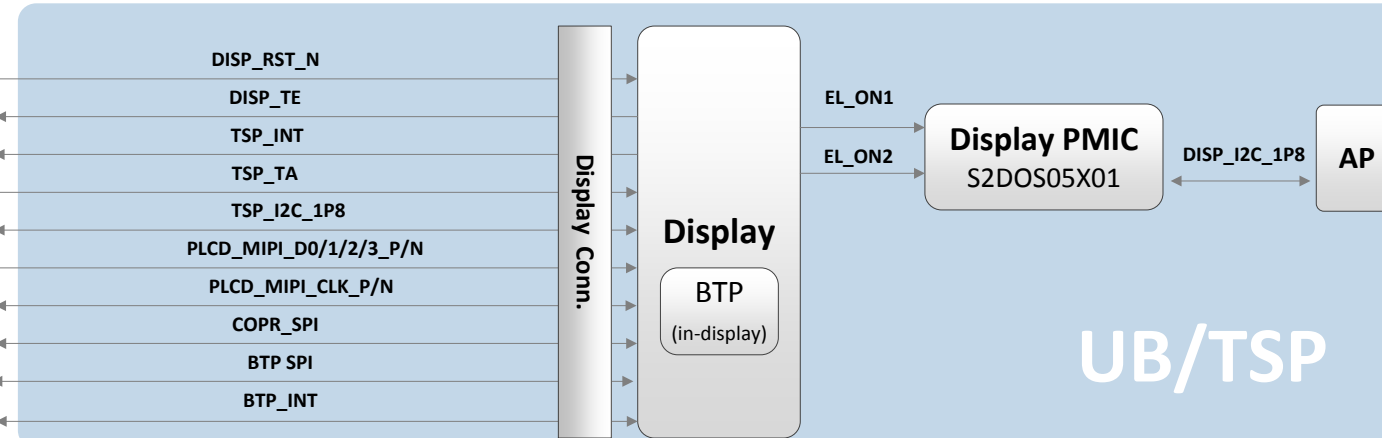
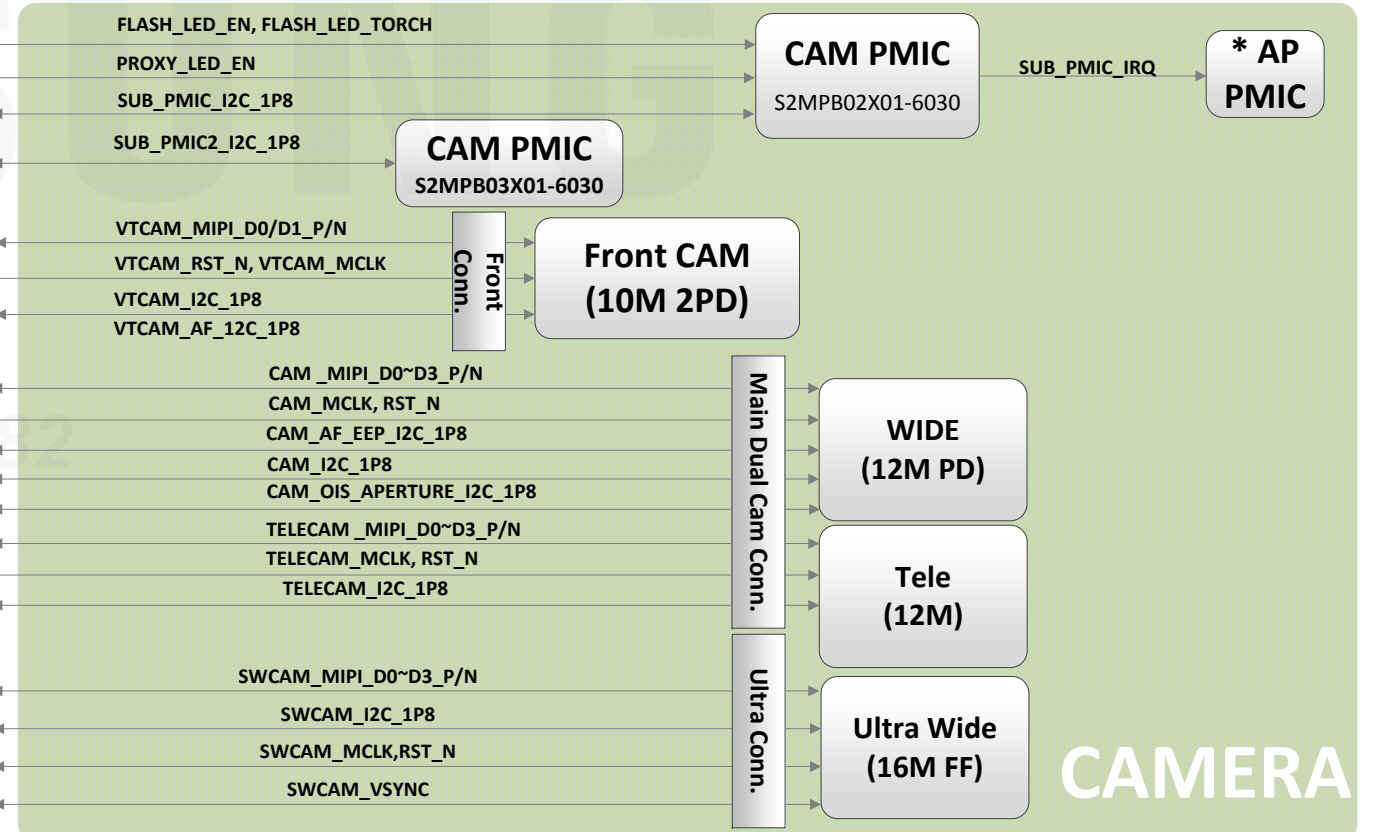
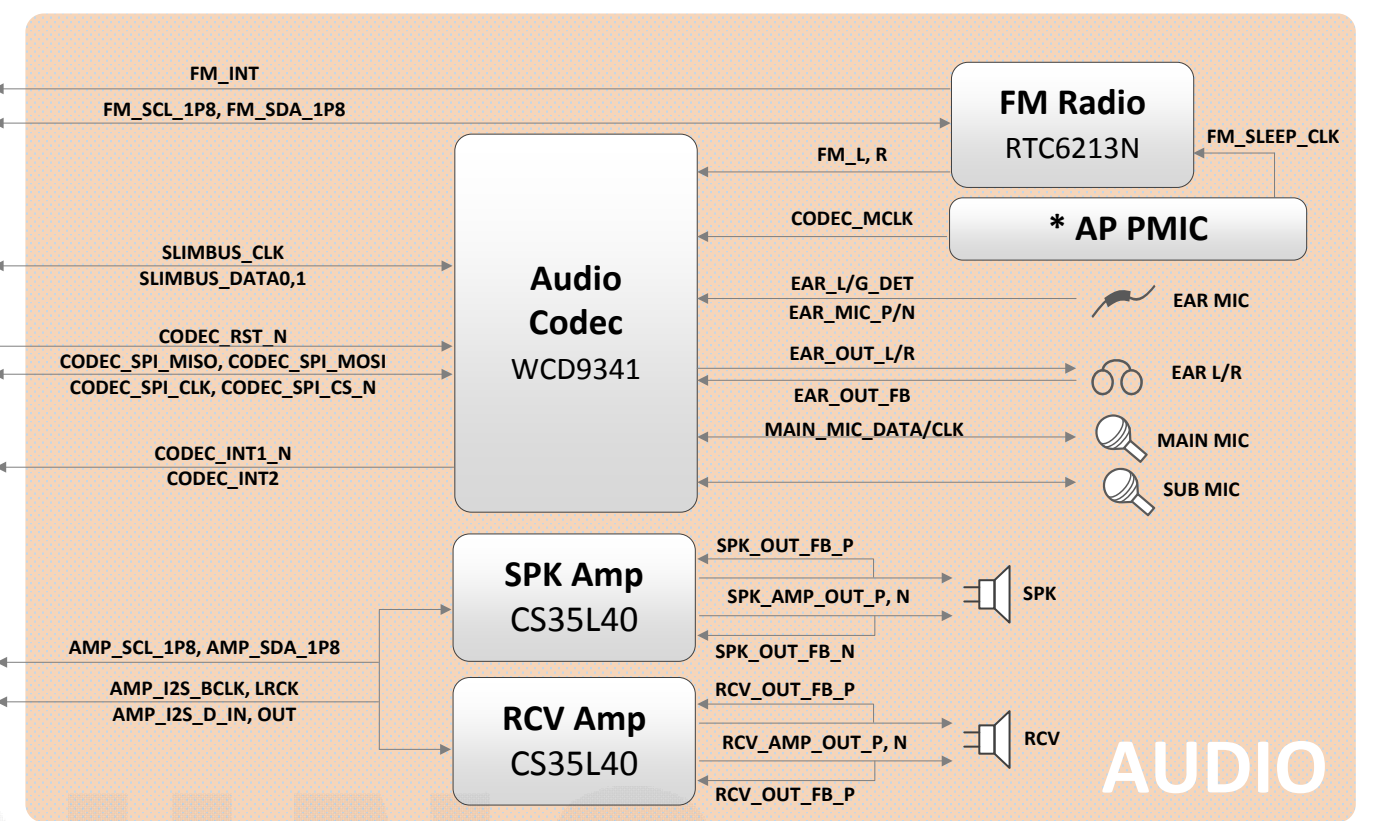
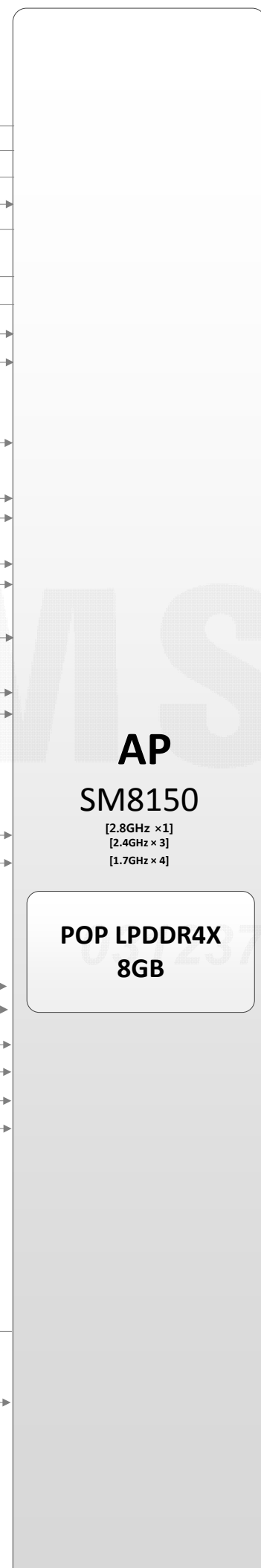
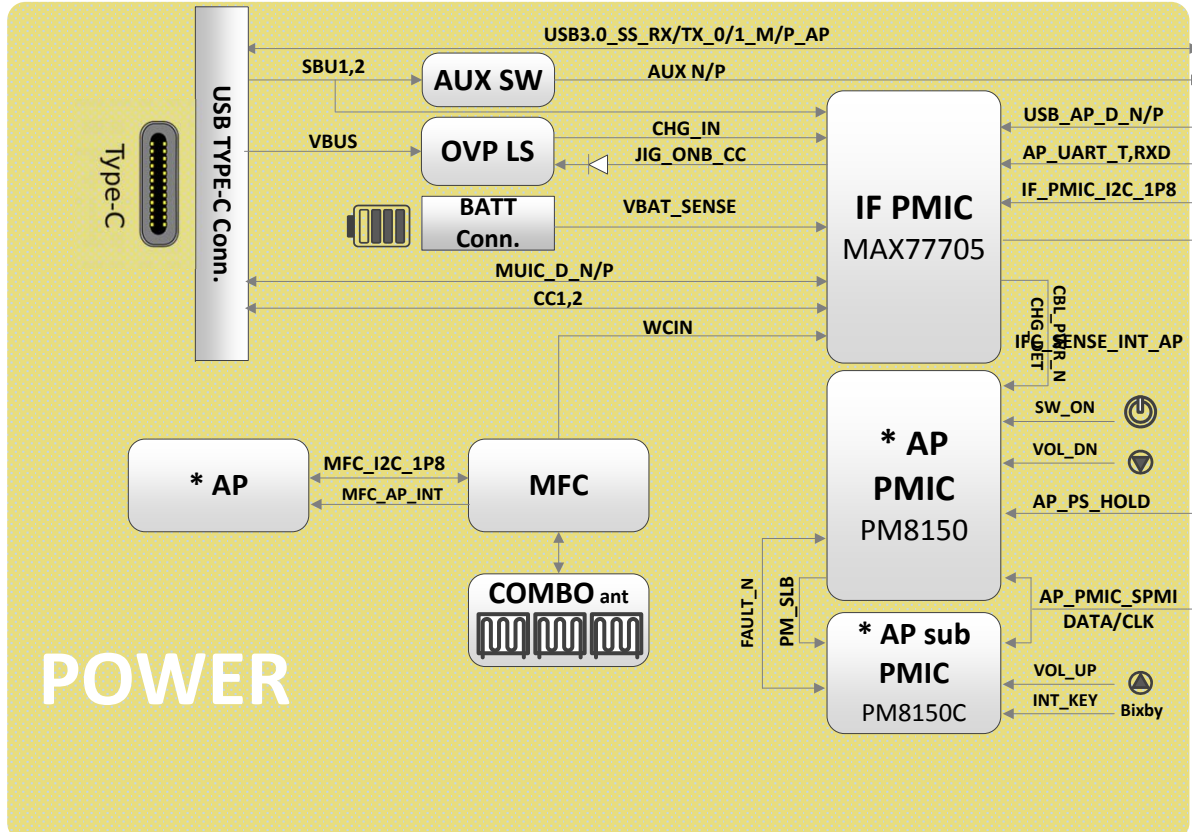
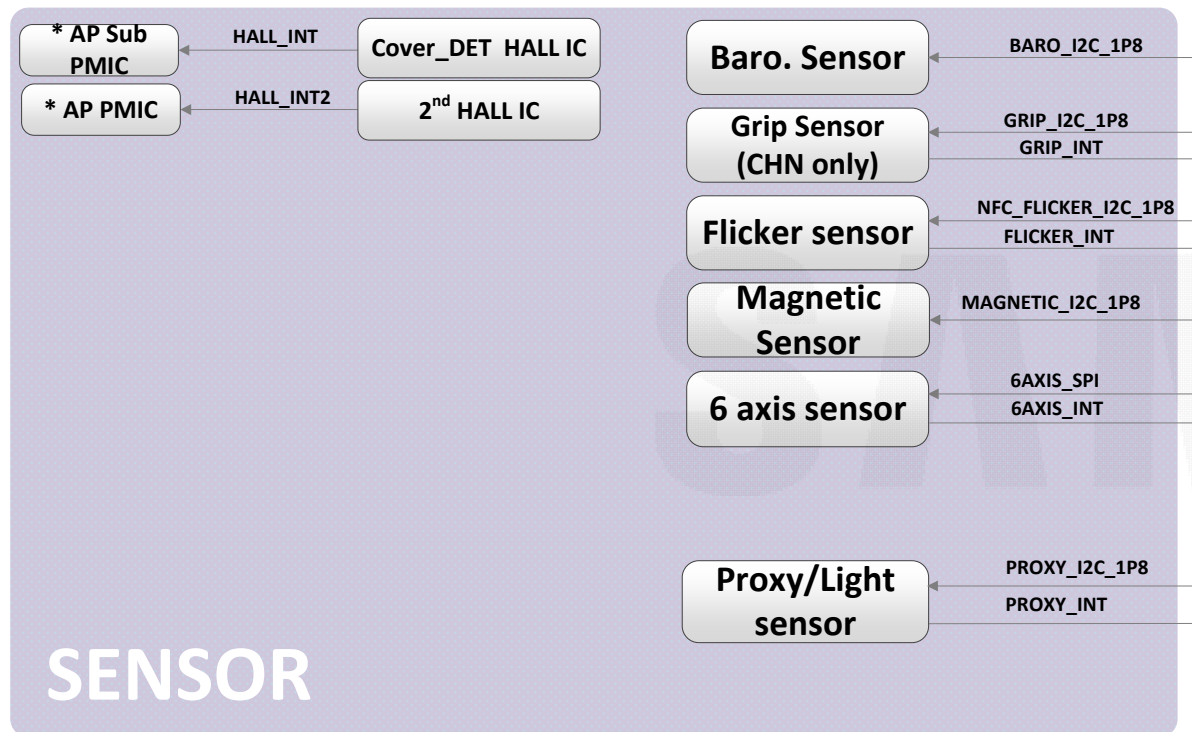
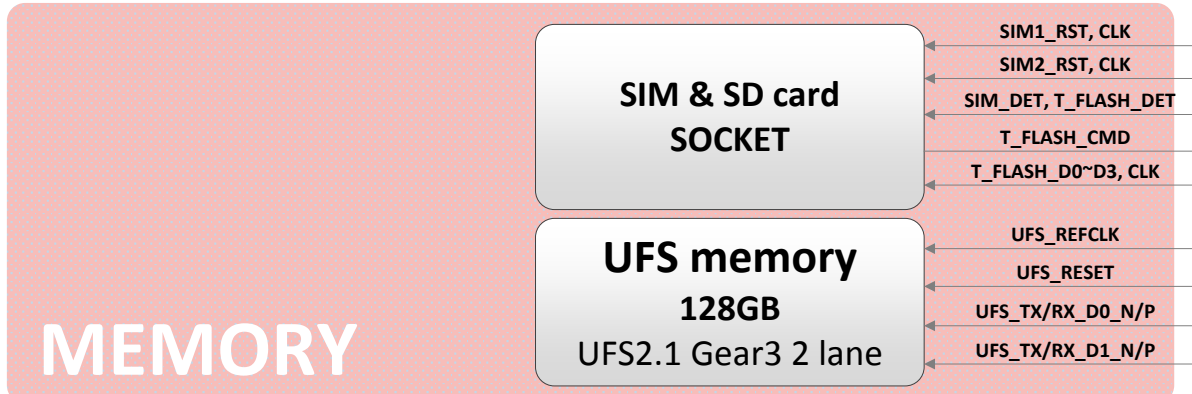
ANTENNA (hb)
LTE B7/30/41 Rx Only
(4x4 DL MIMO)

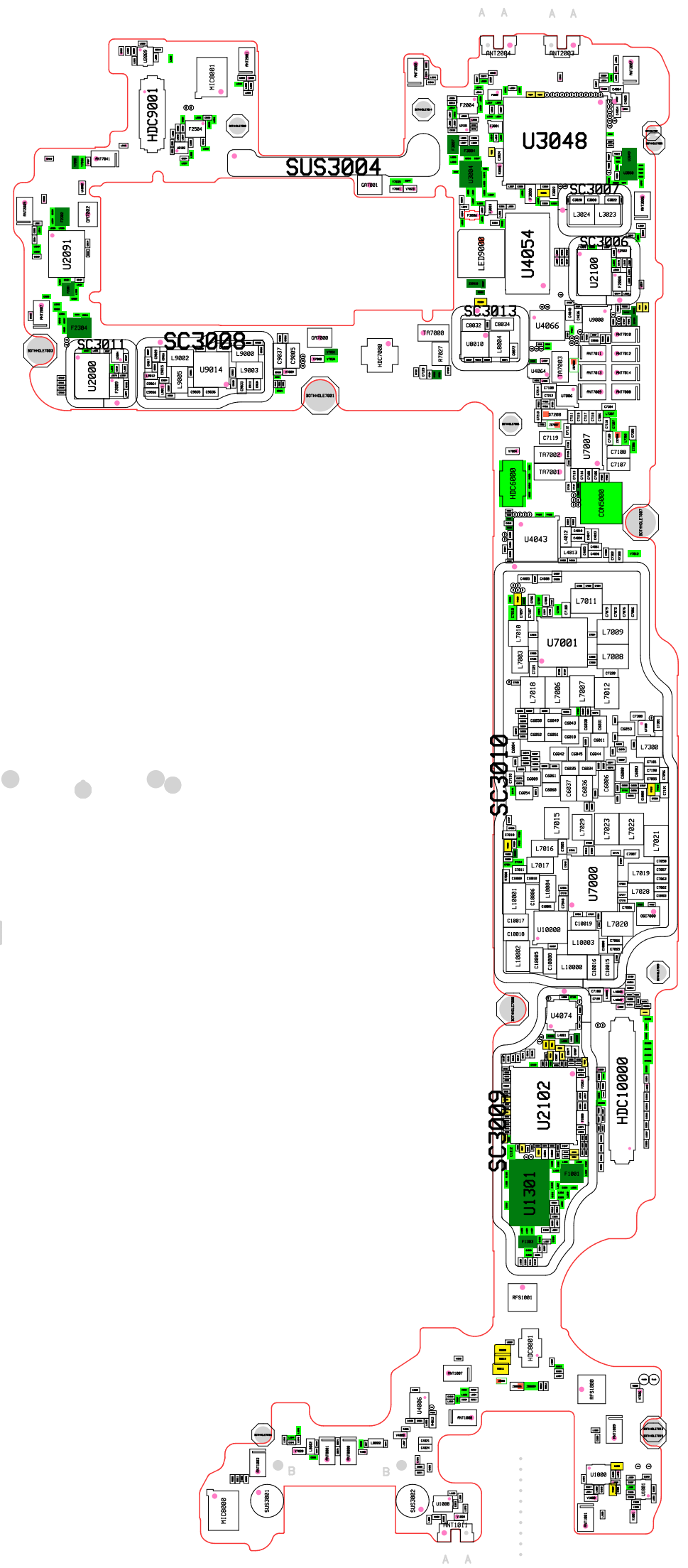
ANTENNA (mb)
LTE B2/4/25/66 Rx Only
(4x4 DL MIMO)

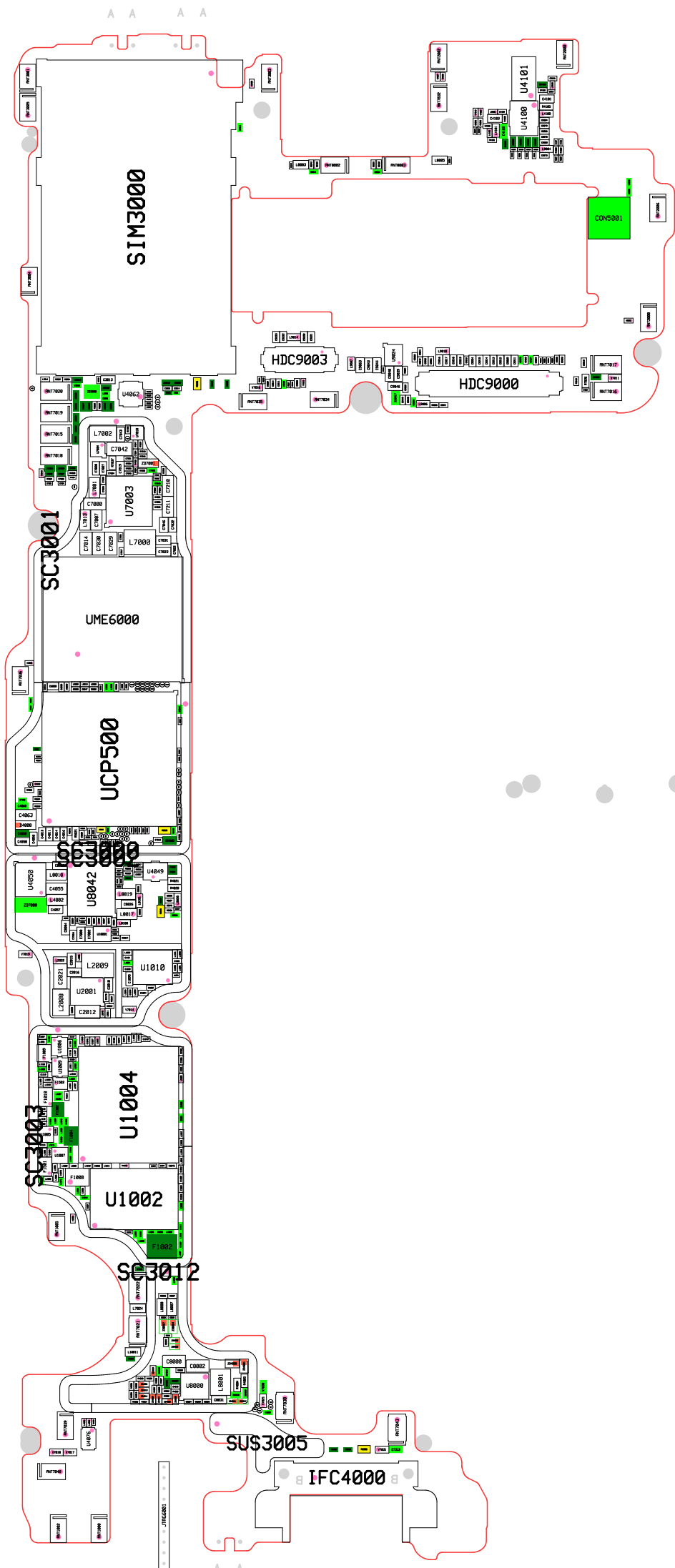


- W_GRFCC: generic
- W_GRFCC1: generic
- W_GRFCC2: generic
- W_GRFCC3: generic
- W_GRFCC4: generic
- W_GRFCC5: generic
- W_GRFCC6: generic
- W_GRFCC7: generic
- W_GRFCC8: generic
- W_GRFCC9: generic
- W_GRFCC10: generic
- W_GRFCC11: generic
- W_GRFCC12: generic
- W_GRFCC13: generic
- W_GRFCC14: generic
- W_GRFCC15: generic
- W_GRFCC16: generic
- W_GRFCC17: generic
- W_GRFCC18: generic
- W_GRFCC19: generic
- W_GRFCC20: generic
- W_GRFCC21: generic
- W_GRFCC22: generic
- W_GRFCC23: generic
- W_GRFCC24: generic
- W_GRFCC25: generic
- W_GRFCC26: generic
- W_GRFCC27: generic
- W_GRFCC28: generic
- W_GRFCC29: generic
- W_GRFCC30: generic
- W_GRFCC31: generic
- W_GRFCC32: generic
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- W_GRFCC38: generic
- W_GRFCC39: generic
- W_GRFCC40: generic
- W_GRFCC41: generic
- W_GRFCC42: generic
- W_GRFCC43: generic
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- W_GRFCC50: generic
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- W_GRFCC52: generic
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- W_GRFCC85: generic
- W_GRFCC86: generic
- W_GRFCC87: generic
- W_GRFCC88: generic
- W_GRFCC89: generic
- W_GRFCC90: generic
- W_GRFCC91: generic
- W_GRFCC92: generic
- W_GRFCC93: generic
- W_GRFCC94: generic
- W_GRFCC95: generic
- W_GRFCC96: generic
- W_GRFCC97: generic
- W_GRFCC98: generic
- W_GRFCC99: generic
- W_GRFCC100: generic

[SM-G9730/G9738] Baseband Block Diagram

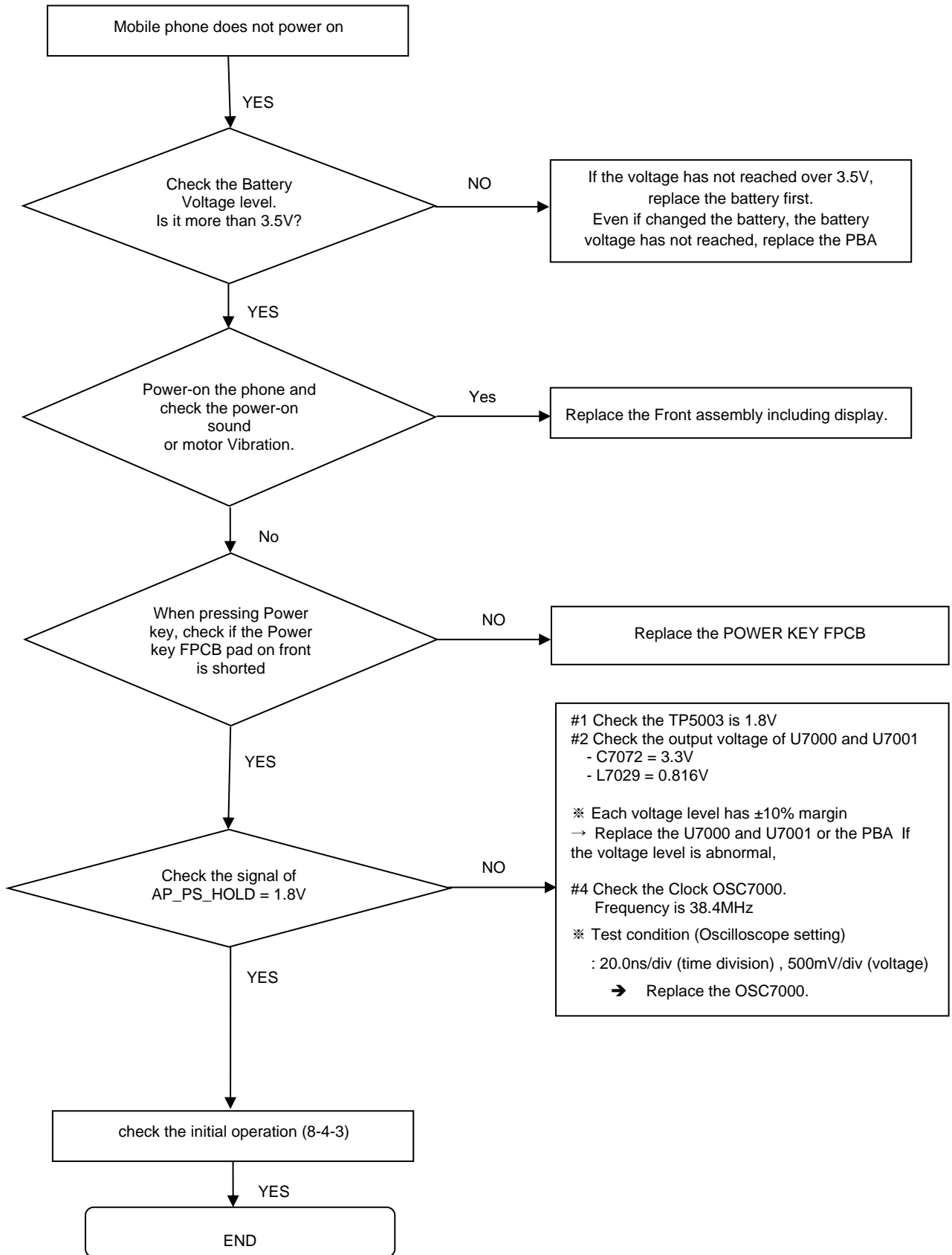






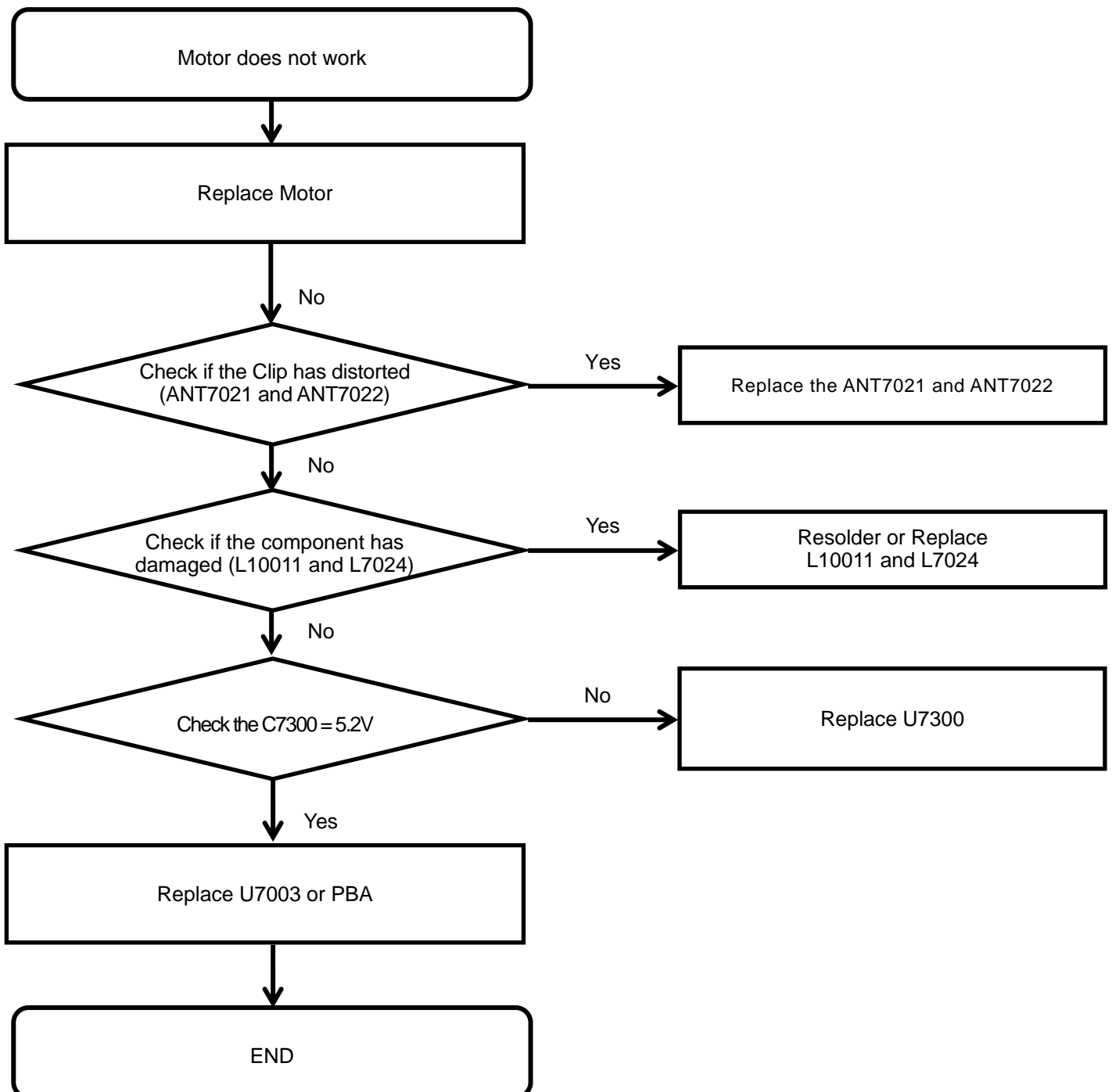
8. Level 3 Repair

8-4-1. Power on



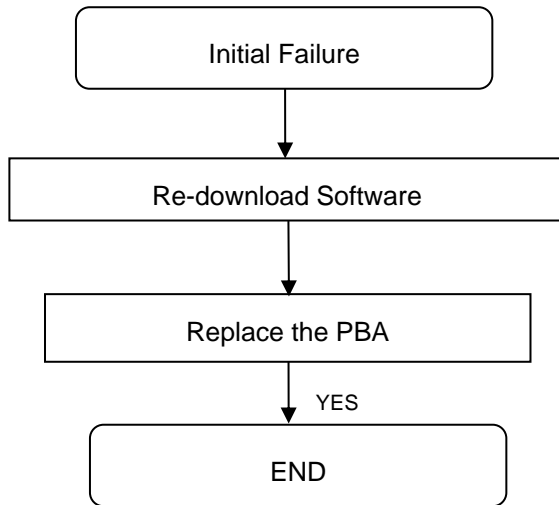
8. Level 3 Repair

8-4-2. Motor



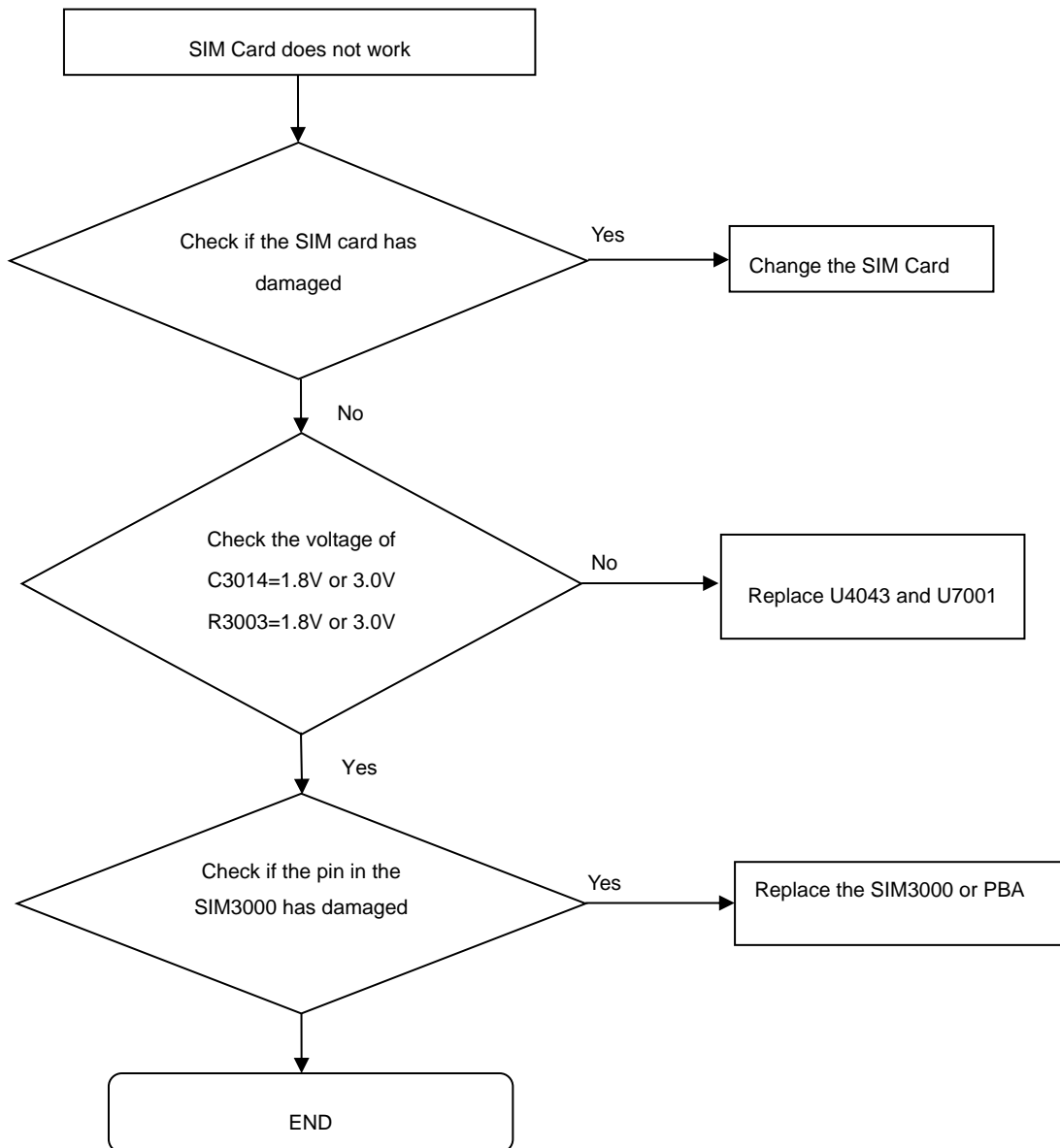
8. Level 3 Repair

8-4-3. initial



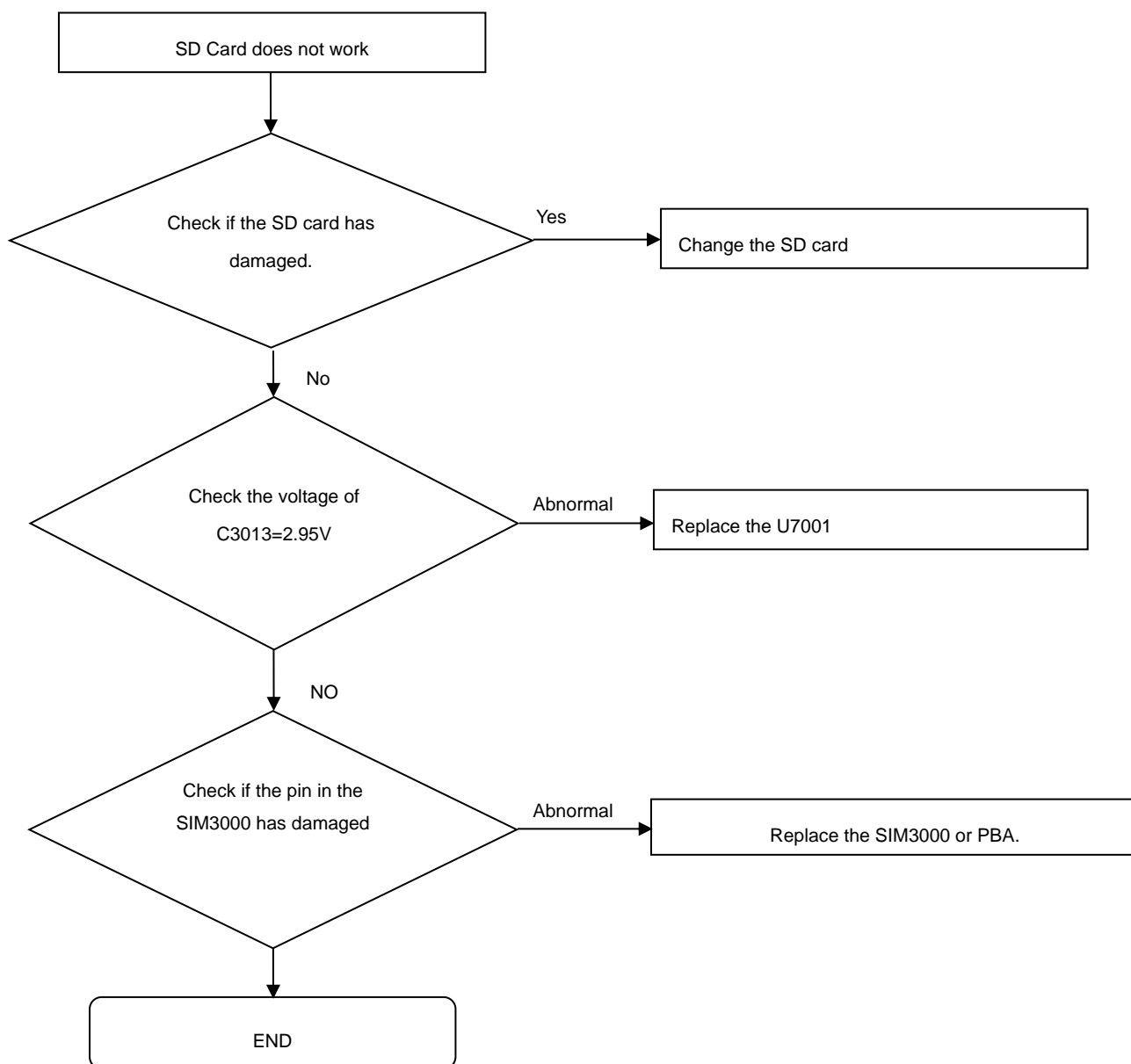
8. Level 3 Repair

8-4-4. SIM PART



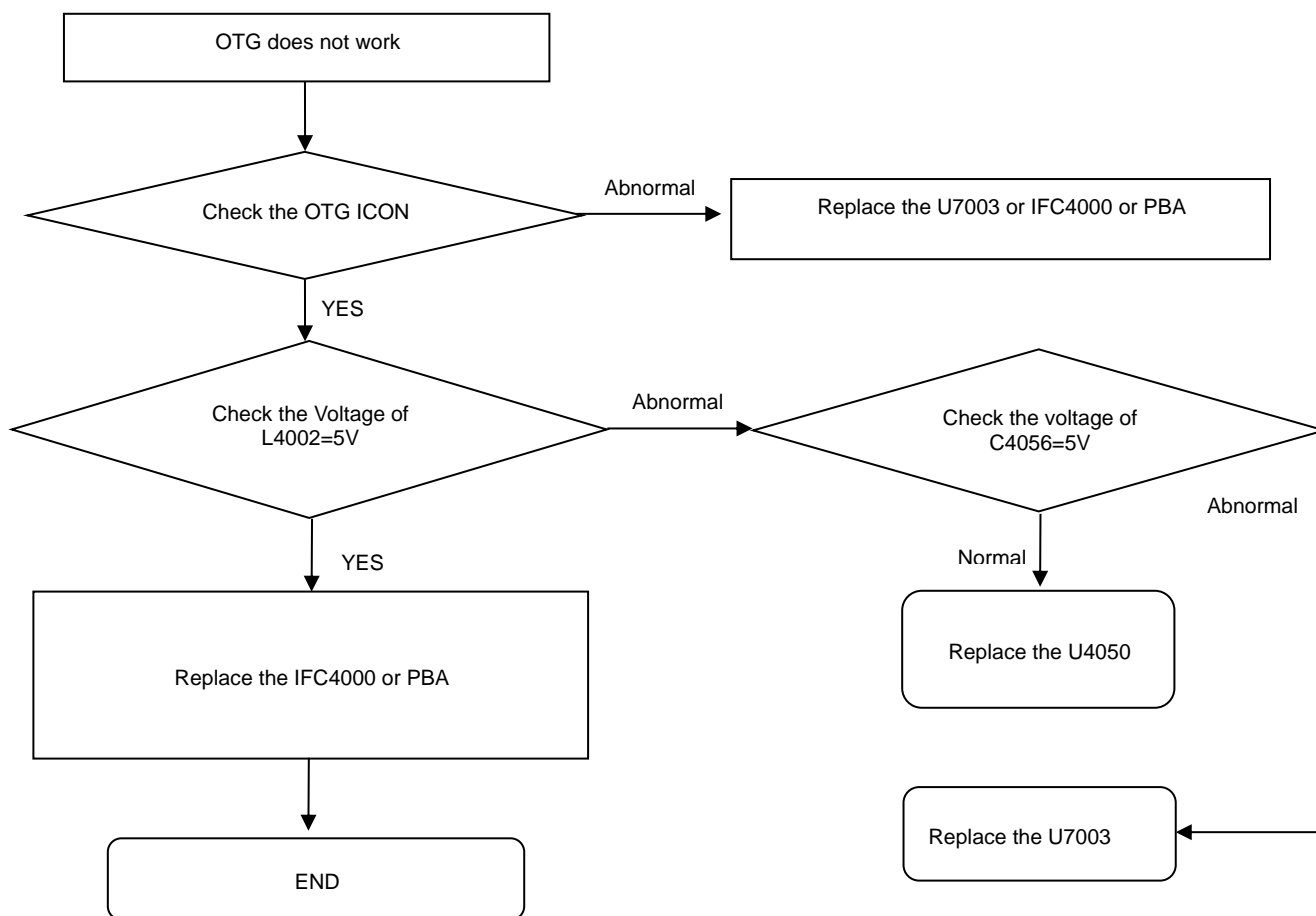
8. Level 3 Repair

8-4-5. SIM/SD PART



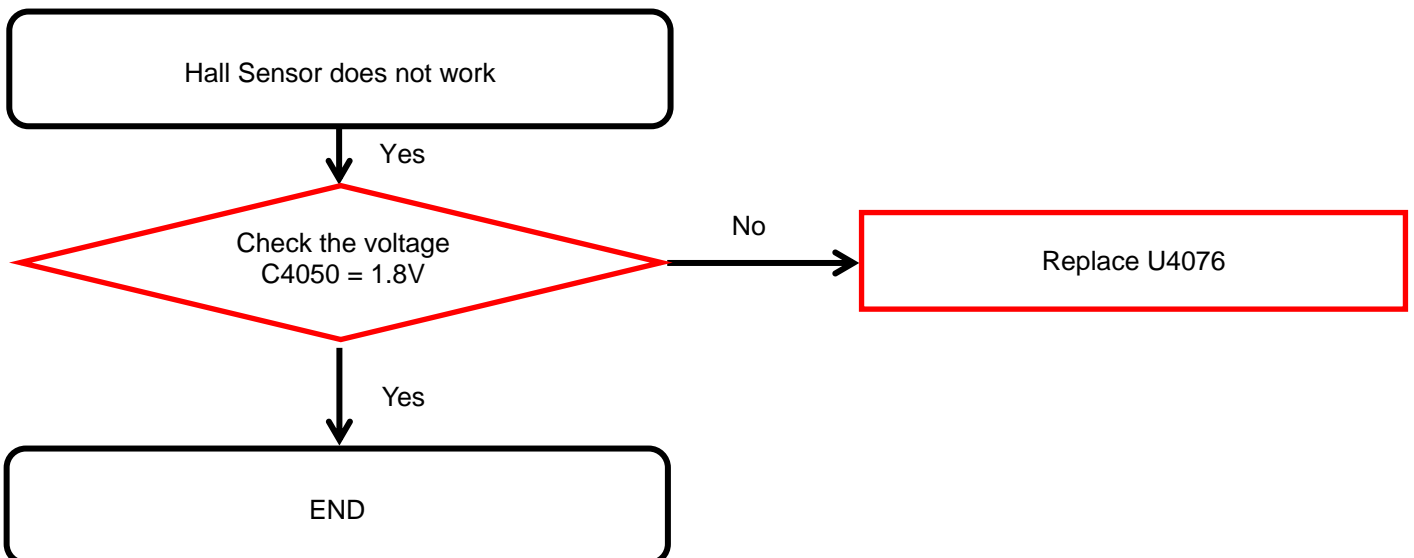
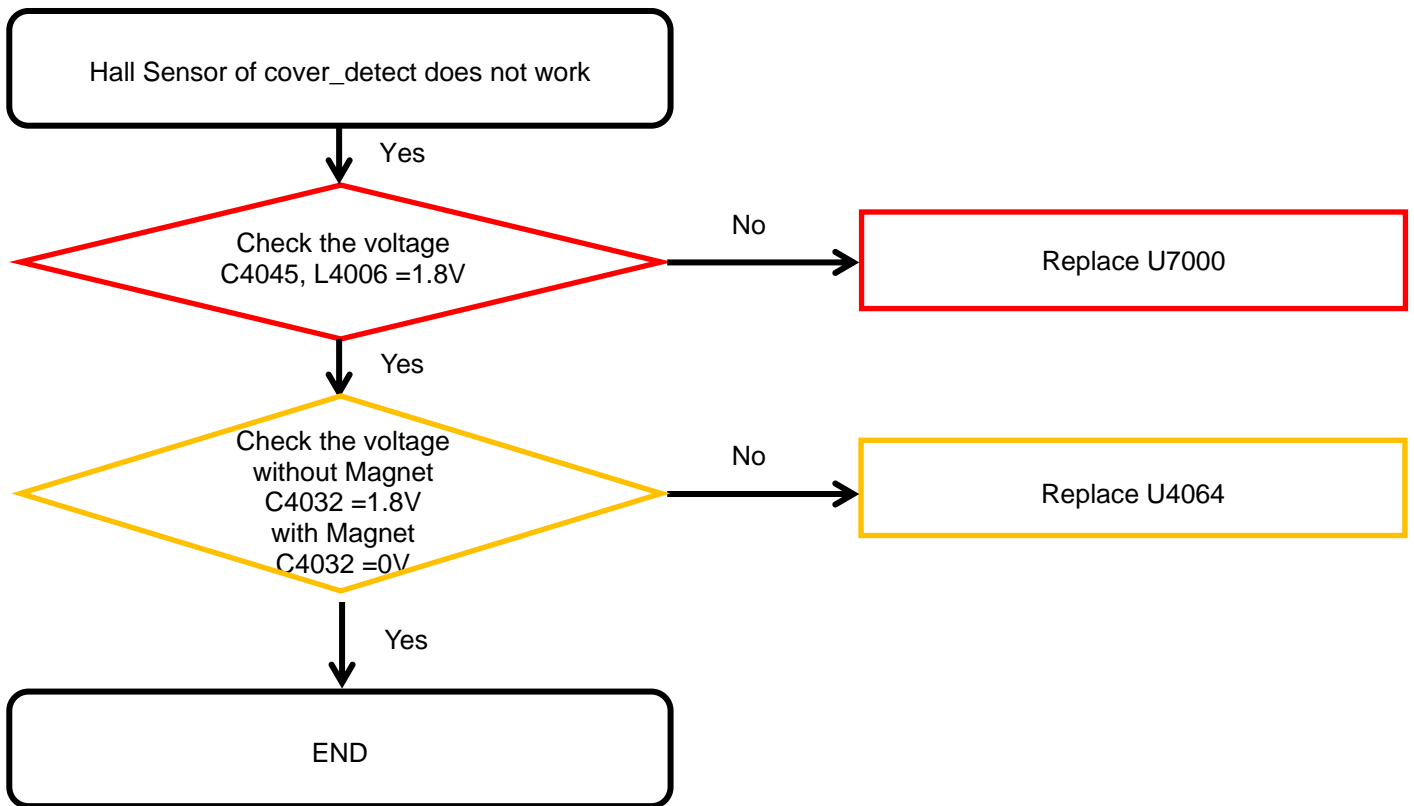
8. Level 3 Repair

8-4-6. OTG



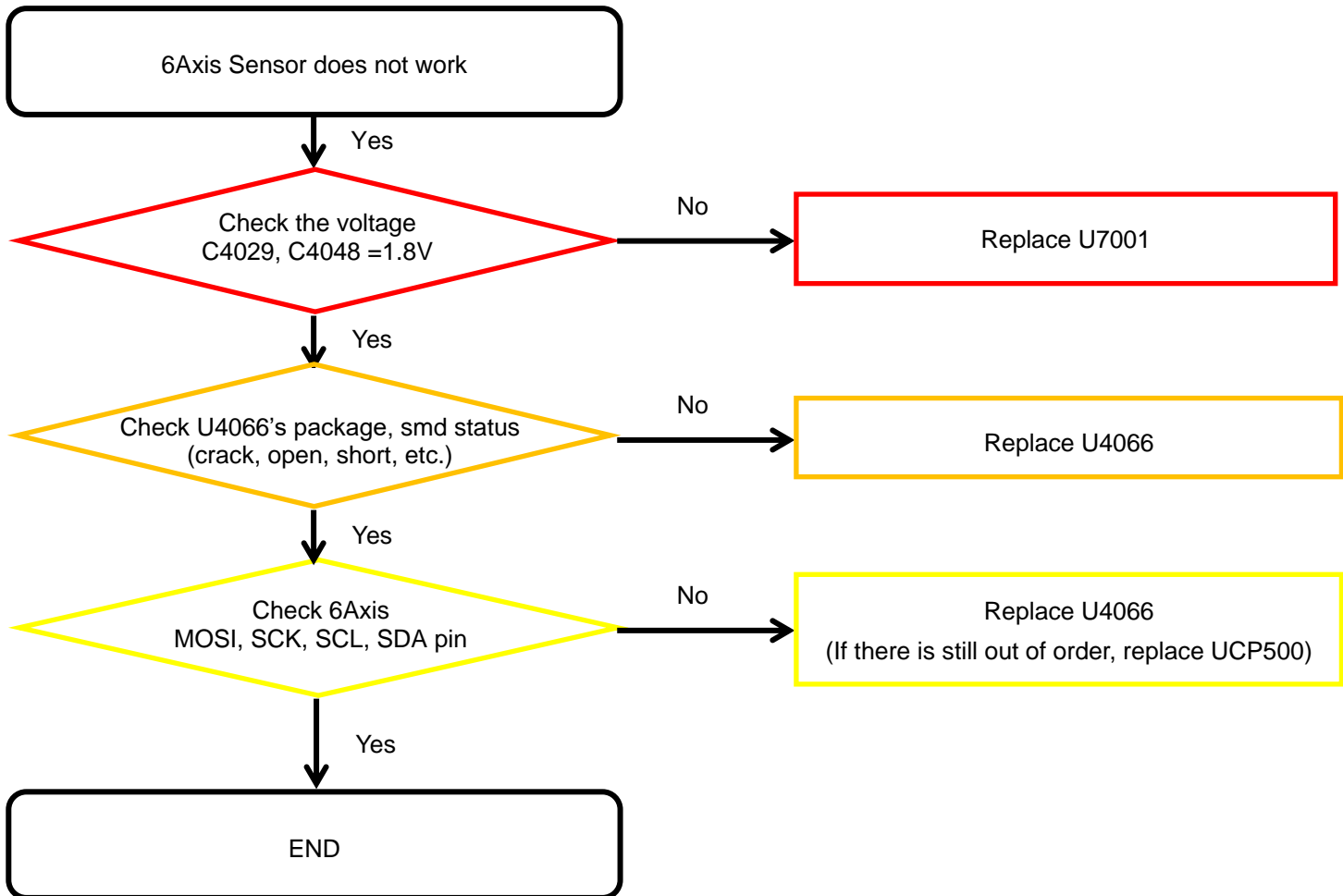
8. Level 3 Repair

8-4-7. Hall IC



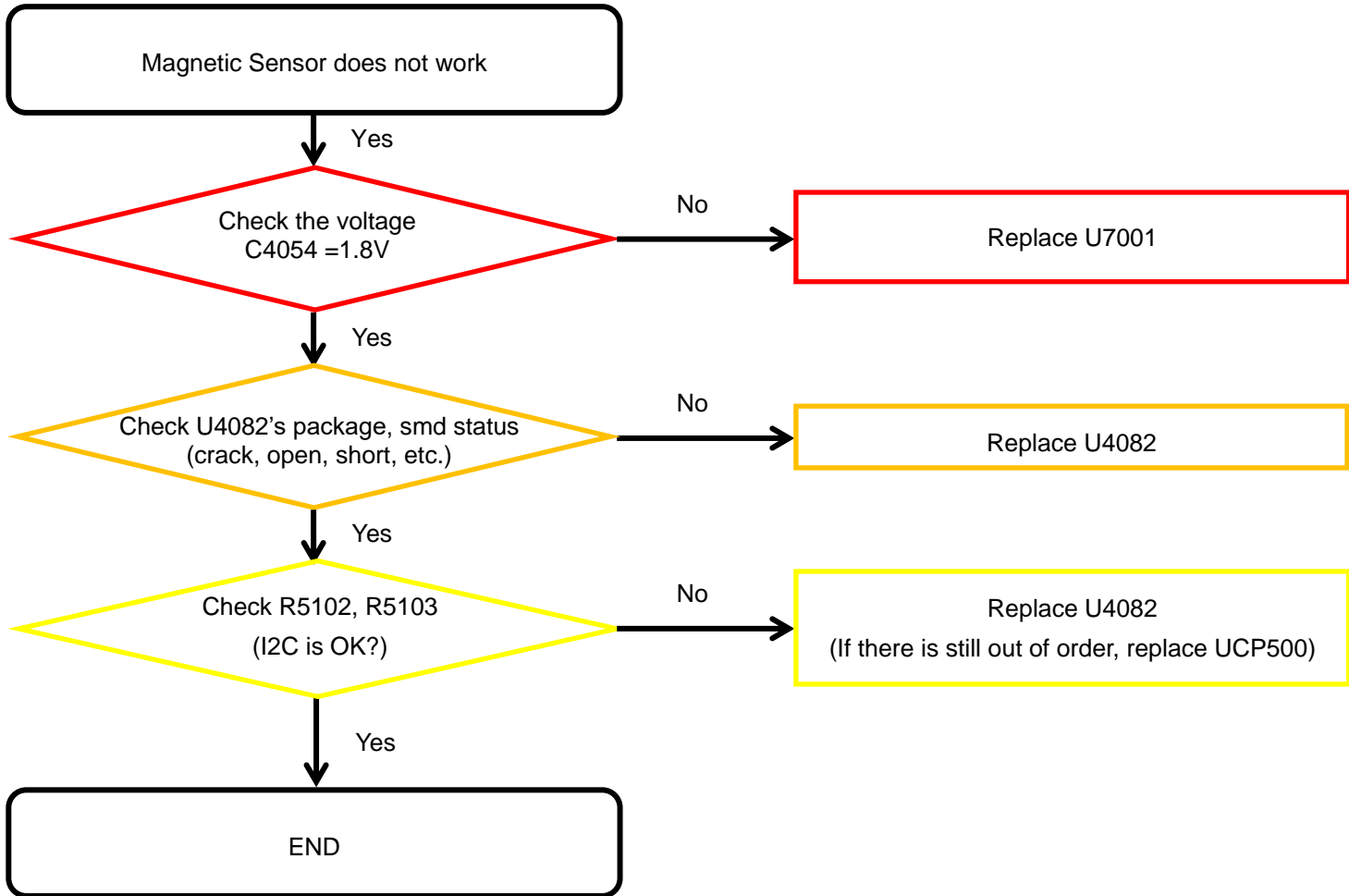
8. Level 3 Repair

8-4-8. 6Axis sensor



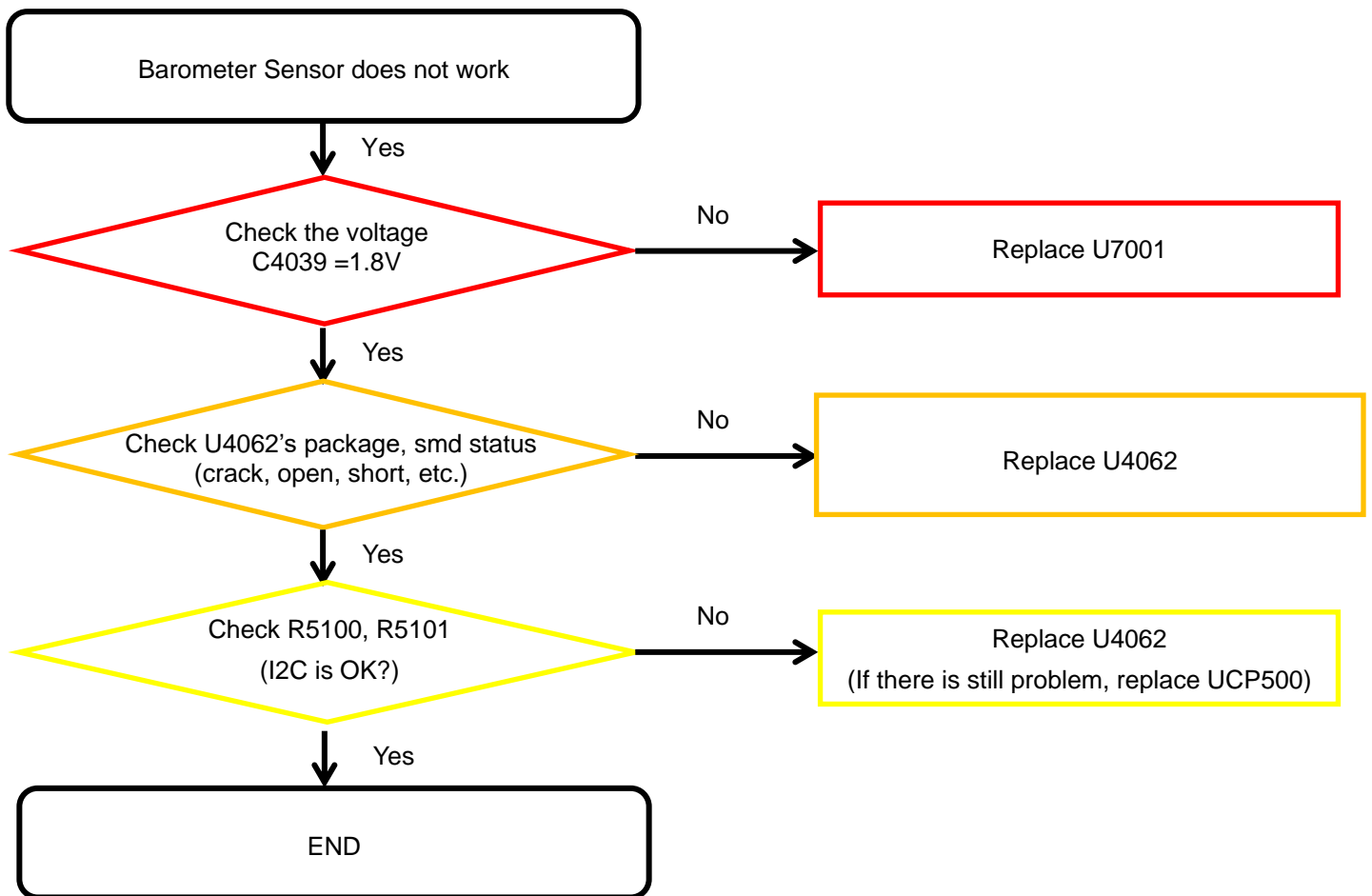
8. Level 3 Repair

8-4-9. Magnetic sensor



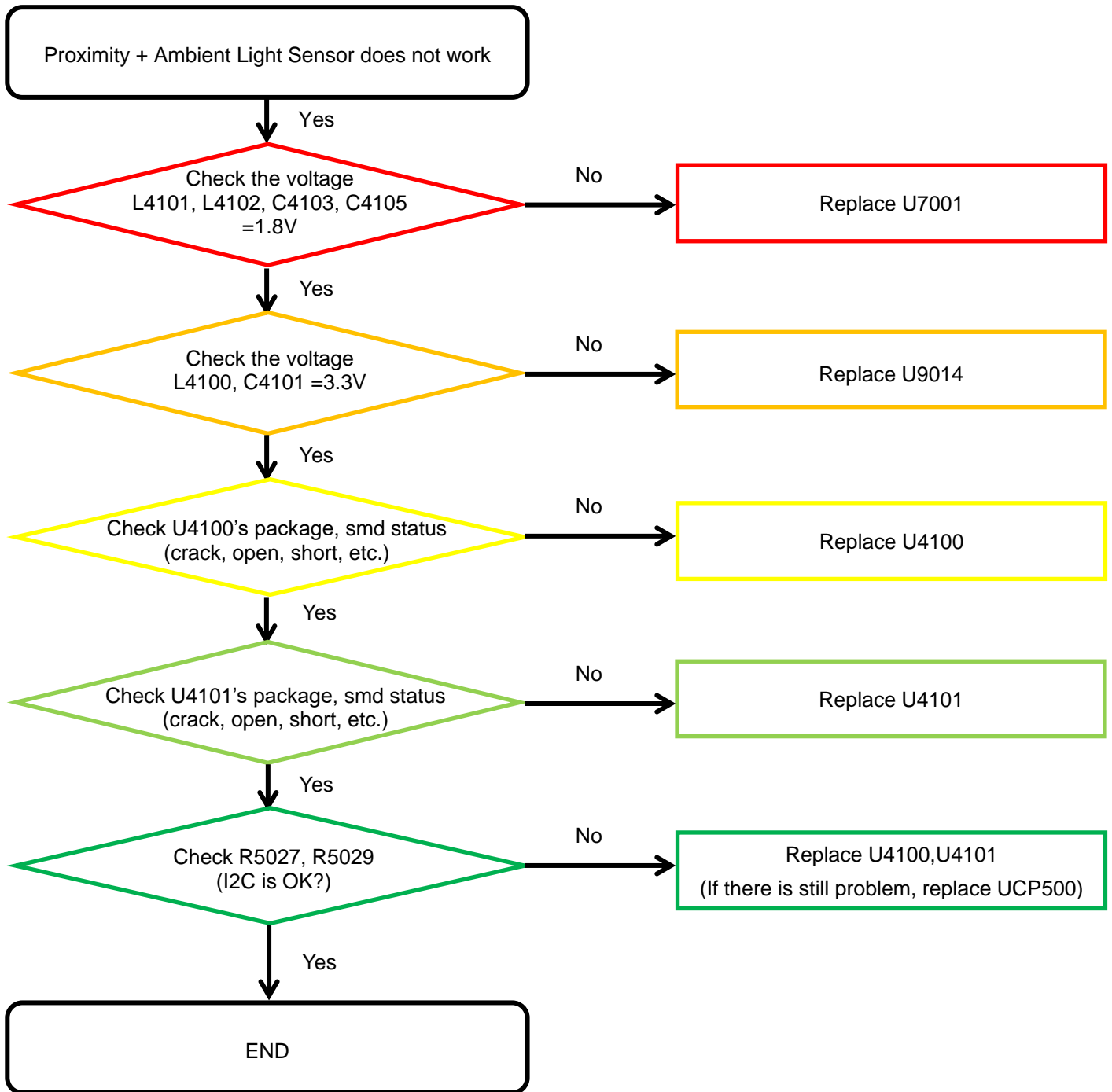
8. Level 3 Repair

8-4-10. Barometer sensor



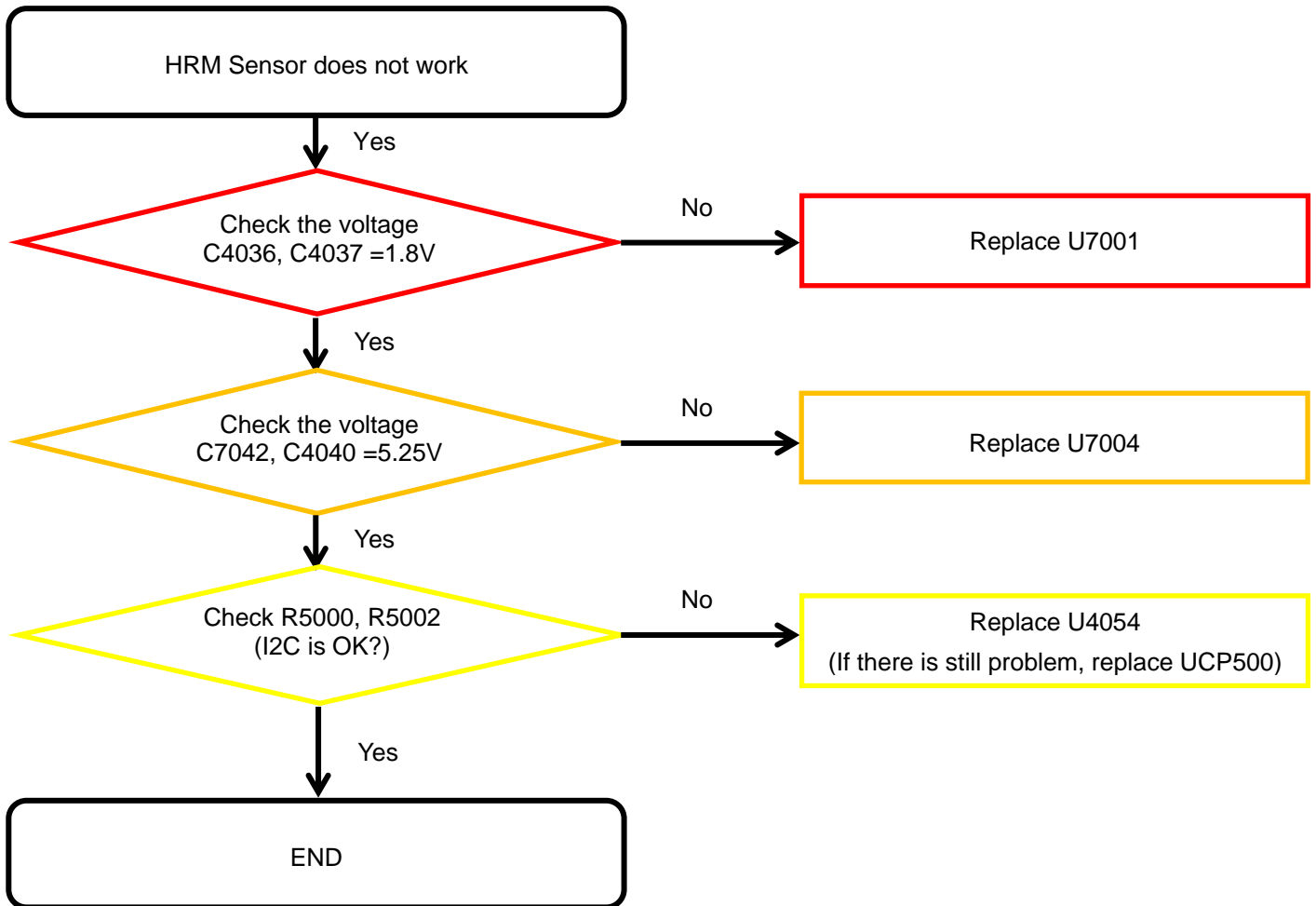
8. Level 3 Repair

8-4-11. Proximity/Ambient Light sensor



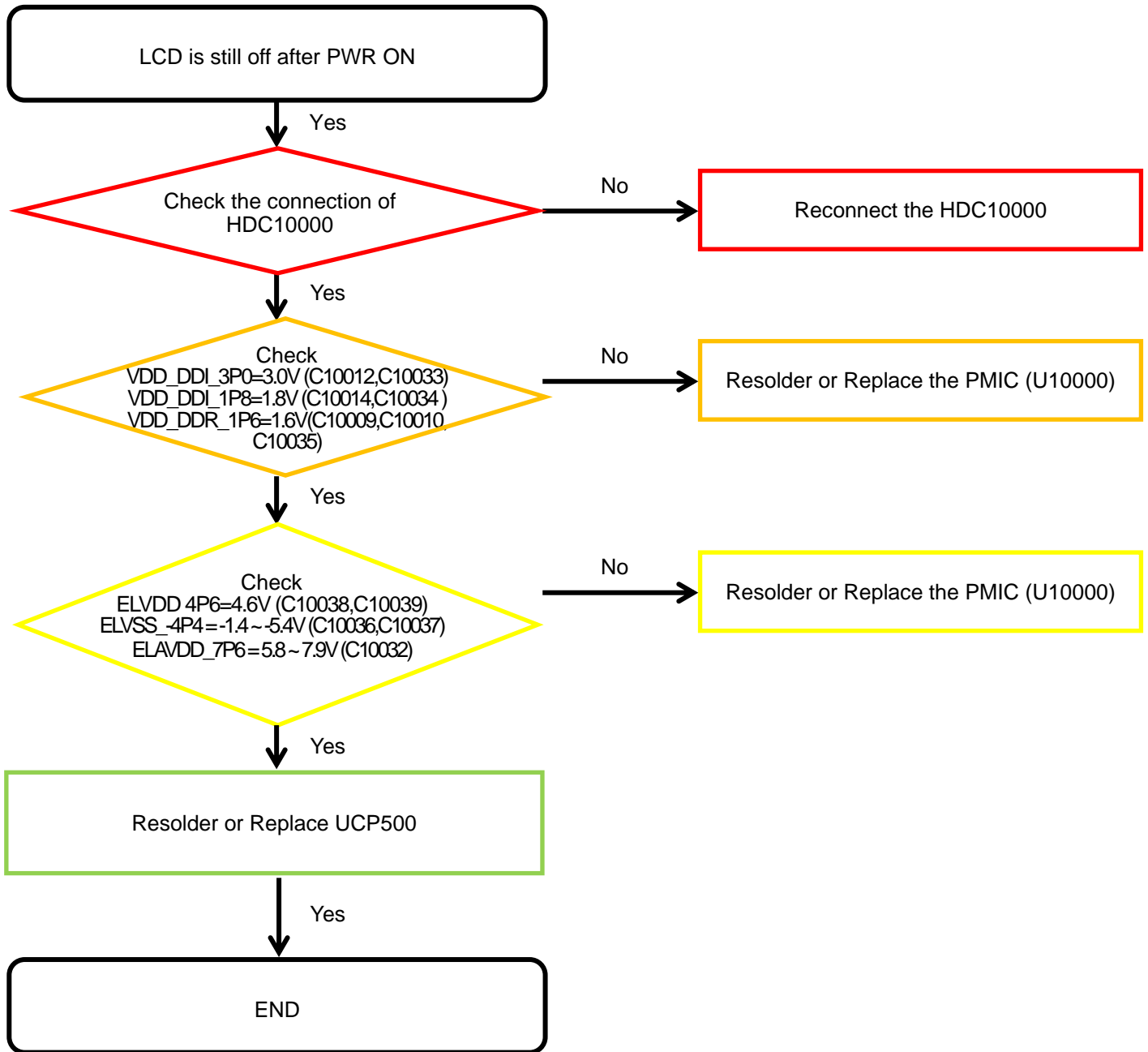
8. Level 3 Repair

8-4-12. HRM sensor



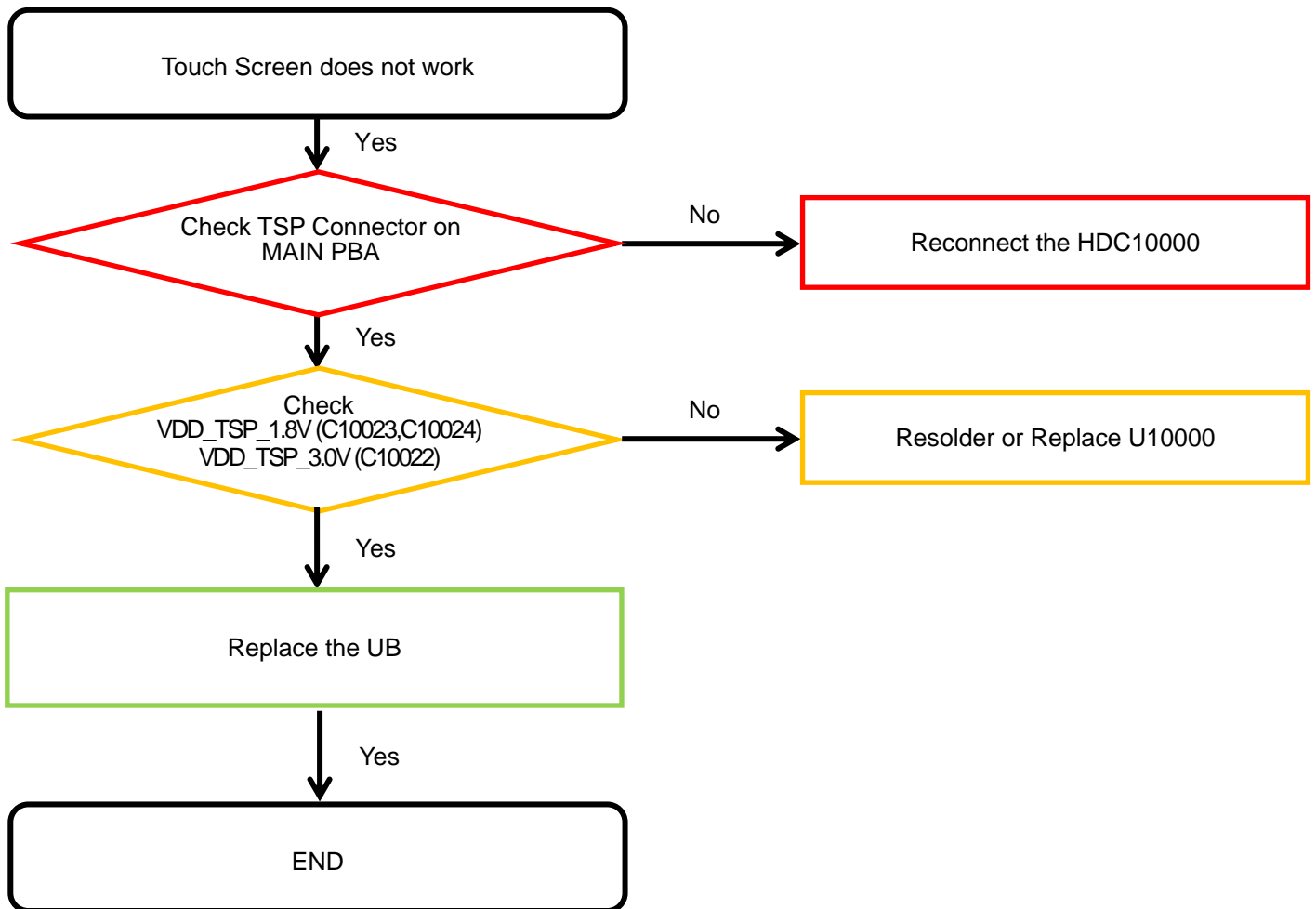
8. Level 3 Repair

8-4-13. Display



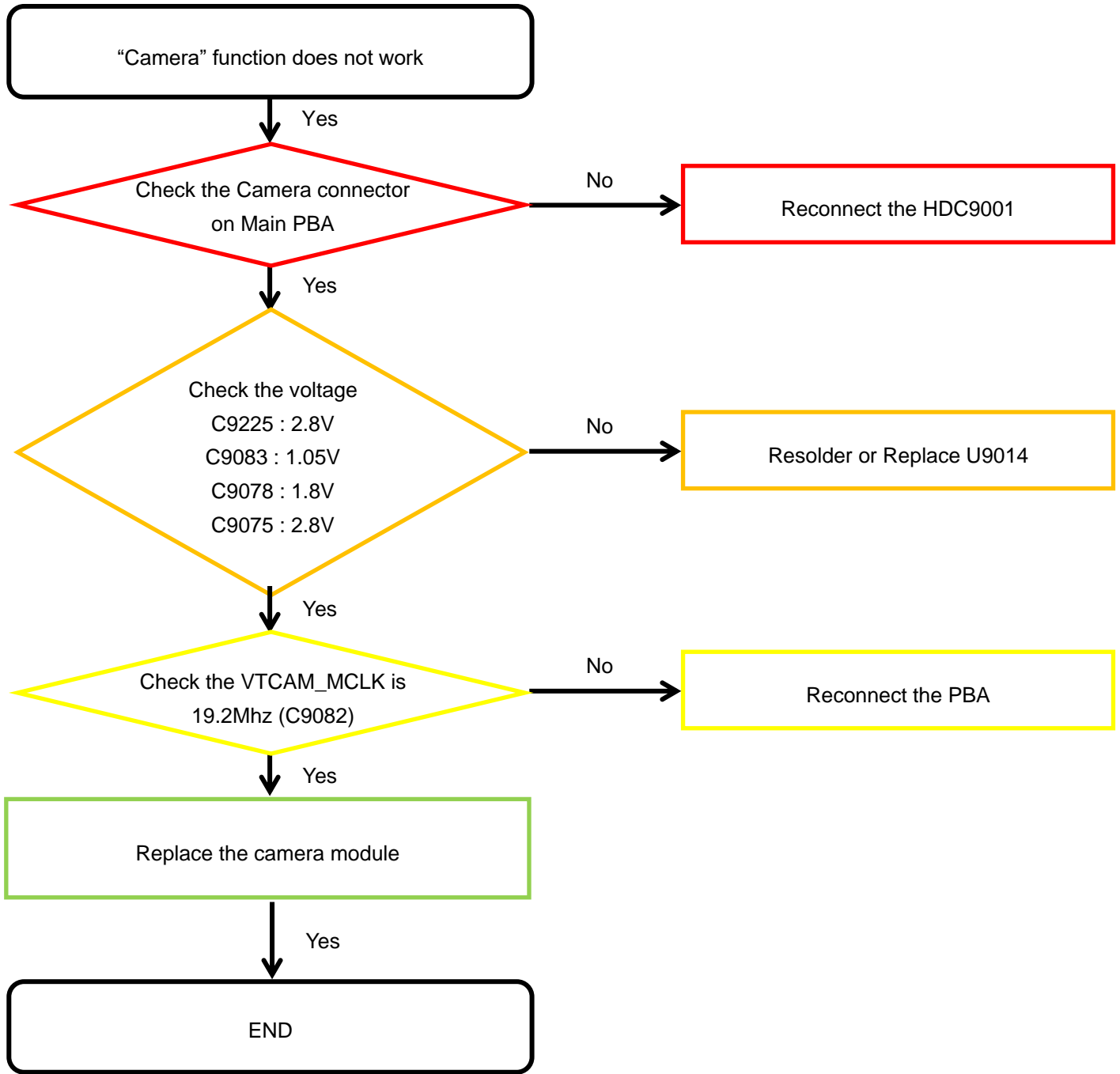
8. Level 3 Repair

8-4-14. TSP



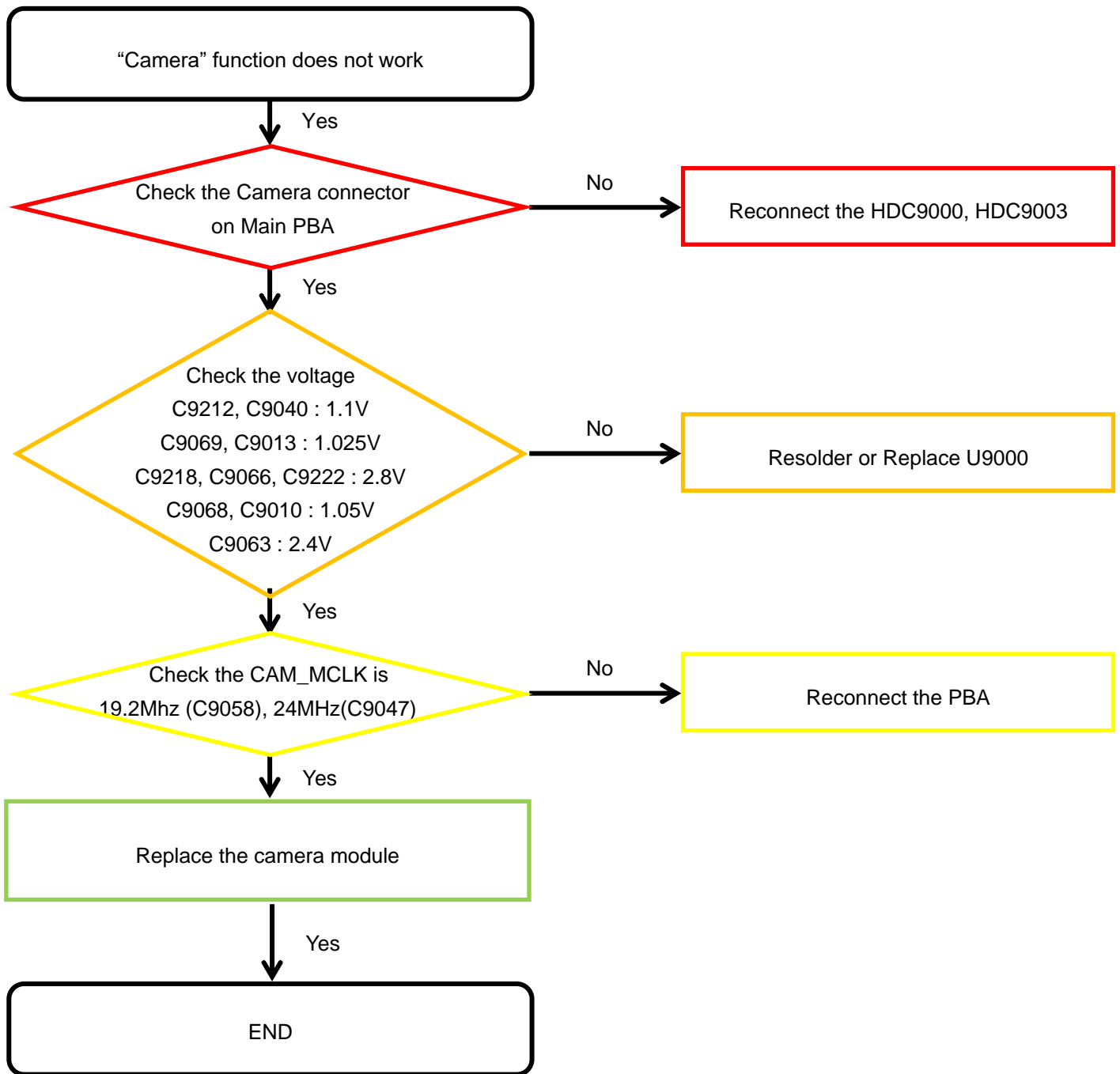
8. Level 3 Repair

8-4-15. VT CAMERA



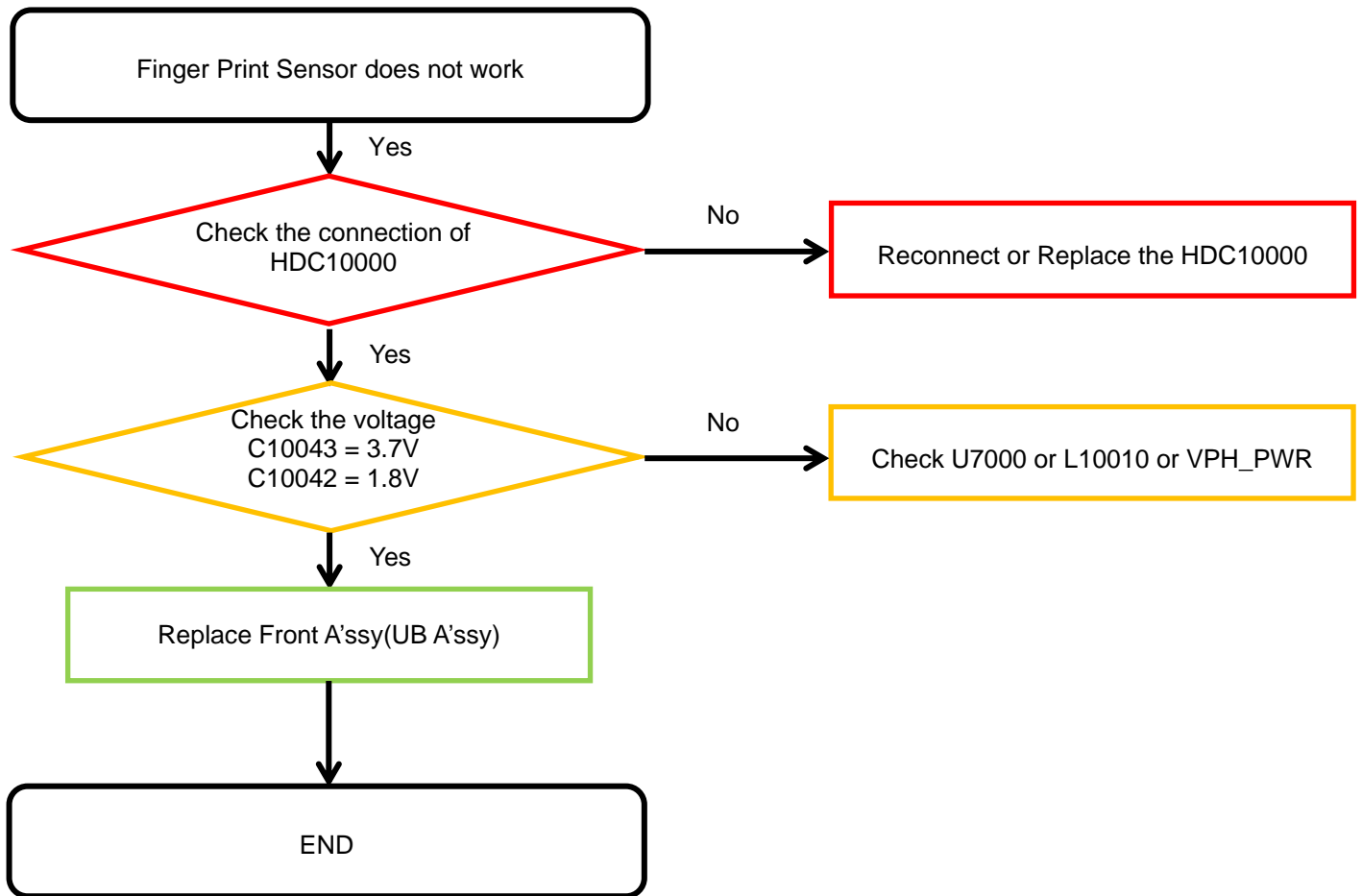
8. Level 3 Repair

8-4-16. Rear CAMERA



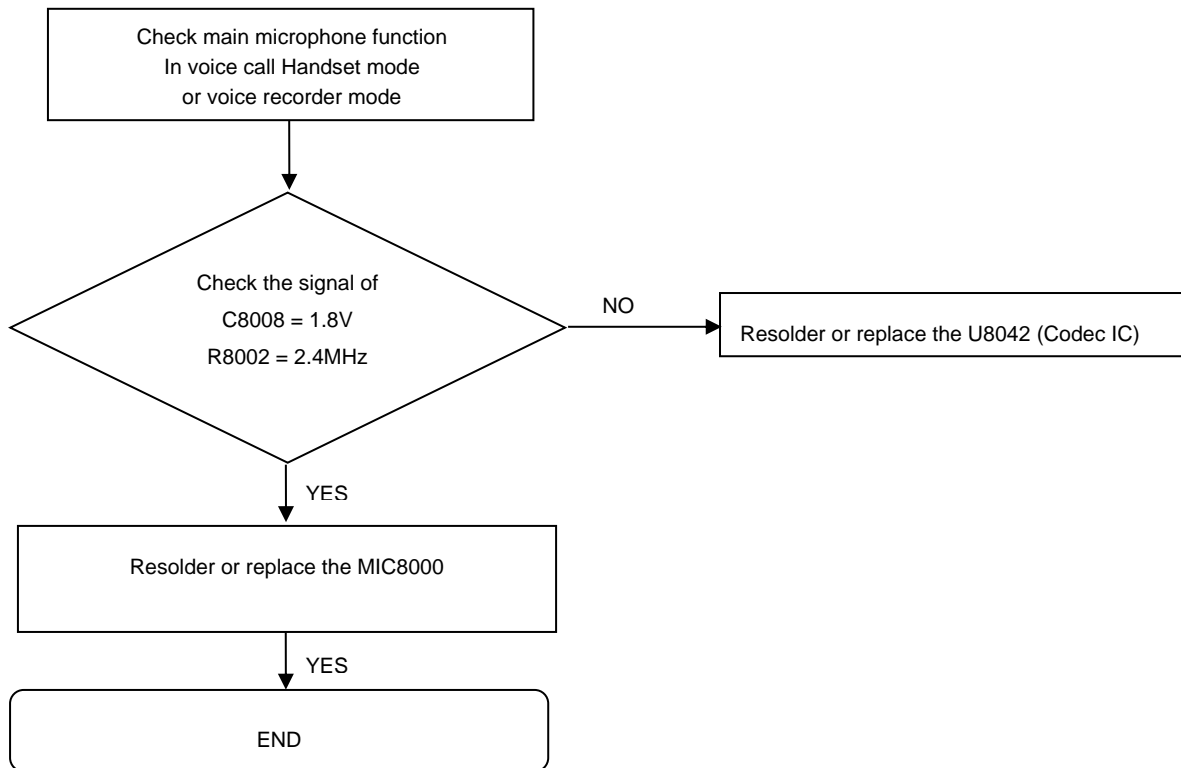
8. Level 3 Repair

8-4-17. Finger Print



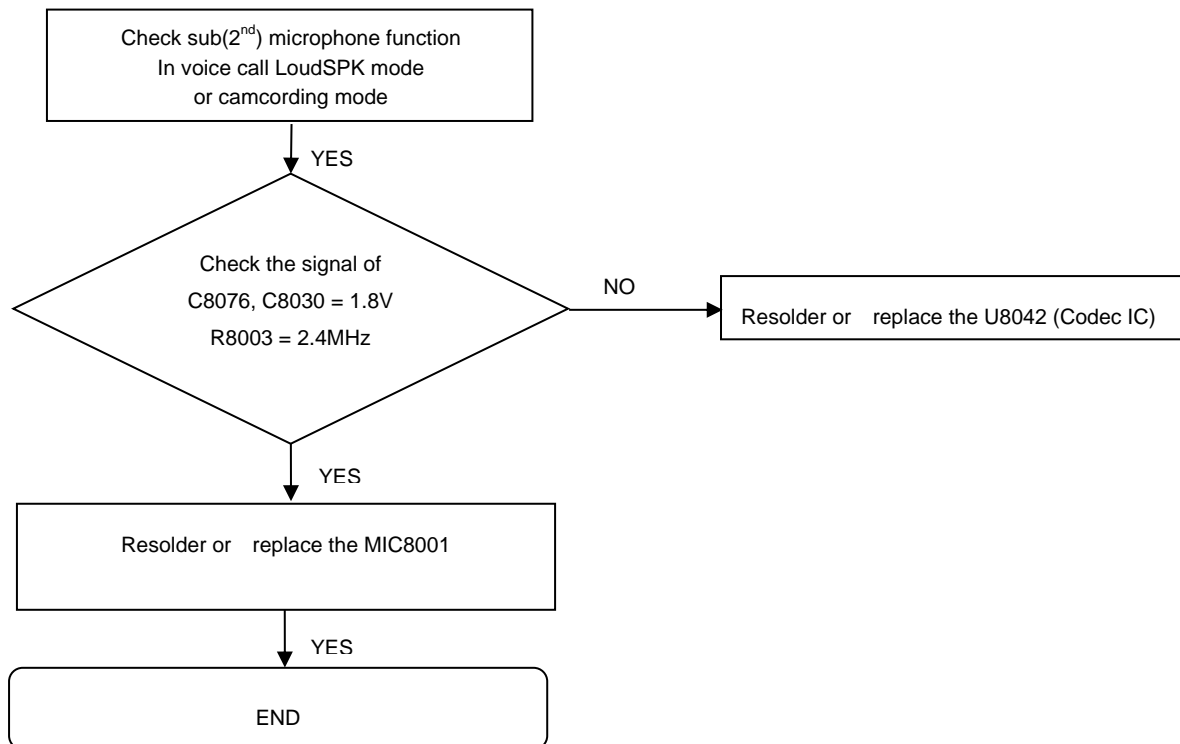
8. Level 3 Repair

8-4-18-1. Main MIC



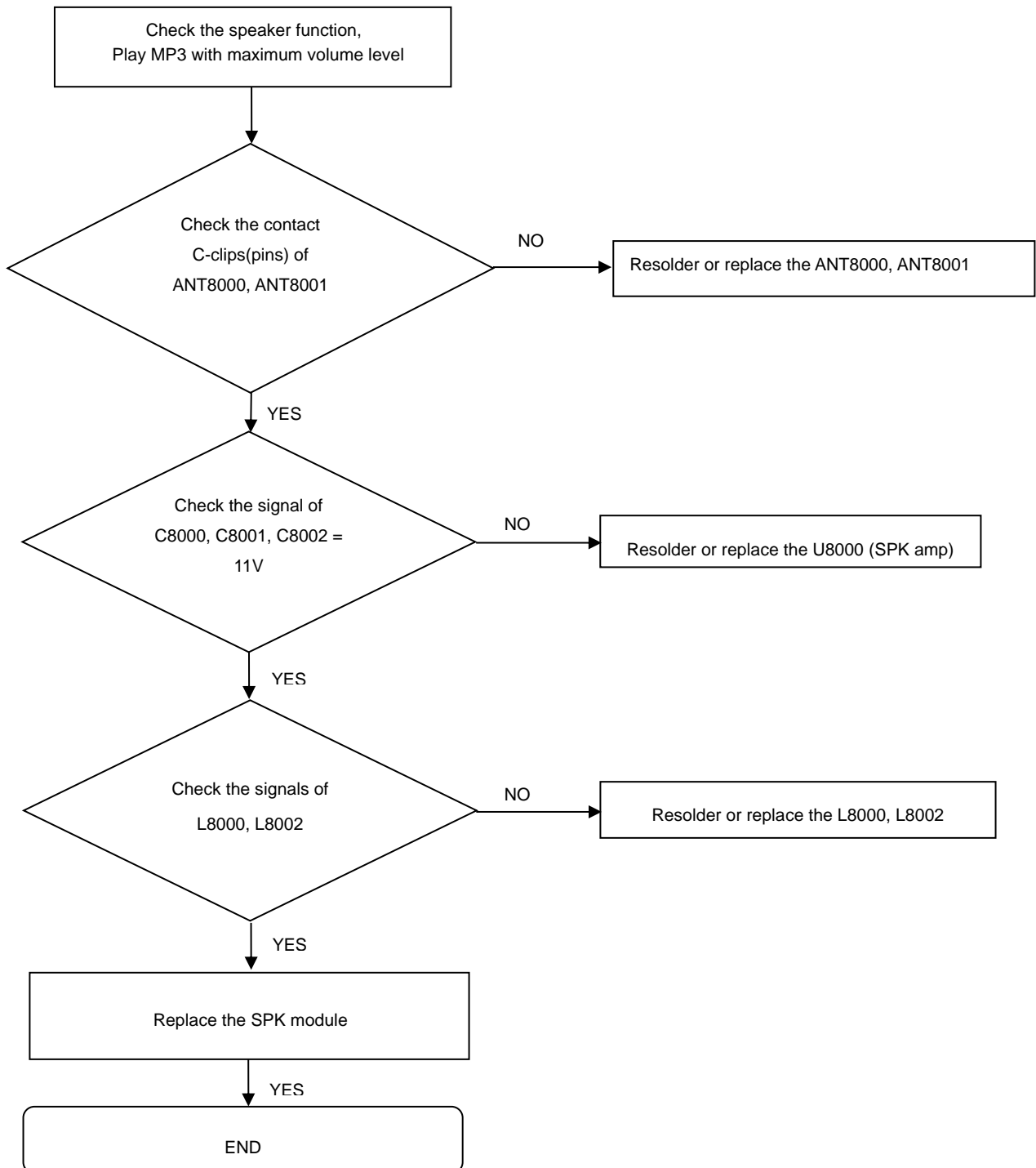
8. Level 3 Repair

8-4-18-2. Sub(2nd) MIC



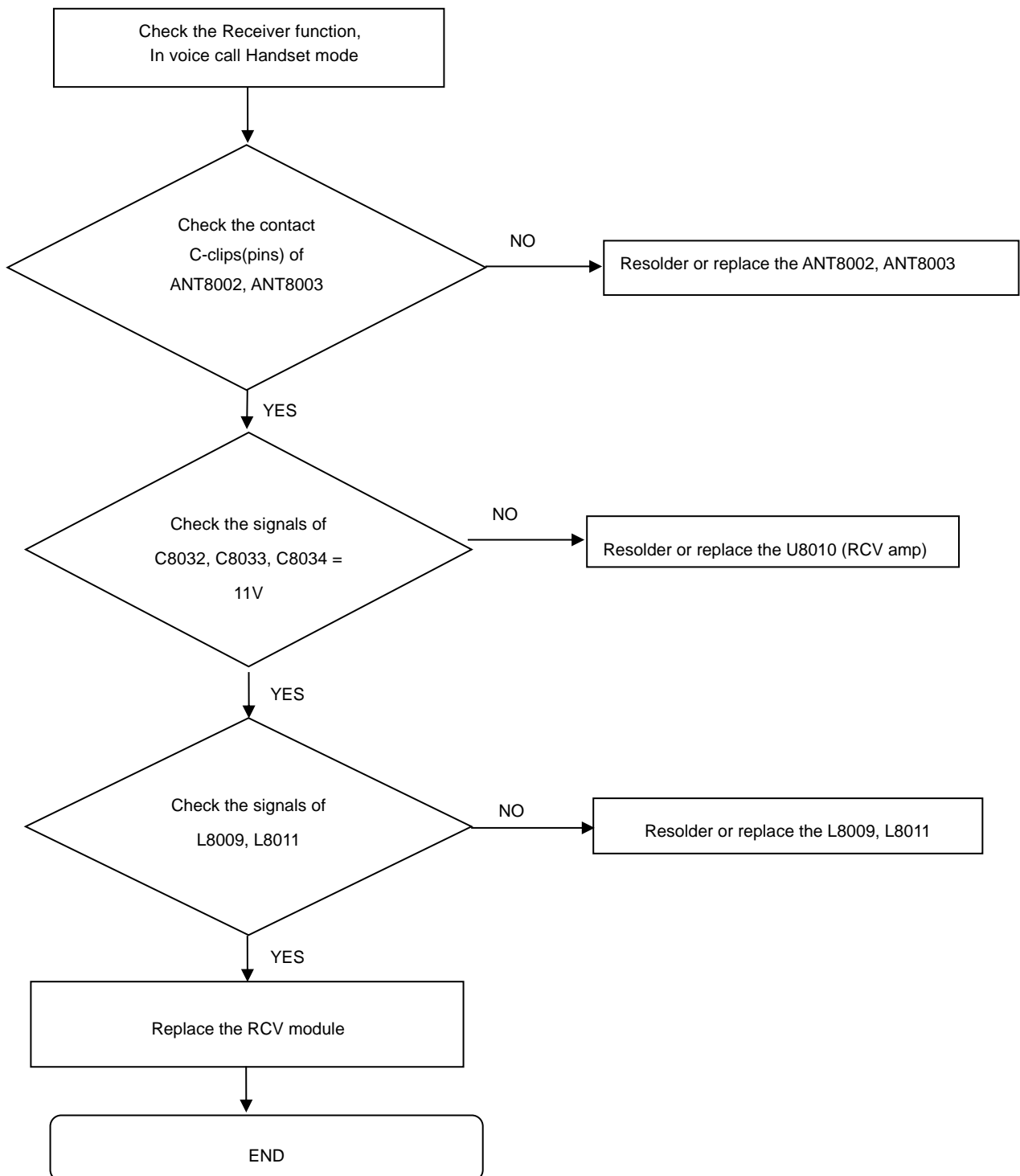
8. Level 3 Repair

8-4-19. Speaker part



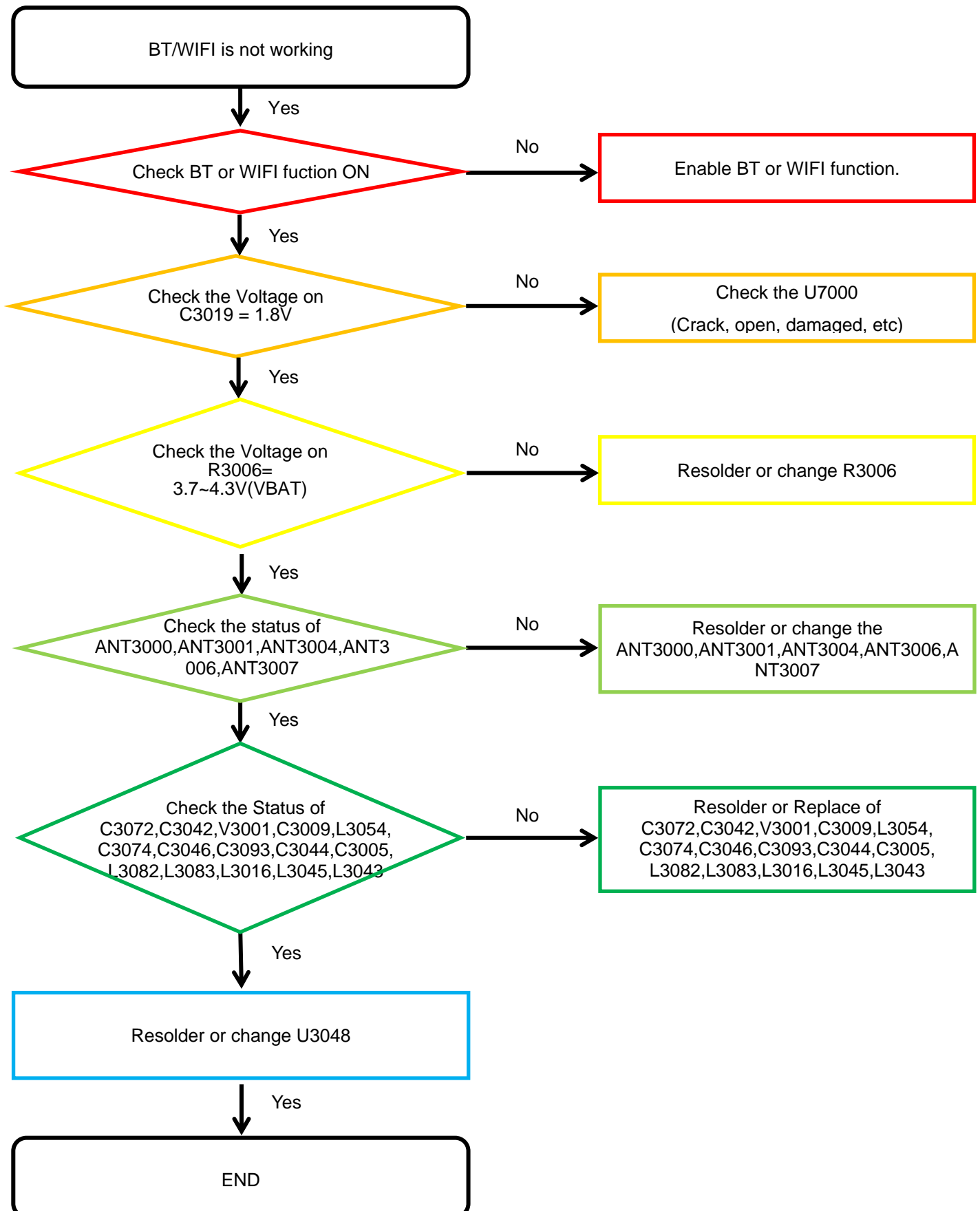
8. Level 3 Repair

8-4-20. Receiver part



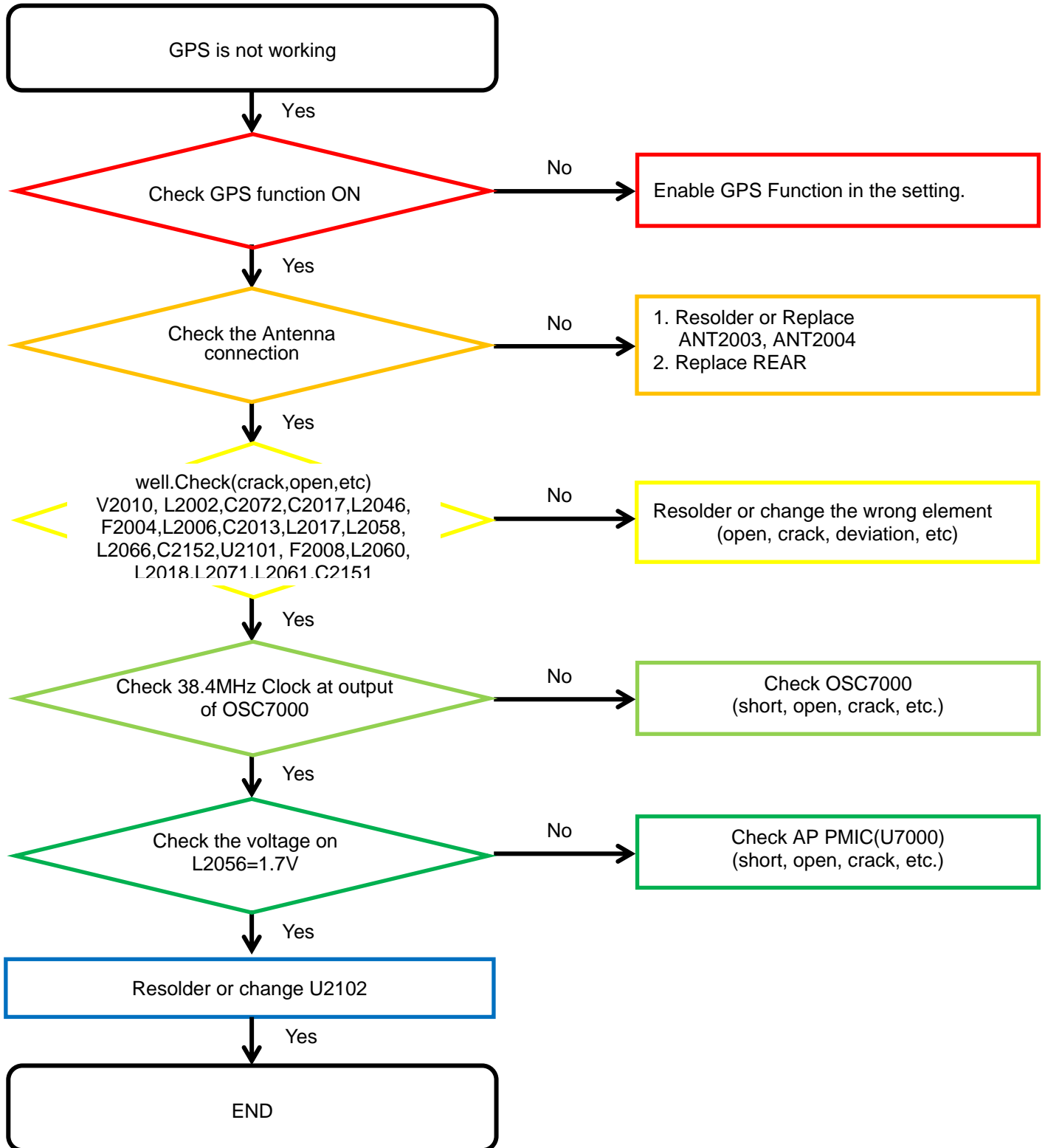
8. Level 3 Repair

8-4-21. BT/WIFI



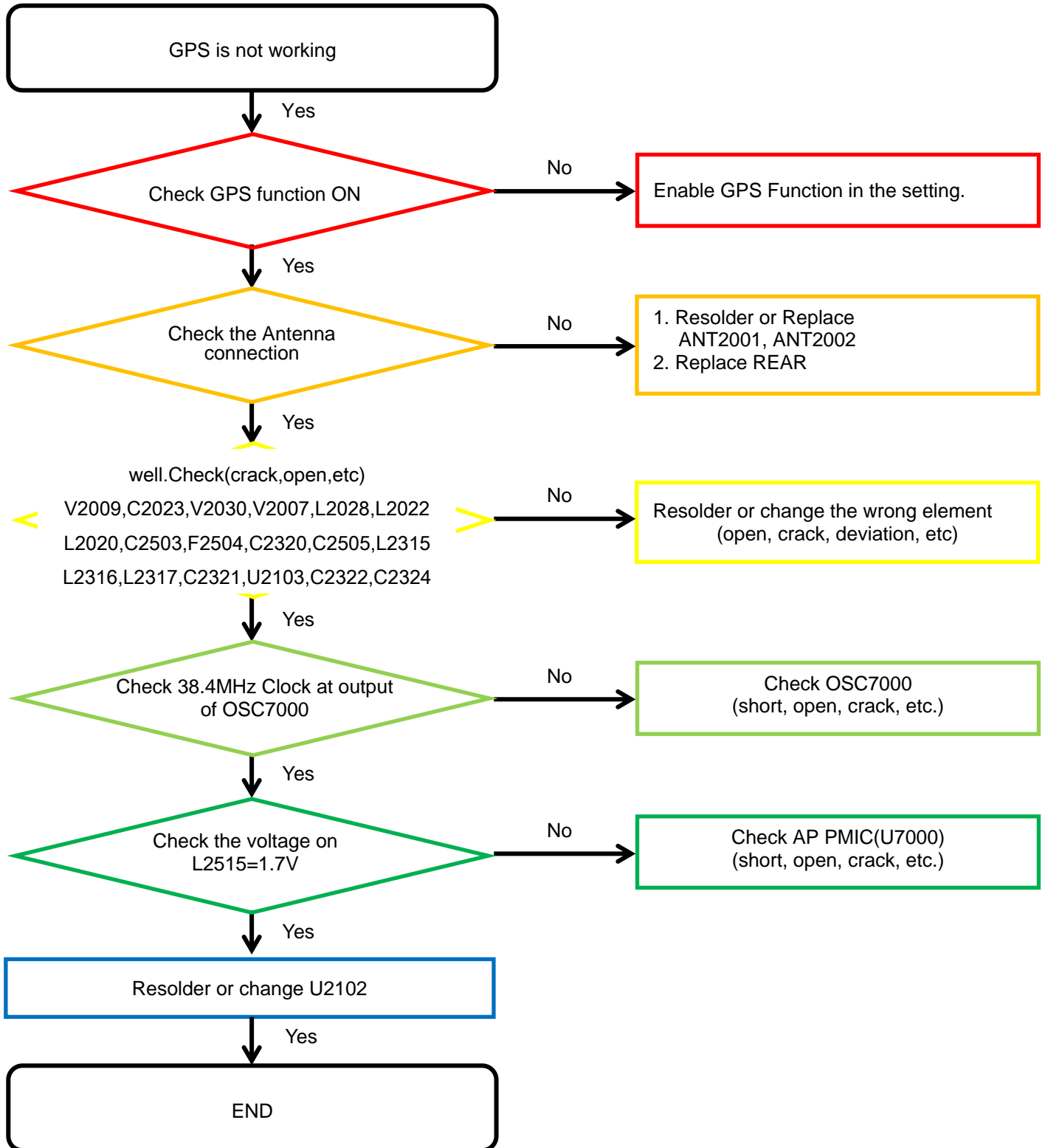
8. Level 3 Repair

8-4-22-1. Main GPS



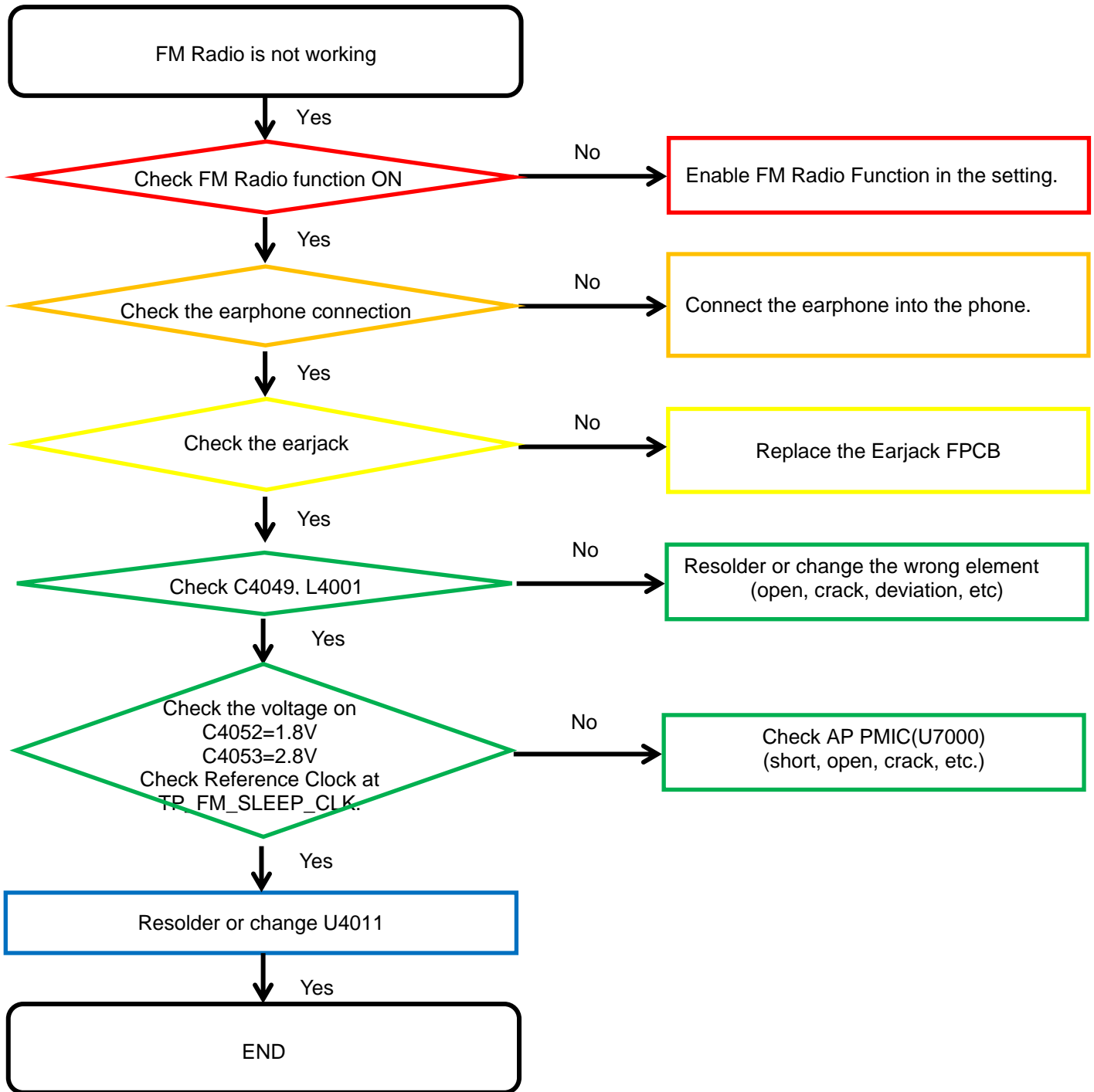
8. Level 3 Repair

8-4-22-2. Sub(2nd) GPS



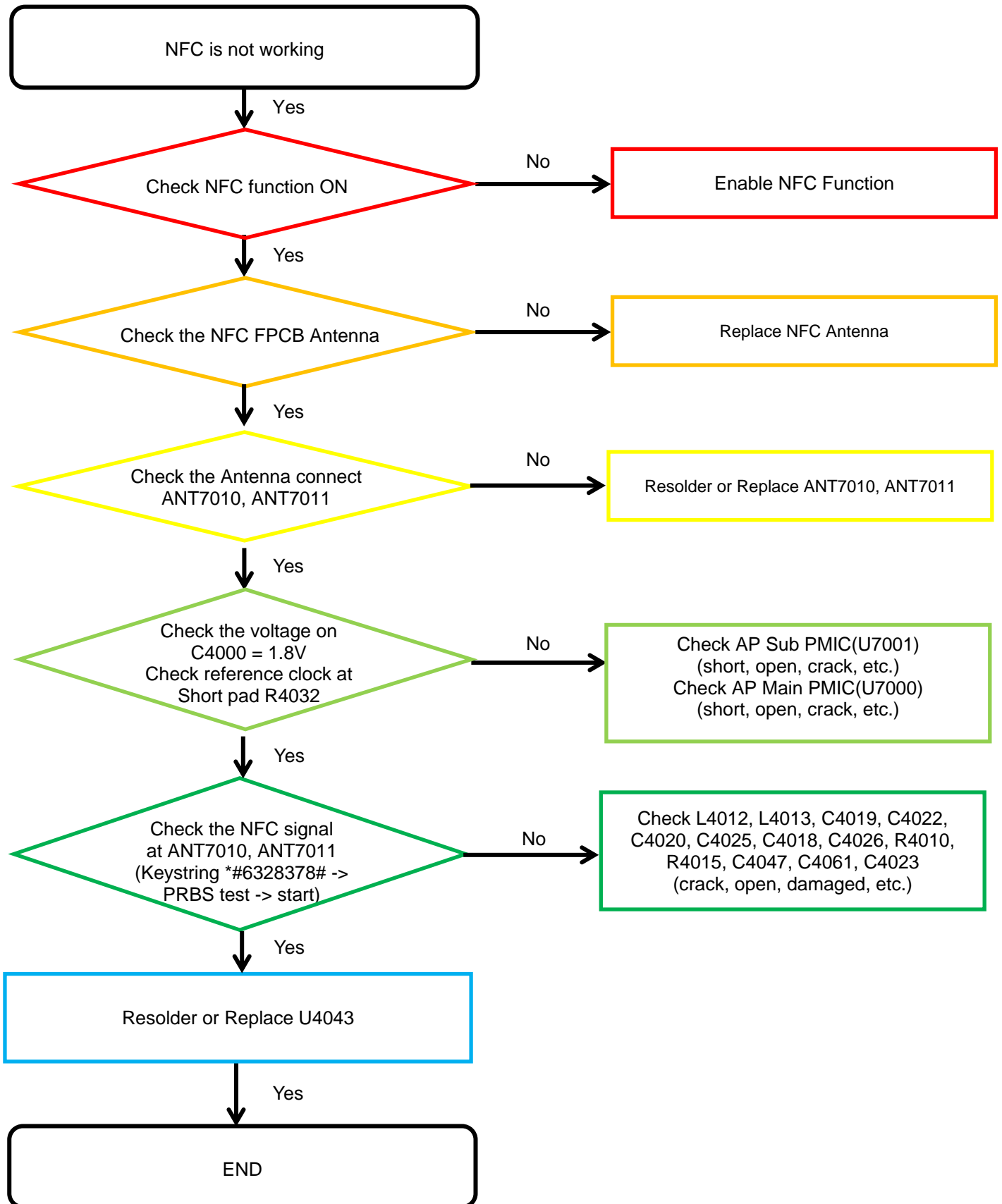
8. Level 3 Repair

8-4-23. FM Radio



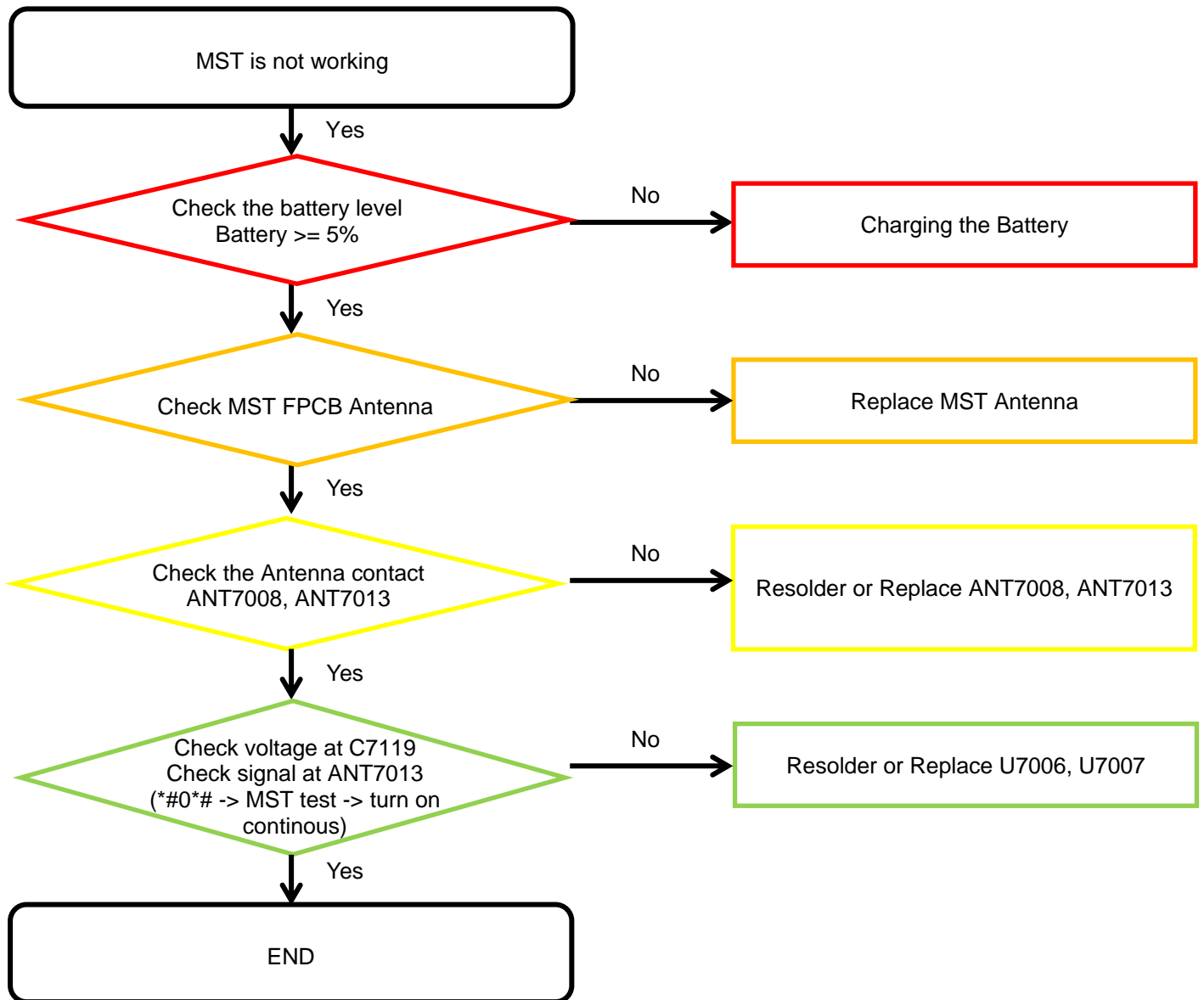
8. Level 3 Repair

8-4-24. NFC



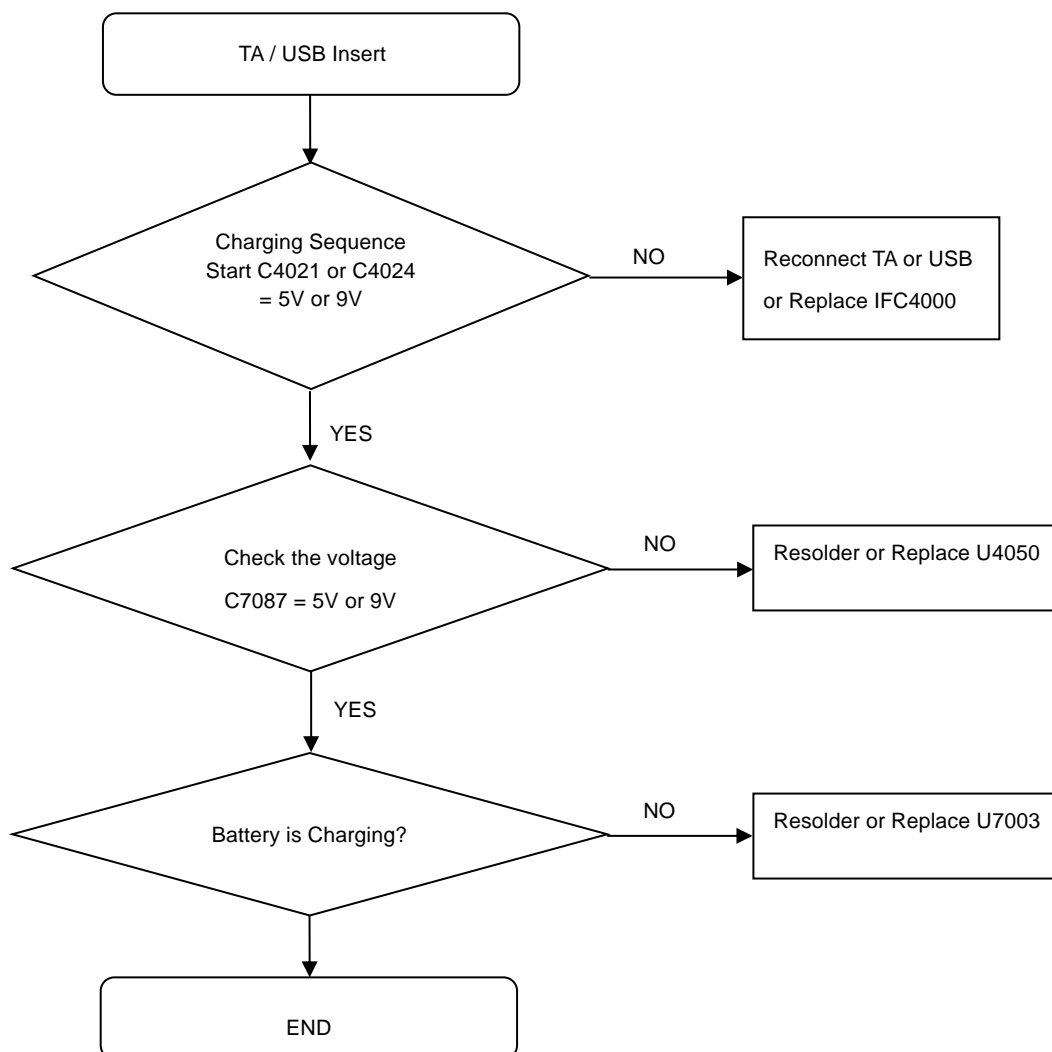
8. Level 3 Repair

8-4-25. MST



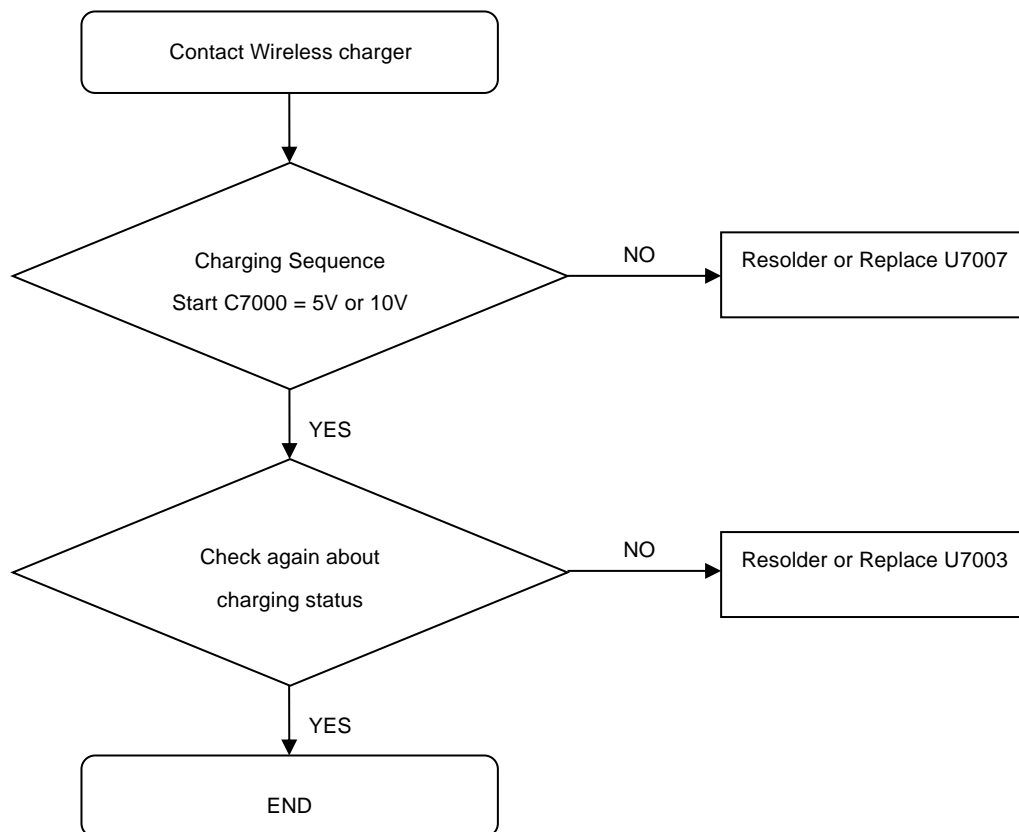
8. Level 3 Repair

8-4-26-1. Charging Part Wire Charging (Normal/Fast)



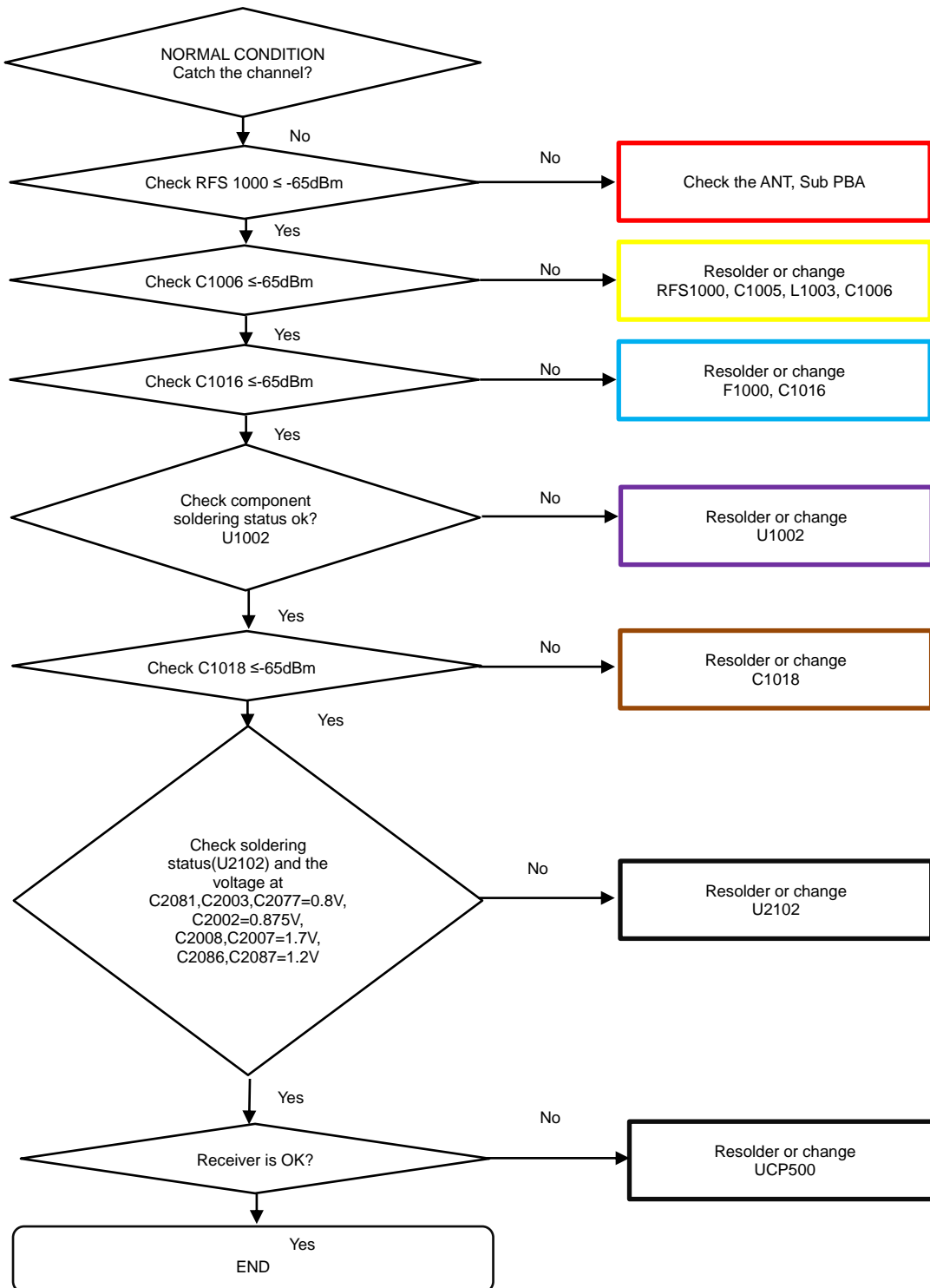
8. Level 3 Repair

8-4-26-2. Charging Part Wireless Charging (Normal/Fast)



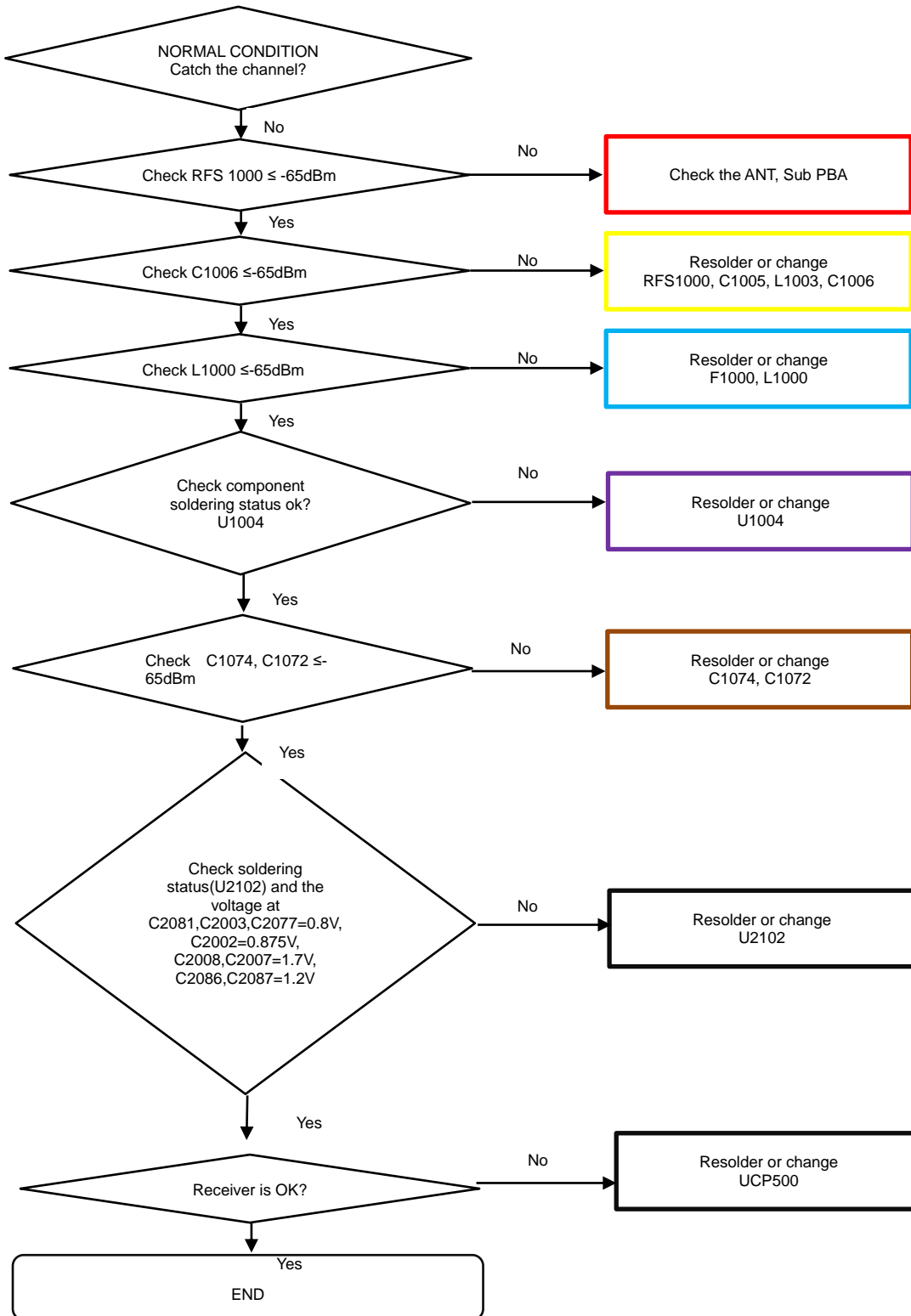
8. Level 3 Repair

8-4-27. GSM 850/900, CDMA BC0, WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 RX



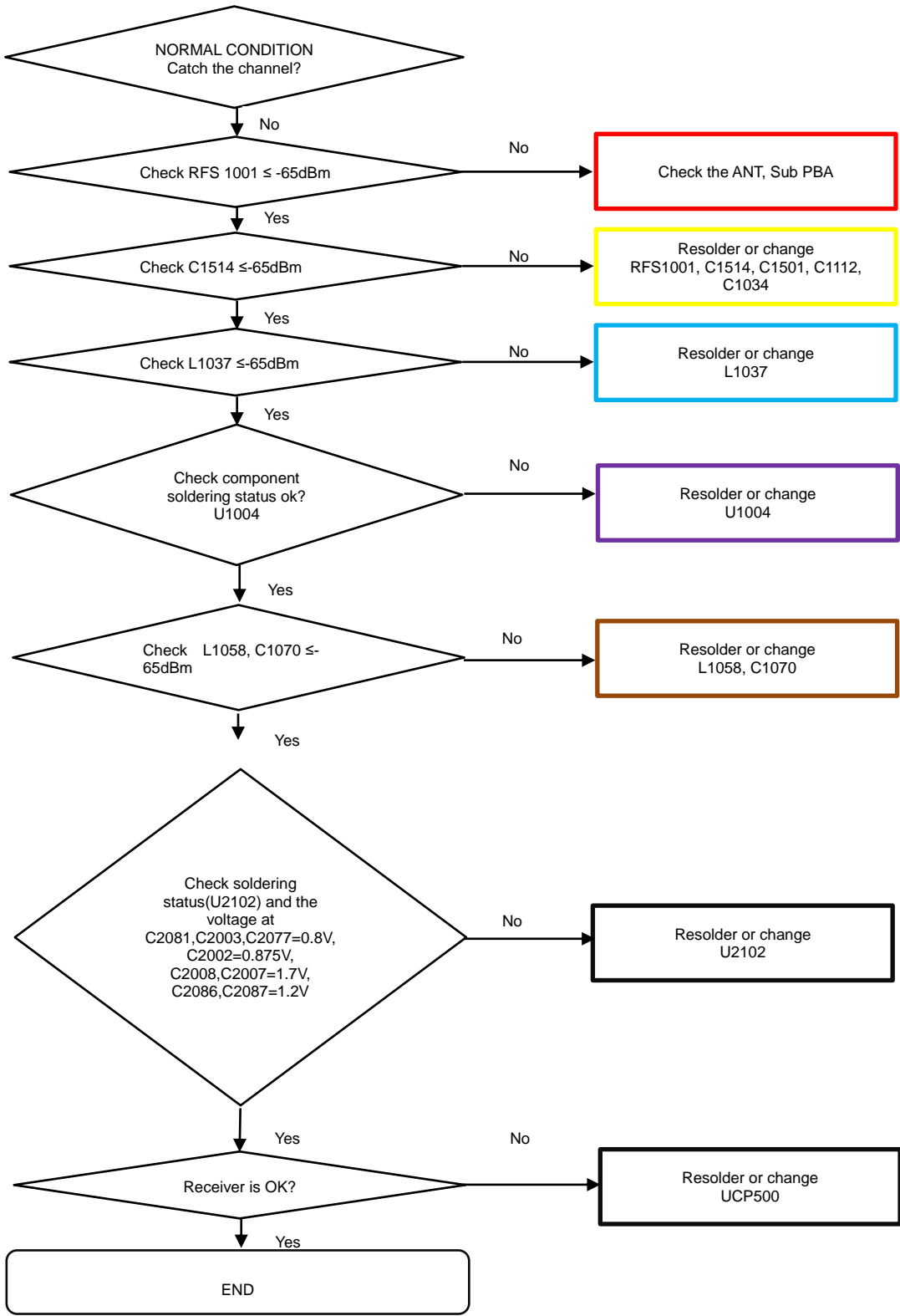
8. Level 3 Repair

8-4-28. GSM 1800/1900, WCDMA B1/2, TDSCDMA B34/39, LTE B1/2/3/4/25/34/39 RX



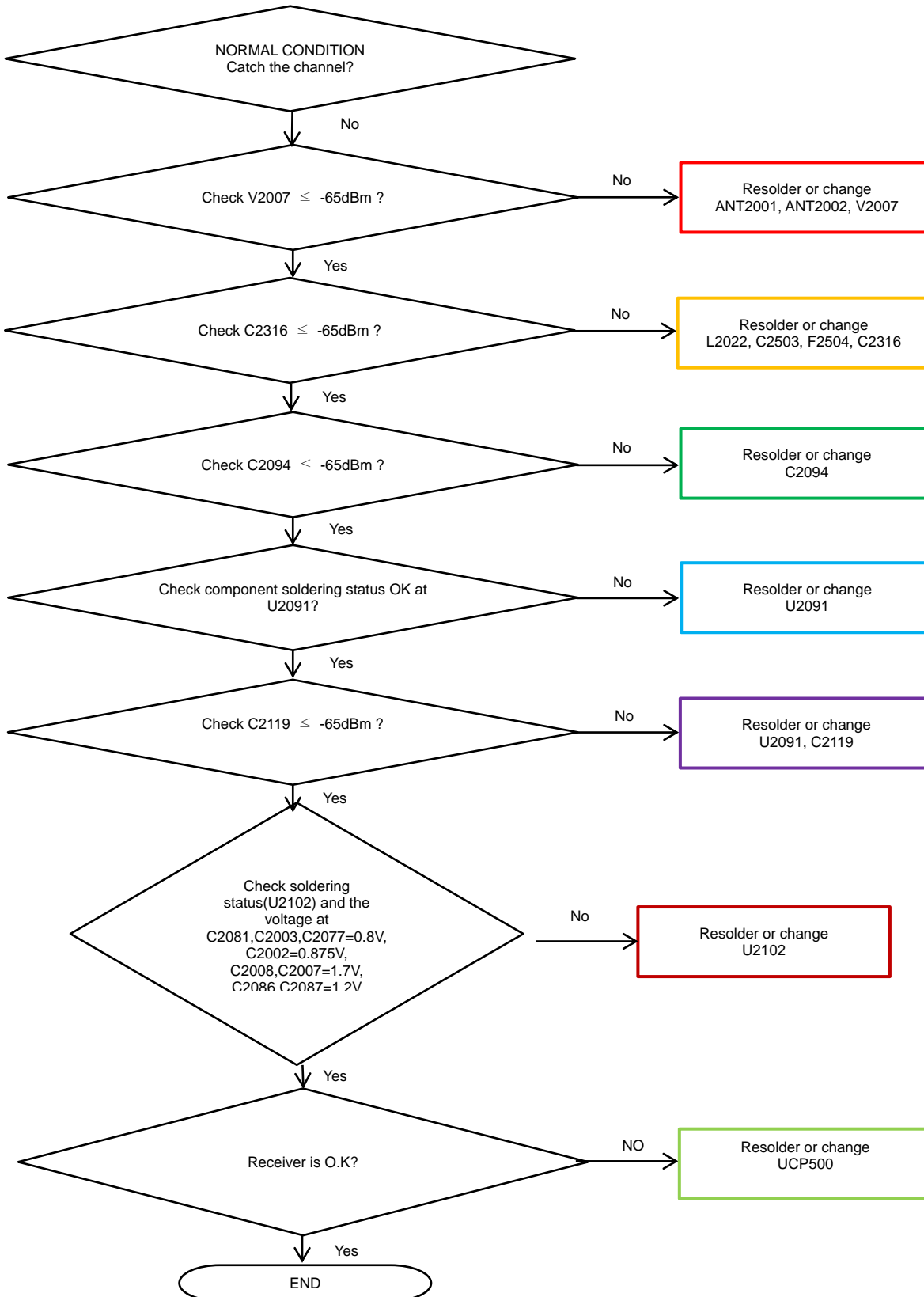
8. Level 3 Repair

8-4-29. LTE B7/38/41 RX



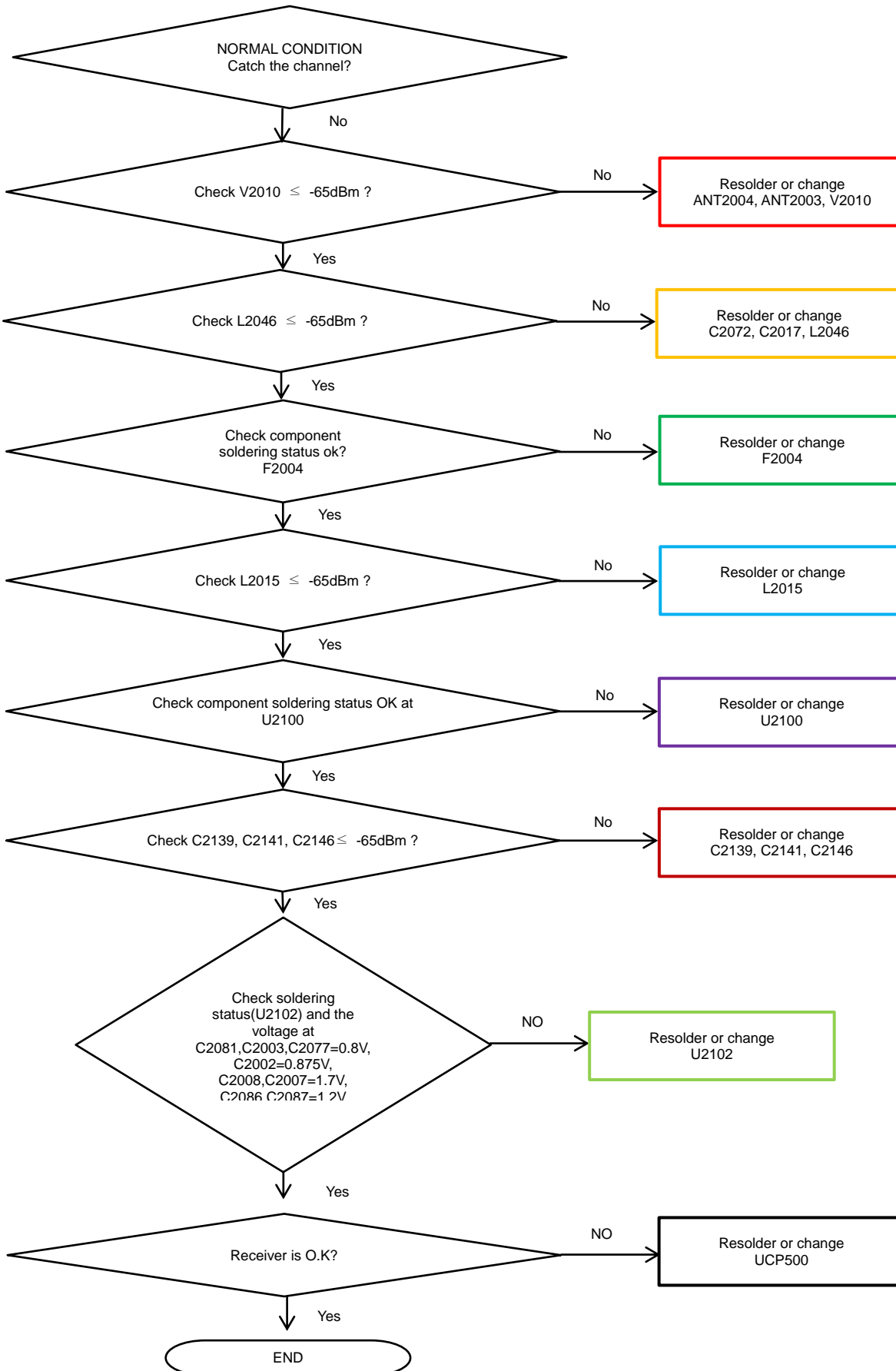
8. Level 3 Repair

8-4-30. CDMA BC0, GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/18/19/20/26/28 DRX



8. Level 3 Repair

8-4-31. GSM1800/1900, WCDMA 1/2, LTE B1/2/3/4/7/25/38/40 DRX

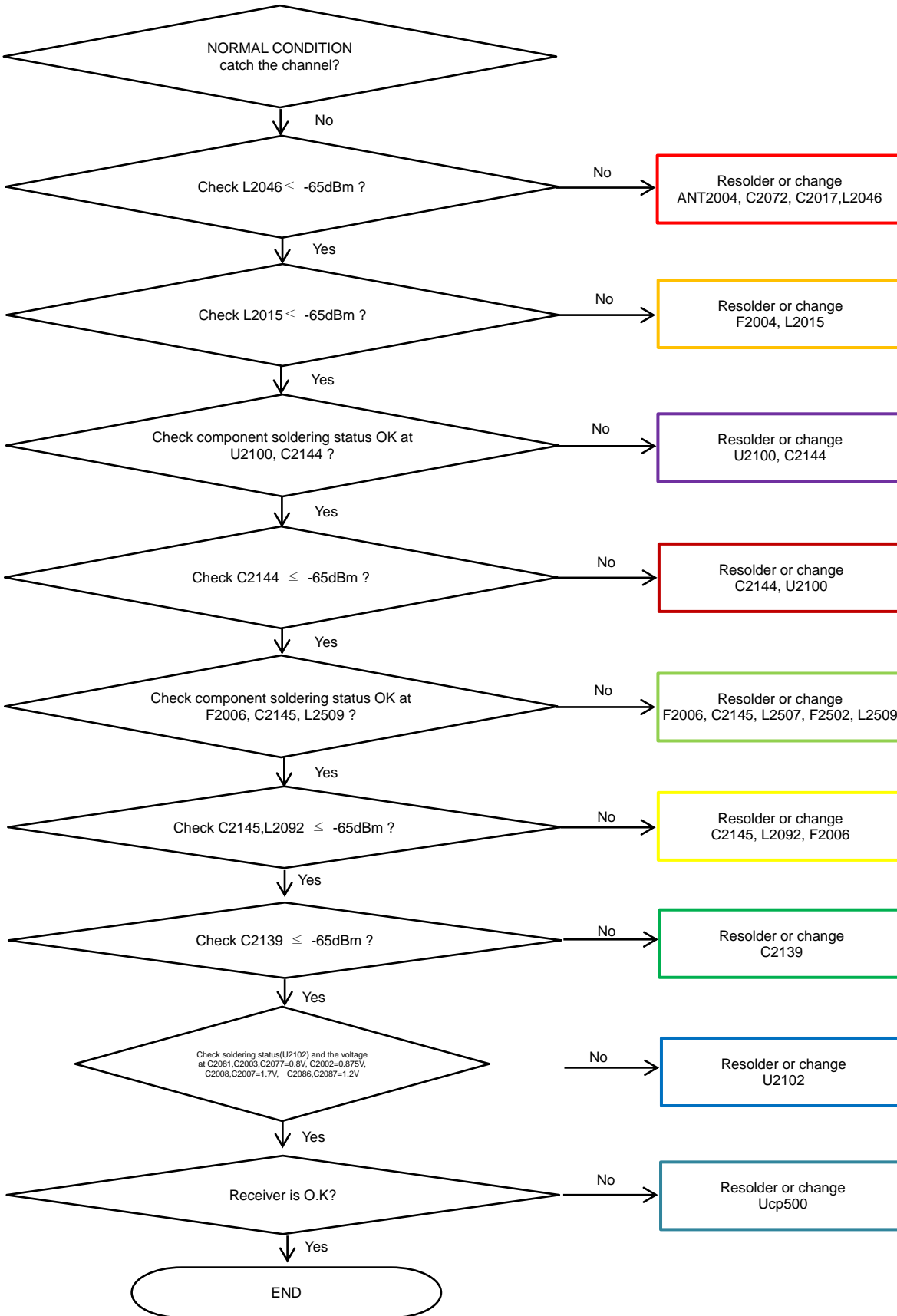


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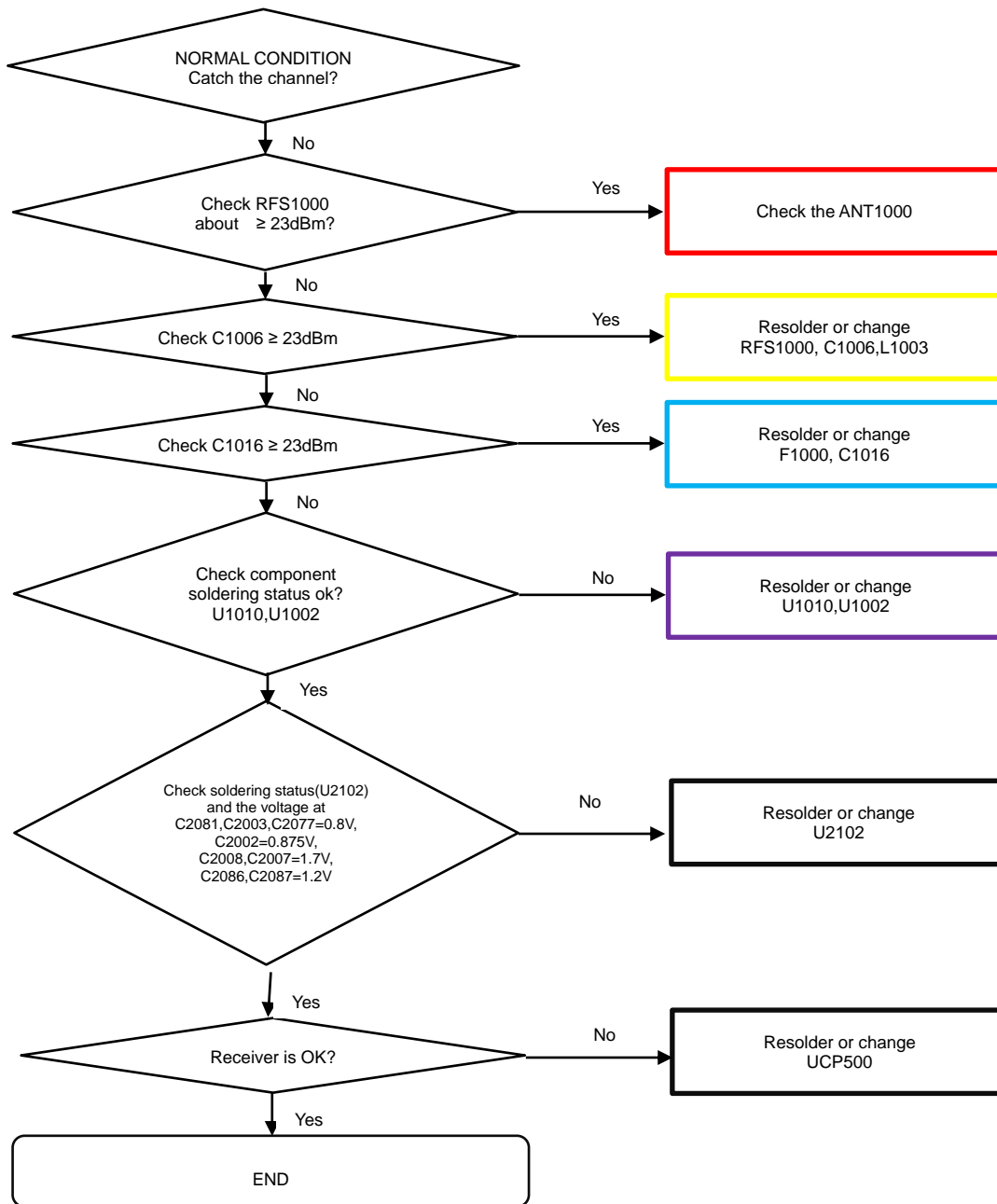
8. Level 3 Repair

8-3-32. LTE 34/39/41 TDSCDMA 34/39 DRX



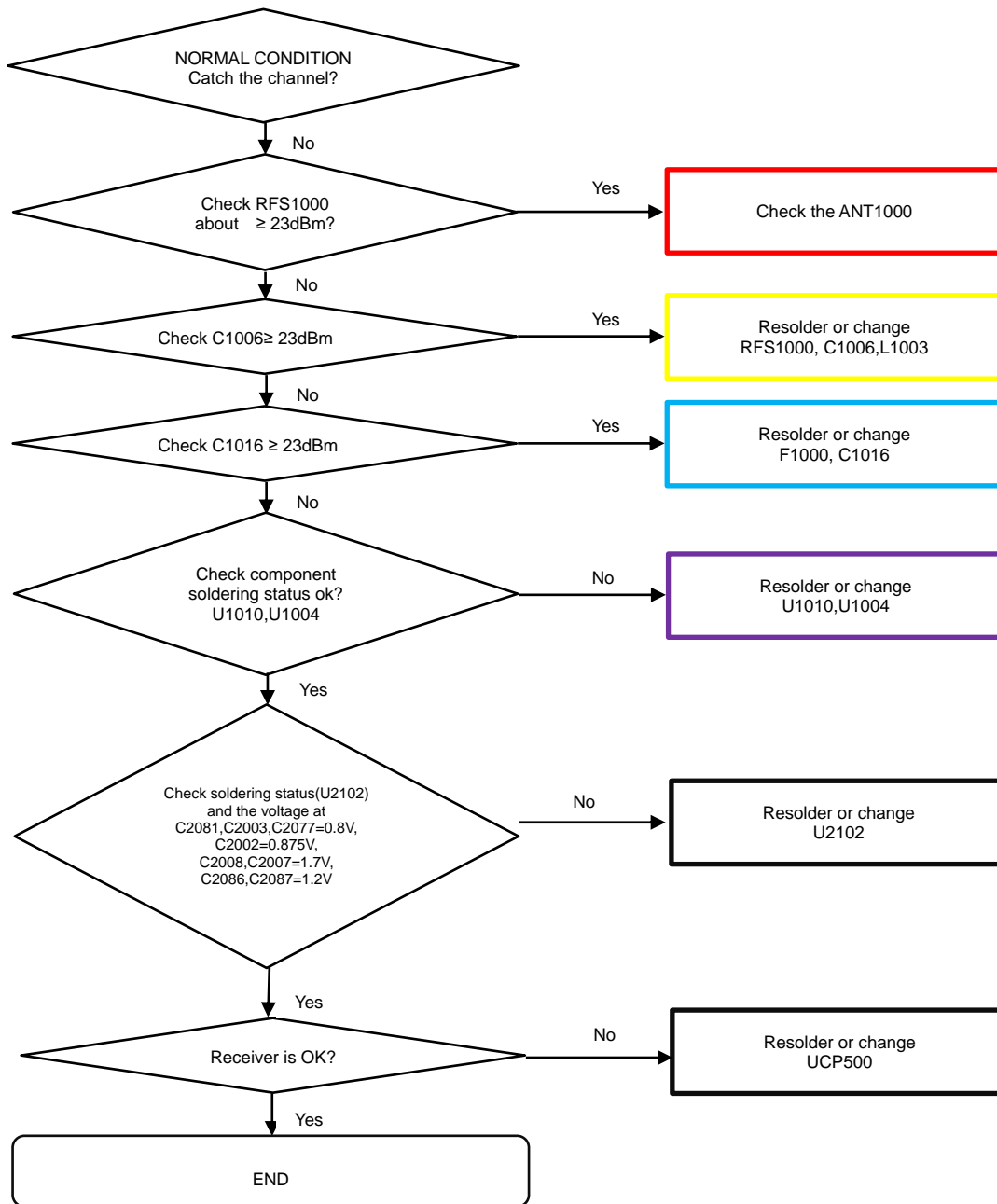
8. Level 3 Repair

8-4-33. GSM 850/900 TX



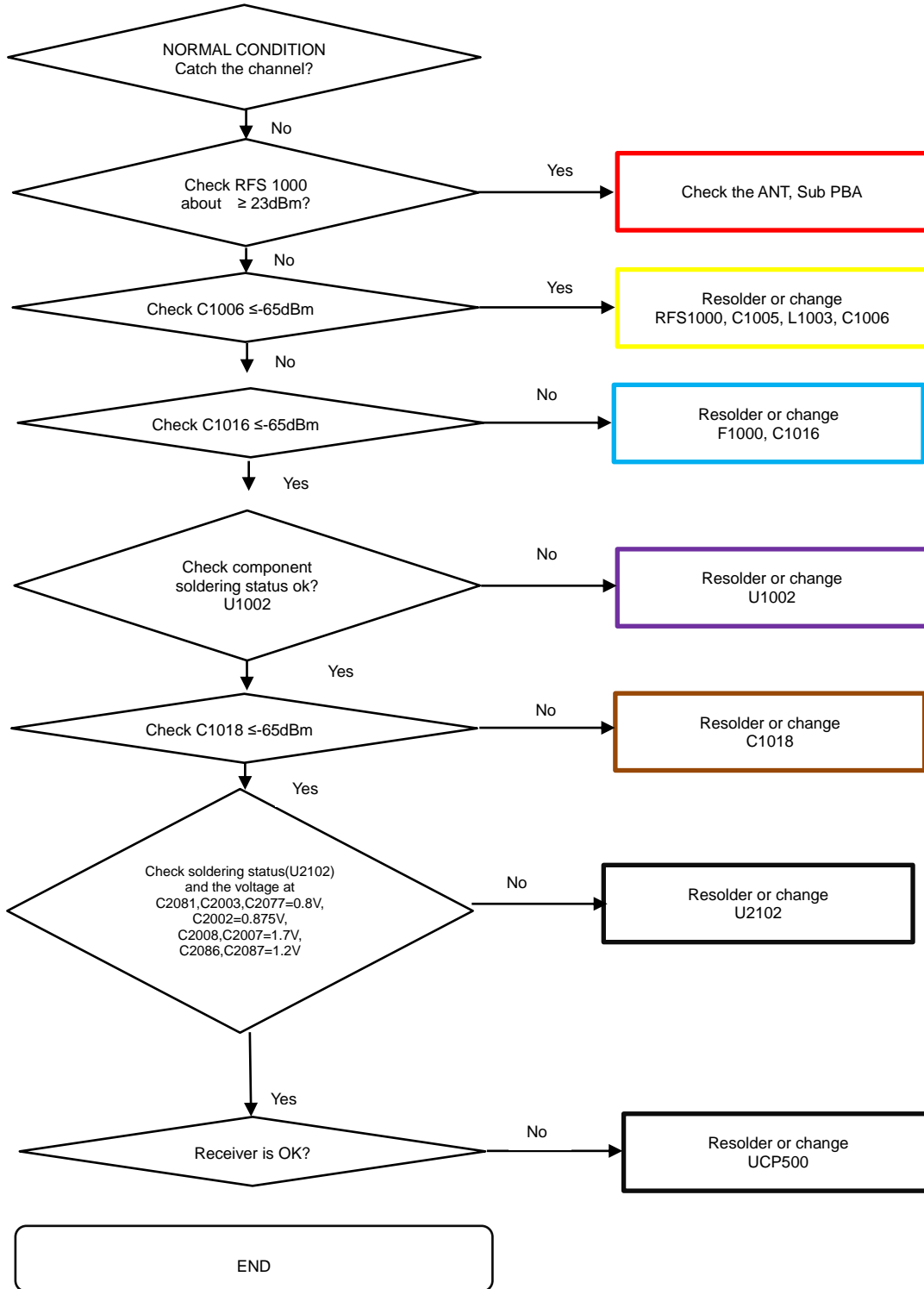
8. Level 3 Repair

8-4-34. GSM 1800/1900 TX



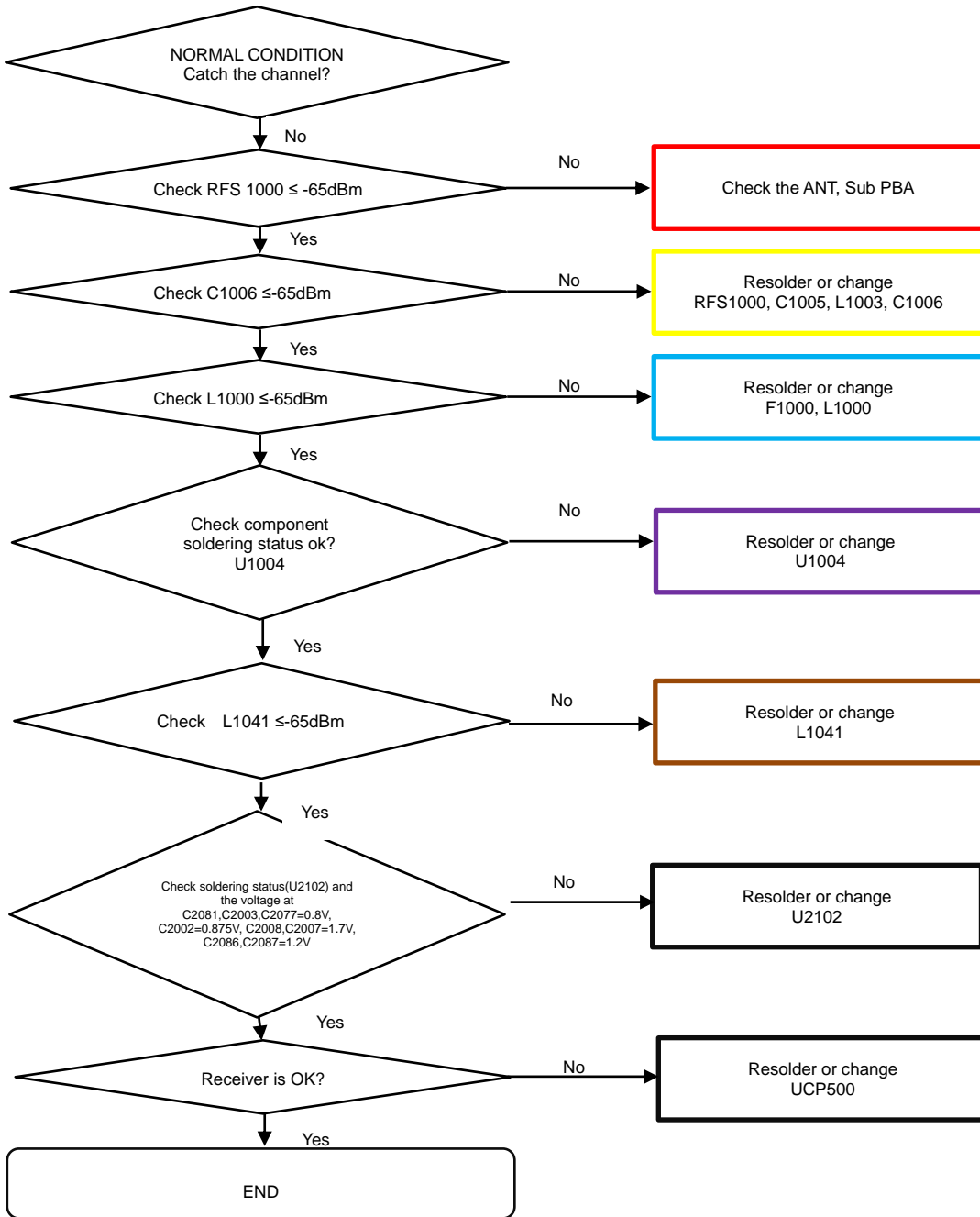
8. Level 3 Repair

8-4-35. CDMA BC0, WCDMA B5/8, LTE B5/8/12/13/17/18/19/ 20/26/28 TX



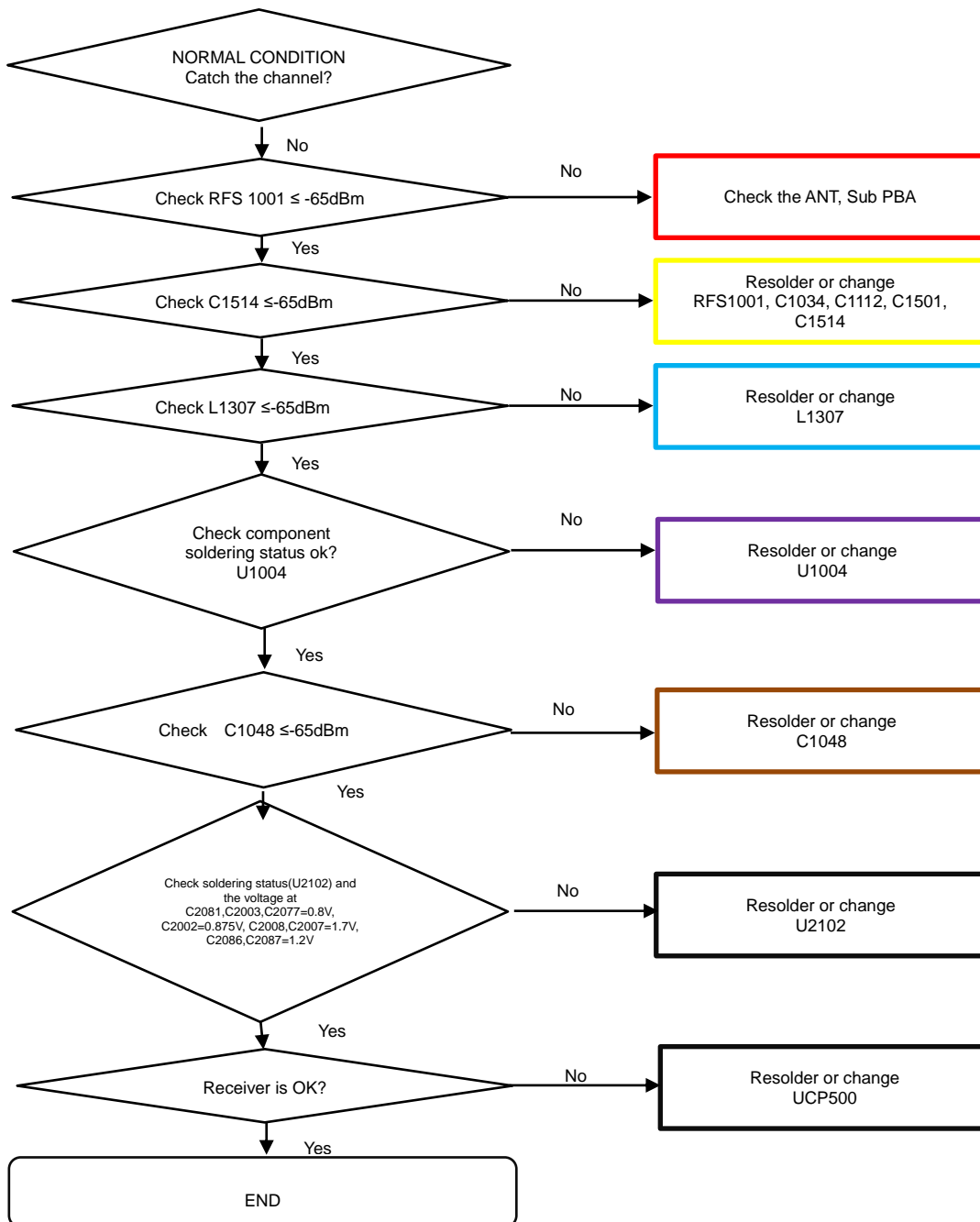
8. Level 3 Repair

8-4-36. GSM 1800/1900, WCDMA B1/2, TDSCDMA B34/39, LTE B1/2/3/4/25/34/39 TX



8. Level 3 Repair

8-4-37. LTE B7/38/41 TX



8. Level 3 Repair

8-4-38. Dex Station

