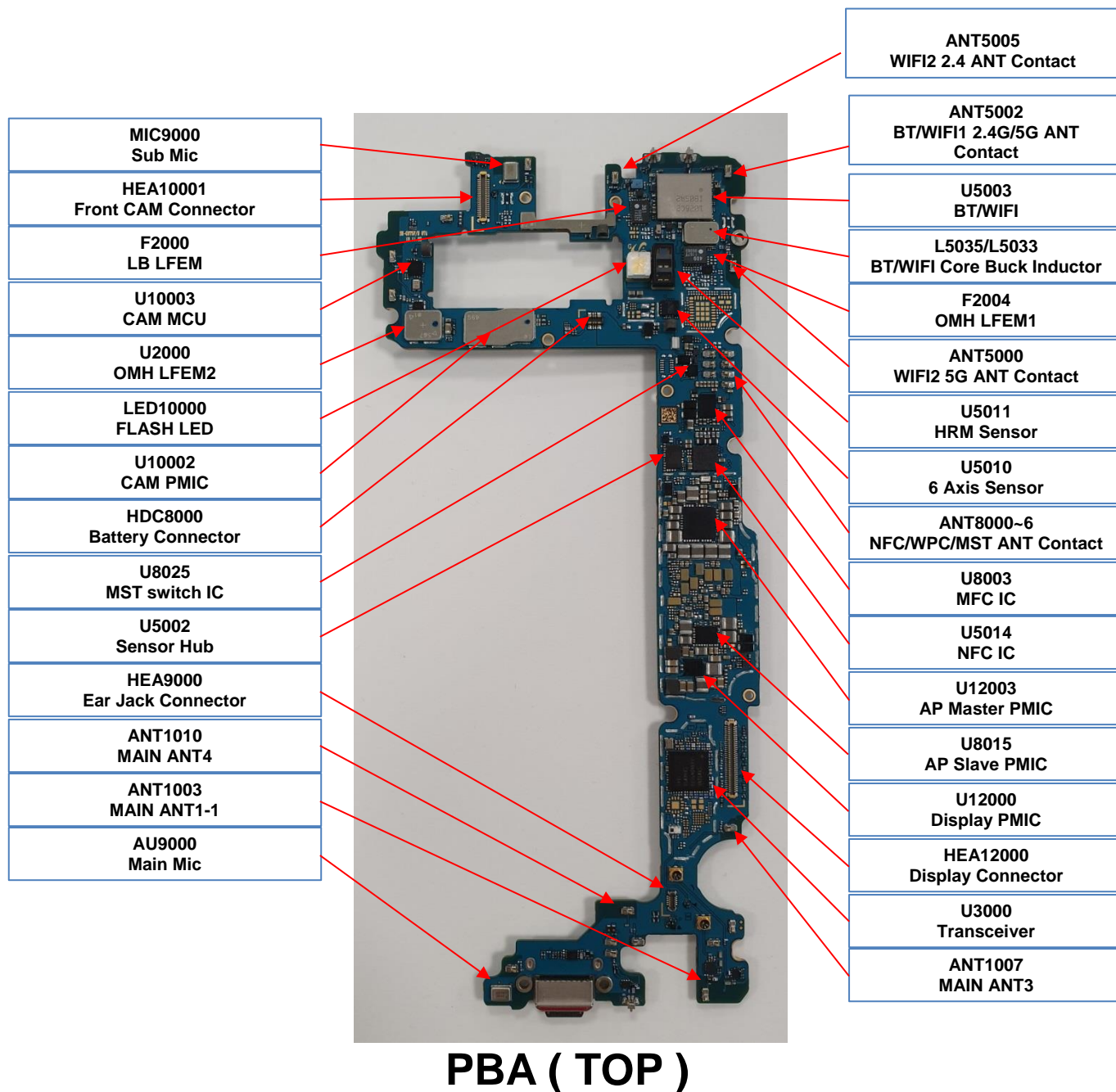
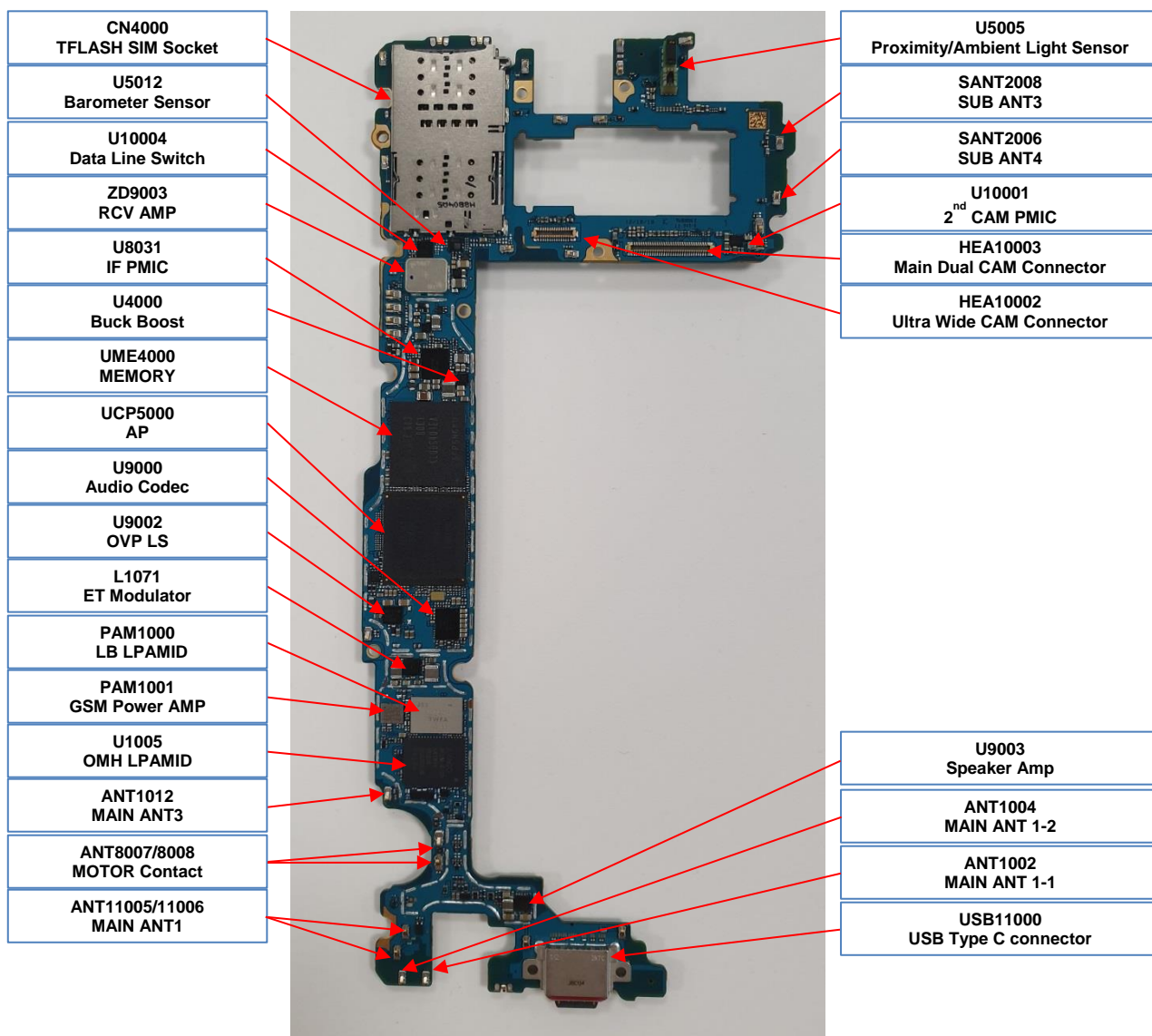


8. Level 3 Repair

8-1. Components Layout



8. Level 3 Repair

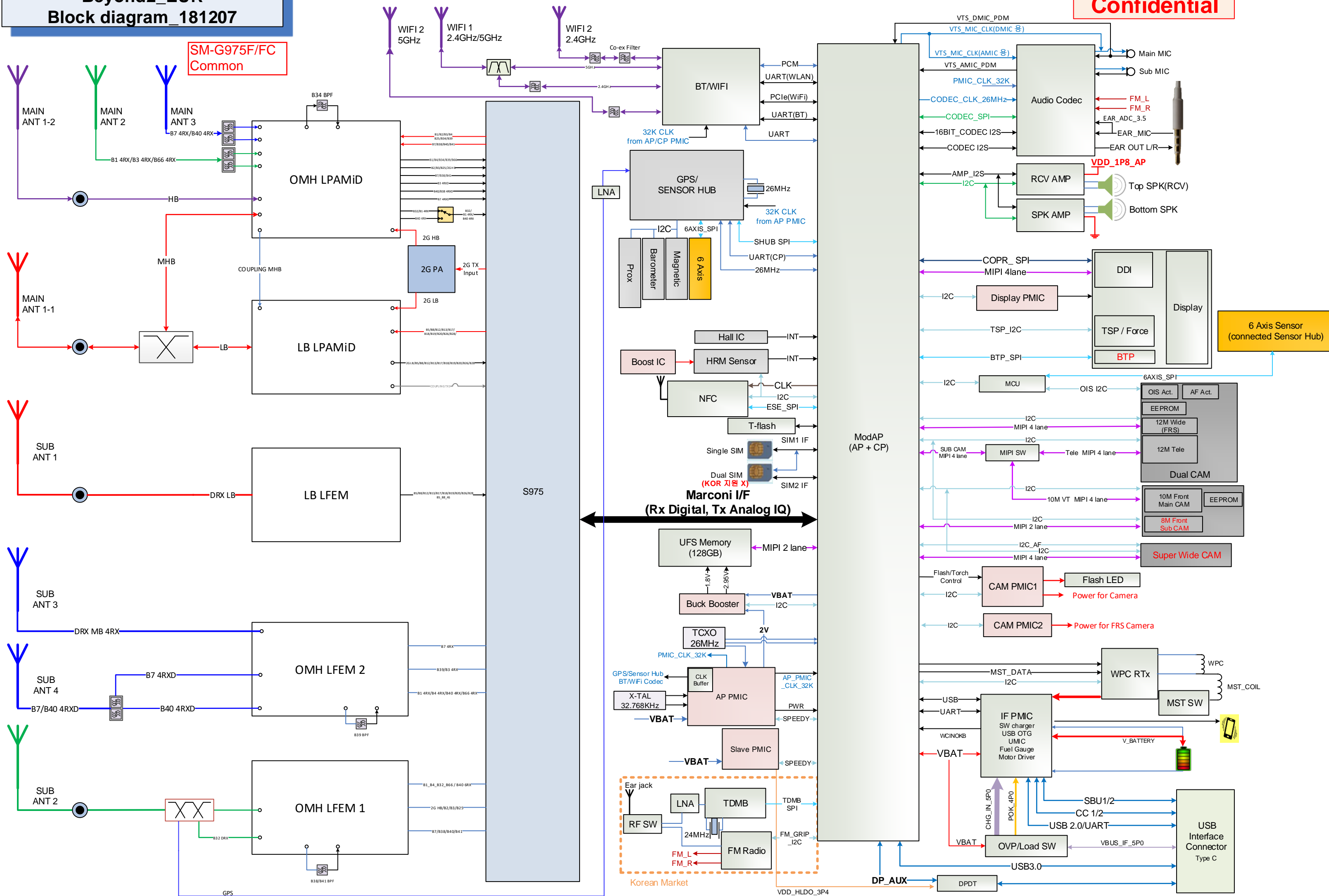


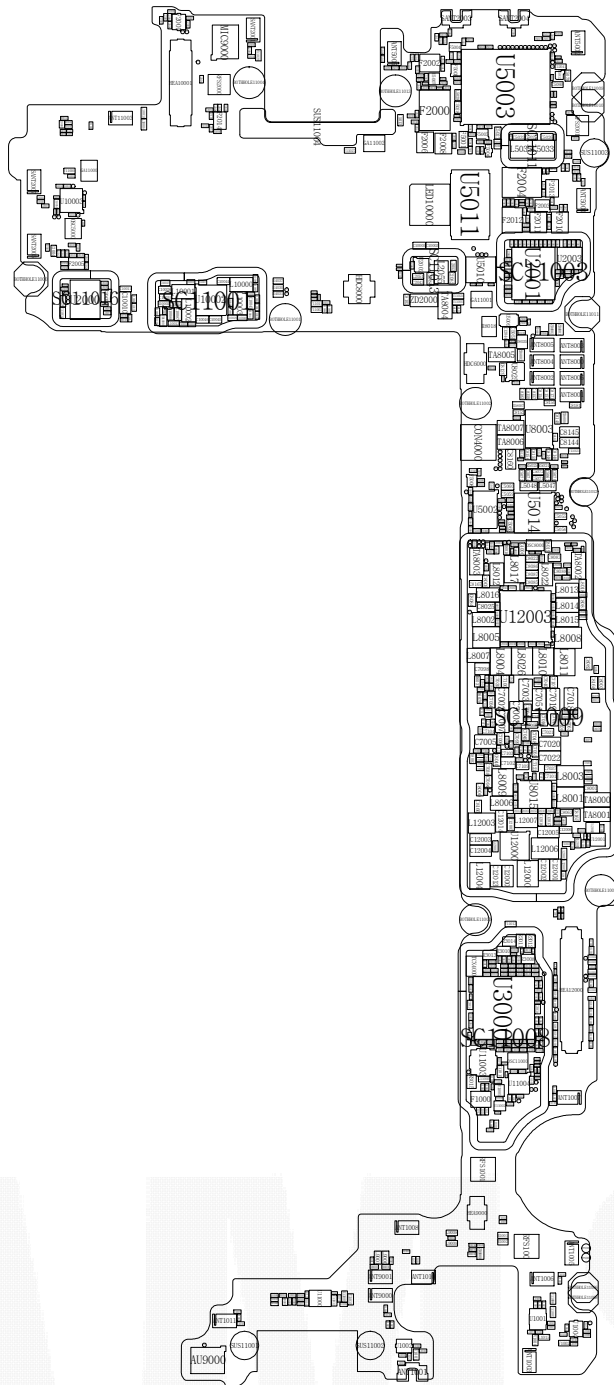
PBA (Bottom)

Beyond2_EUR
Block diagram_181207

SM-G975F/FC
Common

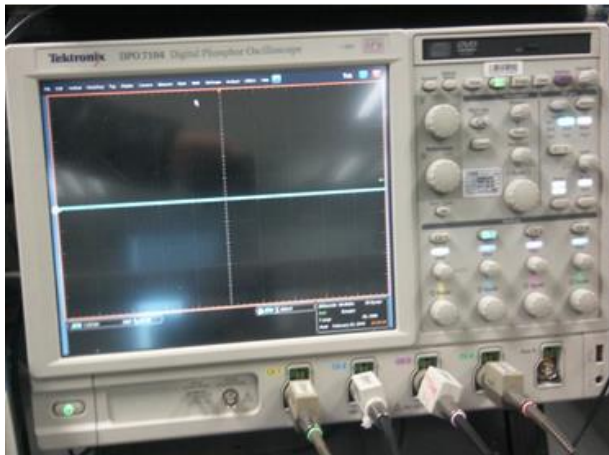
Confidential





8. Level 3 Repair

8-3. Flow chart of Troubleshooting.



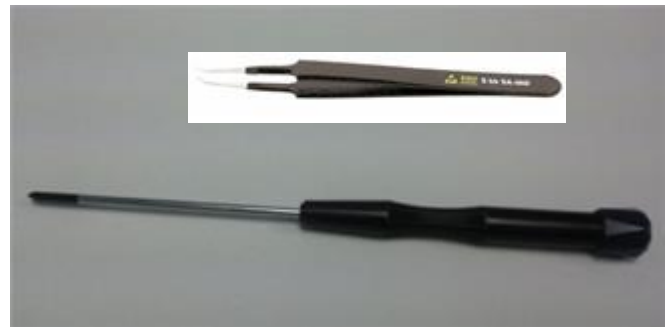
Oscilloscope



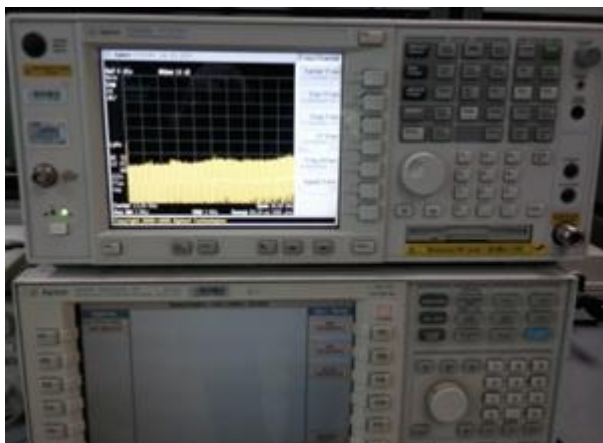
Digital Multimeter



Power Supply



+ driver, ESD Safe Tweezer



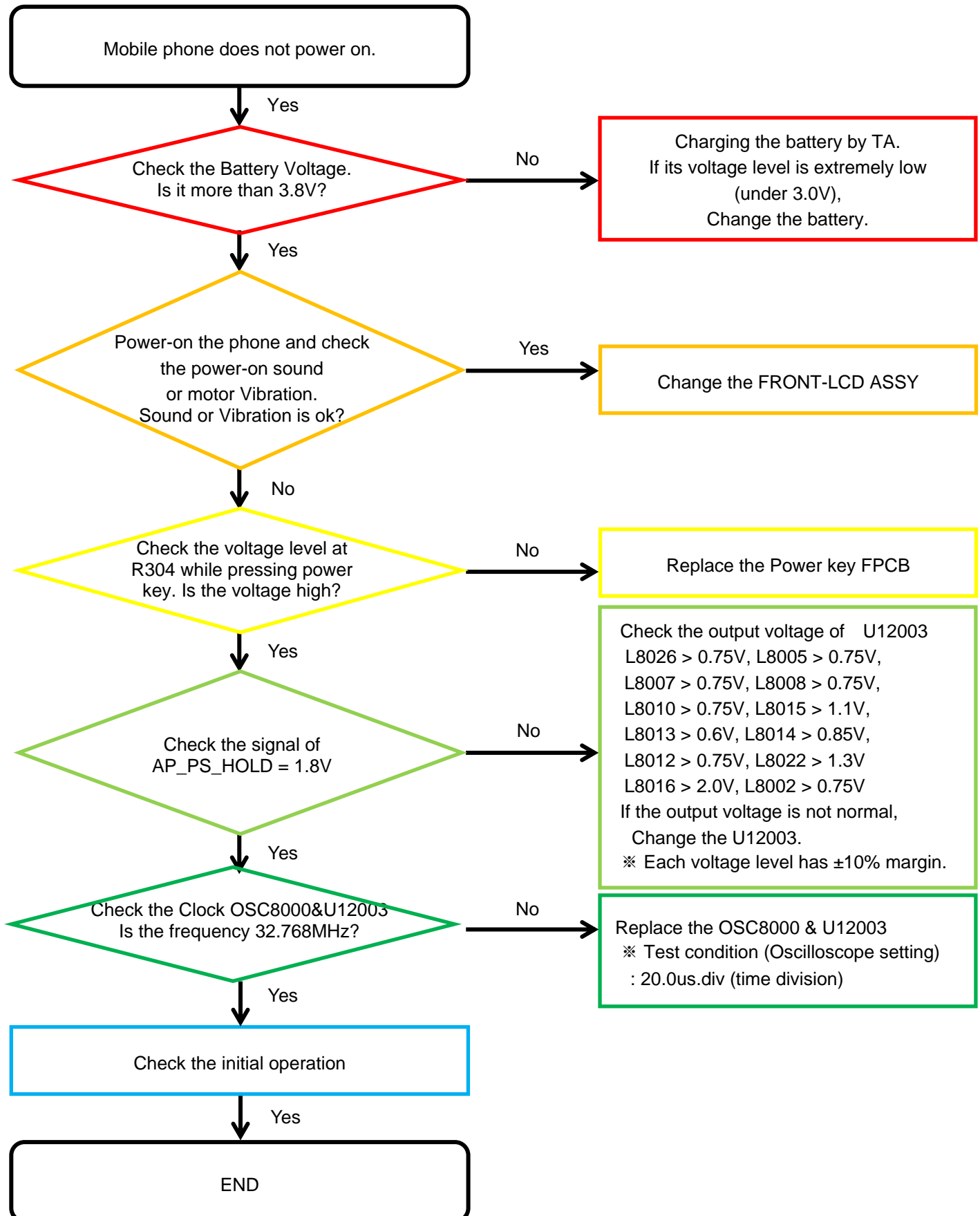
8960 & Spectrum Analyzer



Soldering iron

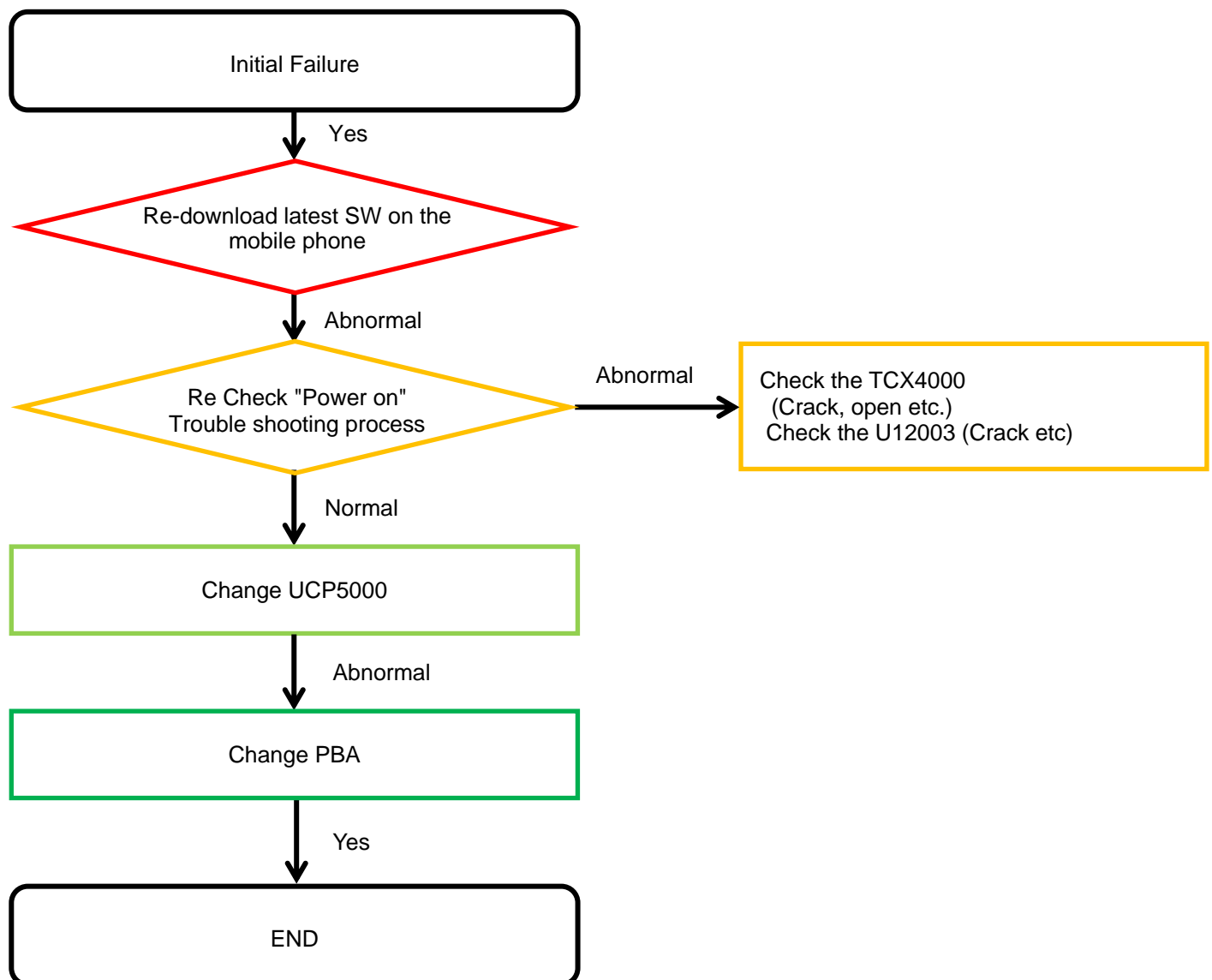
8. Level 3 Repair

8-4-1. Power On



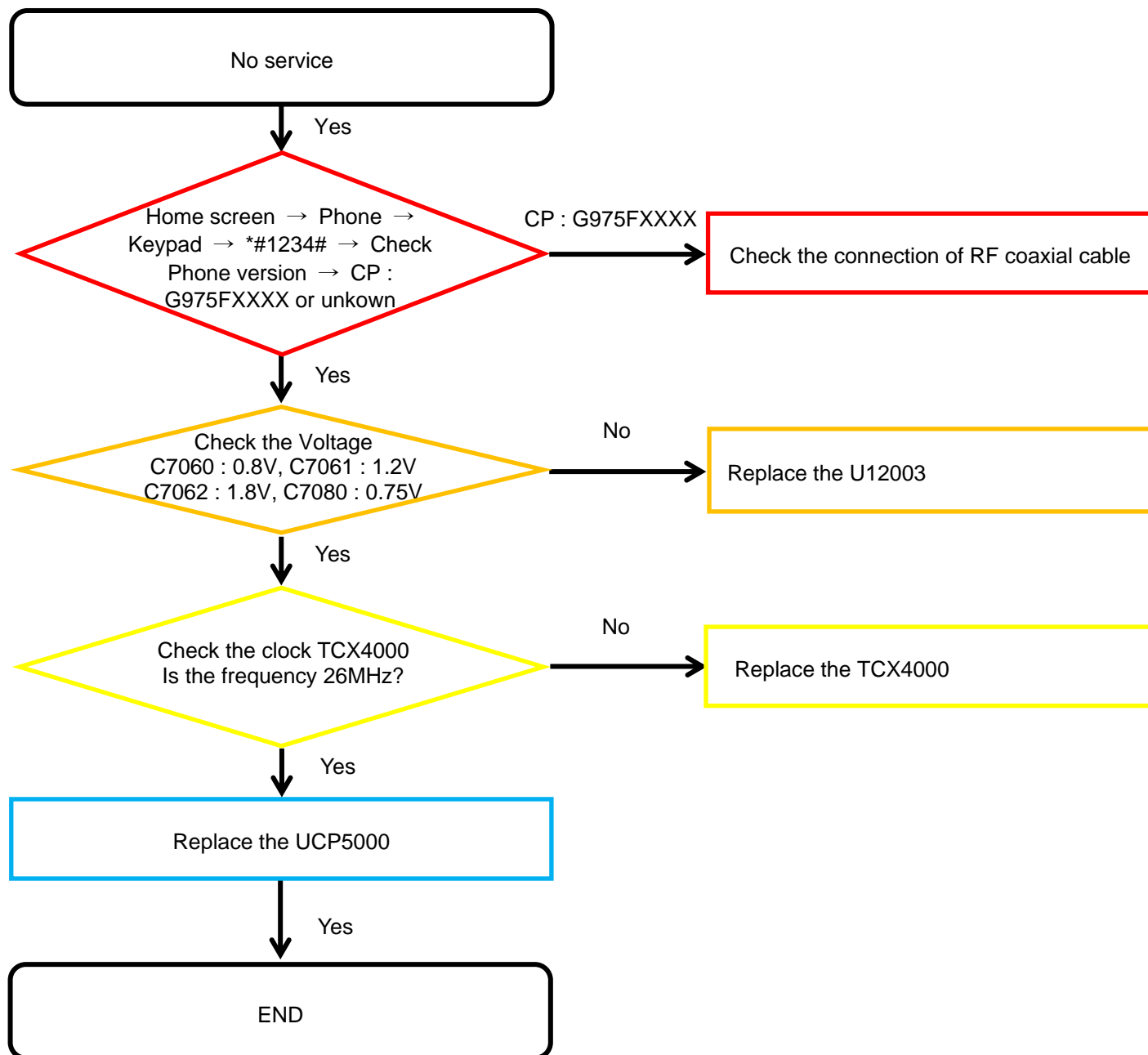
8. Level 3 Repair

8-4-2. Initial



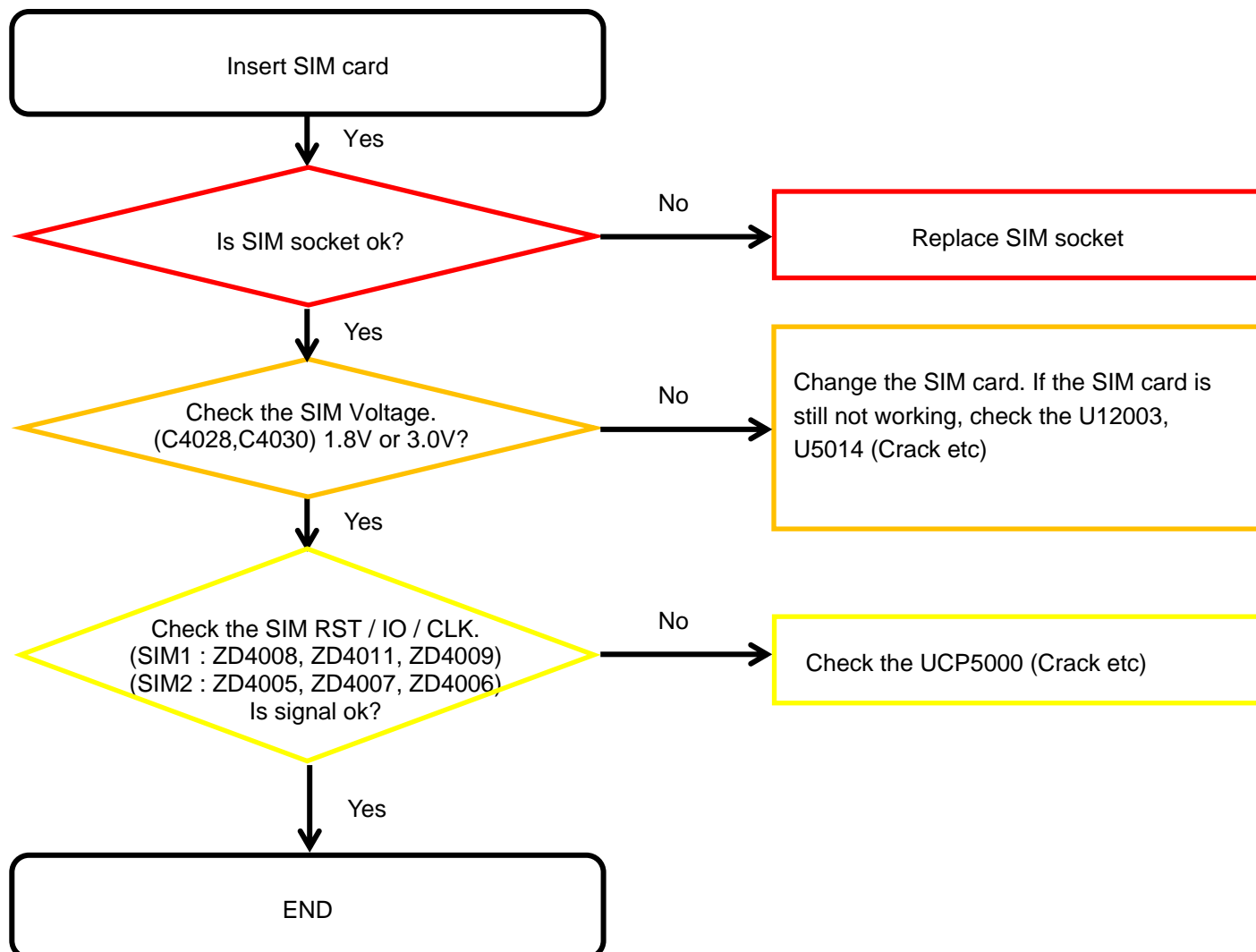
8. Level 3 Repair

8-4-3. No Service



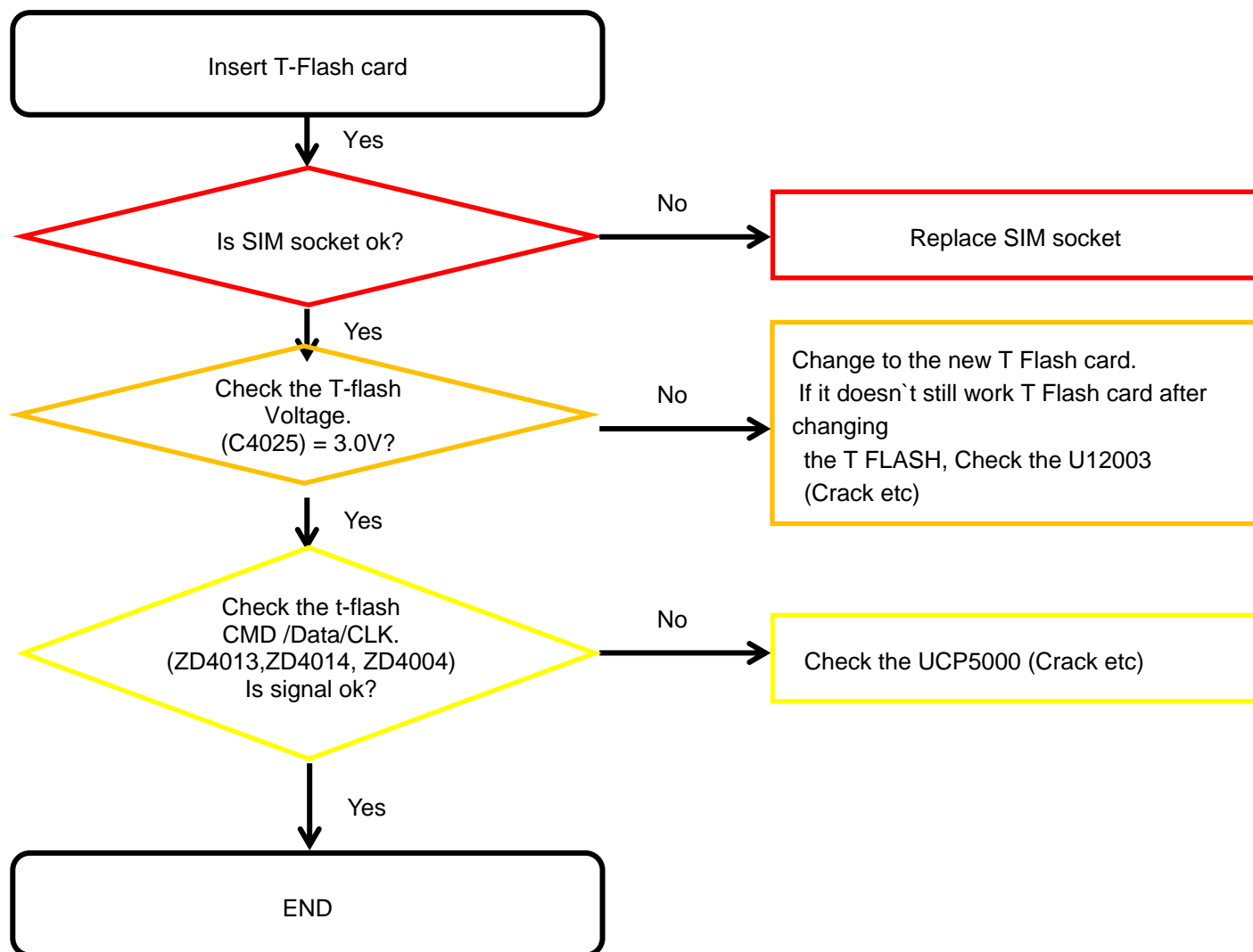
8. Level 3 Repair

8-4-4. SIM Part



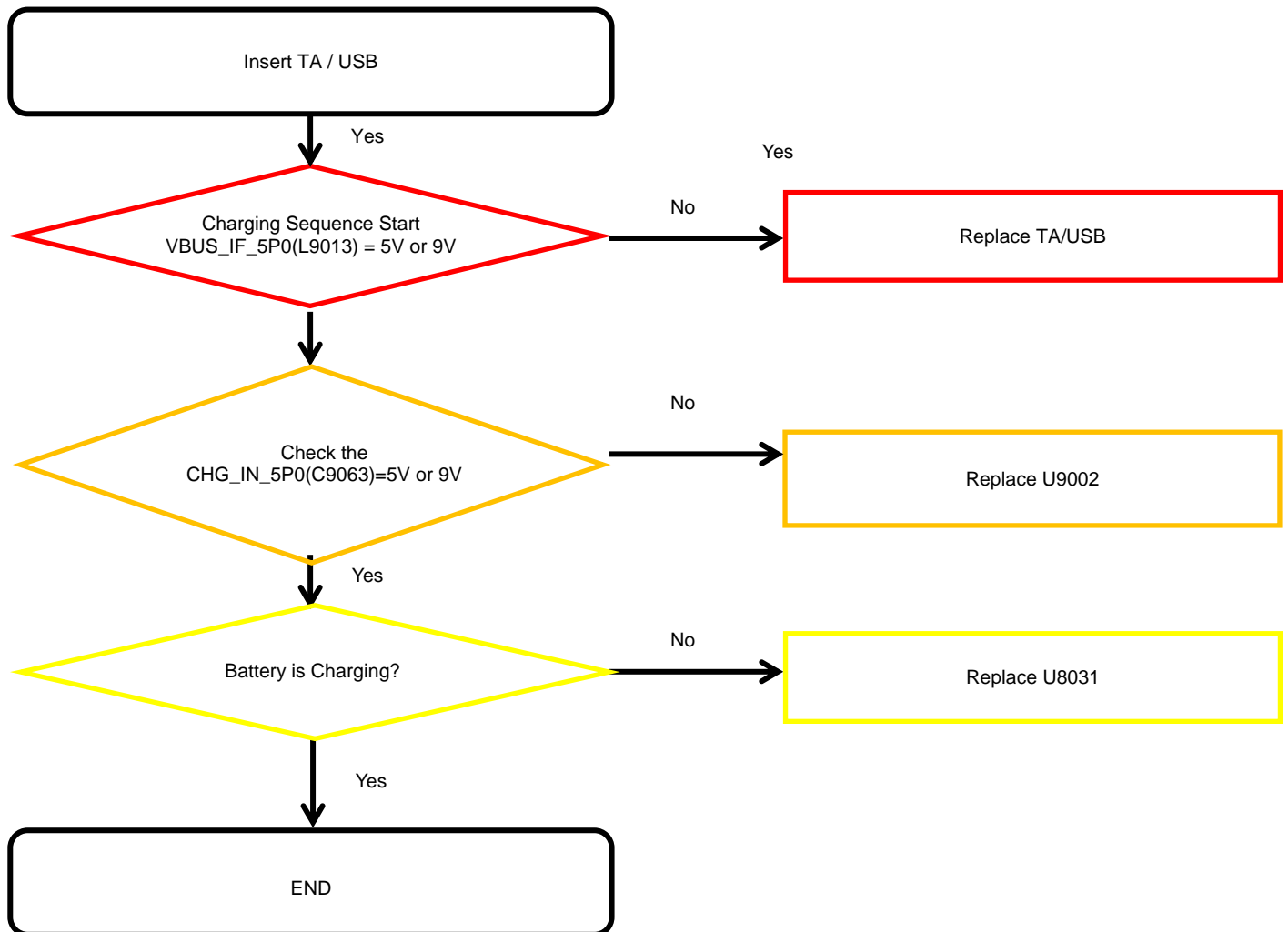
8. Level 3 Repair

8-4-5. T-Flash Part



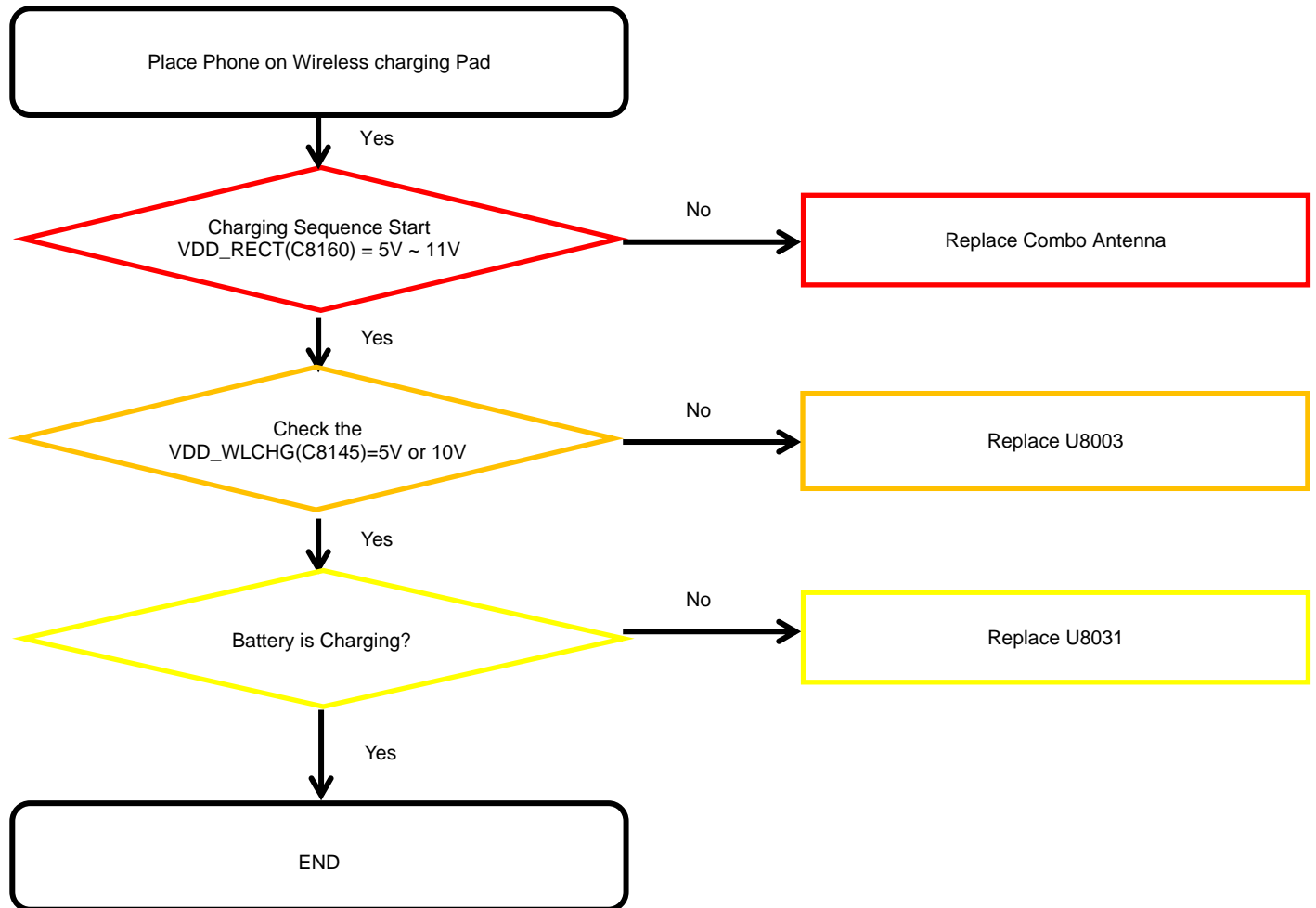
8. Level 3 Repair

8-4-6-1. Cable Charging Part (Normal/Fast)



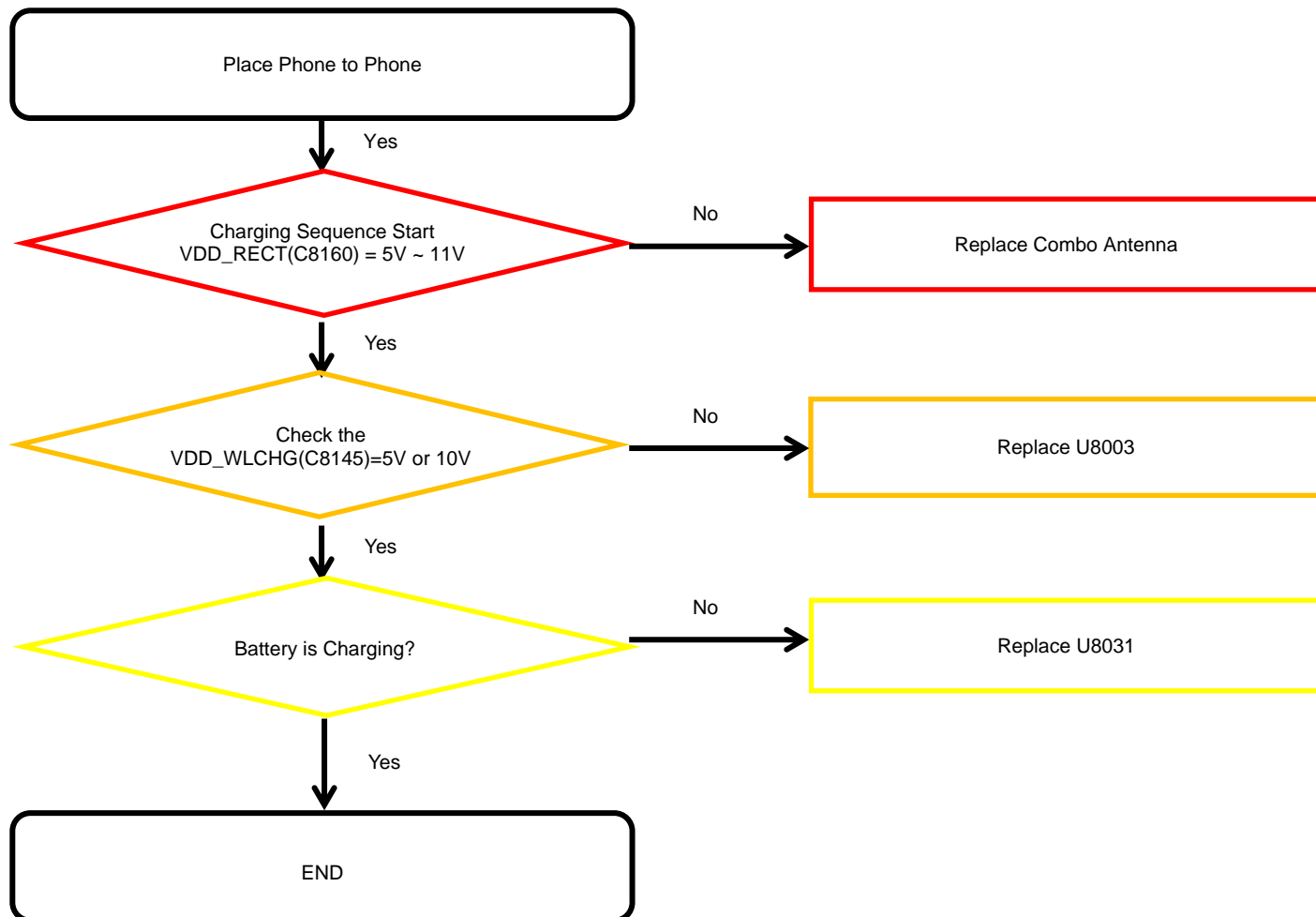
8. Level 3 Repair

8-4-6-2. Wireless Charging Part (Normal/Fast)



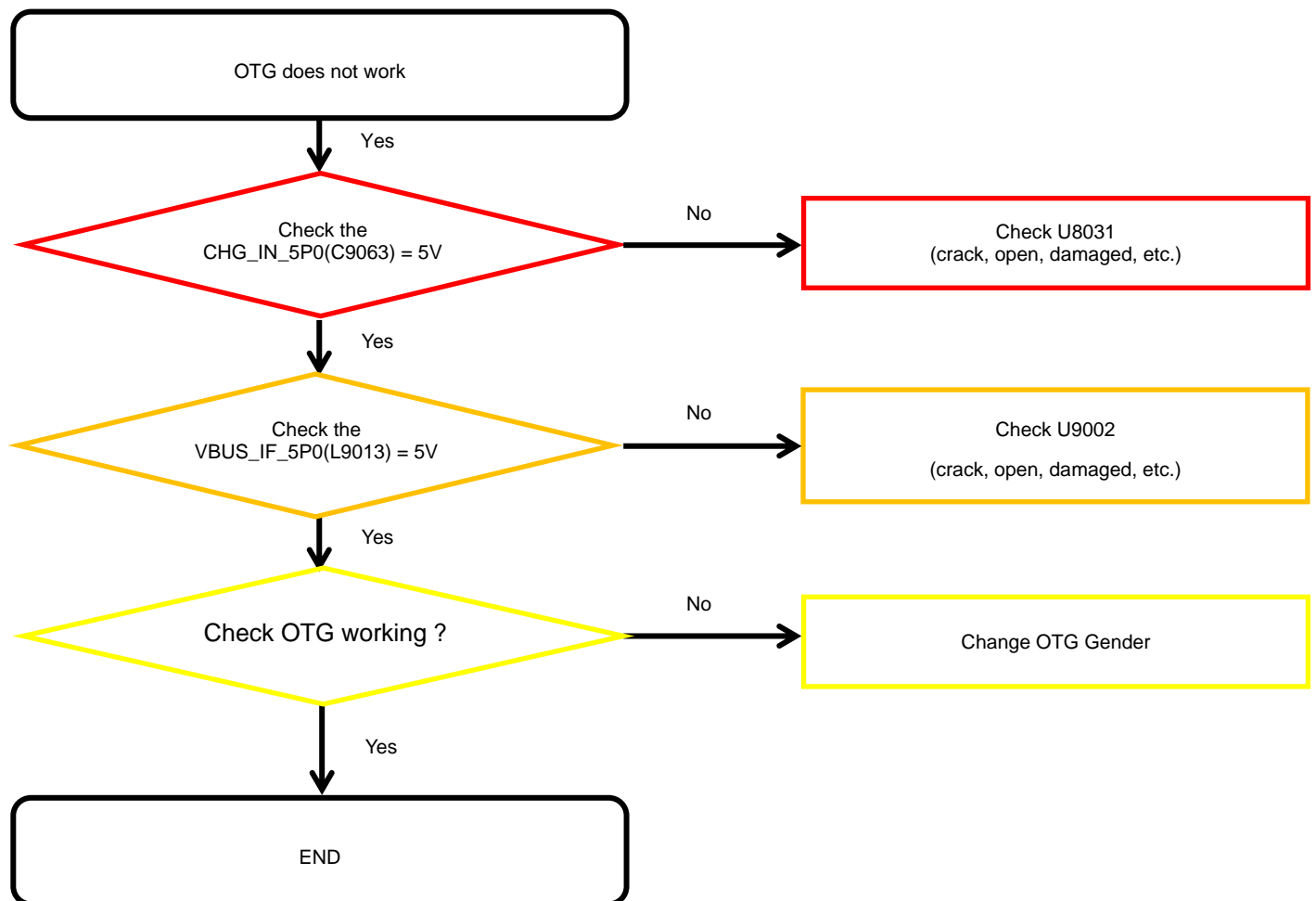
8. Level 3 Repair

8-4-6-3. Wireless Power Sharing



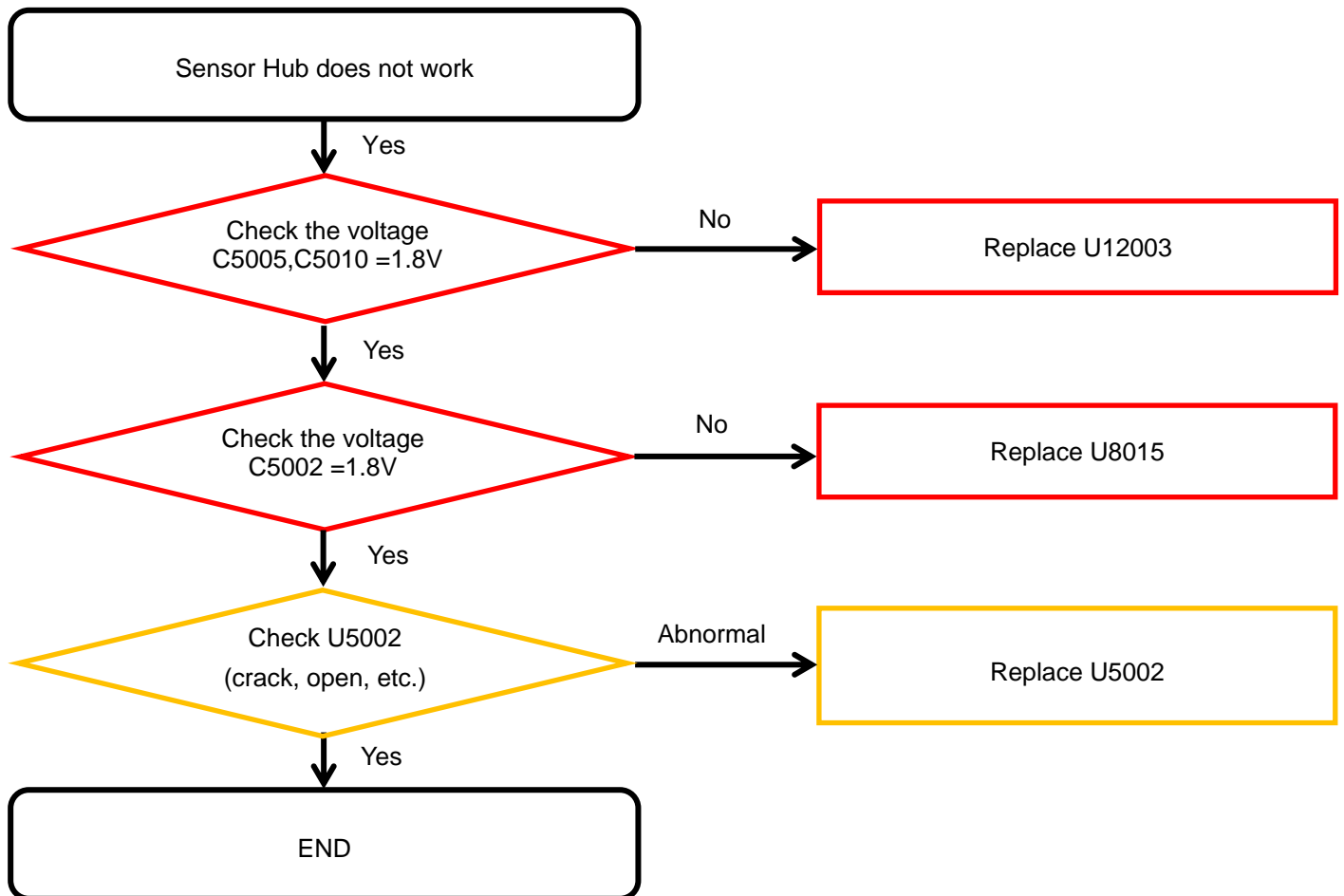
8. Level 3 Repair

8-4-7. OTG



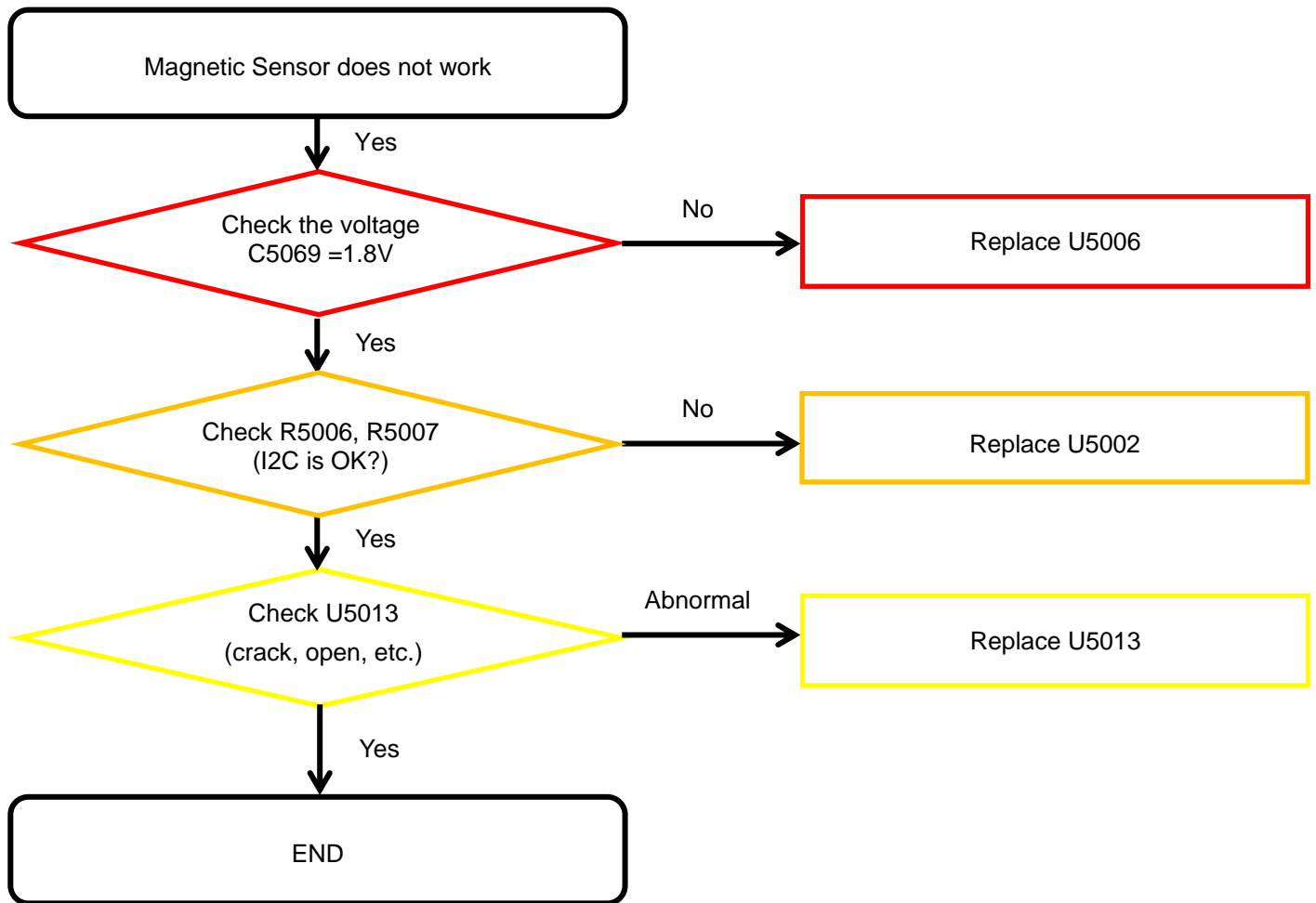
8. Level 3 Repair

8-4-8-1. Sensor Hub



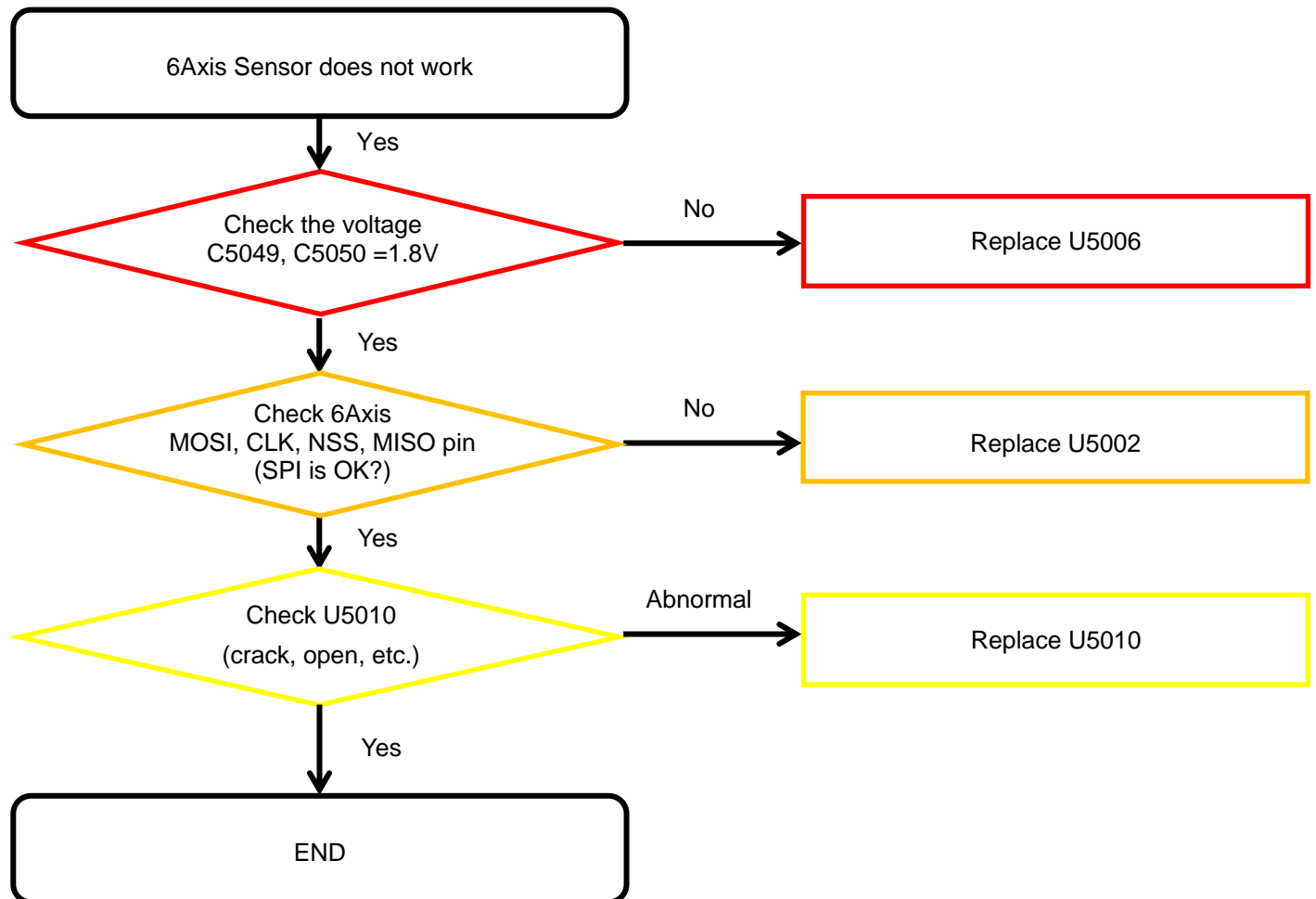
8. Level 3 Repair

8-4-8-2. Magnetic Sensor



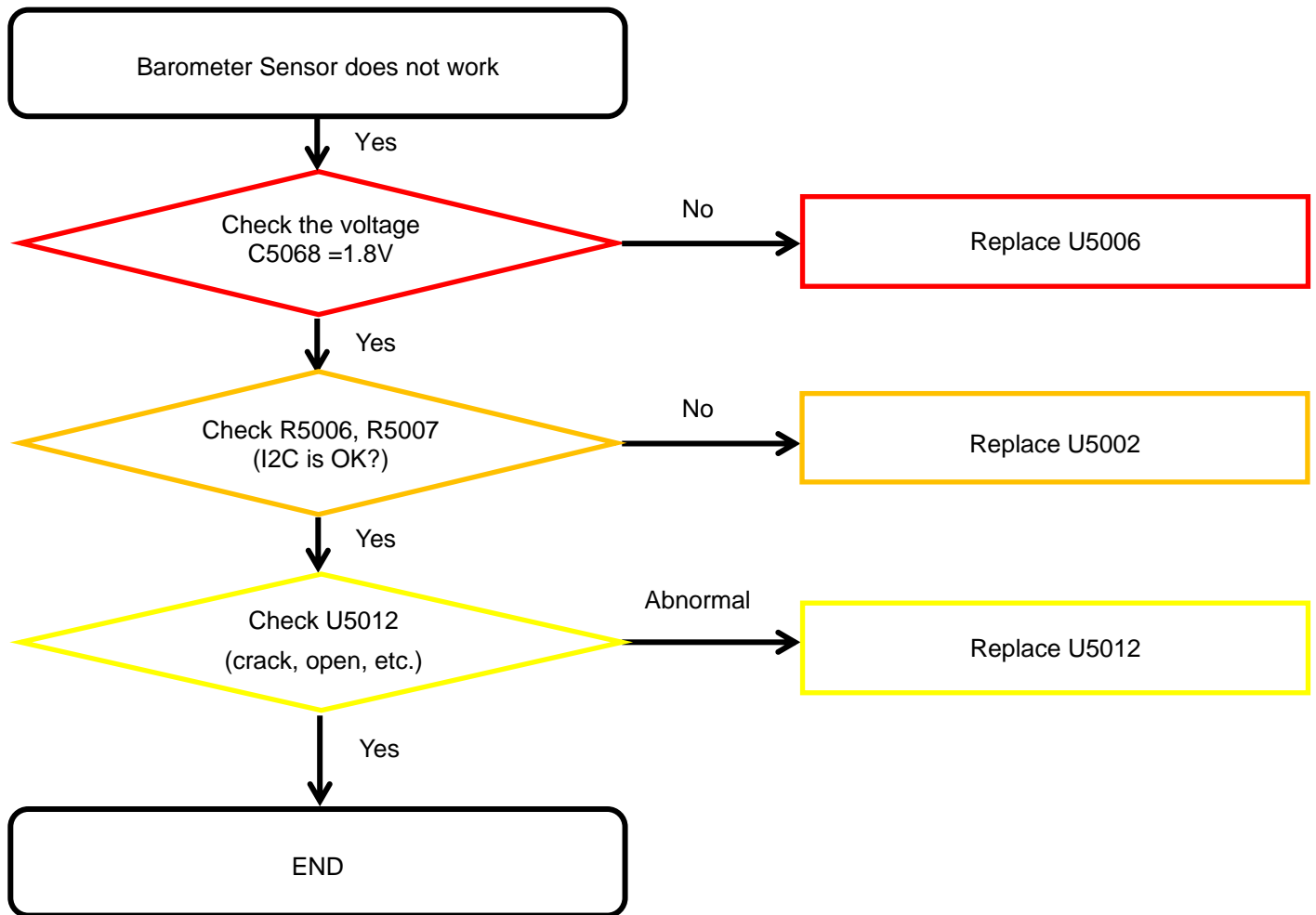
8. Level 3 Repair

8-4-8-3. 6Axis Sensor



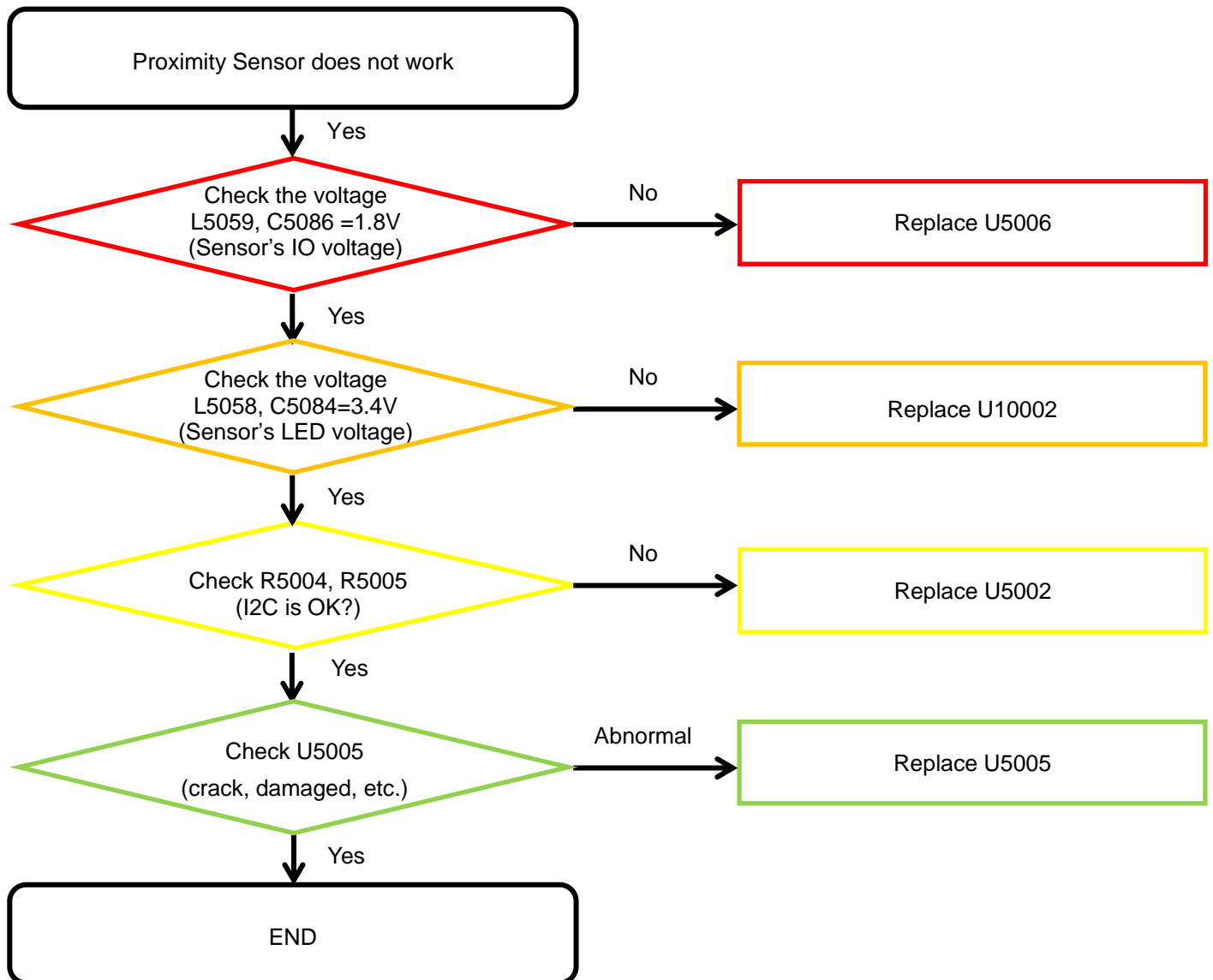
8. Level 3 Repair

8-4-8-4. Barometer sensor



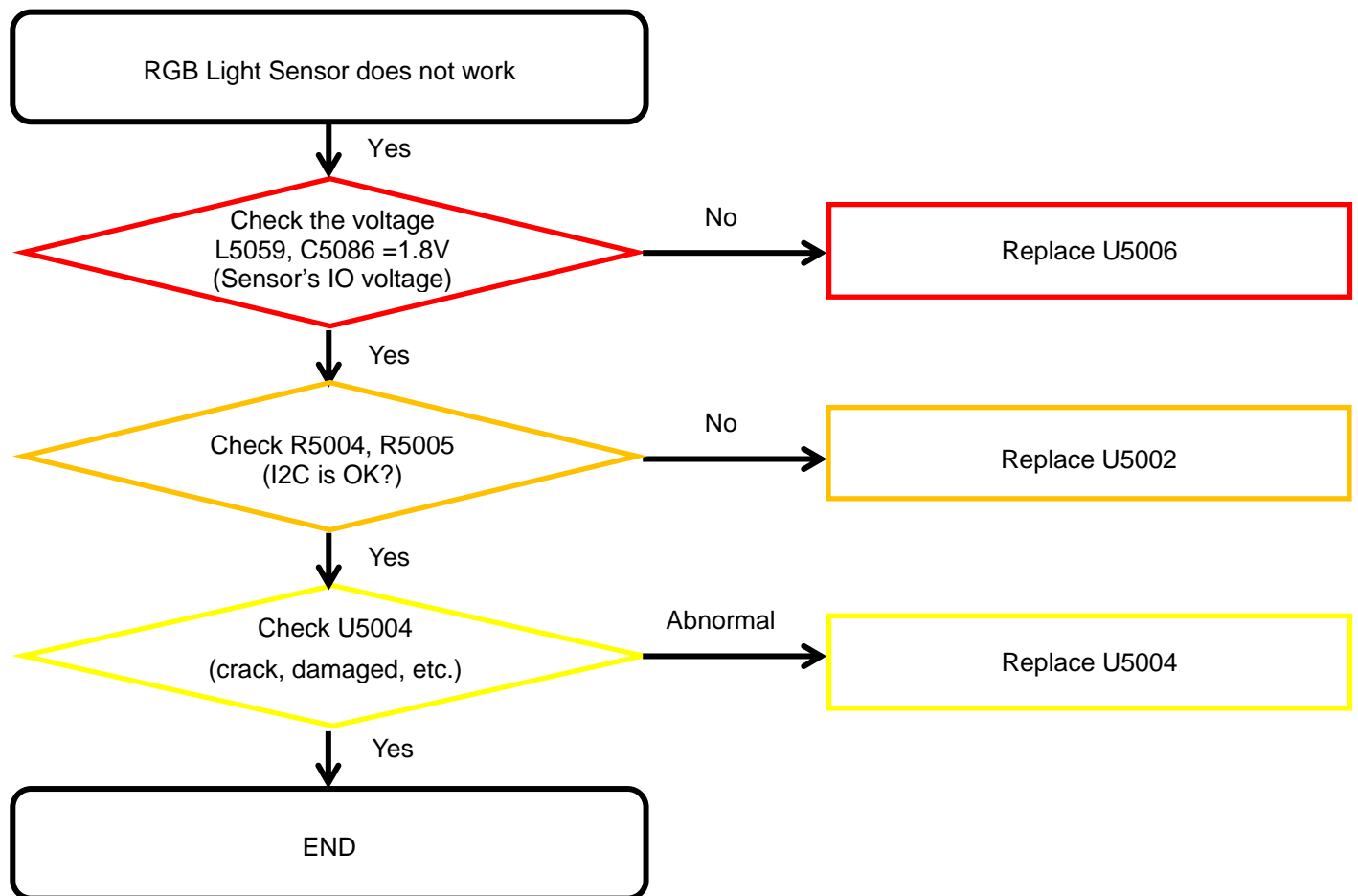
8. Level 3 Repair

8-4-8-5. Proximity sensor



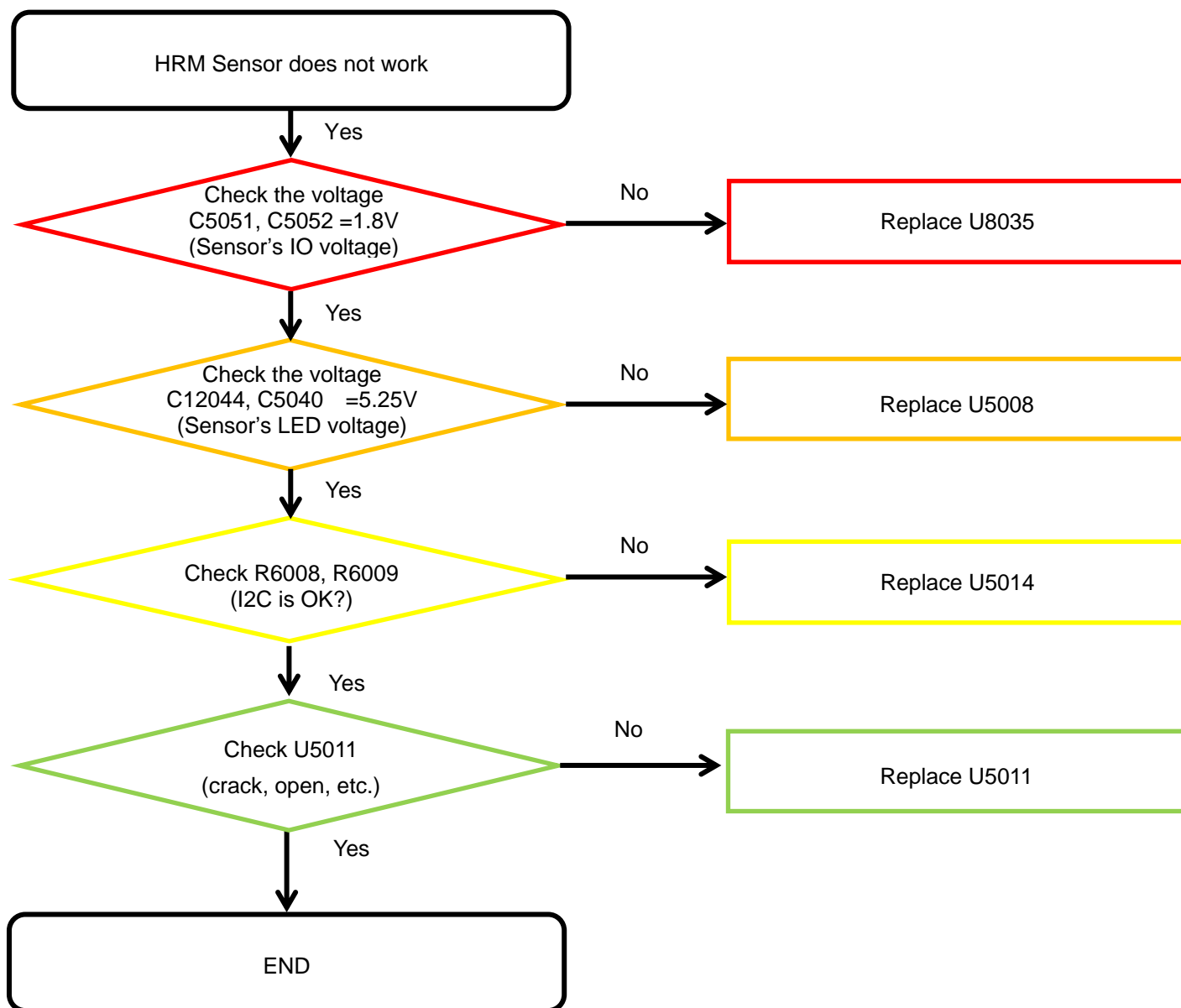
8. Level 3 Repair

8-4-8-6. RGB Light sensor



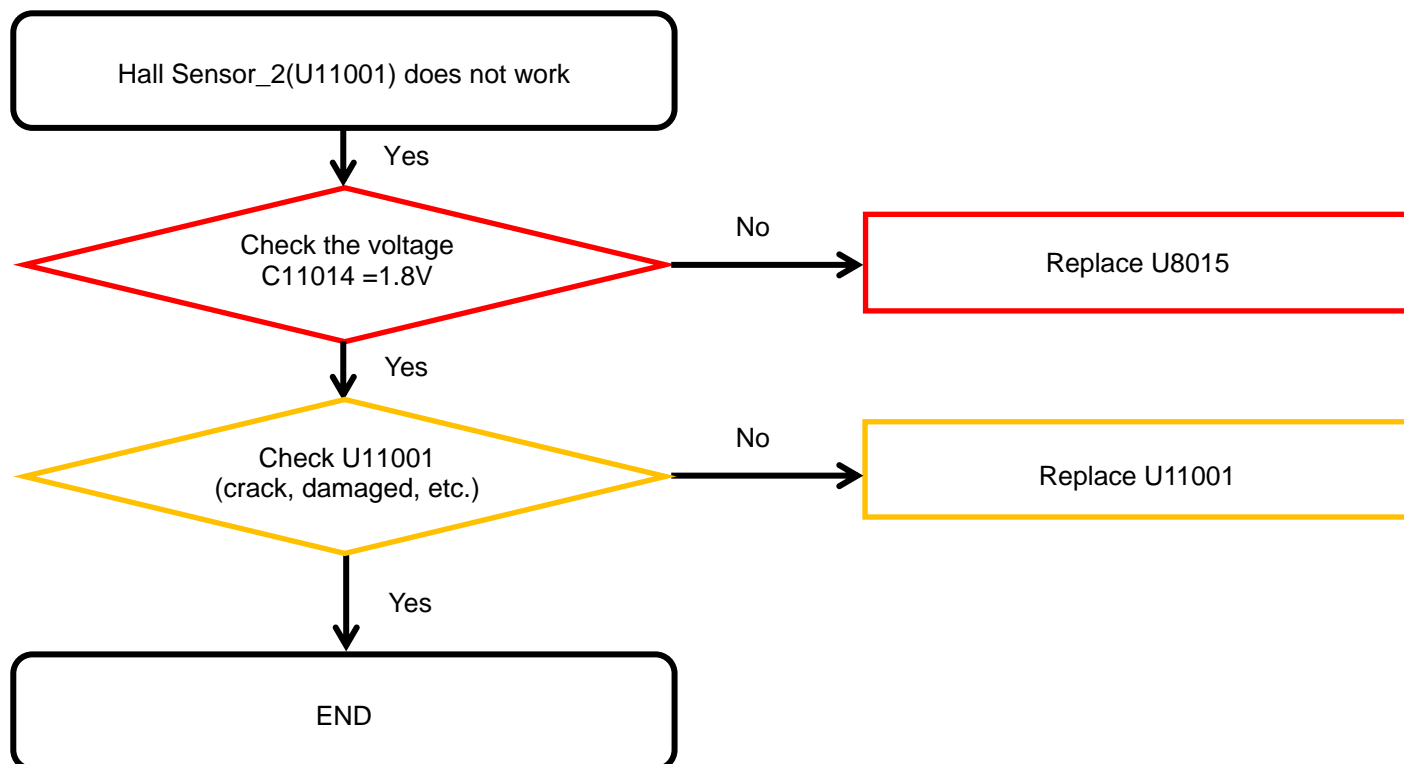
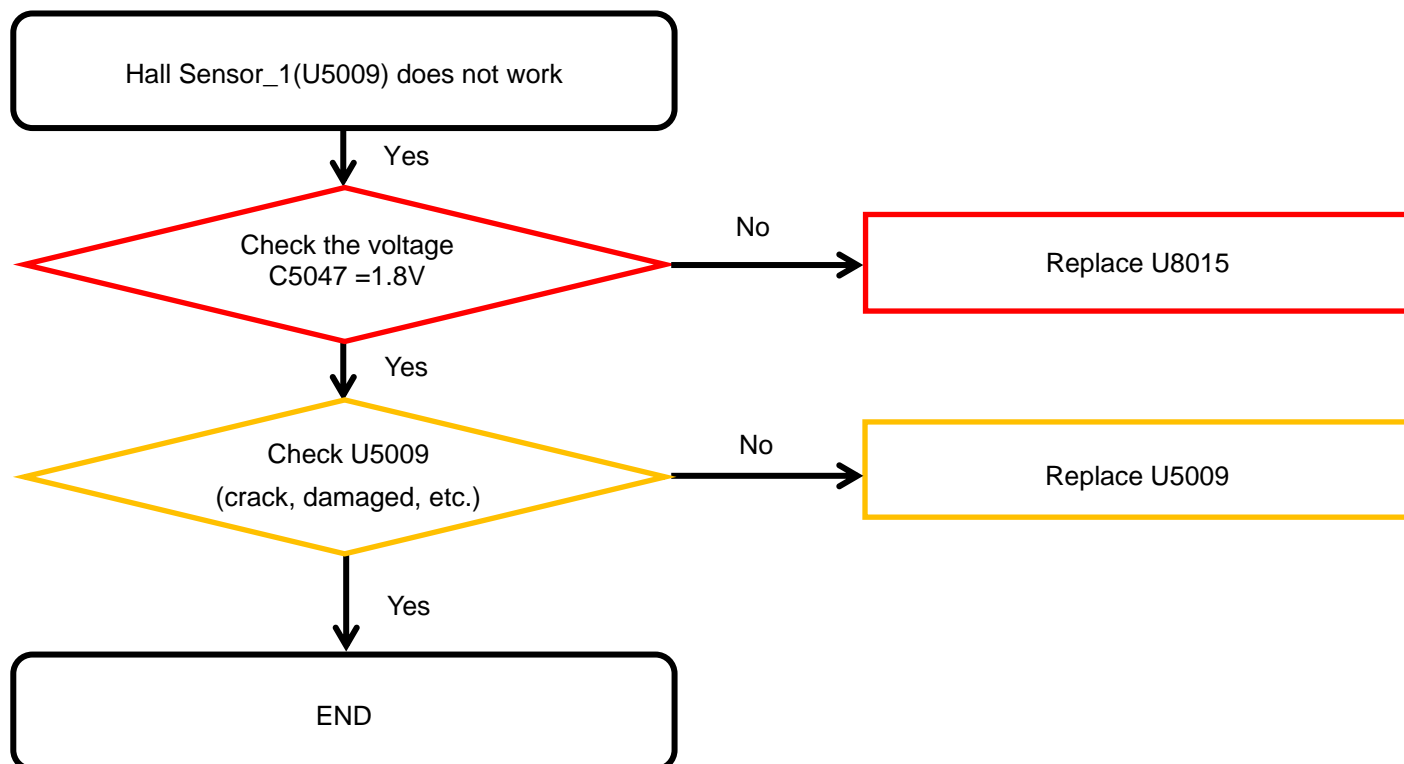
8. Level 3 Repair

8-4-8-7. HRM Sensor



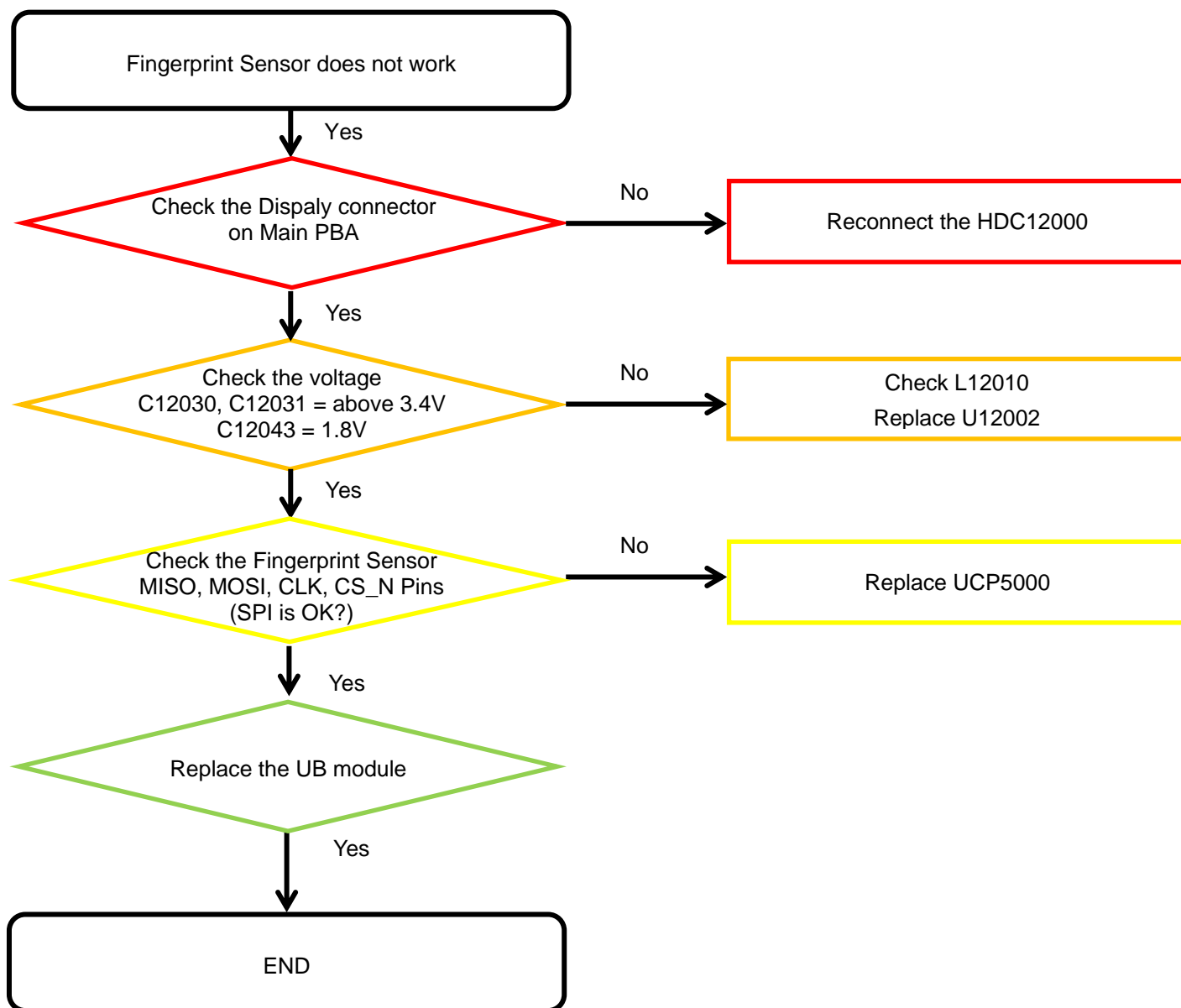
8. Level 3 Repair

8-4-8-8. Hall Sensor



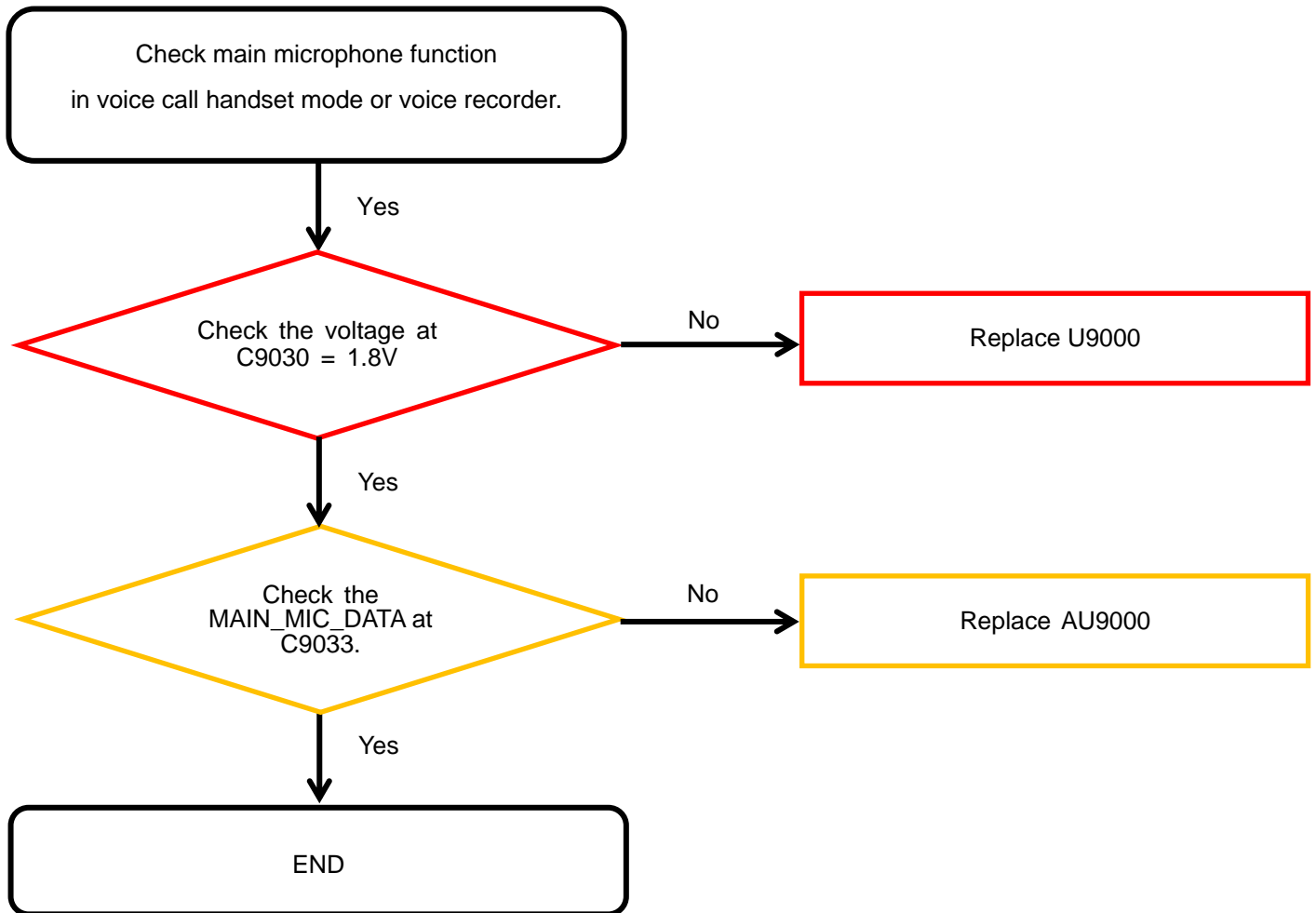
8. Level 3 Repair

8-4-8-9. Fingerprint Sensor



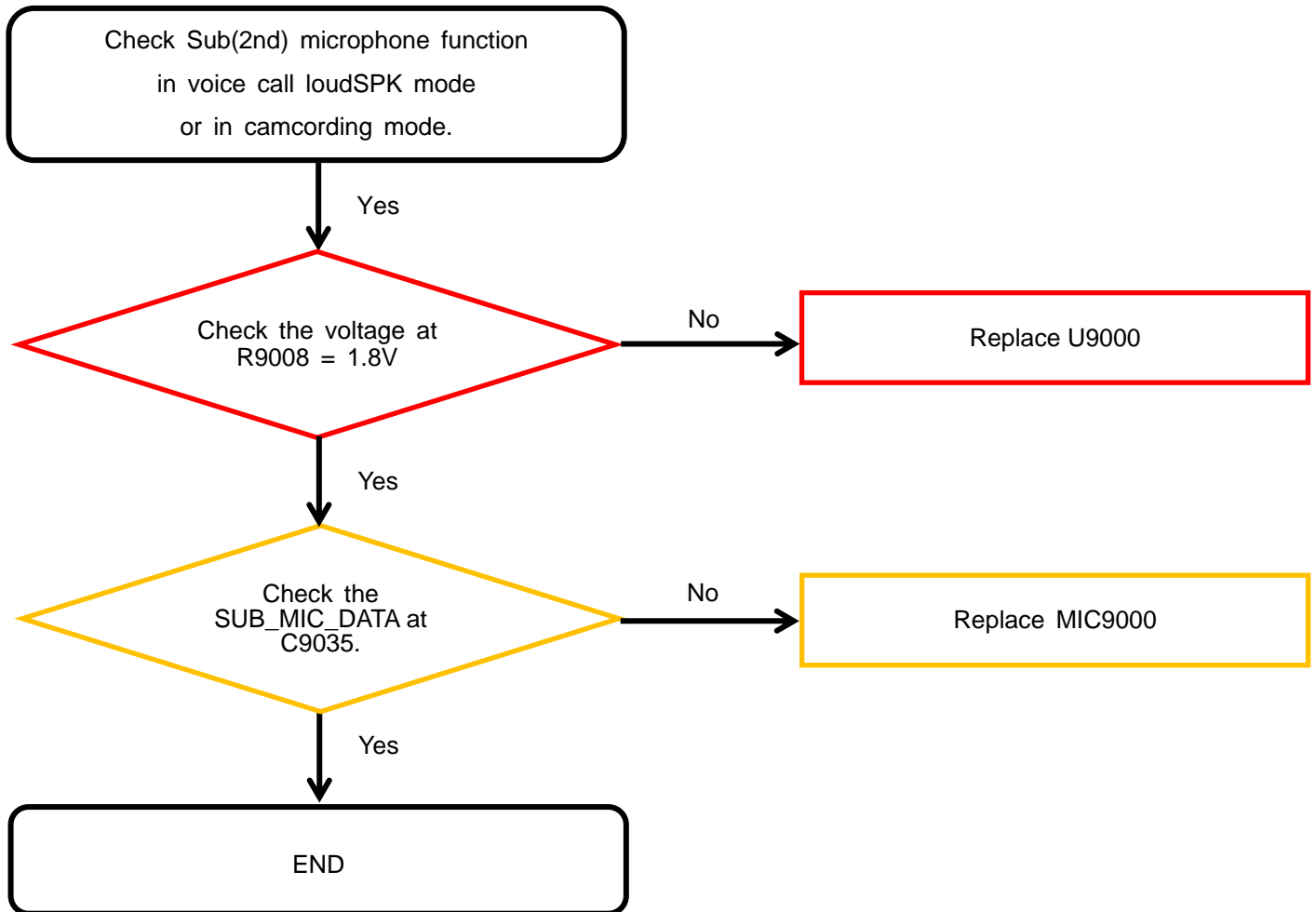
8. Level 3 Repair

8-4-9-1. Microphone Part - Main MIC



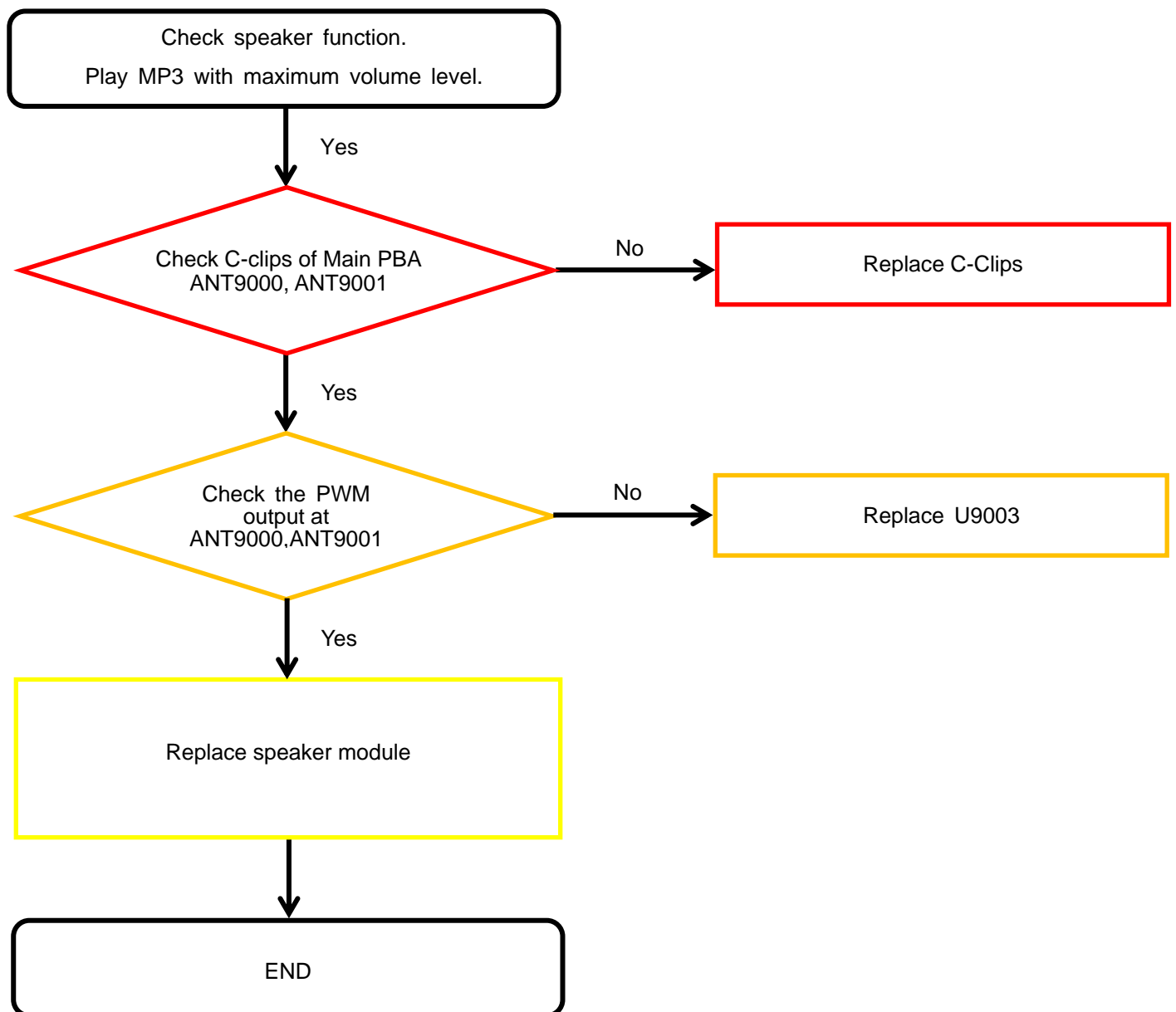
8. Level 3 Repair

8-4-9-2. Microphone Part - Sub(2nd) MIC



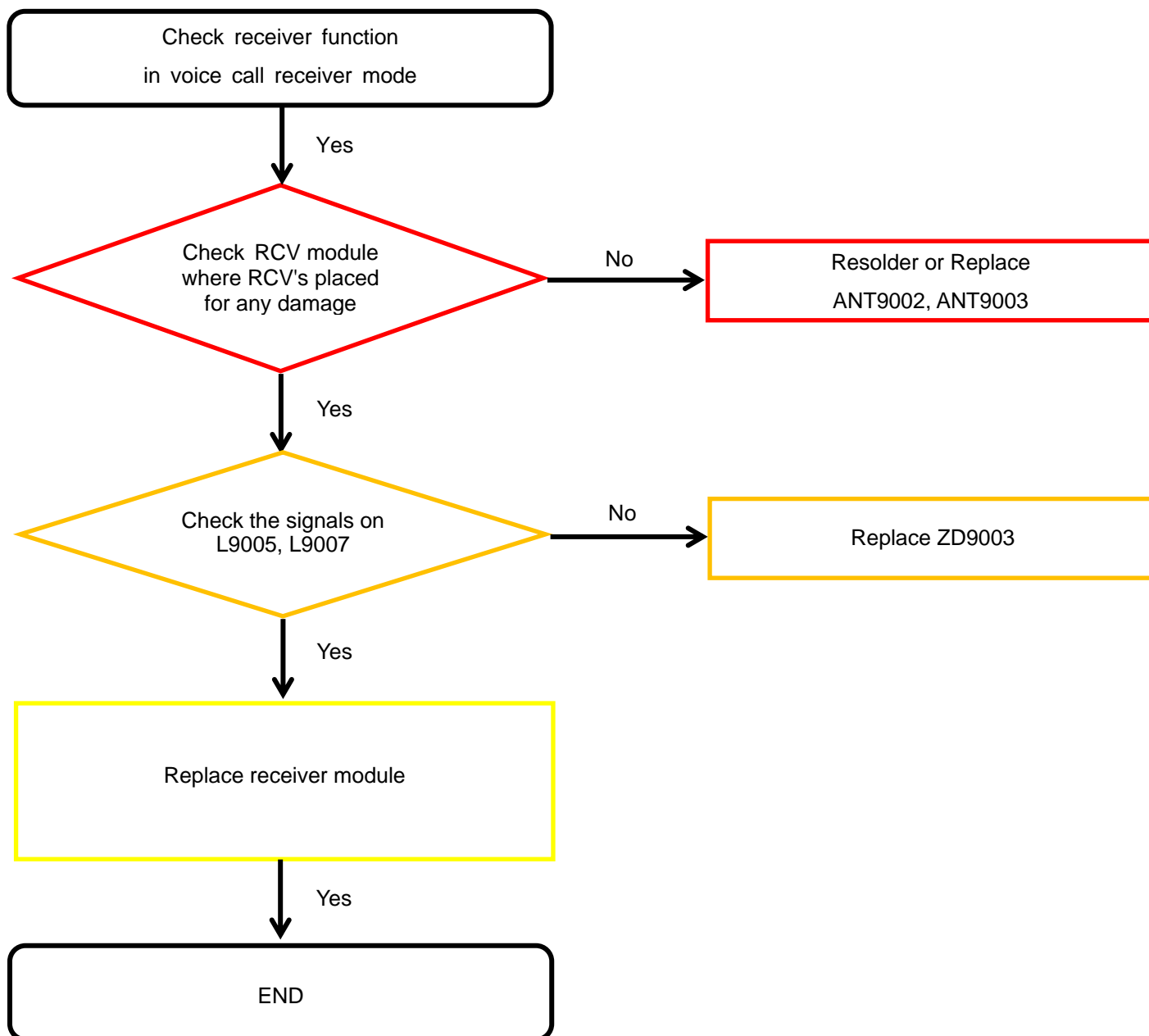
8. Level 3 Repair

8-4-10. Speaker Part



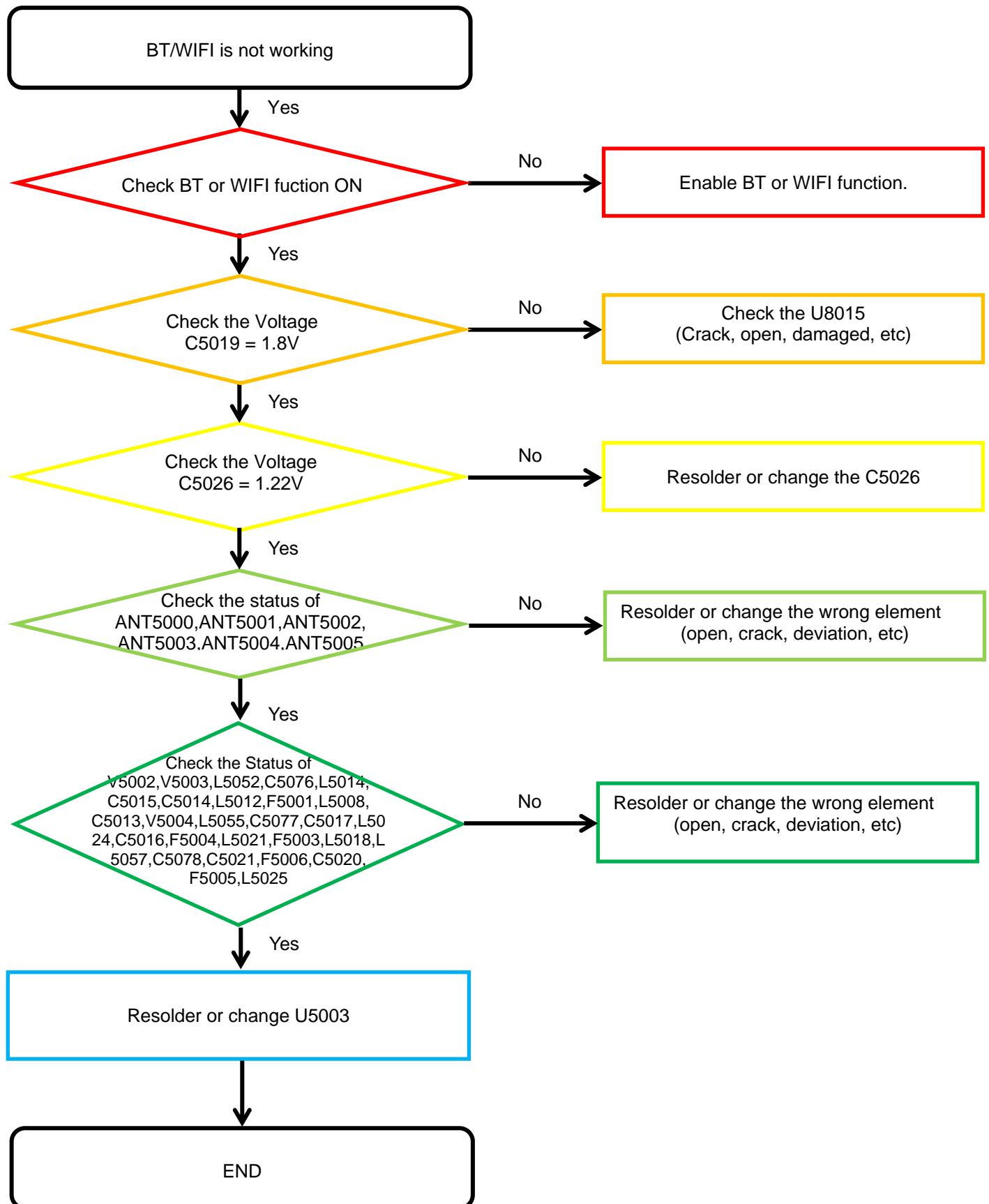
8. Level 3 Repair

8-4-11. Receiver Part



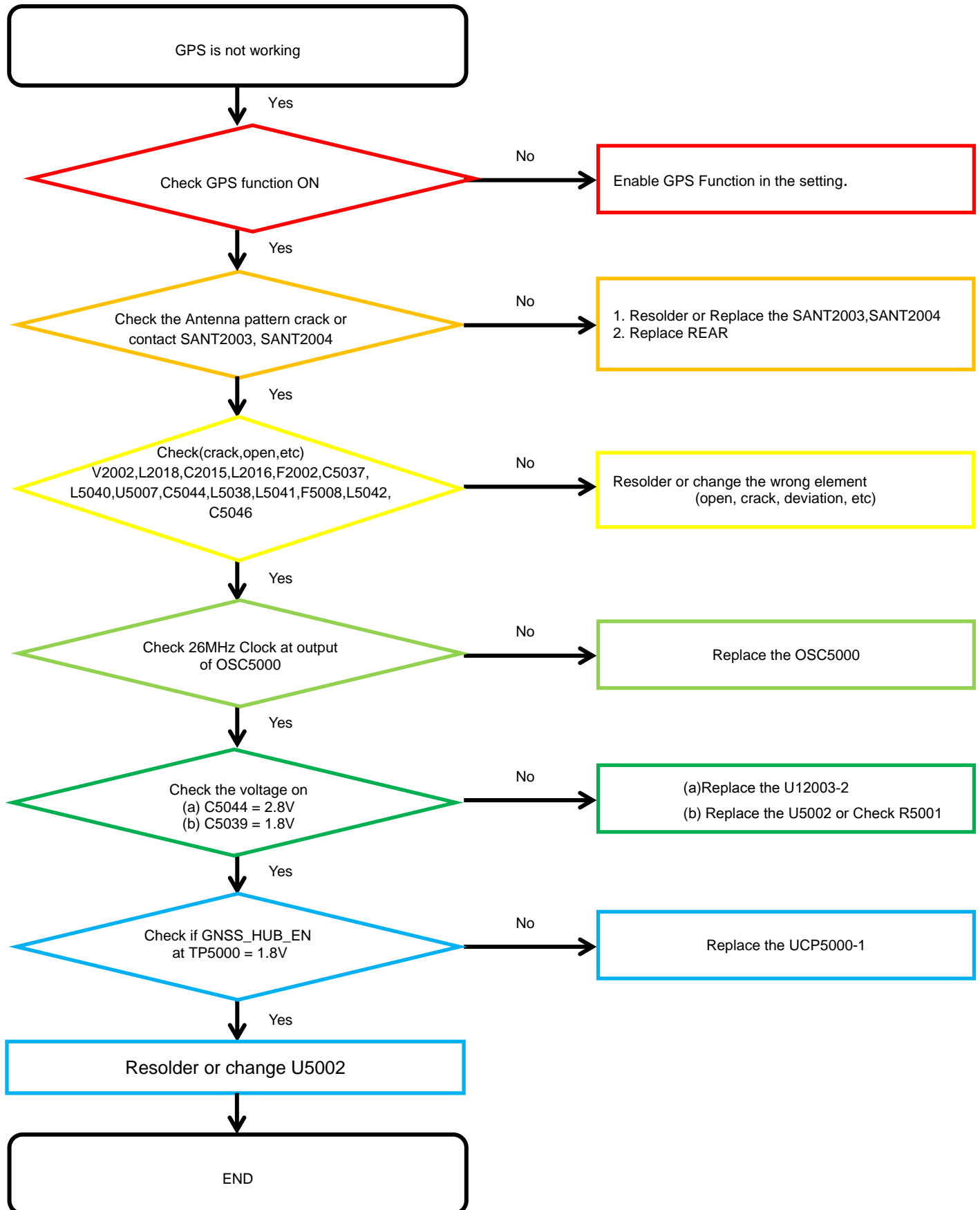
8. Level 3 Repair

8-4-12. BT/WIFI



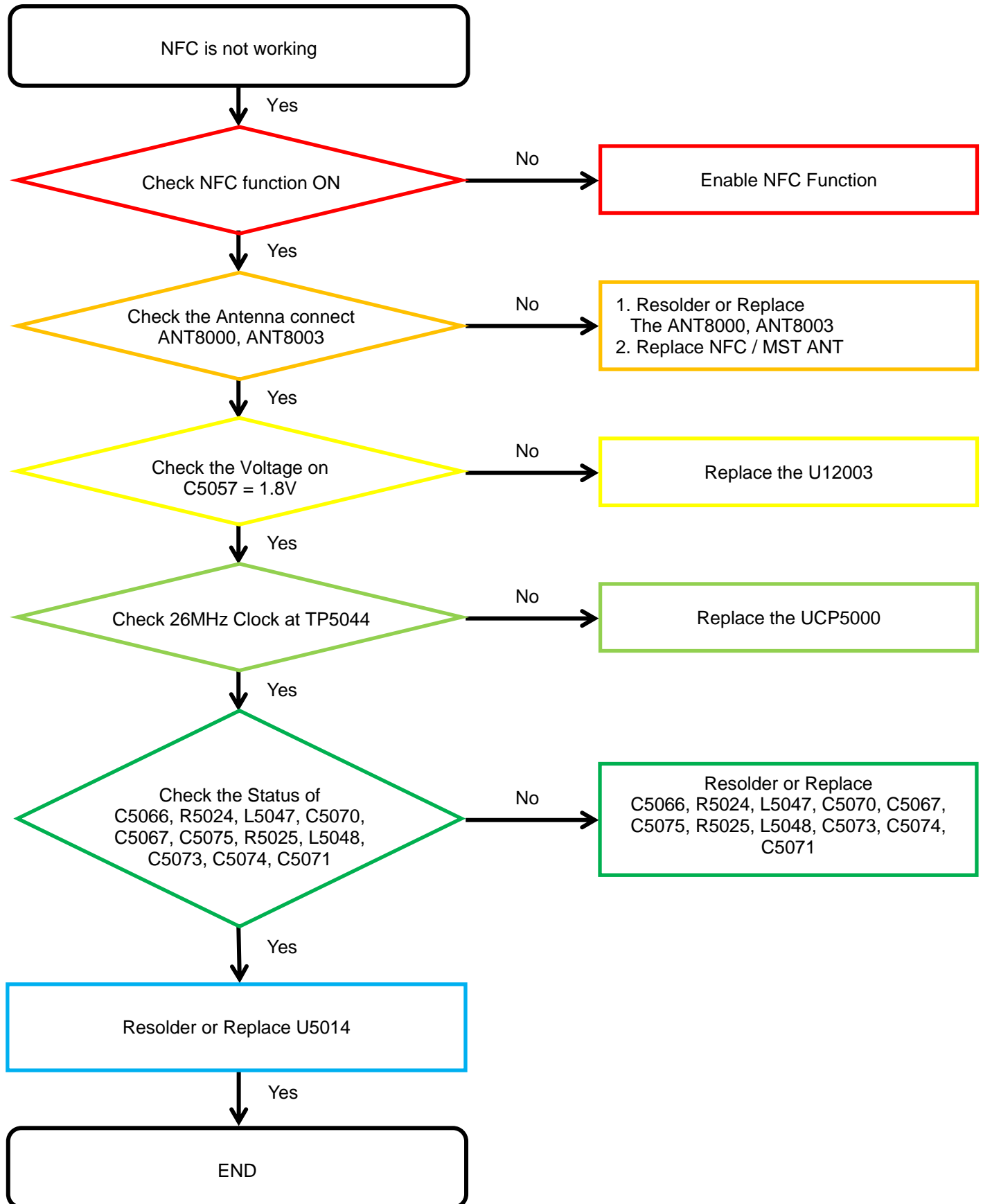
8. Level 3 Repair

8-4-13. GPS



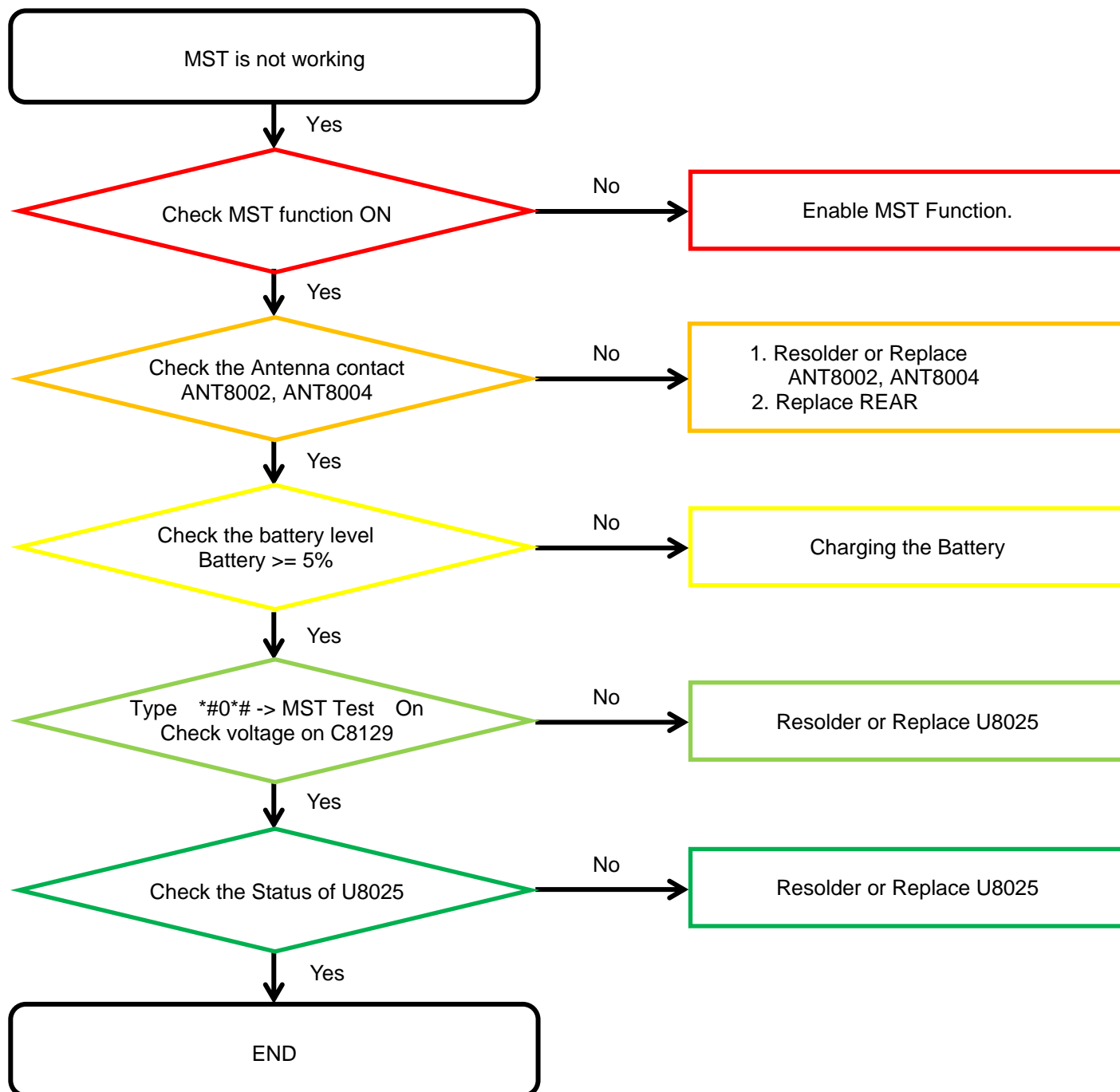
8. Level 3 Repair

8-4-14. NFC



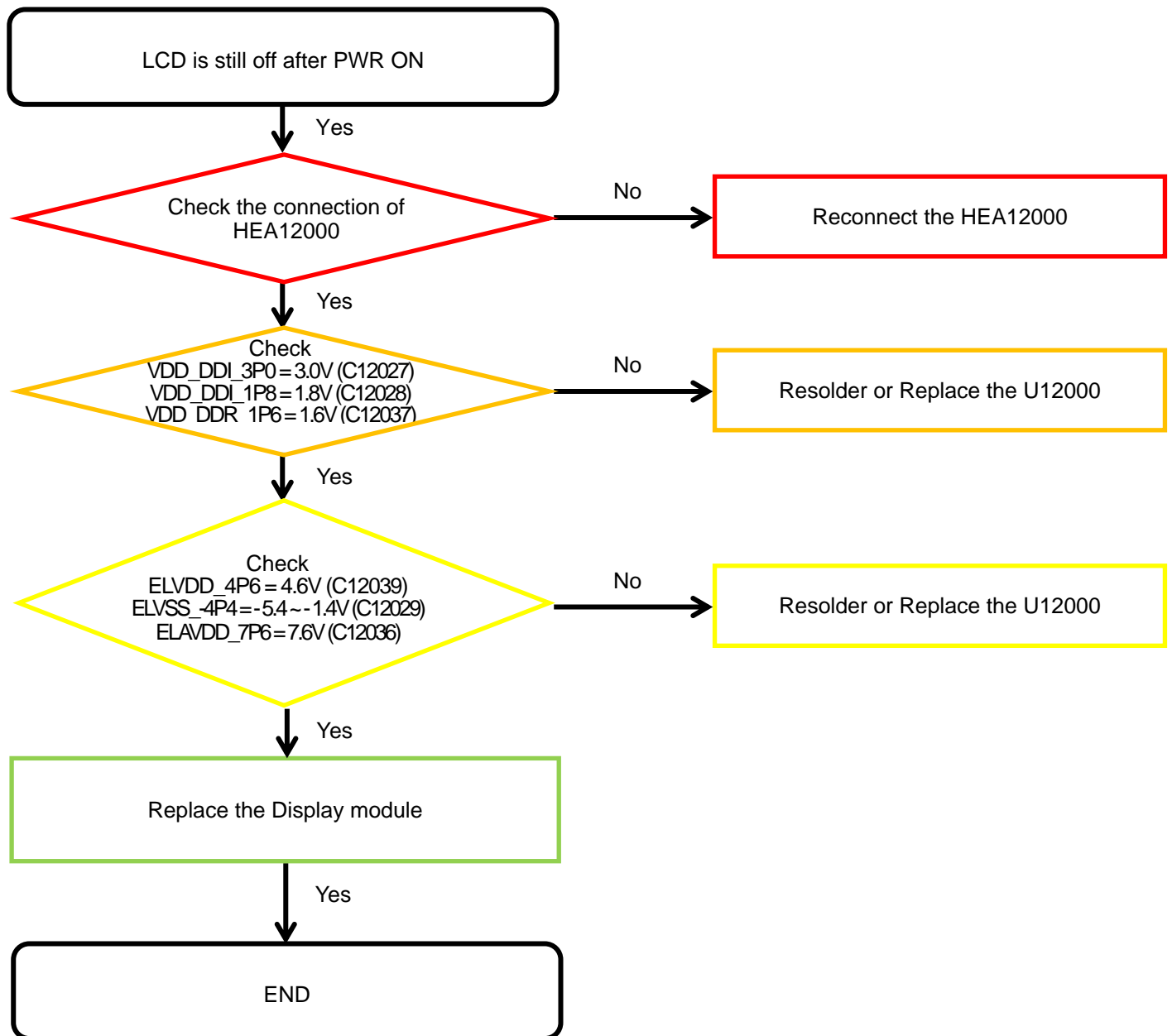
8. Level 3 Repair

8-4-15. MST



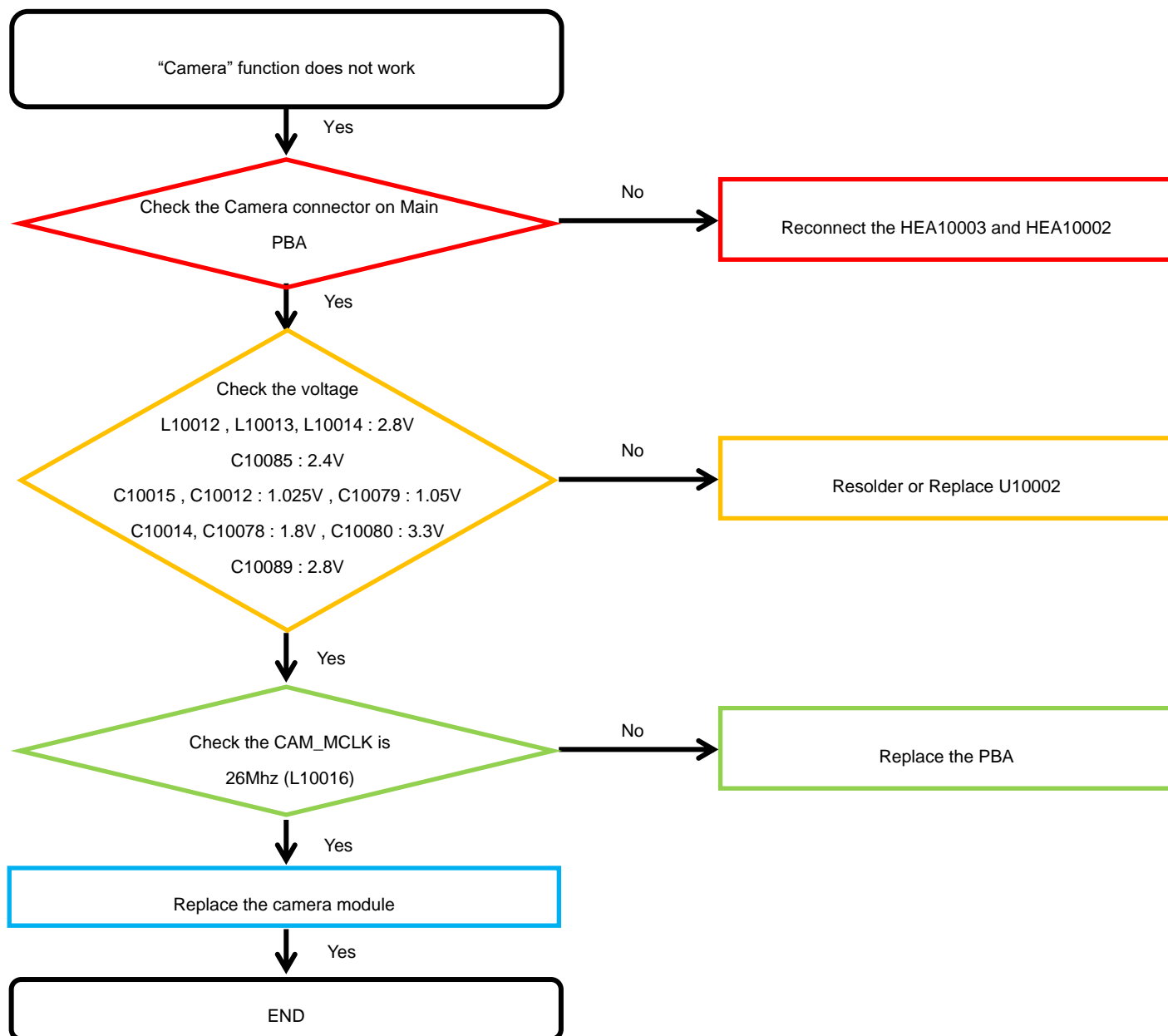
8. Level 3 Repair

8-4-16. Display



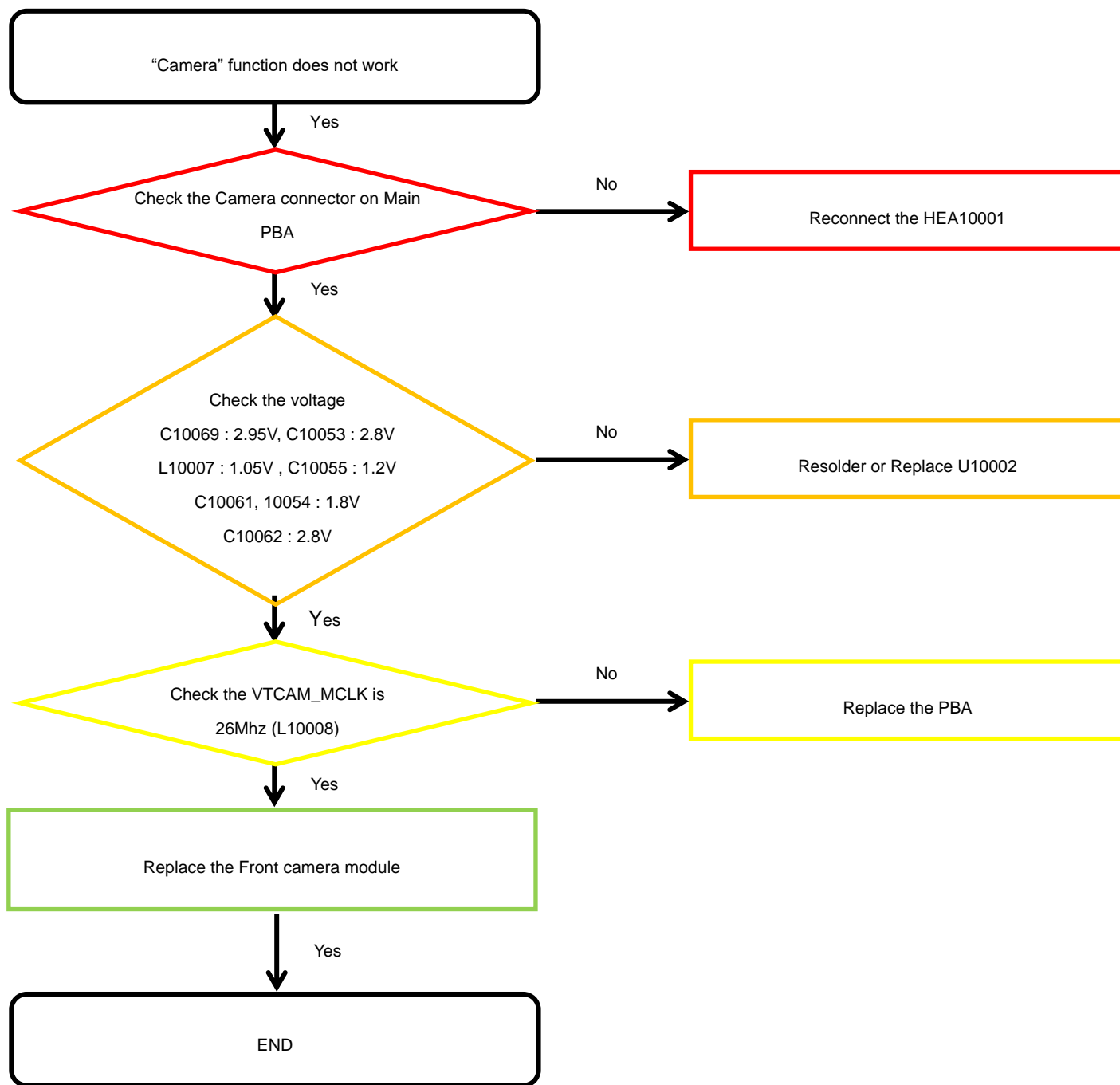
8. Level 3 Repair

8-4-17. 12M CAMERA



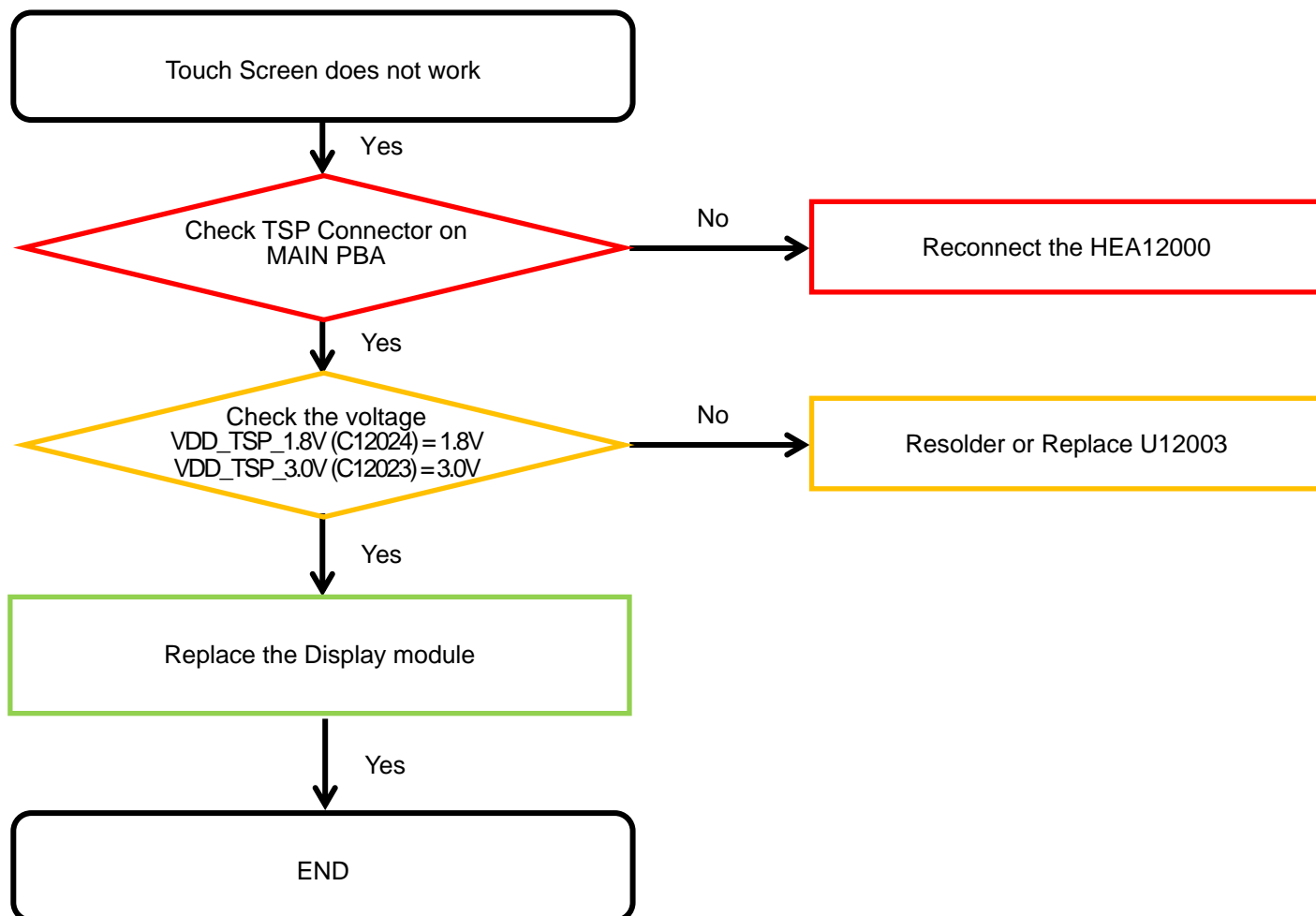
8. Level 3 Repair

8-4-18. 10M CAMERA



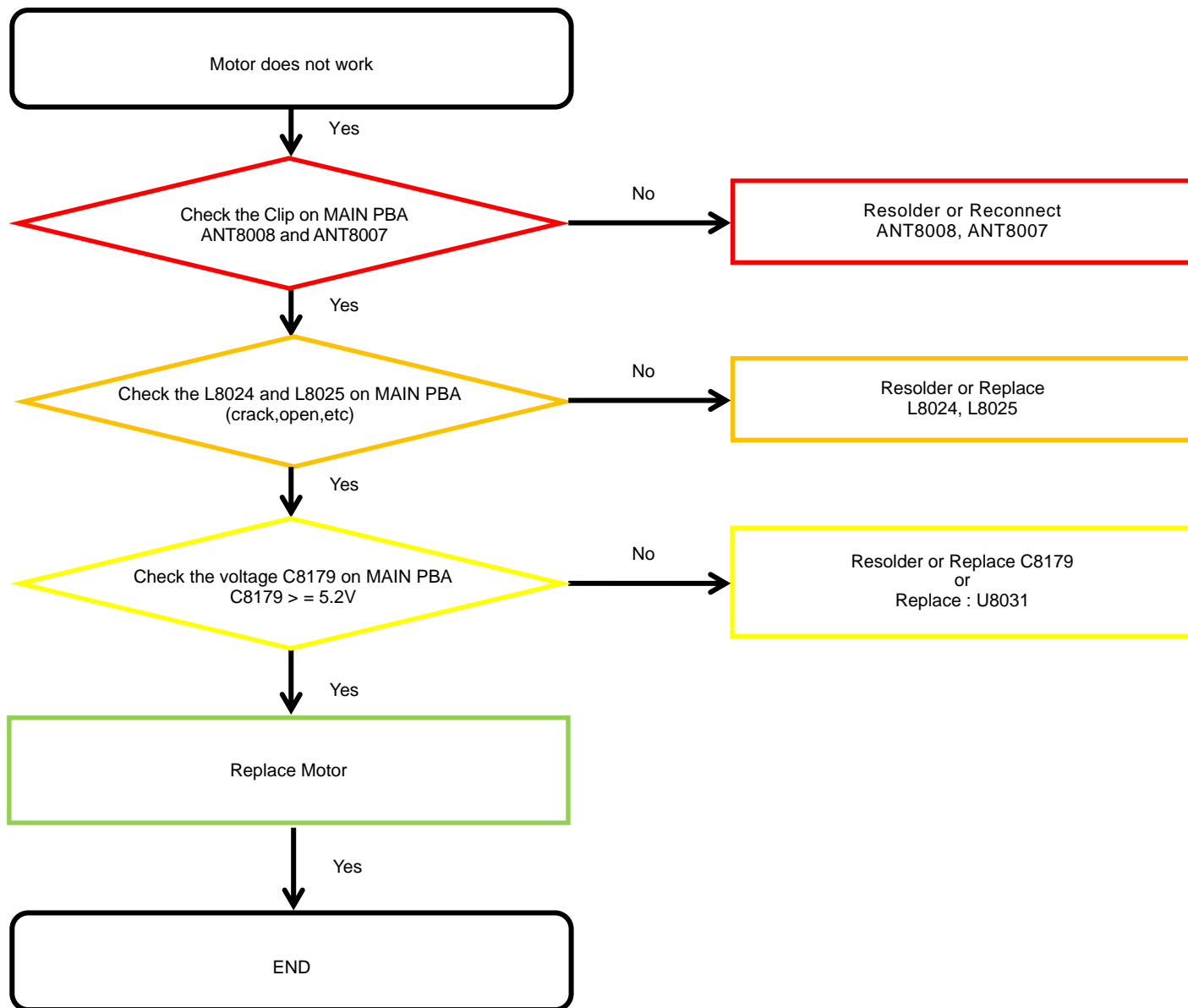
8. Level 3 Repair

8-4-20. TSP



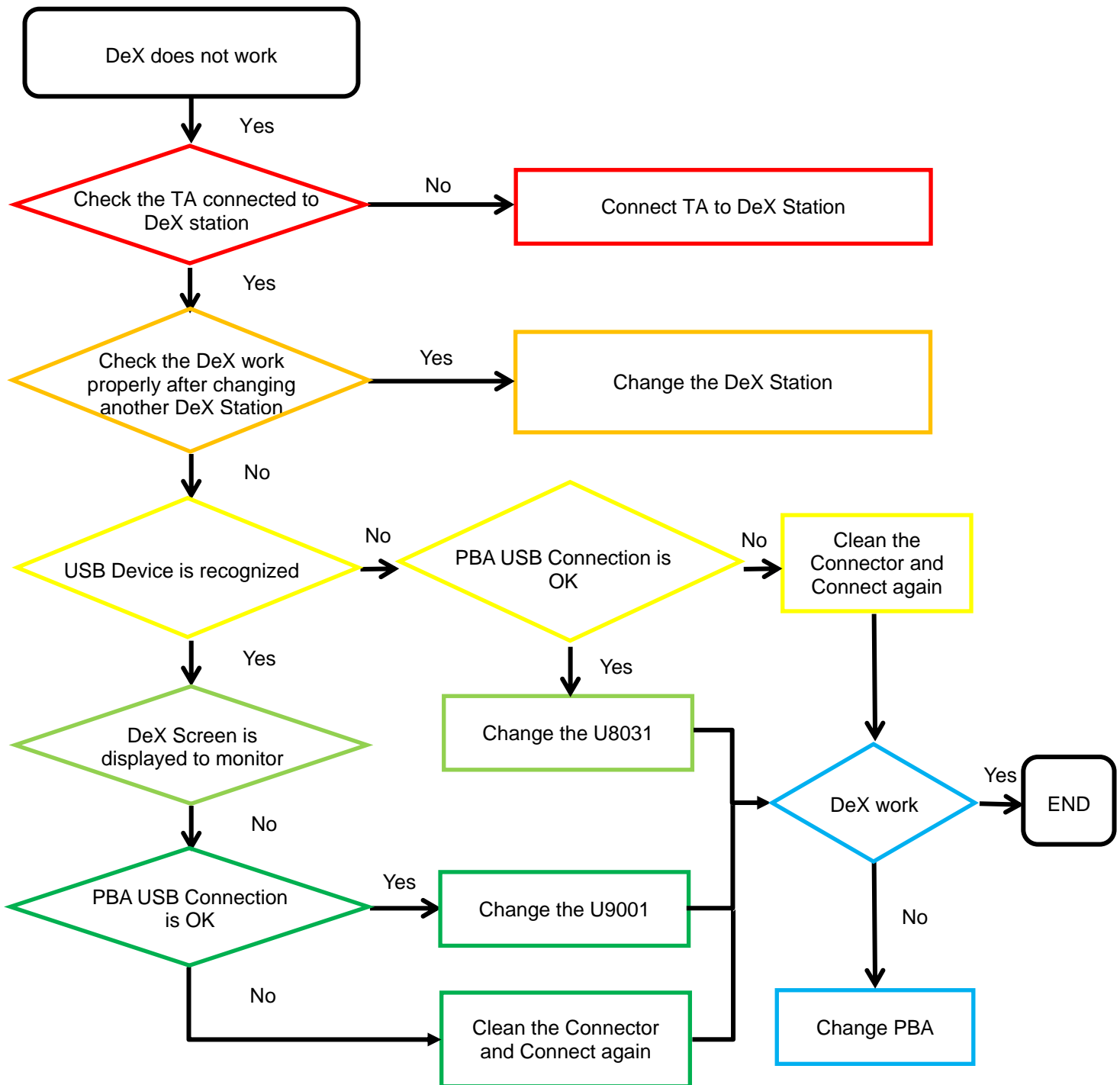
8. Level 3 Repair

8-4-21. Motor



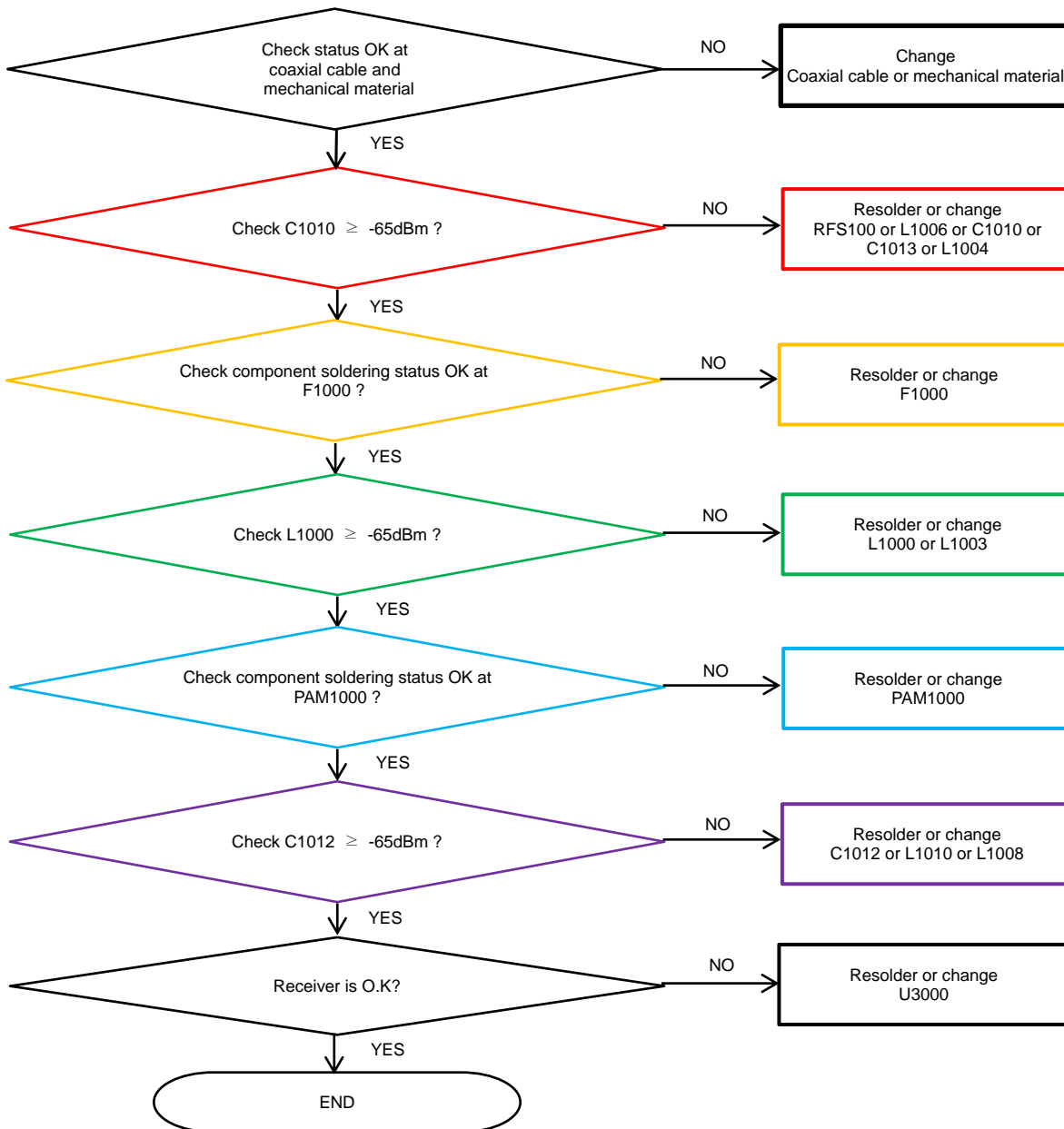
8. Level 3 Repair

8-4-22. DeX Station



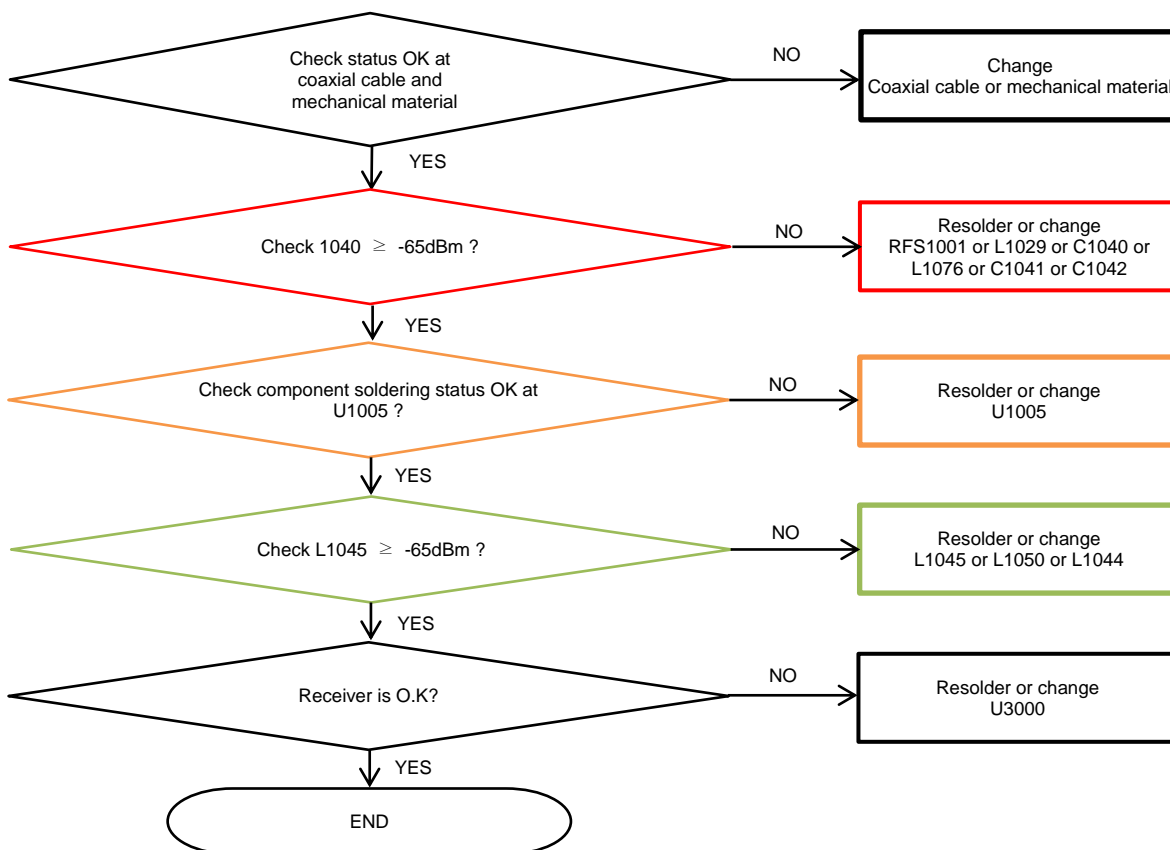
8. Level 3 Repair

8-4-23. GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 PRx



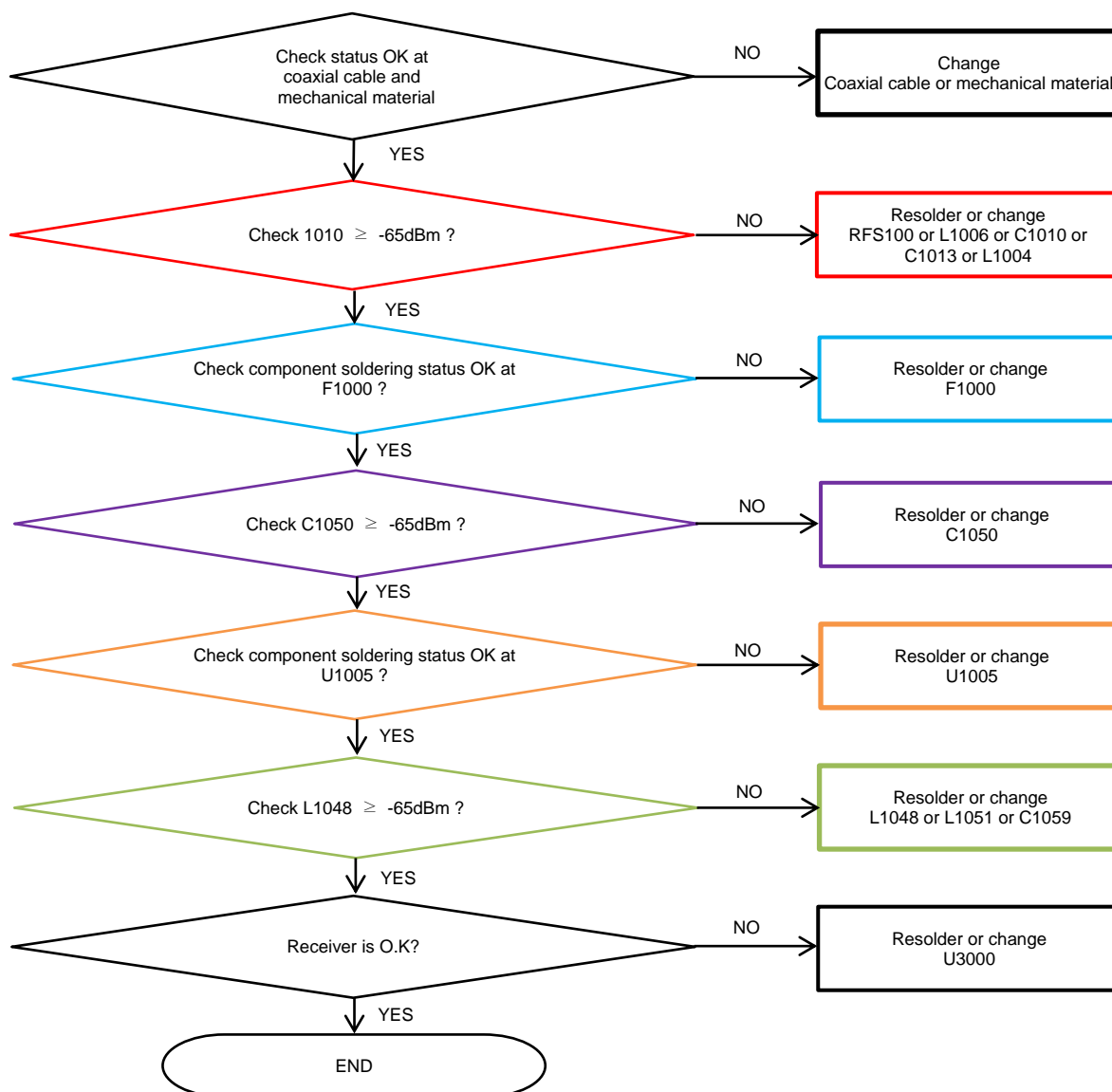
8. Level 3 Repair

8-4-24. TDSCDMA B38/40/41, LTE B7/38/40/41 PRx



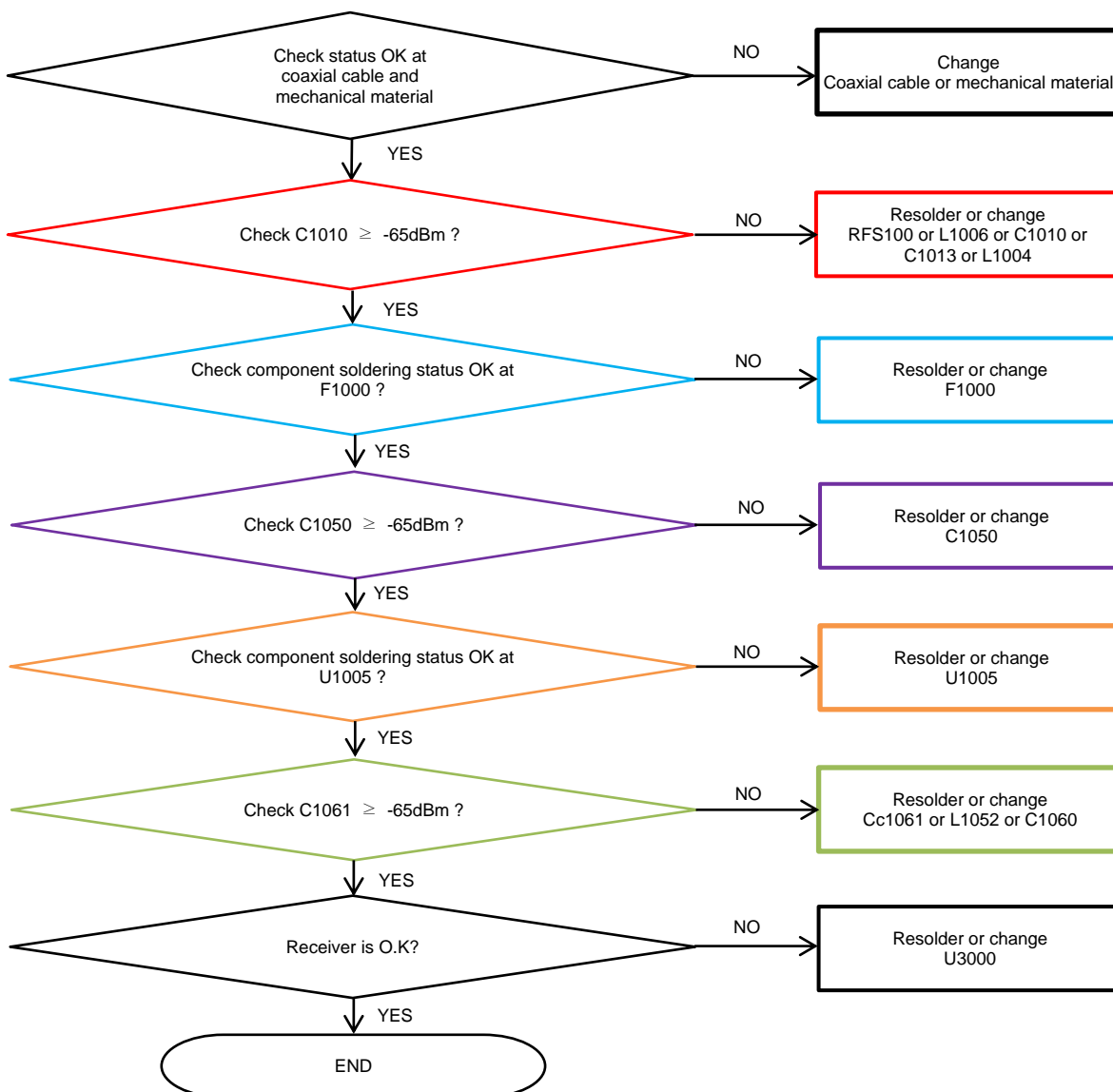
8. Level 3 Repair

8-4-25. DCS1800/PCS1900, WCDMA B2, LTE B2/3/25 PRx



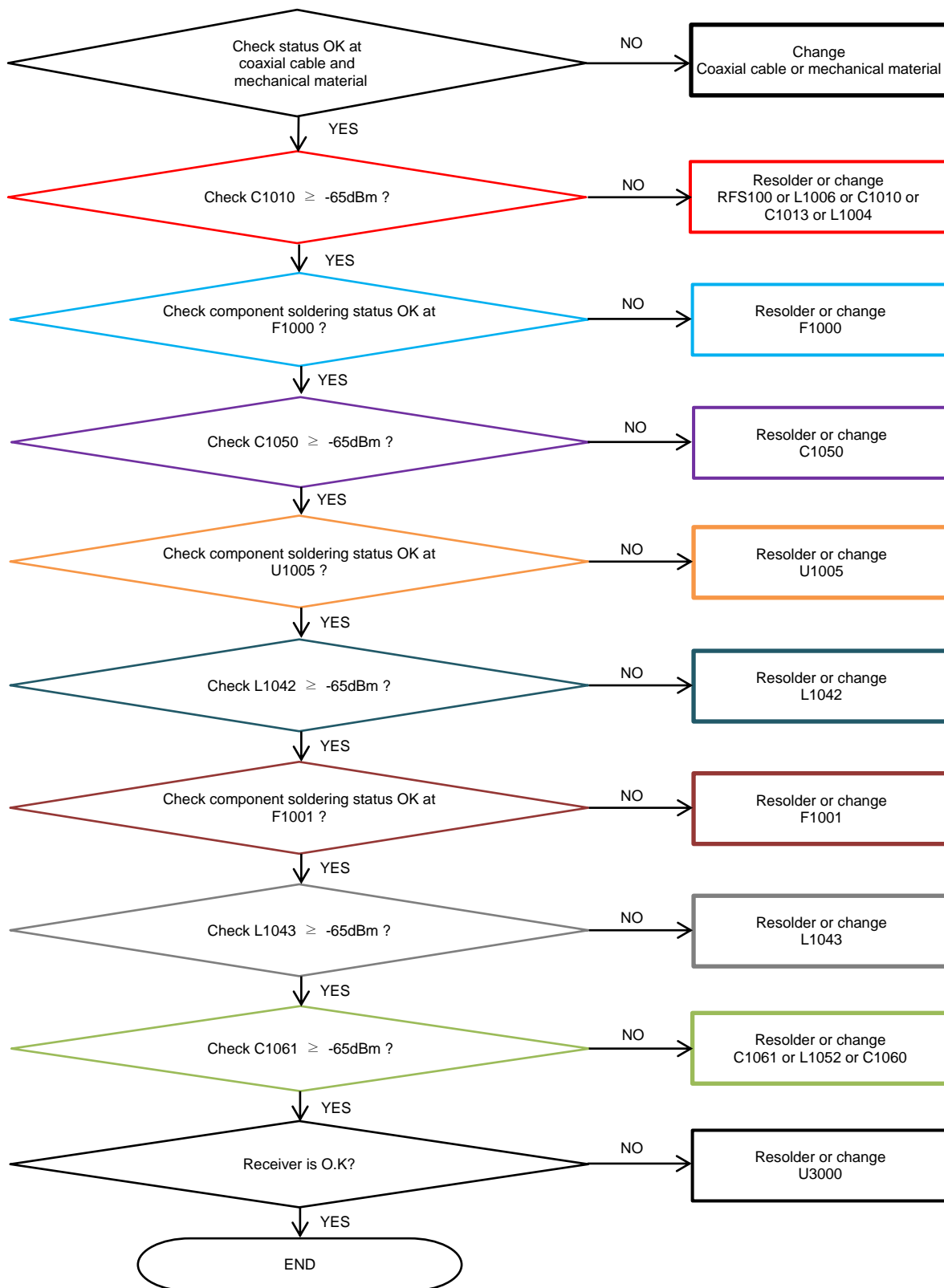
8. Level 3 Repair

8-4-26. WCDMA B1/4, TDSCDMA B39, LTE B1/4/39/66 PRx



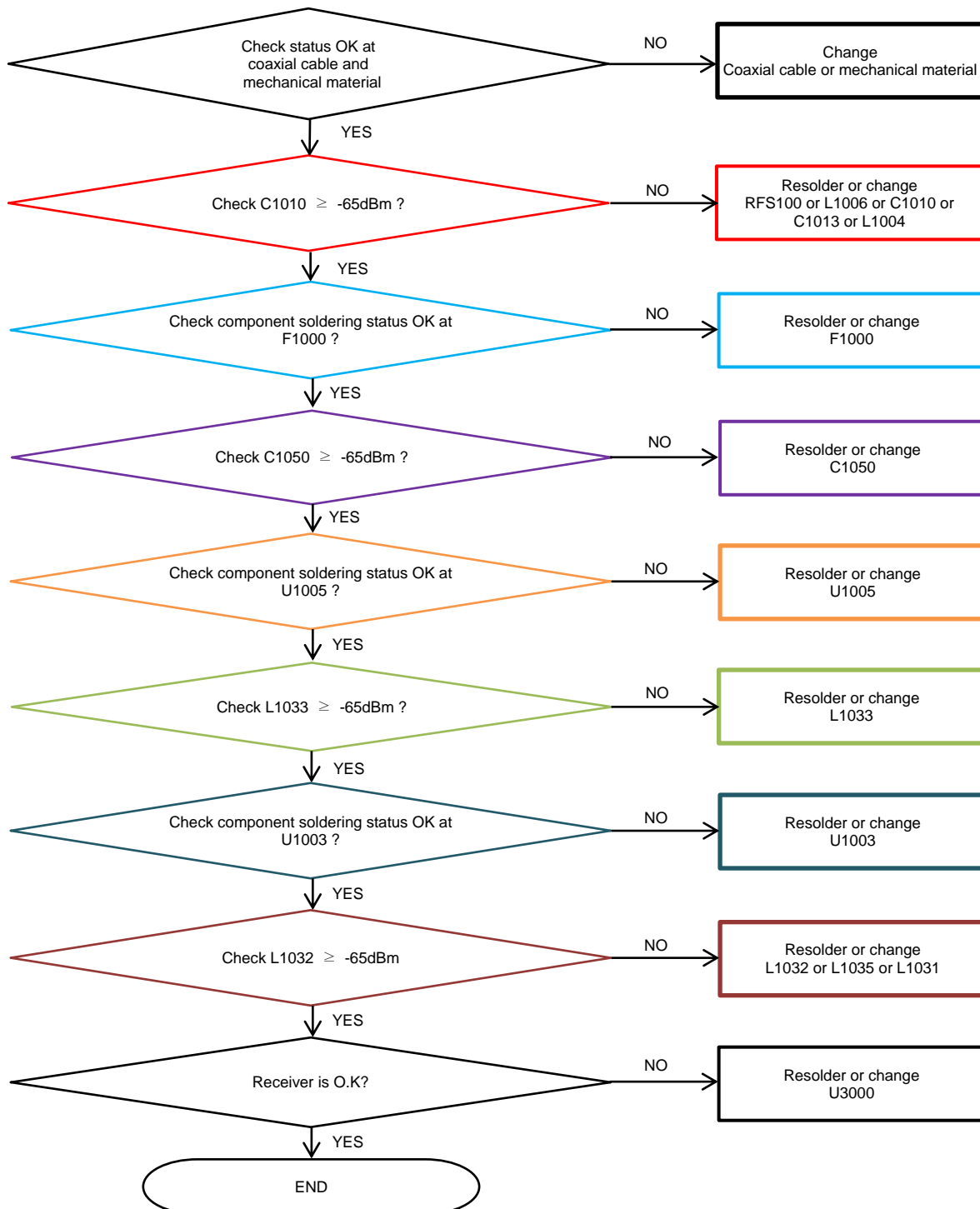
8. Level 3 Repair

8-4-27. TDSCDMA B34, LTE B34 PRx



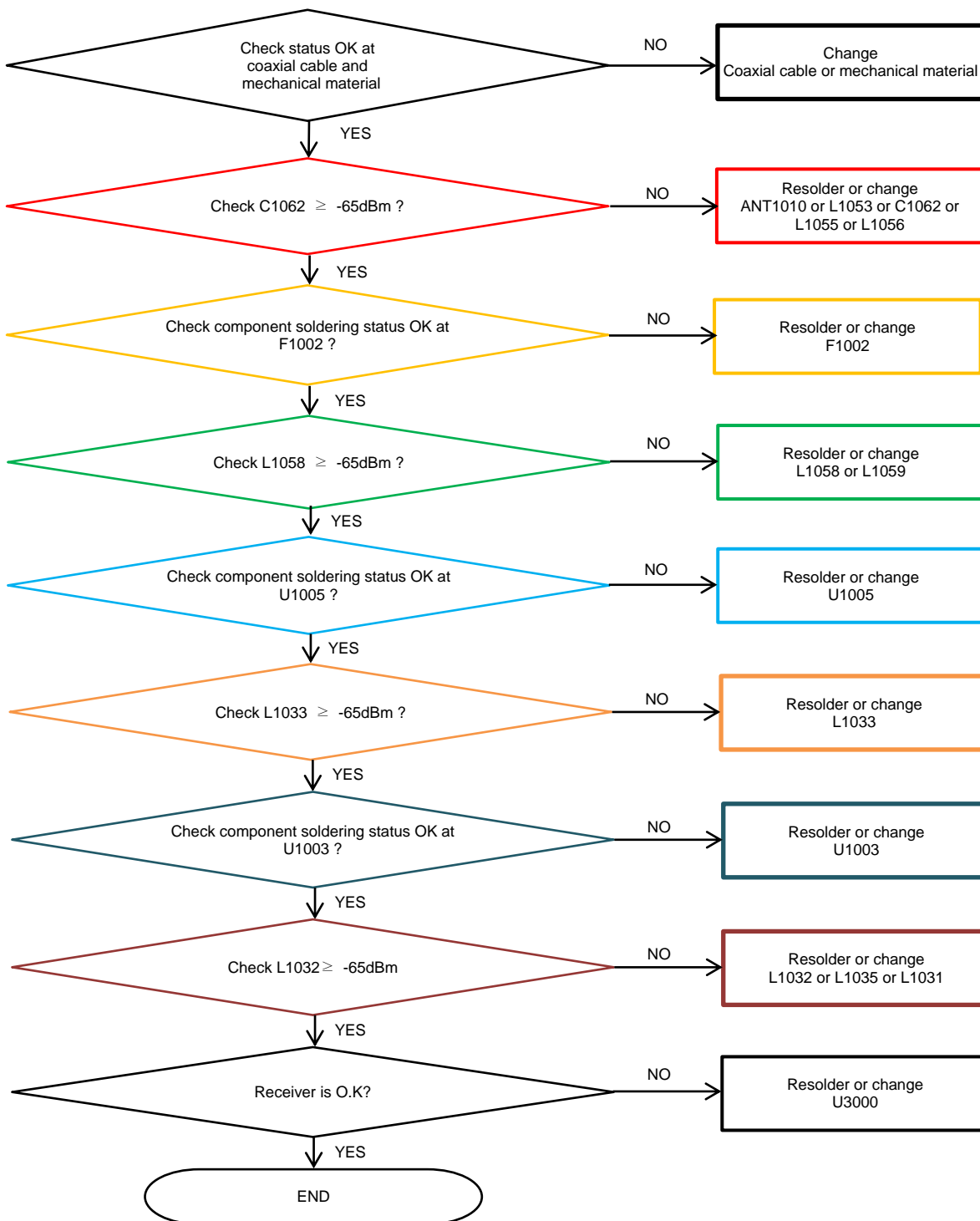
8. Level 3 Repair

8-4-28. LTE B32 PRx



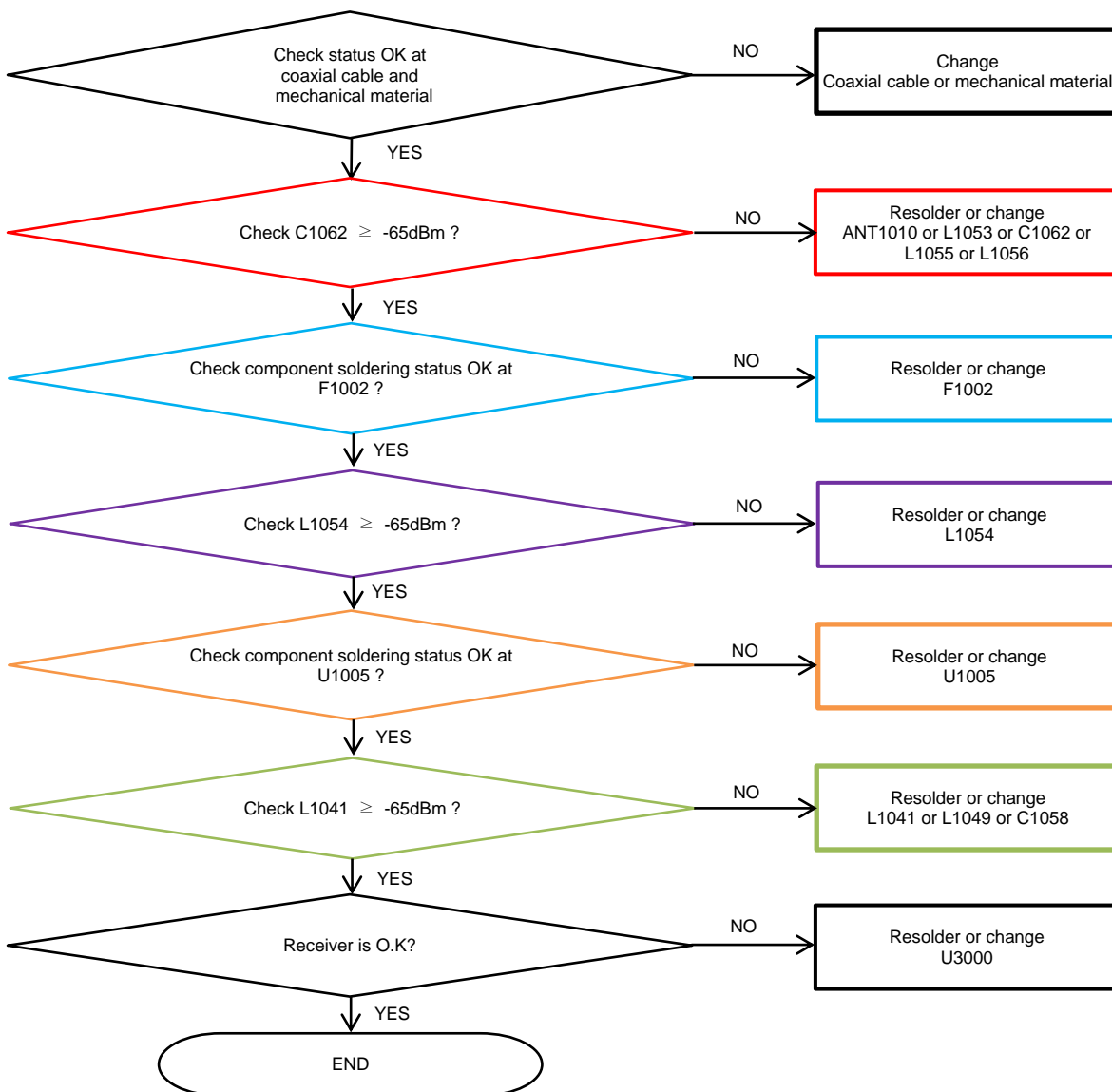
8. Level 3 Repair

8-4-29. LTE B1/4 4Rx_PRx



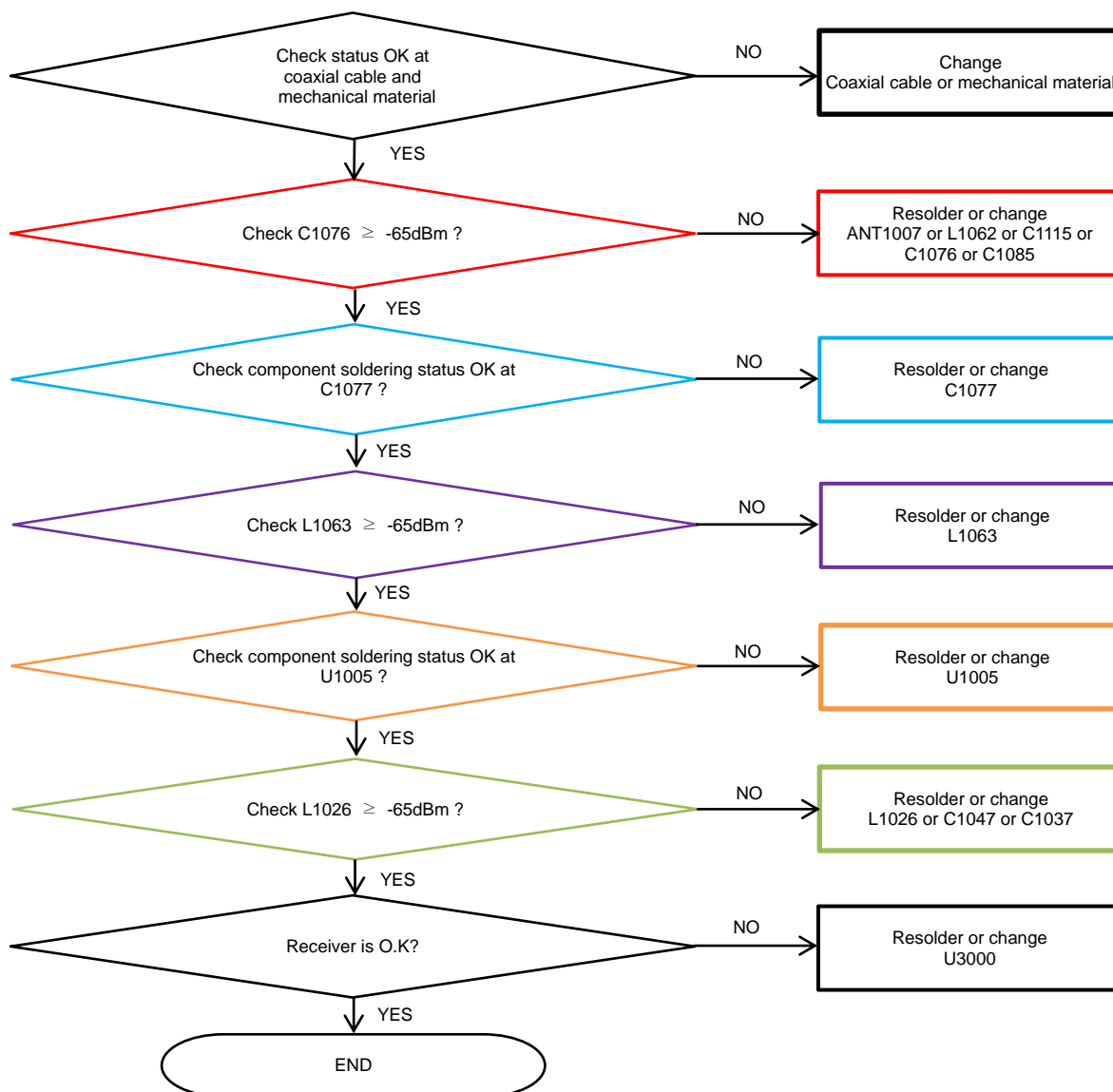
8. Level 3 Repair

8-4-30. LTE B3 4Rx_PRx



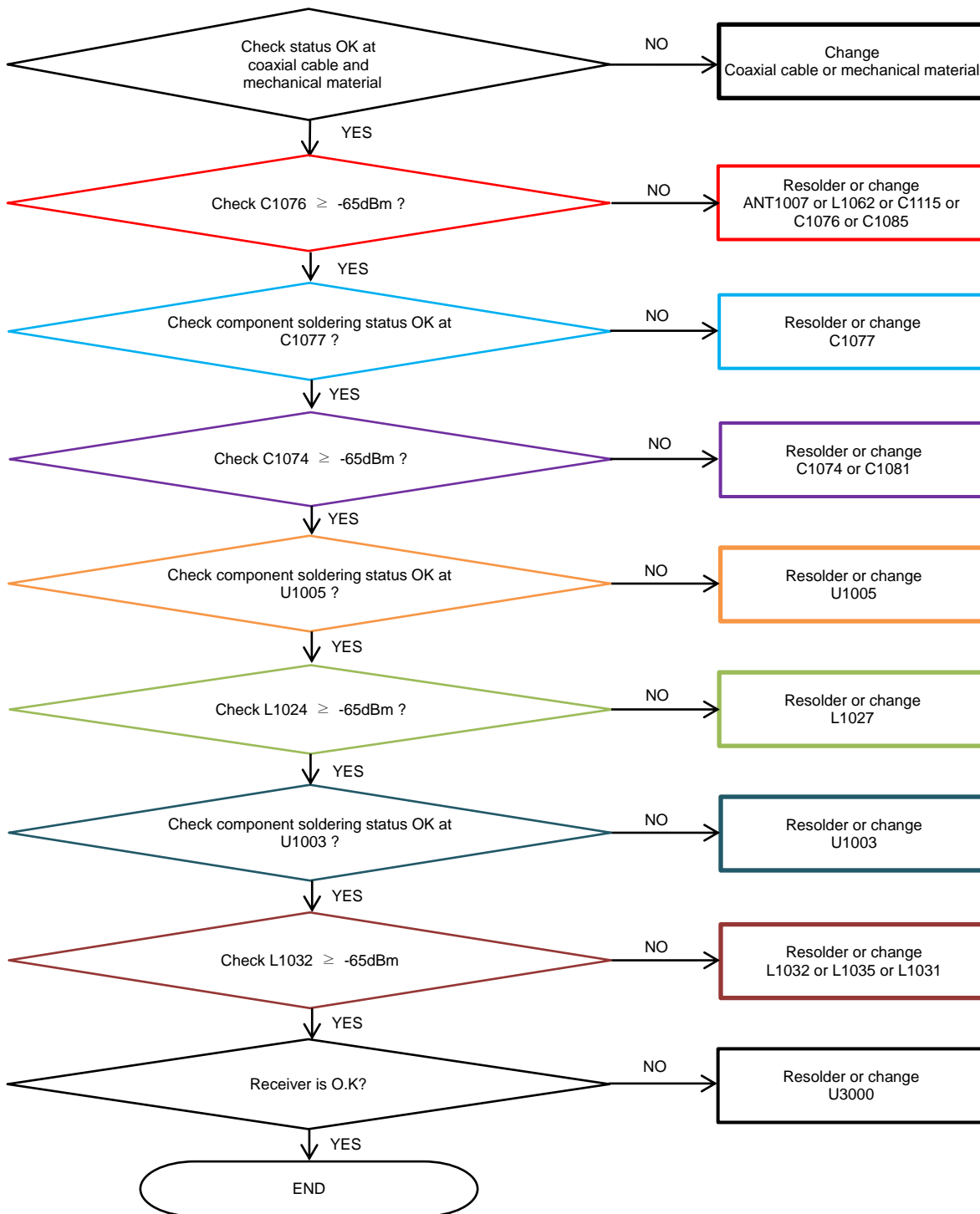
8. Level 3 Repair

8-4-31. LTE B7 4Rx_PRx



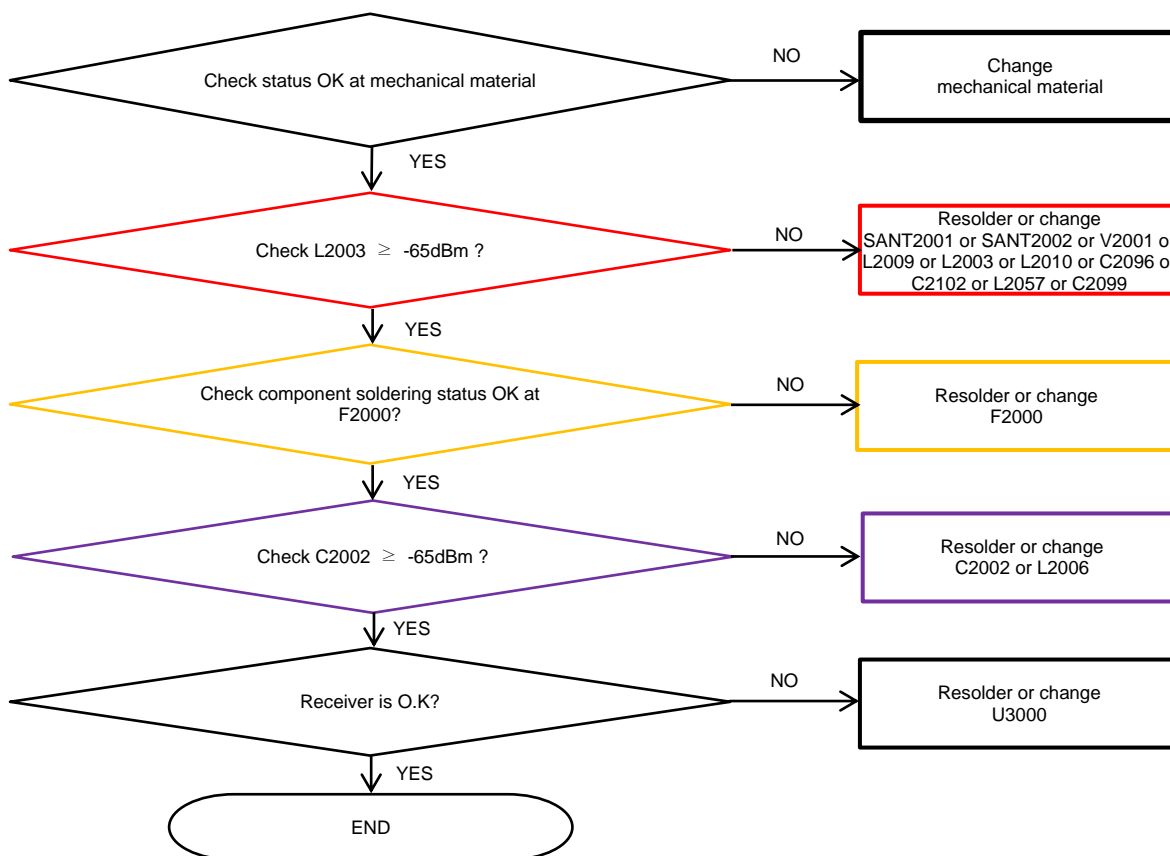
8. Level 3 Repair

8-4-32. LTE 40 4Rx_PRx



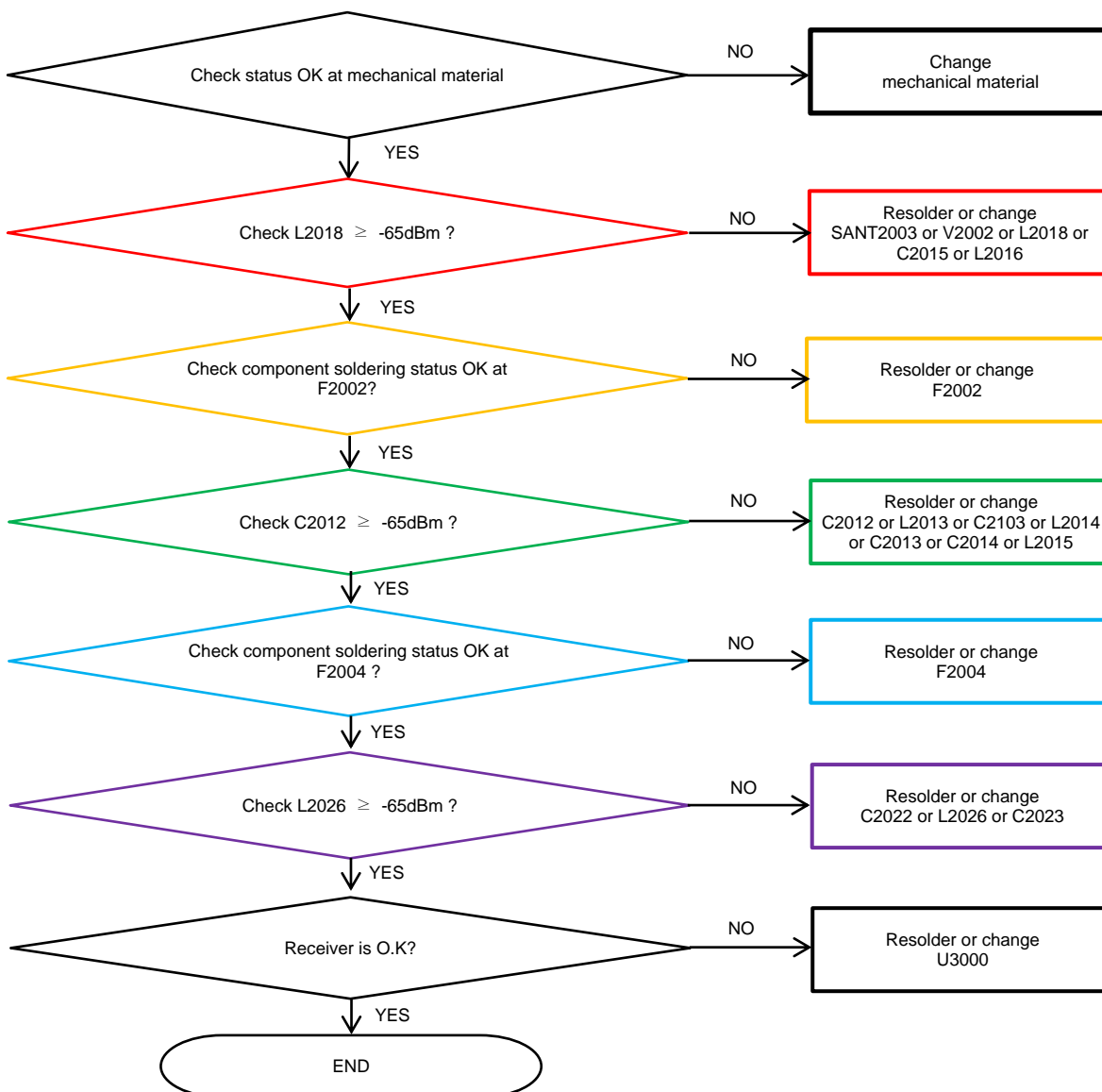
8. Level 3 Repair

8-4-33. GSM850/900, WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 DRx



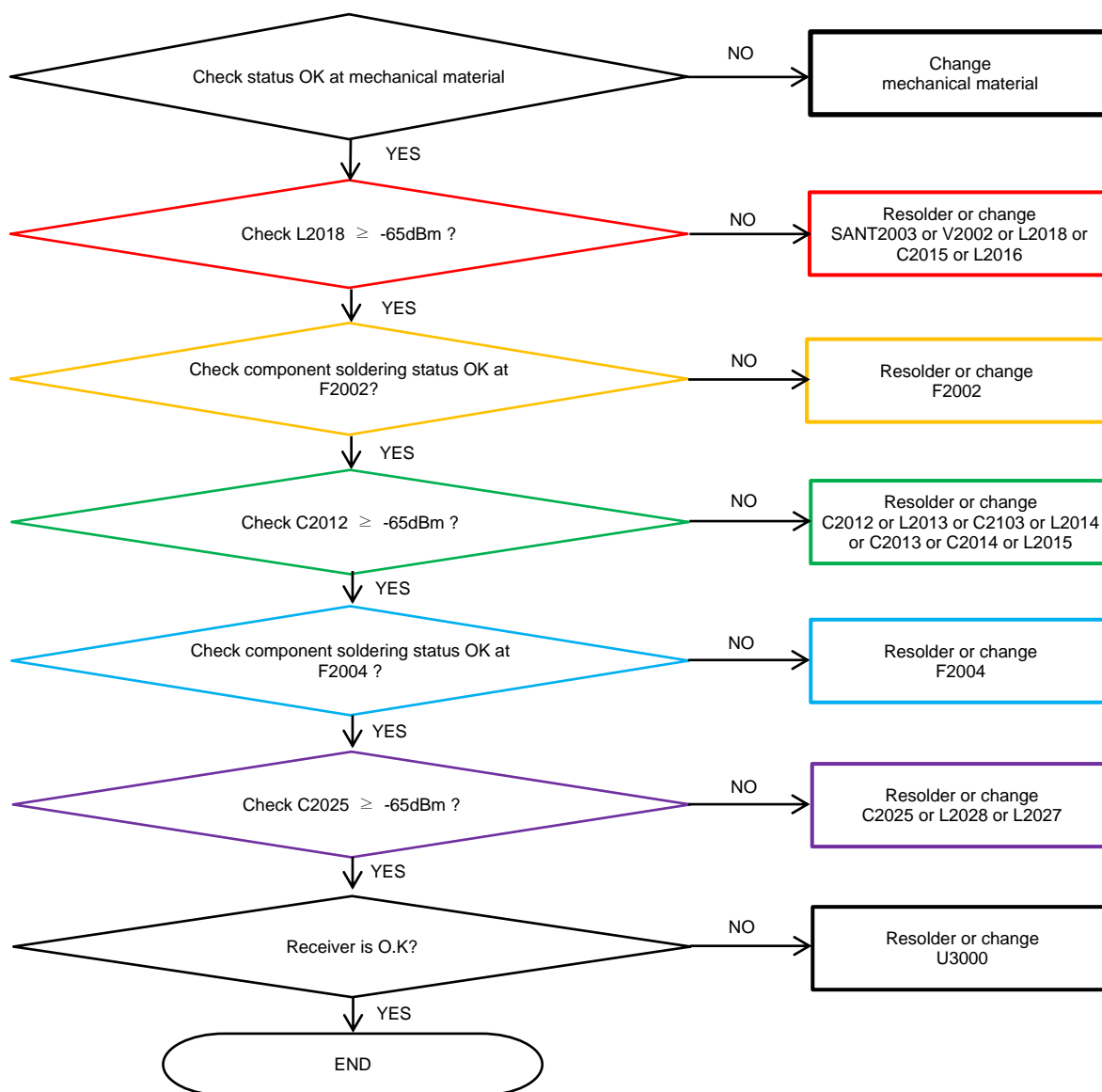
8. Level 3 Repair

8-4-34. DCS1800/PCS1900, WCDMA B2, LTE B2/3/25 DRx



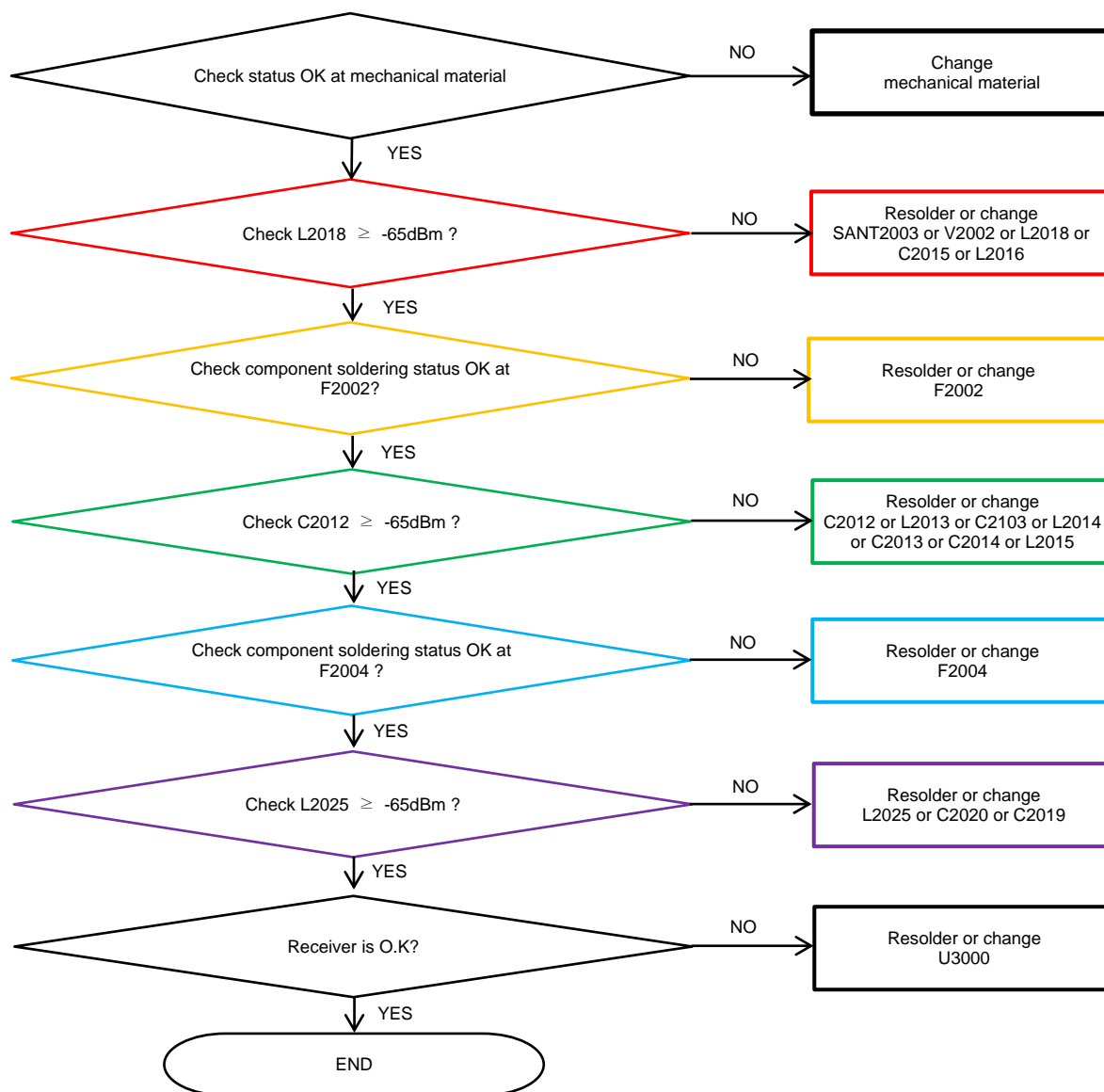
8. Level 3 Repair

8-4-35. WCDMA B1/4, LTE B1/4/32/66 DRx



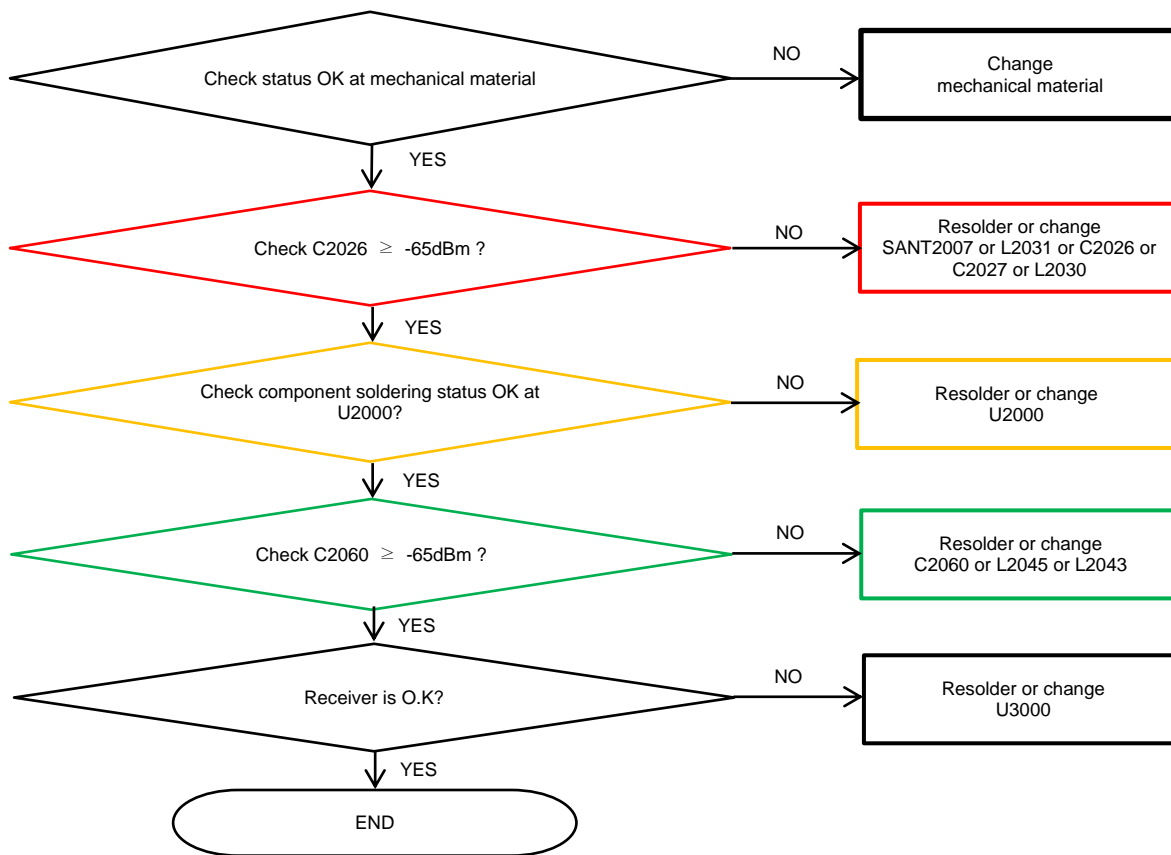
8. Level 3 Repair

8-4-36. TDSCDMA B38/40/41, LTE B7/38/40/41 DRx



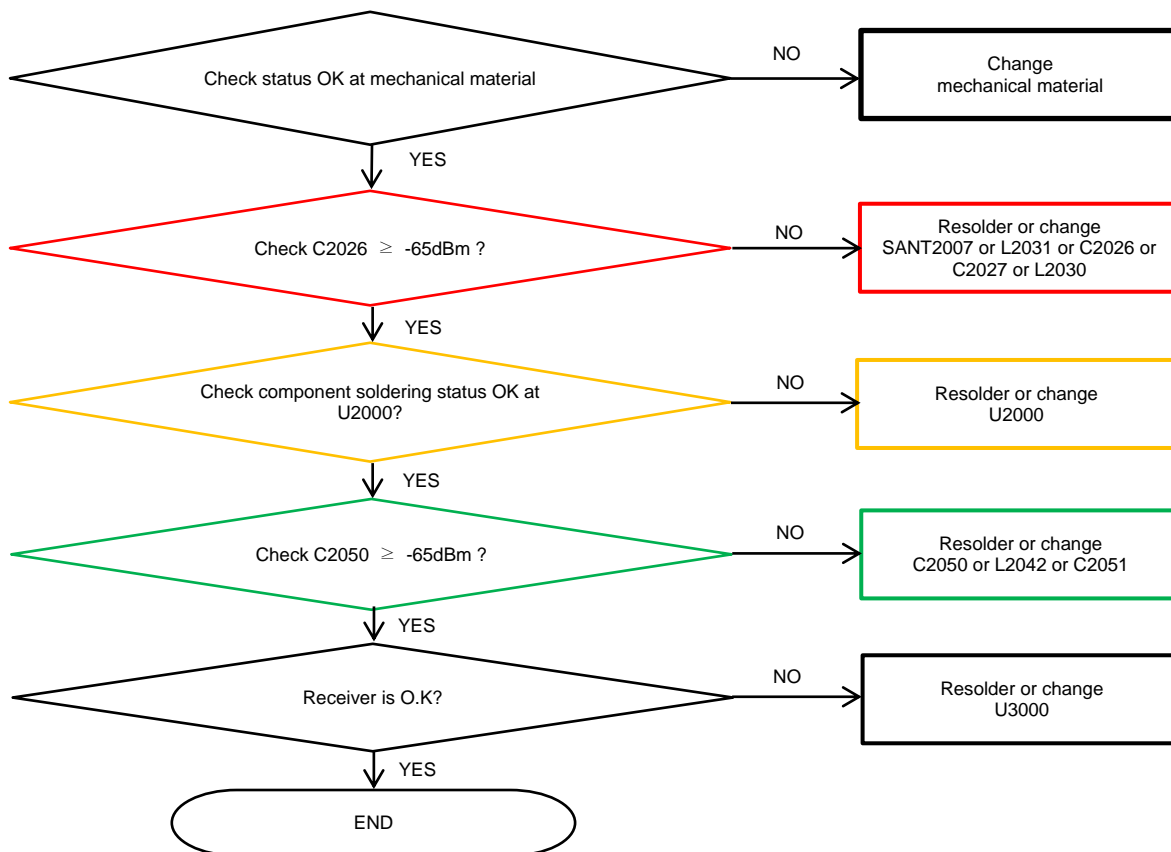
8. Level 3 Repair

8-4-37. LTE B1/4 4Rx_DRx



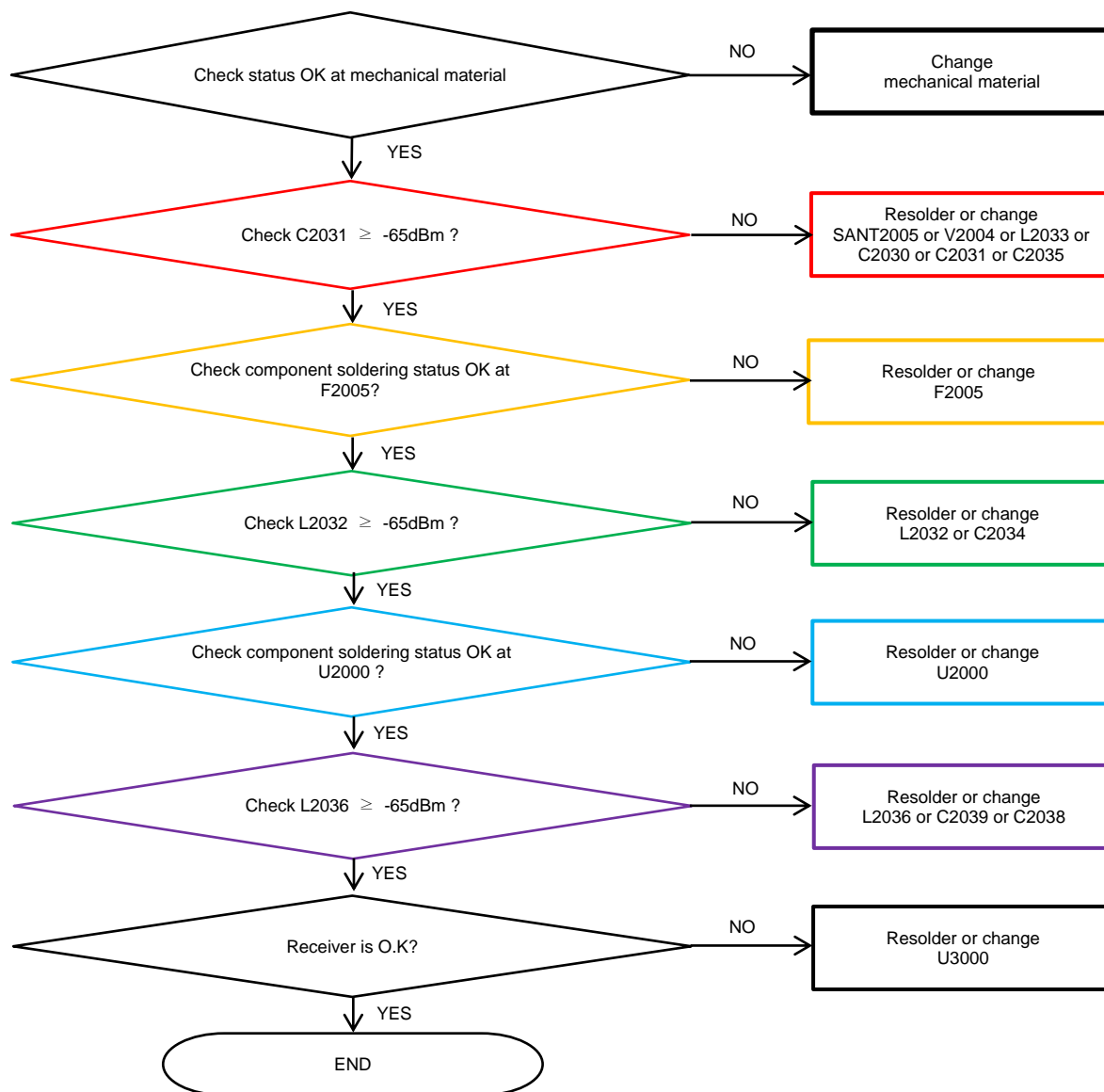
8. Level 3 Repair

8-4-38. LTE B3 4Rx_DRx



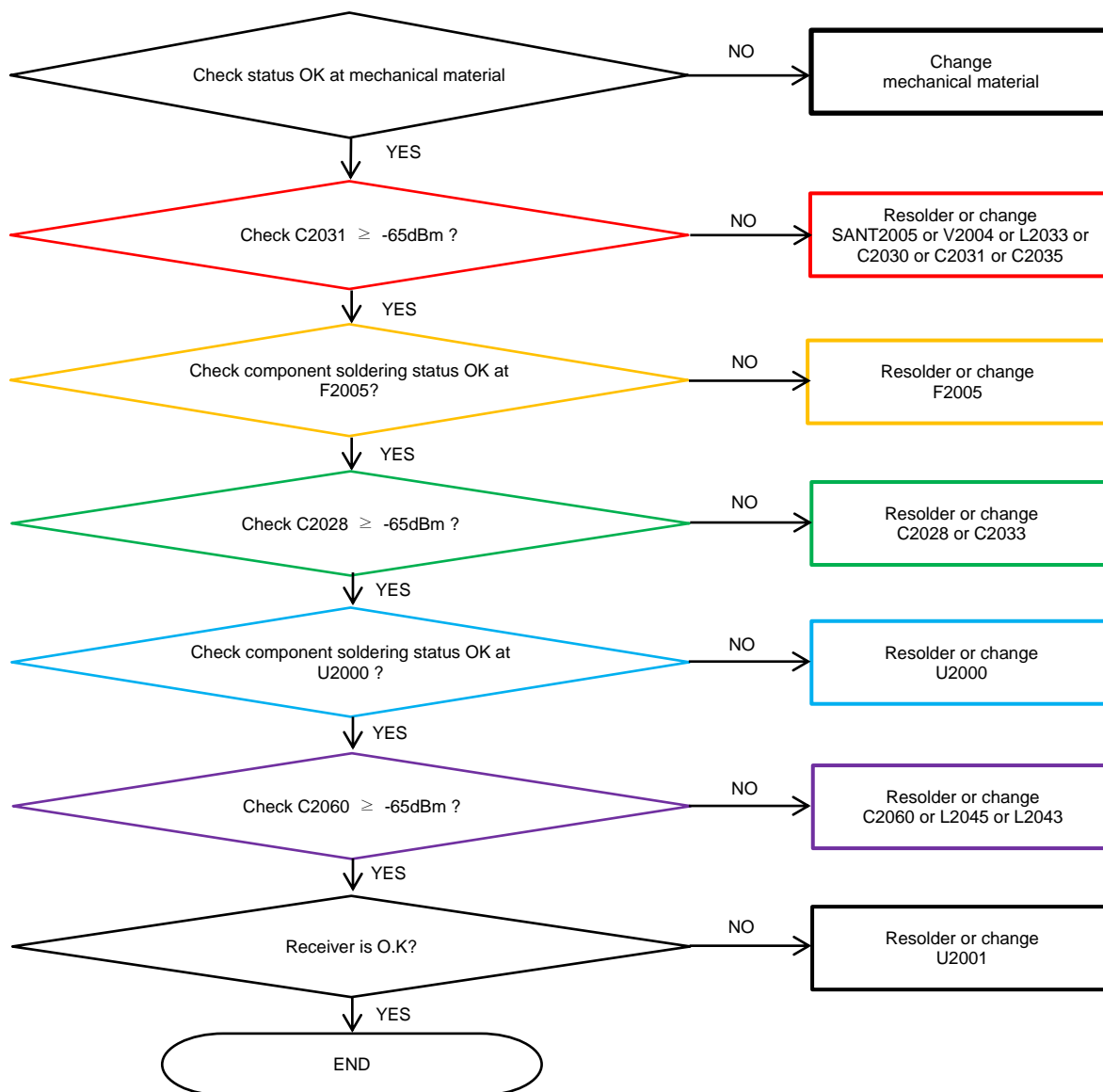
8. Level 3 Repair

8-4-39. LTE B7 4Rx_DRx



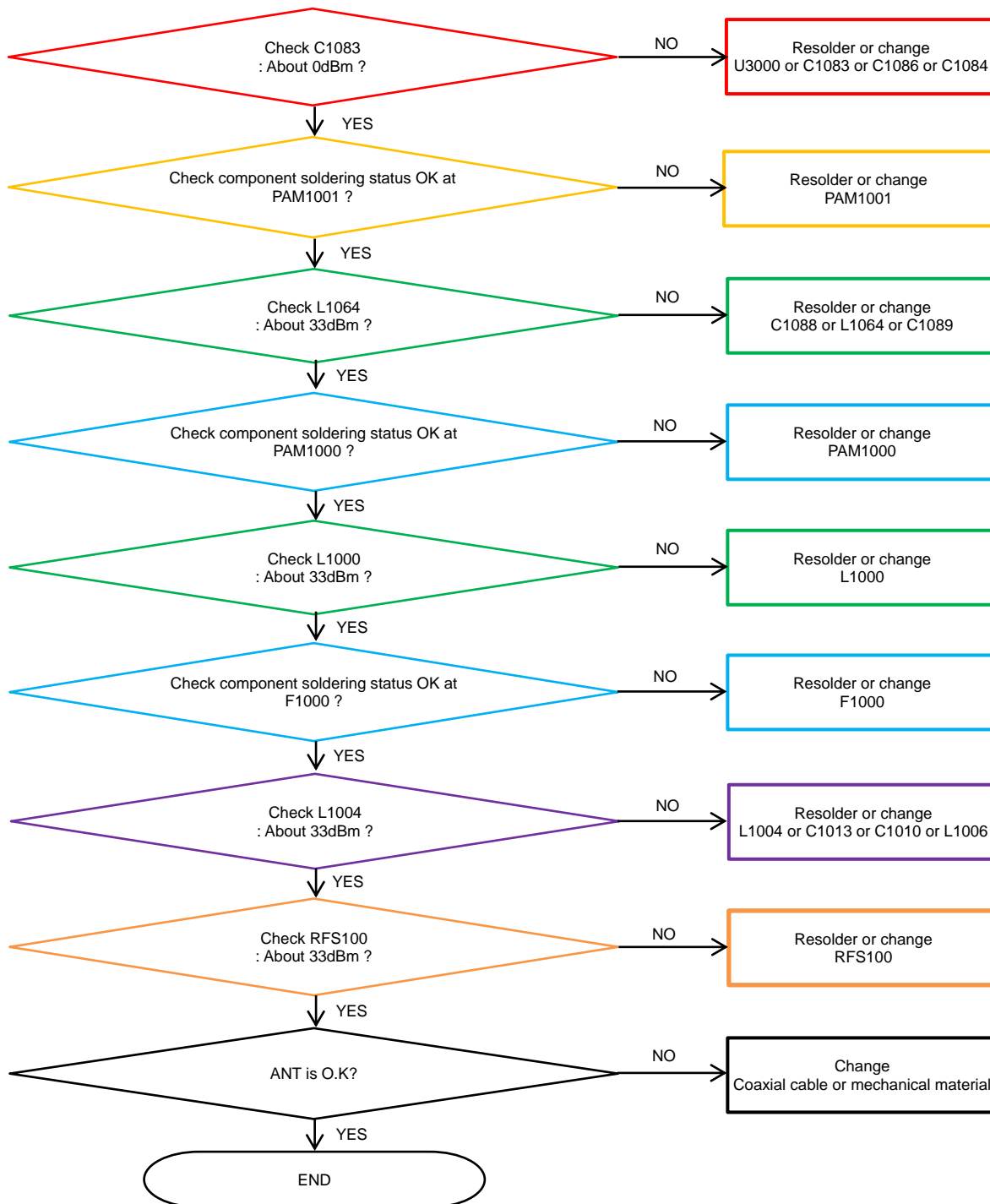
8. Level 3 Repair

8-4-40. LTE B40 4Rx_DRx



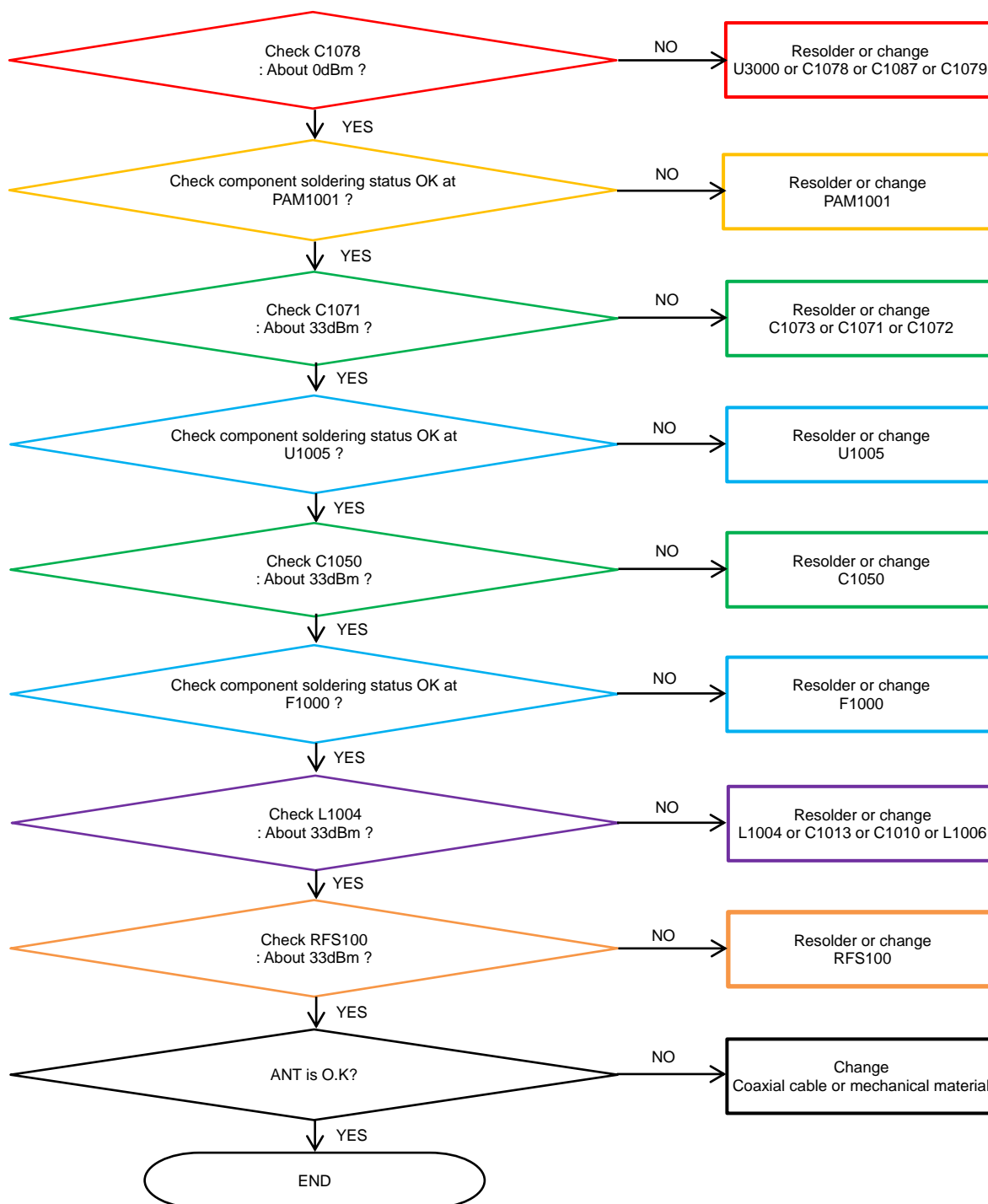
8. Level 3 Repair

8-4-41. GSM 850/900 Tx



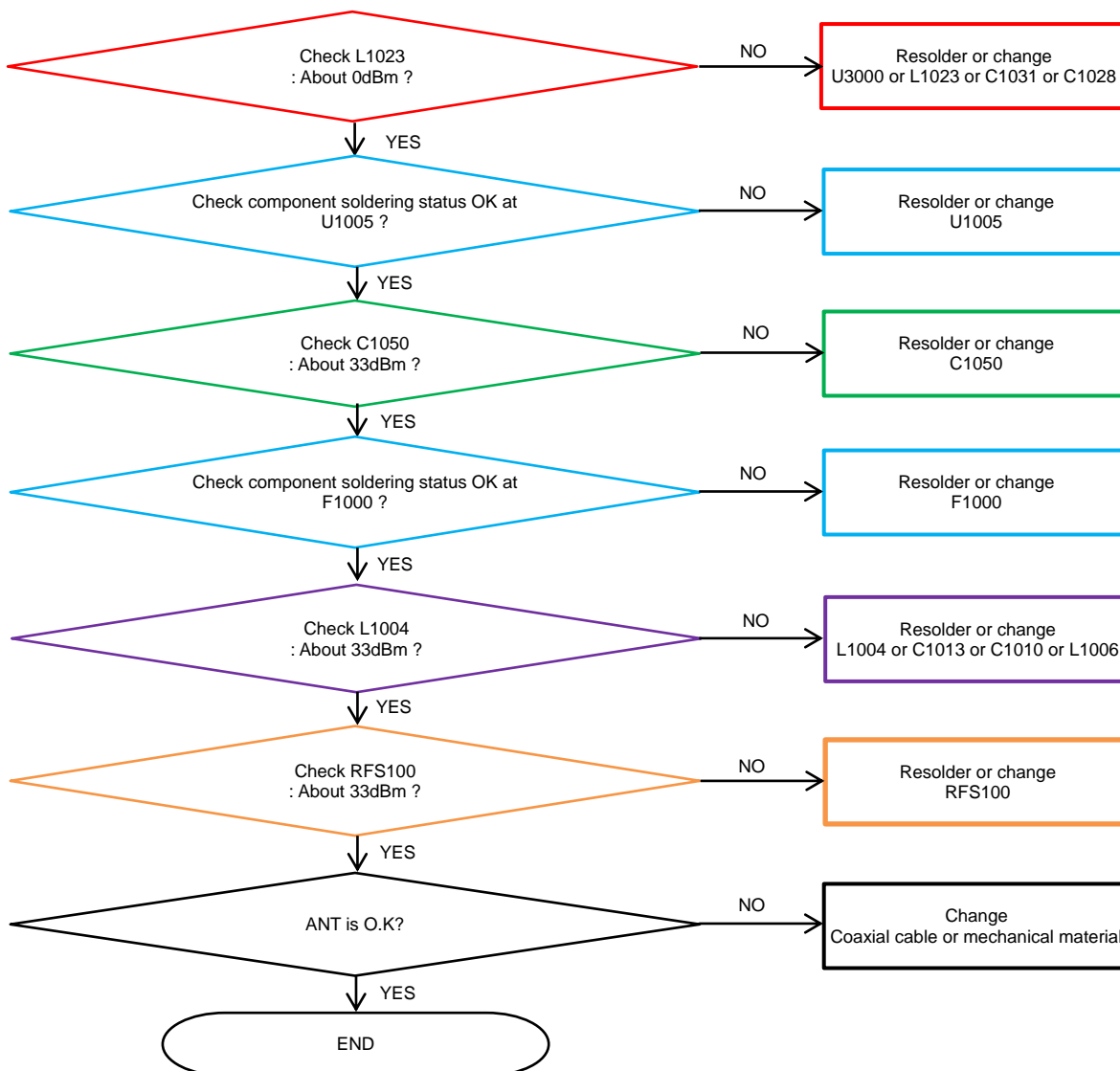
8. Level 3 Repair

8-4-42. DCS1800/PCS1900 Tx



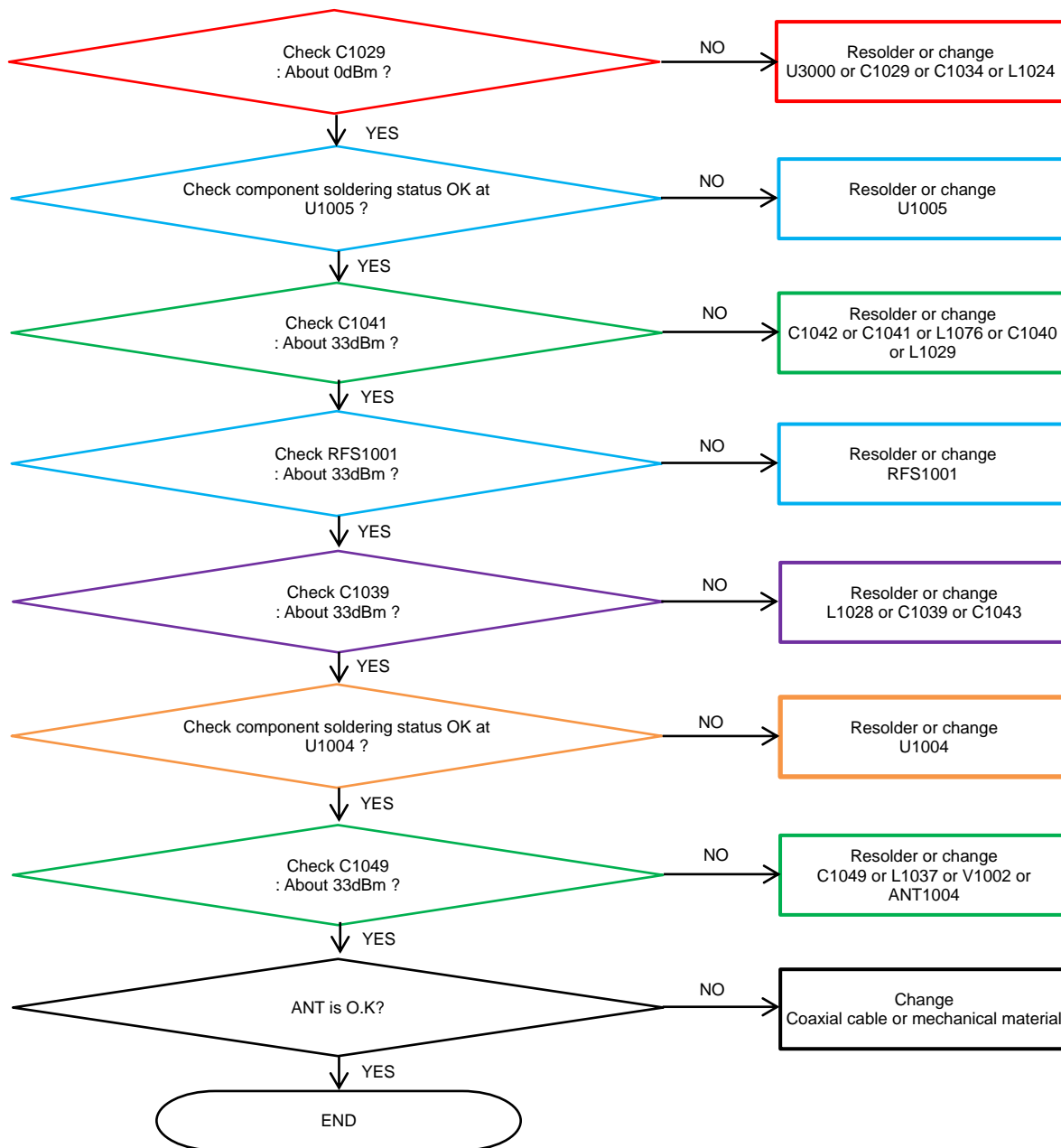
8. Level 3 Repair

8-4-43. WCDMA B1/2/4, TDSCDMA B34/39, LTE B1/2/3/4/25/34/39 Tx



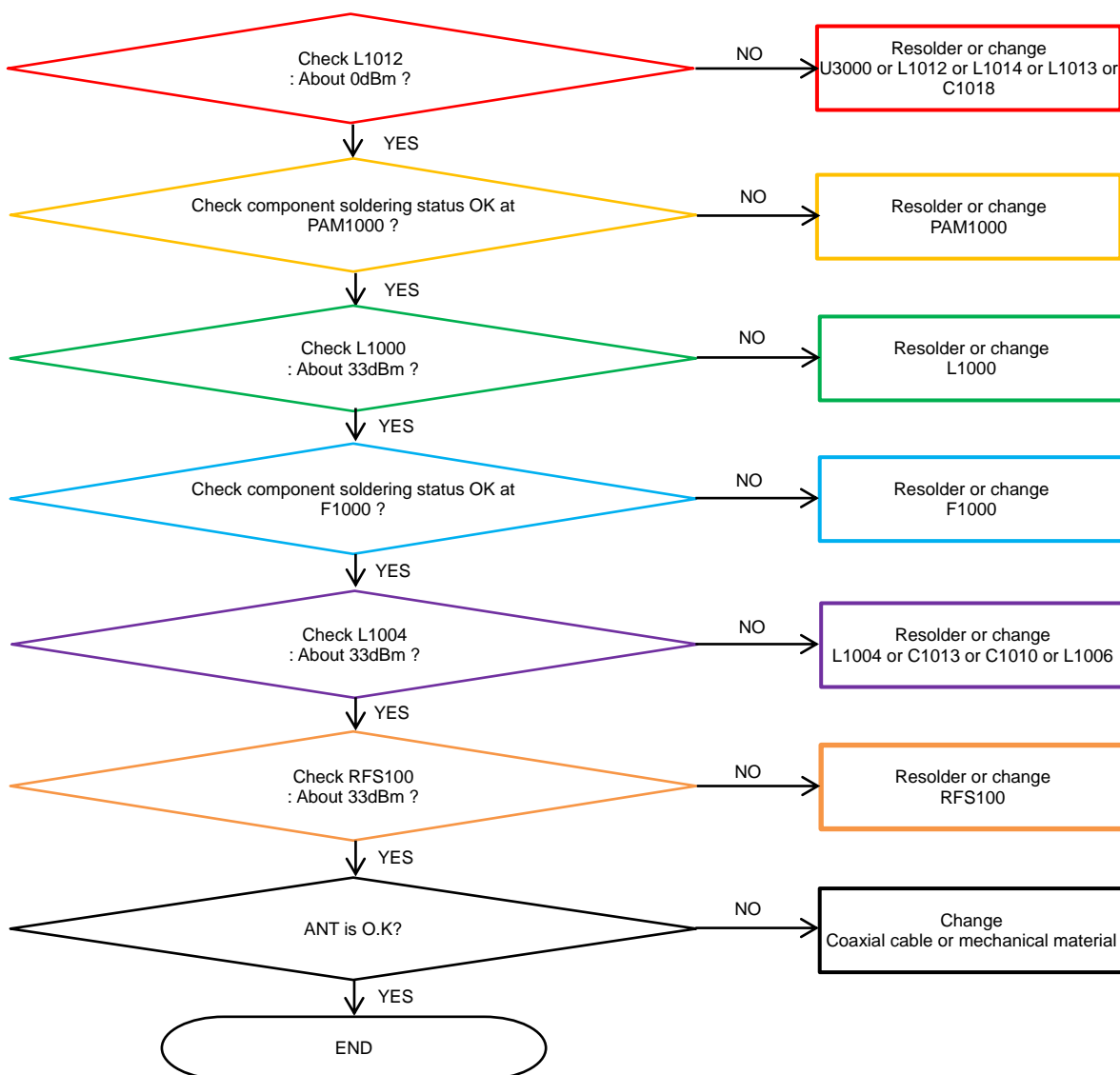
8. Level 3 Repair

8-4-44. TDSCDMA B38/40/41, LTE B7/38/40/41 Tx



8. Level 3 Repair

8-4-45. WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 Tx



8. Level 3 Repair

8-5. Service Schematics

- AP Top view

