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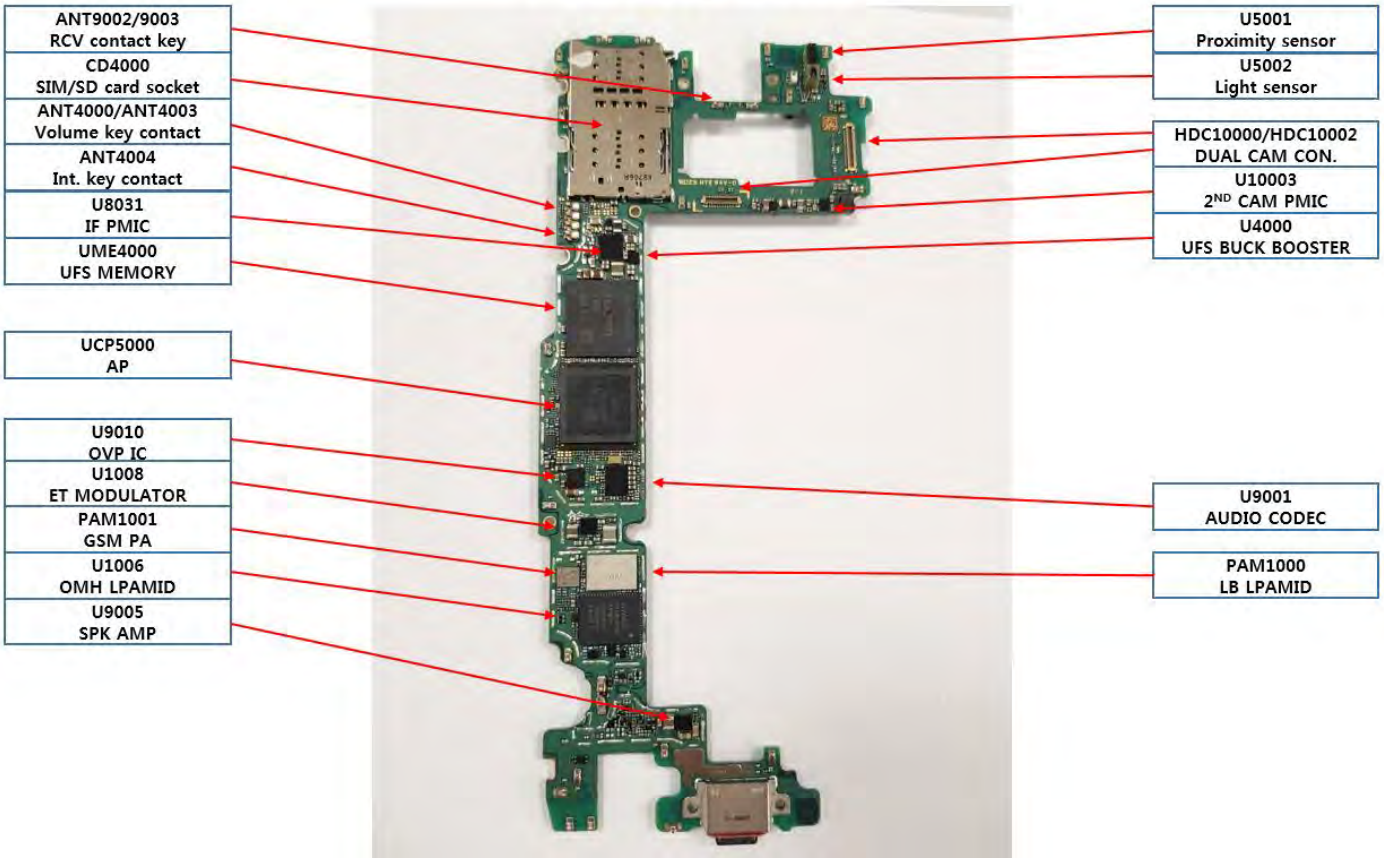
8. Level 3 Repair

8-1. Components Layout

PBA(Top side)



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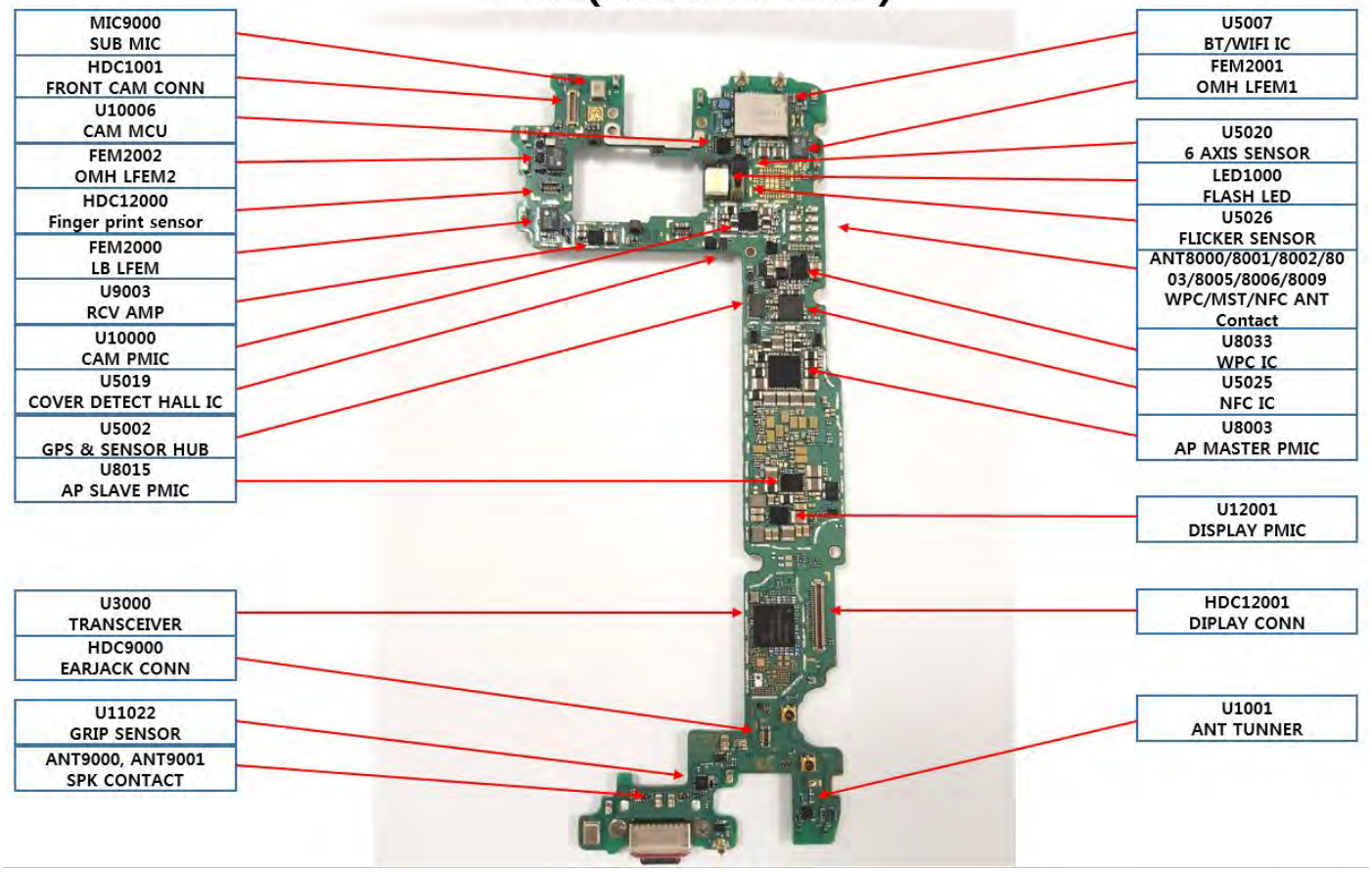
8. Level 3 Repair

PBA(Bottom side)



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BEYOND0 REV0.7A EUR/KOR

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MAIN ANT 4
MAIN ANT 2
MAIN ANT 1-2
MAIN ANT 1-1
SUB ANT 1
SUB ANT 3
SUB ANT 2

RFFE #0
ETDAC_CH0
S761 ET Modulator (U1008)
LB LPAMID
OMH LPAMID
2G PAM

B7/B40 4RX
B1/3 4RX
HB B7/38/40/41
TRX_ANT_MB
TX_ANT_LB
DRX_ANT_LB
DRX_B7_4RX
DRX_B40_4RX
DRX_ANT_MB_4RX (B1/3/4/66_4RX,B39)
B32_DRX
DRX_ANT_MHB1

OMH LPAMiD (AFEM-9100-SG1)
2G PAM (SKY77365-11)
LB LPAMiD (LMTWDVFA-J51)
LB LFEM (HFQRX4WJB-361)
OMH LFEM2 (HFQRX4WJB-409)
OMH LFEM1 (HFQRX4WJB-409)

B34 Saw
B38_41 Saw
B39 Saw

2G HB
2G LB

PRX_TR_IN_B40_SCC
PRX_TR_IN_B32_B1_4_40_66_4RX
PRX_TR_IN_B7_4RX
PRX_TR_IN_GSMHB_B2_3_25
PRX_TR_IN_B1_4_34_39_66
PRX_TR_IN_B3_4RX
PRX_TR_IN_B7_38_40_41
TX1_TR_OUT_B7_38_40_41
TX1_TR_OUT_B1_2_3_4_25_34_39
TX2_TR_OUT_GSMHB
TX2_TR_OUT_GSMLB
TX1_TR_OUT_B5_8_12_13_17_18_19_20_26_28
PRX_TR_IN_GSMLB_B5_8_12_13_17_18_19_20_26_28
DRX_TR_IN_GSMLB_B5_8_12_13_17_18_19_20_26_28
DRX_TR_IN_B1_4_40_66_4RX
DRX_TR_IN_B39_B3_4RX
DRX_TR_IN_B7_4RX
DRX_TR_IN_B1_4_32_66_B40_SCC
DRX_TR_IN_GSMHB_B2_3_25
DRX_TR_IN_B7_38_40_41

DRX_UHBLAA2
PRX_UHBLAA2
PRX_LMH
PRX_MHB5
PRX_MHB1
PRX_MHB3
PRX_MHB2
PRX_MHB4
PRX_MHB6
TX1_MHB3
TX1_MHB2
TX2_MHB1
TX2_LB1
TX1_LB1
PRX_LB1
DRX_LB1
DRX_MHB5
DRX_MHB4
DRX_MHB1
DRX_MHB2
DRX_MHB3
DRX_MHB6

Transceiver
SHANNON975

BT/WiFi ANT

TDMB (KOR only) FC8080
24MHz
TDMB_SPI
32K CLK from AP/CP PMIC
BT/WIFI SWB-E43
PCM
PCIe(WiFi)
UART(BT)
COPR SPI from DDI
GPS/ SENSOR HUB BCM4775
26MHz
32K CLK from AP PMIC
LNA
I2C 6AXIS_SPI
Light(Flicker) (TCS34077)
Prox (TMD4906)
Barometer (LPS22HH)
Magnetic (AK09918C)
6 Axics (LSM6DSO)
SHUB SPI
UART(CP)
26MHz
CAM_SPI From CAM MCU
Hall IC
INT
Flicker Sensor (TCS34077SH235H)
INT
NFC SEN82LB
CLK
I2C
ESE_SPI
T-flash
SIM
SIM1 IF
TX I/Q(Analog)
Marconi I/F (Rx Digital)
UFS Memory (128GB)
MIPI 2 lane
BOOT_LDO
1.80V
2.95V
Buck Booster (S2ABB02)
VBAT
I2C
2V
TCXO 52MHz
TCXO 26M
TCXO_FAR_26M_AP
GPS/Sensor Hub BT/WiFi Codec
X-TAL 32.768 KHz
AP/CP Master PMIC S2MPS19 (12B/1BB/29L) (Incl. Modem Power /TCXO Buffer)
32K CLK
PWR
SPEEDY
VBAT
SUB_READY_OK
SUB_POWR_ON
TCXO_26M_PMIC
AP/CP SUB PMIC S2MPS20 (3B/12L) (Incl. Modem Power)
PWR
SPEEDY
VBAT

TDMB_ANT
FM_ANT
SPDT (KOR) BGS12SN6
TDMB FM ANT
FM RADIO (KOR only) RTC6213N
I2C
32 KHz CLK From AP/CP PMIC
FM_L/R
CODEC_CLK_26MHz
CODEC_SPI
CODEC I2S
Audio Codec CS47L93
EAR_ADC_3.5
EAR_MIC
EAR OUT L/R
Mic 2
Mic 1
AMP_I2S
I2C
SPK AMP CS35L40
RCV
SPK AMP CS35L40
SPK
COPR SPI
MIPI 4lane
DDI (S6E3FA7)
I2C
Display PMIC S2DOS05
TSP
Display
TSP_I2C
BTP_SPI
BTP
AF I2C
MIPI 4 lane
EEPROM
12M FRS
Actuator
Wide Cam
MCU I2C
CAM SPI
CAM MCU STM32G071
OIS I2C
16M
FF
Super Wide Cam
MIPI 4 lane
I2C
CAM PMIC2 S2MPB03
Front CAM (10MP)
Actuator
EEPROM
MIPI 4 lane
I2C
AF I2C
Flash/Torch Control
I2C
CAM PMIC1 S2MPB02
Flash LED
MST_DATA
I2C
WPC RTx P9320S
WPC
MST_COIL
MST SW S2MIS01
I2C
USB
UART
CHG_DET
IF PMIC MAX77705
SW charger
USB OTG
CCPD
UMIC
Fuel Gauge
LED dr.
V_BATTERY
VBAT
SBU1/2
CC 1/2
CHG_IN_5P0
POK_3P8
USB 2.0/UART
VBAT
OVP/Load SW FPF3788
VBUS_IF_5P0
USB3.0
DP_AUX
DPDT DG2730DN
SBU_OUT
USB Interface Connector Type C

ModAP (AP + CP) EXYNOS9820
4GB LPDDR4X

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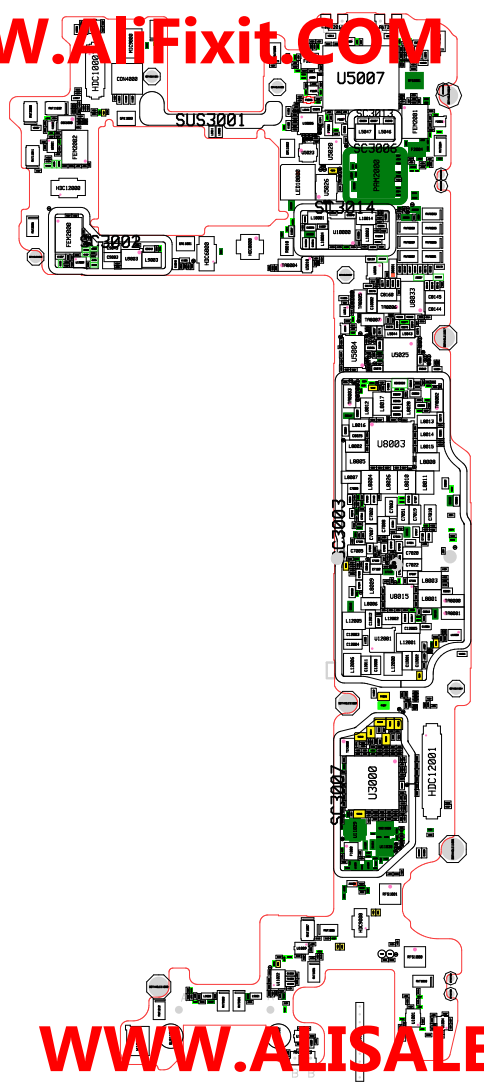

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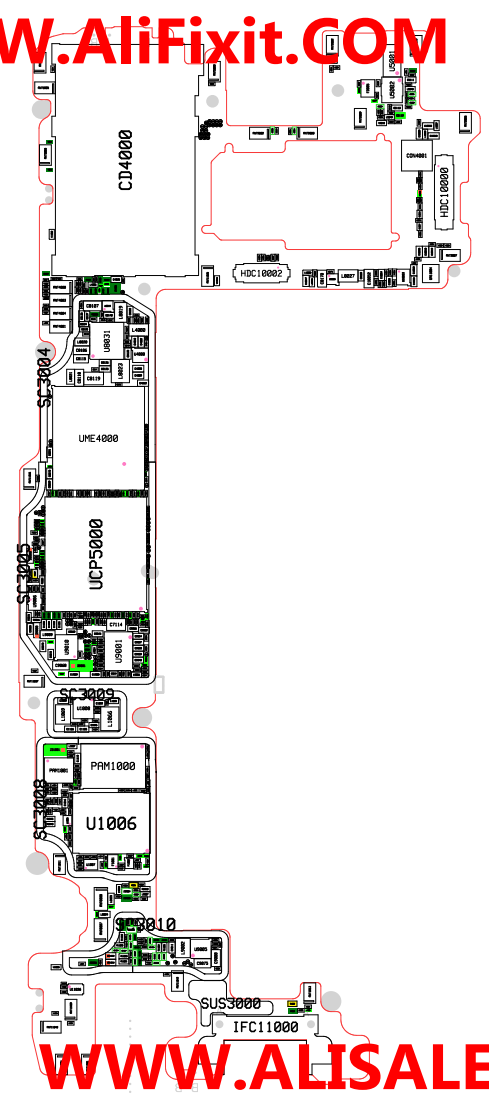

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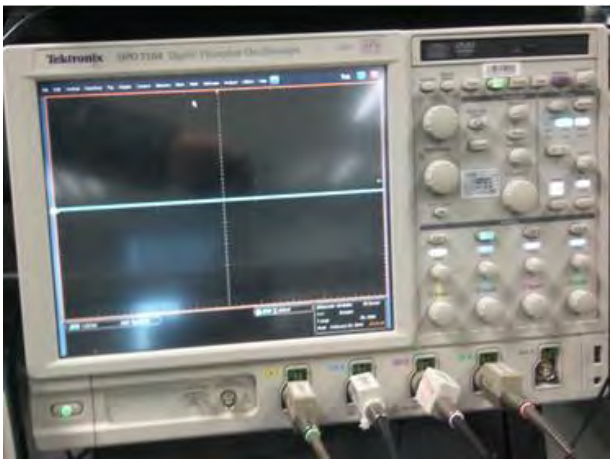
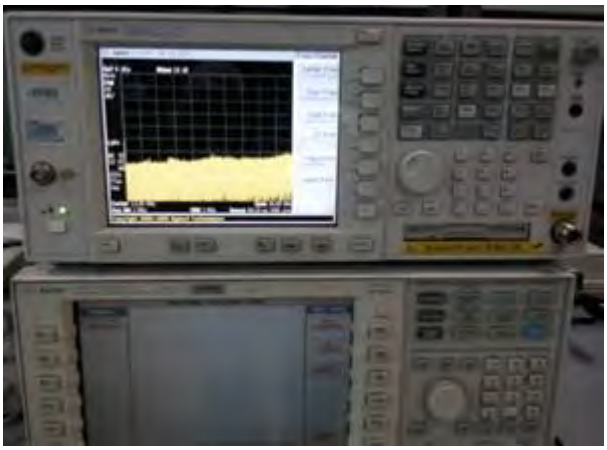
8. Level 3 Repair

8-3. Flow chart of Troubleshooting.

	
Oscilloscope	**Digital Multimeter**
Power Supply	**+ driver, ESD Safe Tweezer**
	
8960 & Spectrum Analyzer	**Soldering iron**

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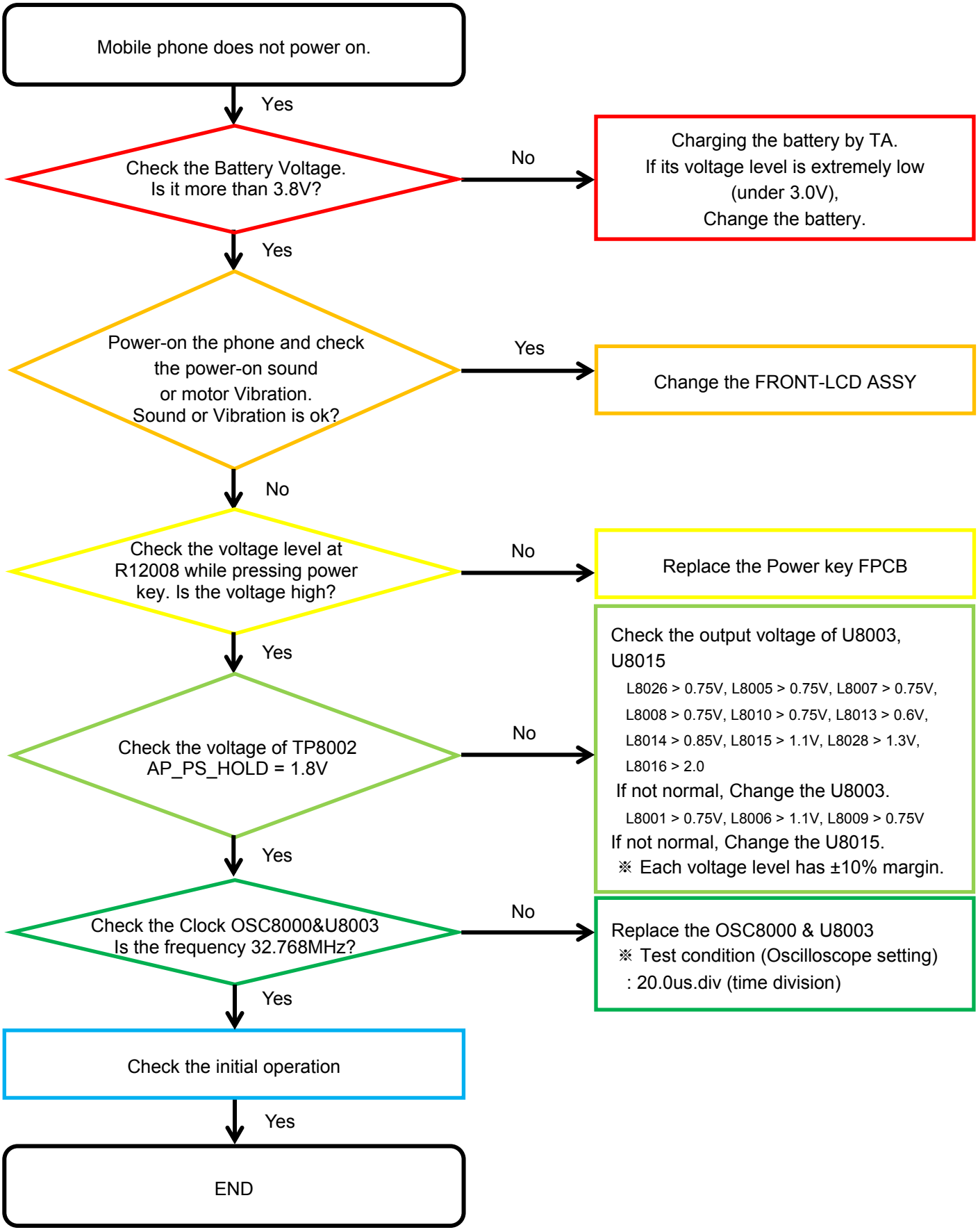
8. Level 3 Repair

8-4-1. Power On



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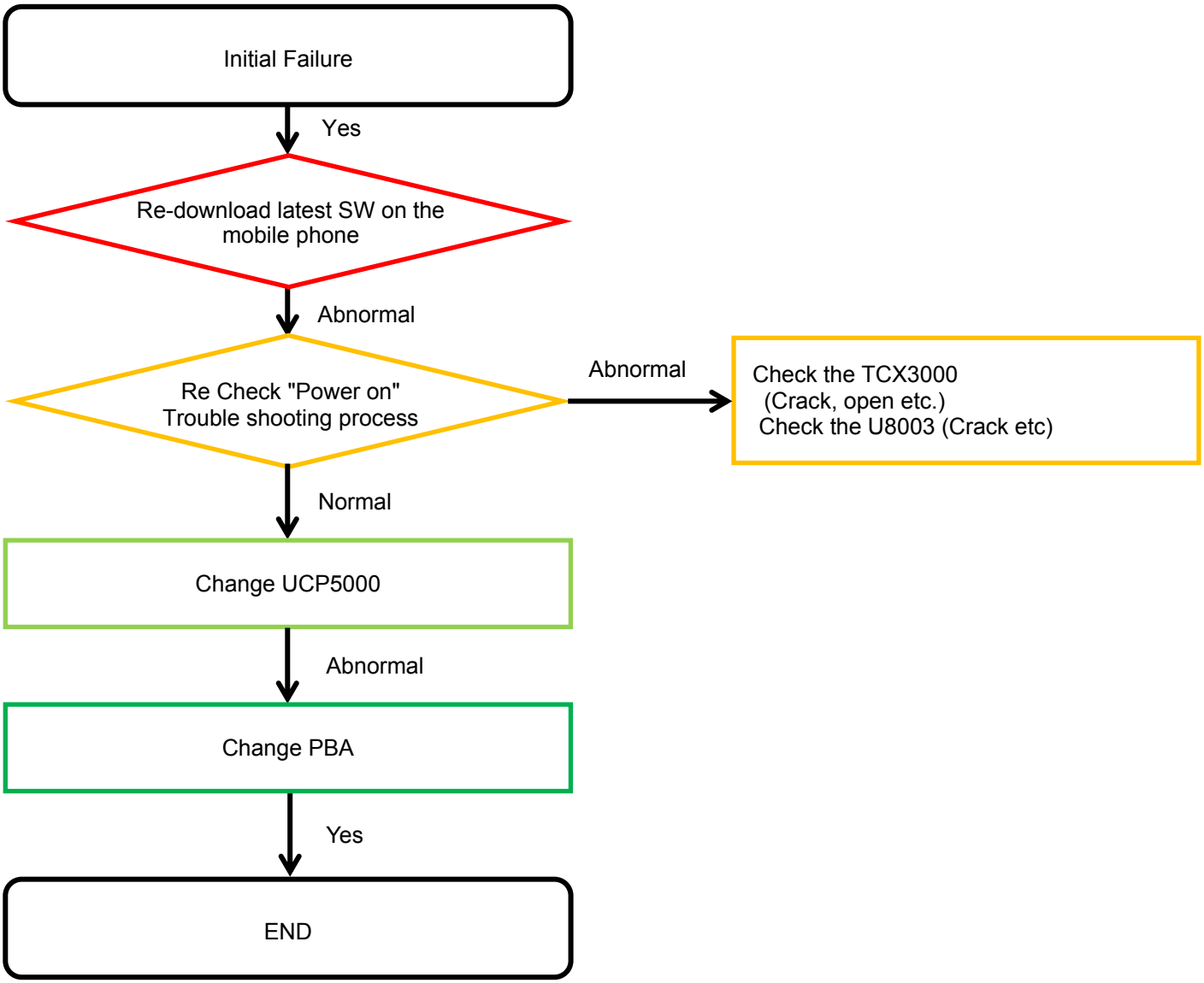
8. Level 3 Repair

8-4-2. Initial



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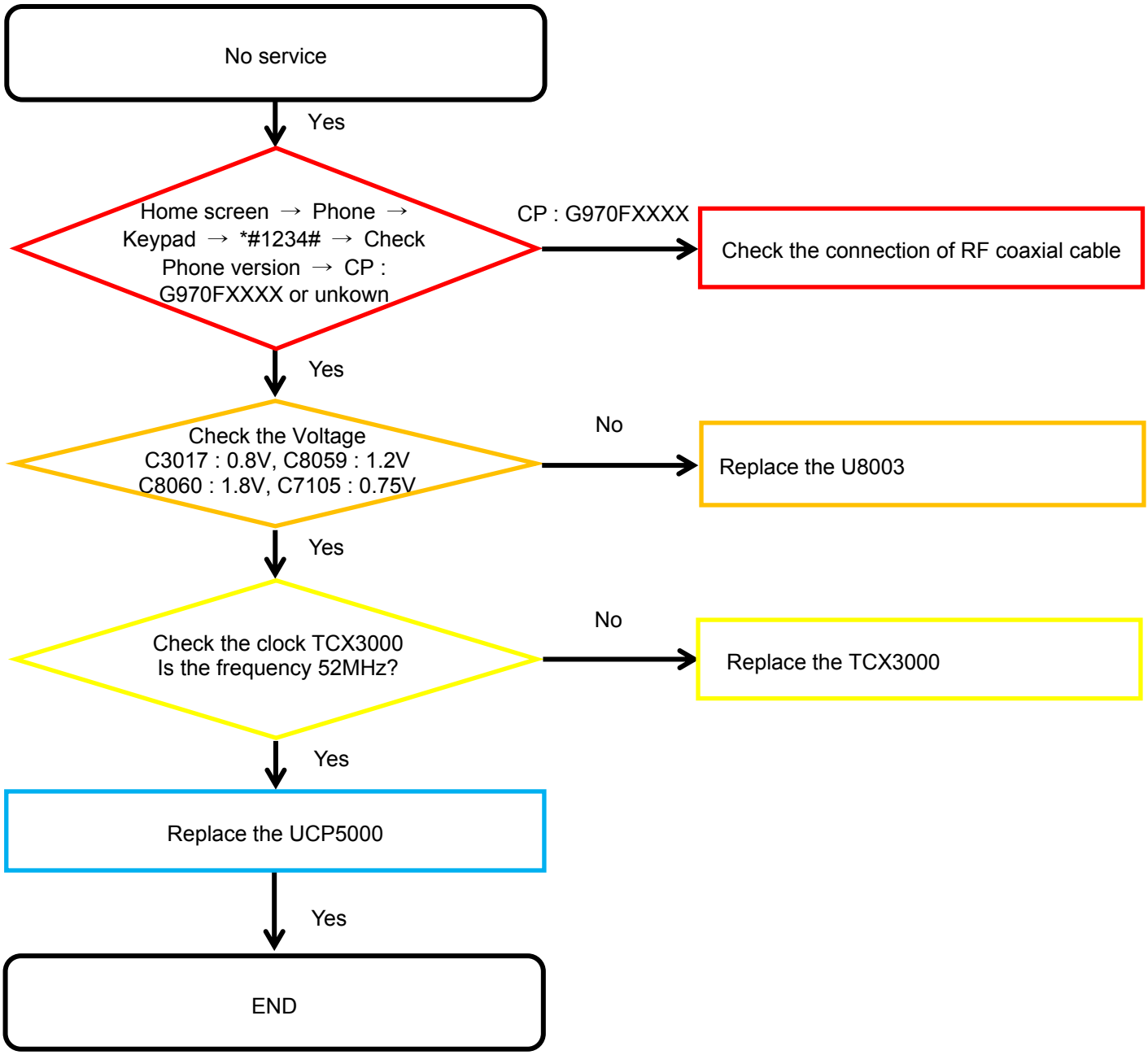
8. Level 3 Repair

8-4-3. No Service



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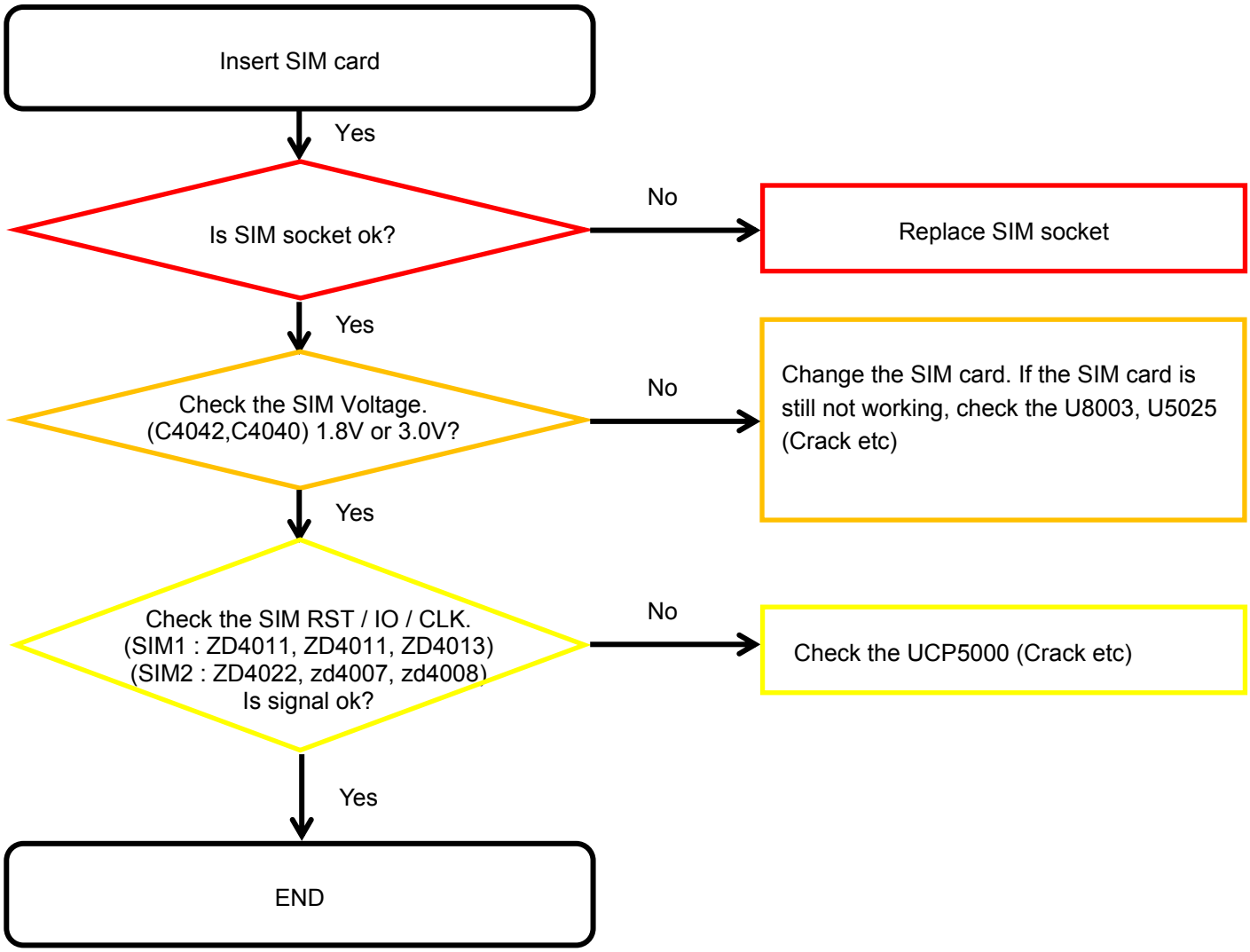
8. Level 3 Repair

8-4-4. SIM Part



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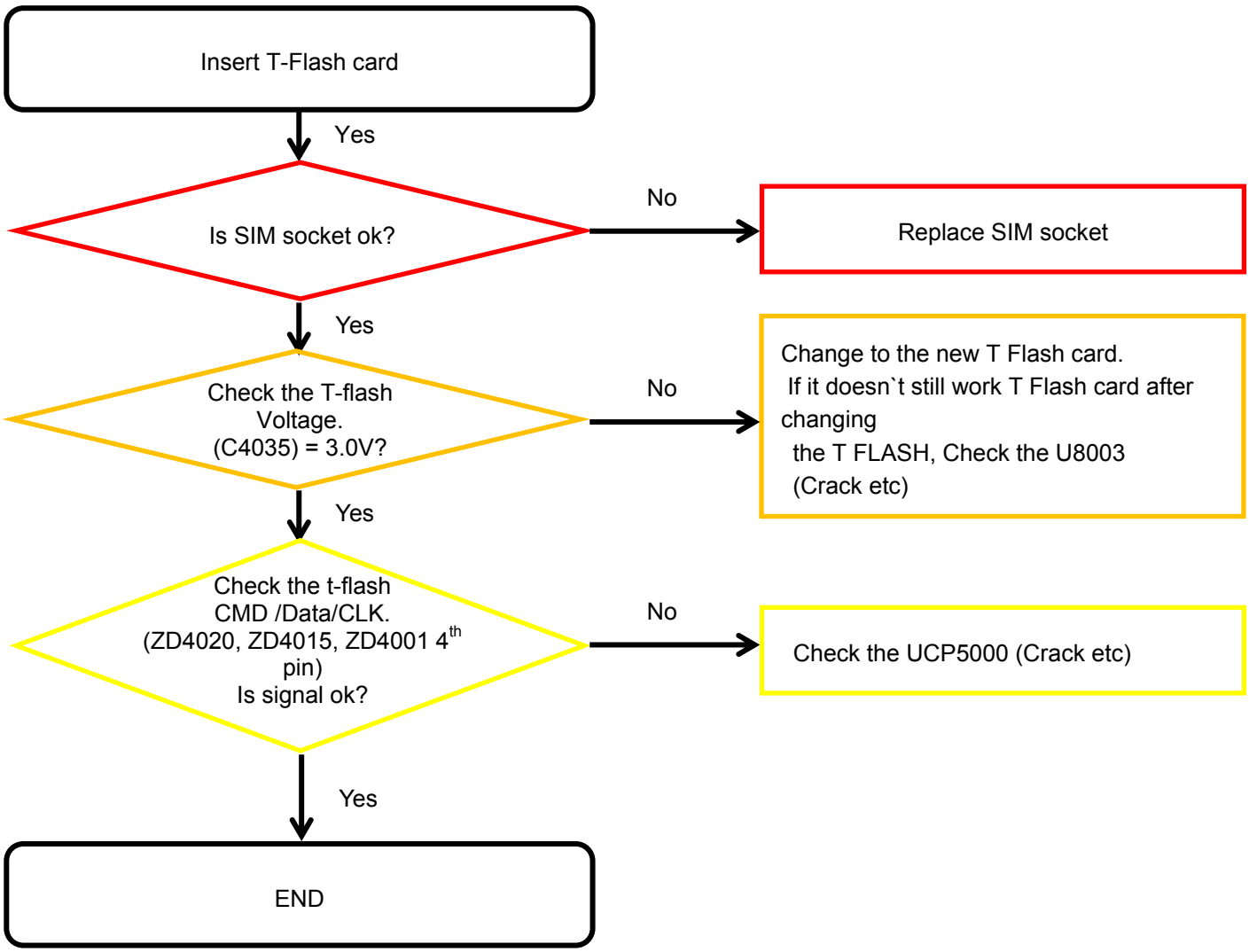
8. Level 3 Repair

8-4-5. T-Flash Part



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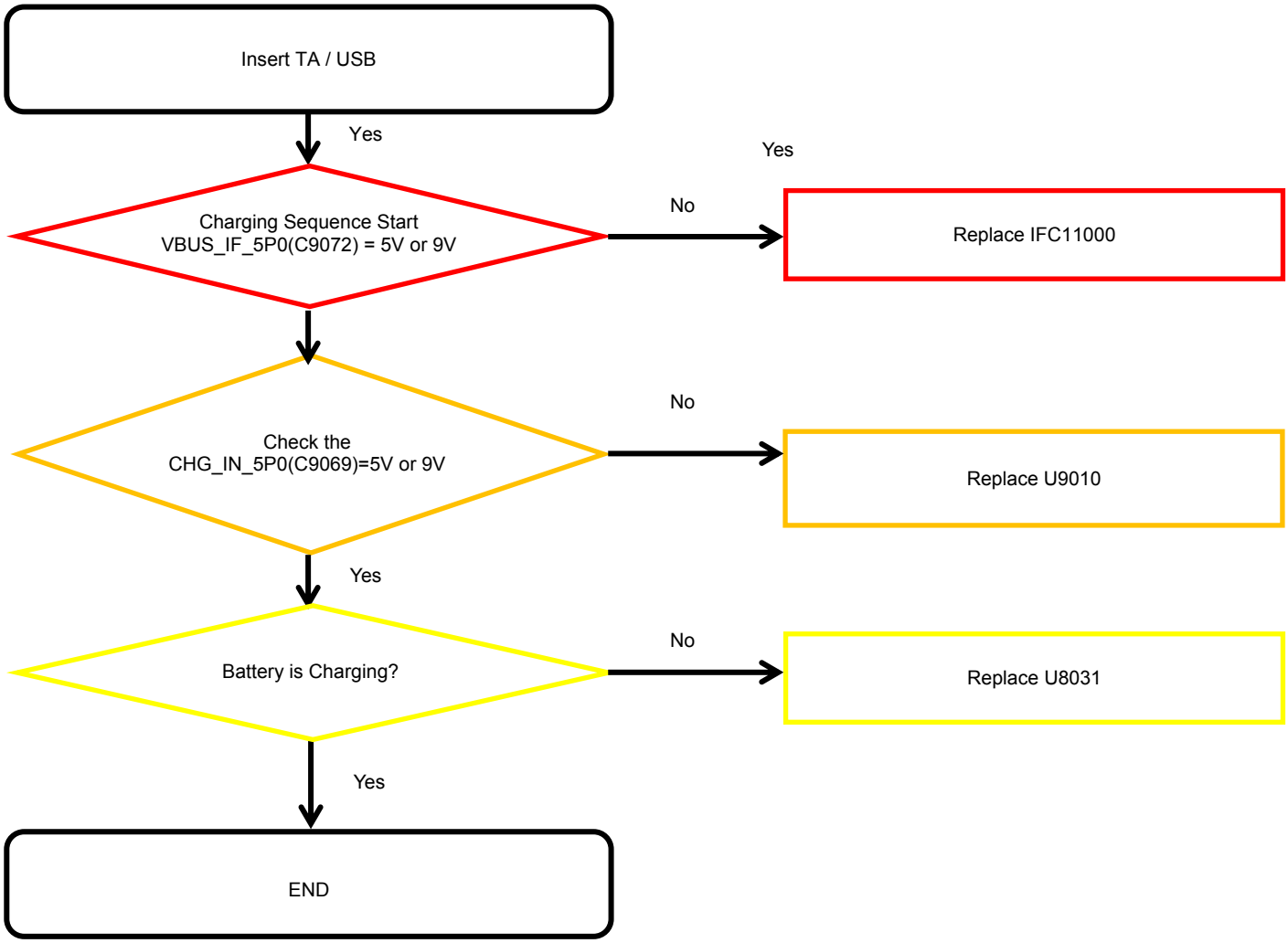
8. Level 3 Repair

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



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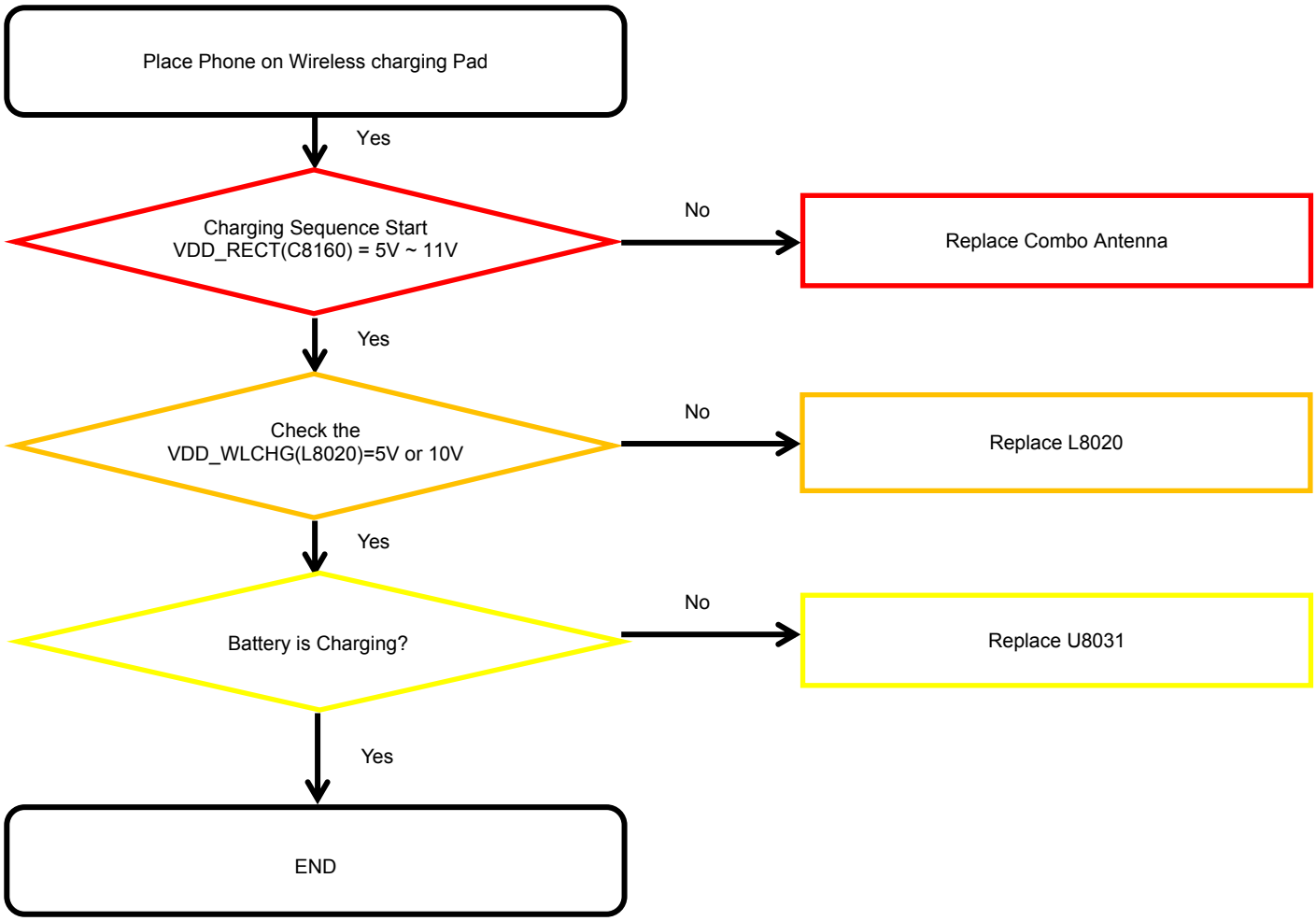
8. Level 3 Repair

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



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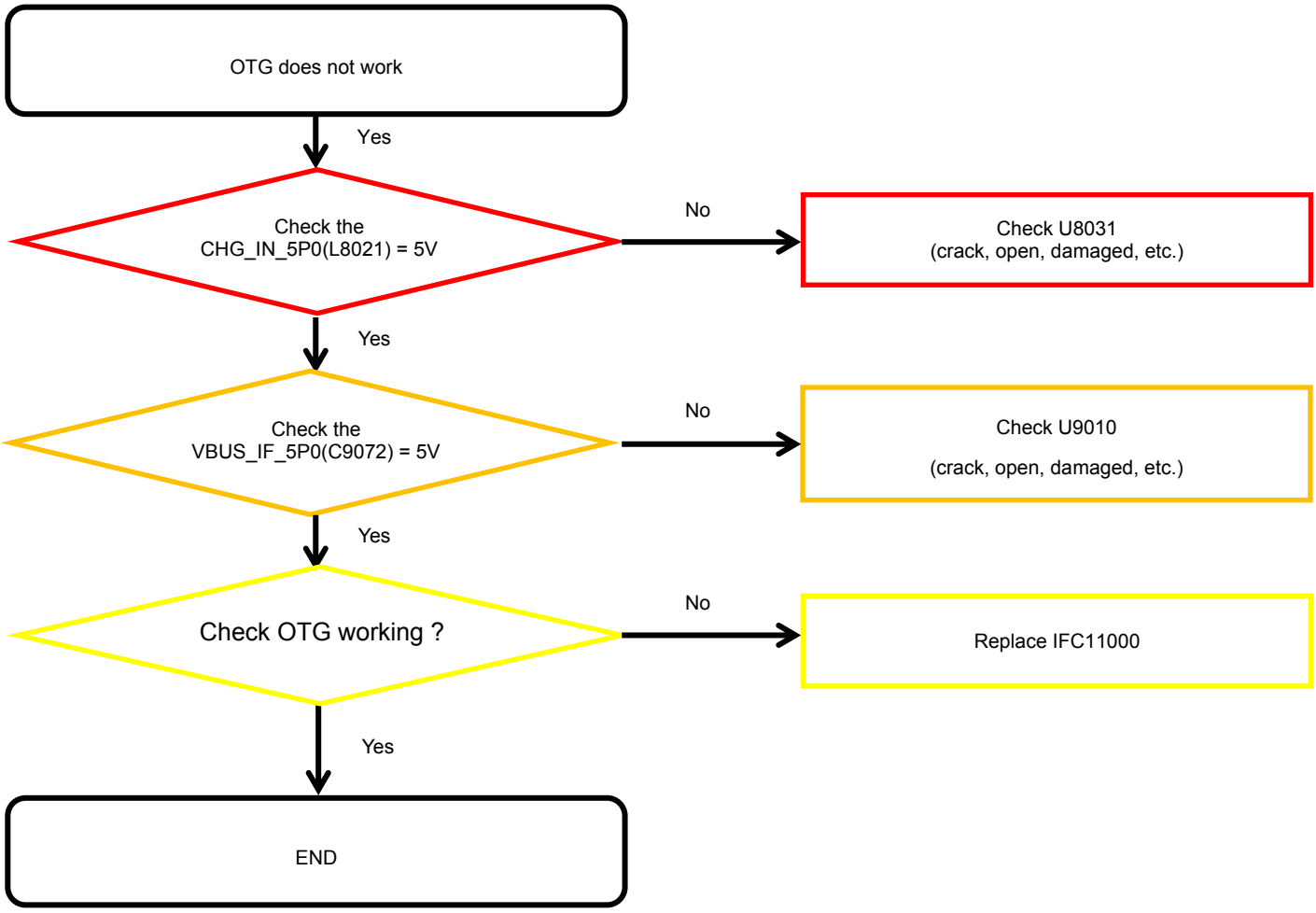
8. Level 3 Repair

8-4-7. OTG



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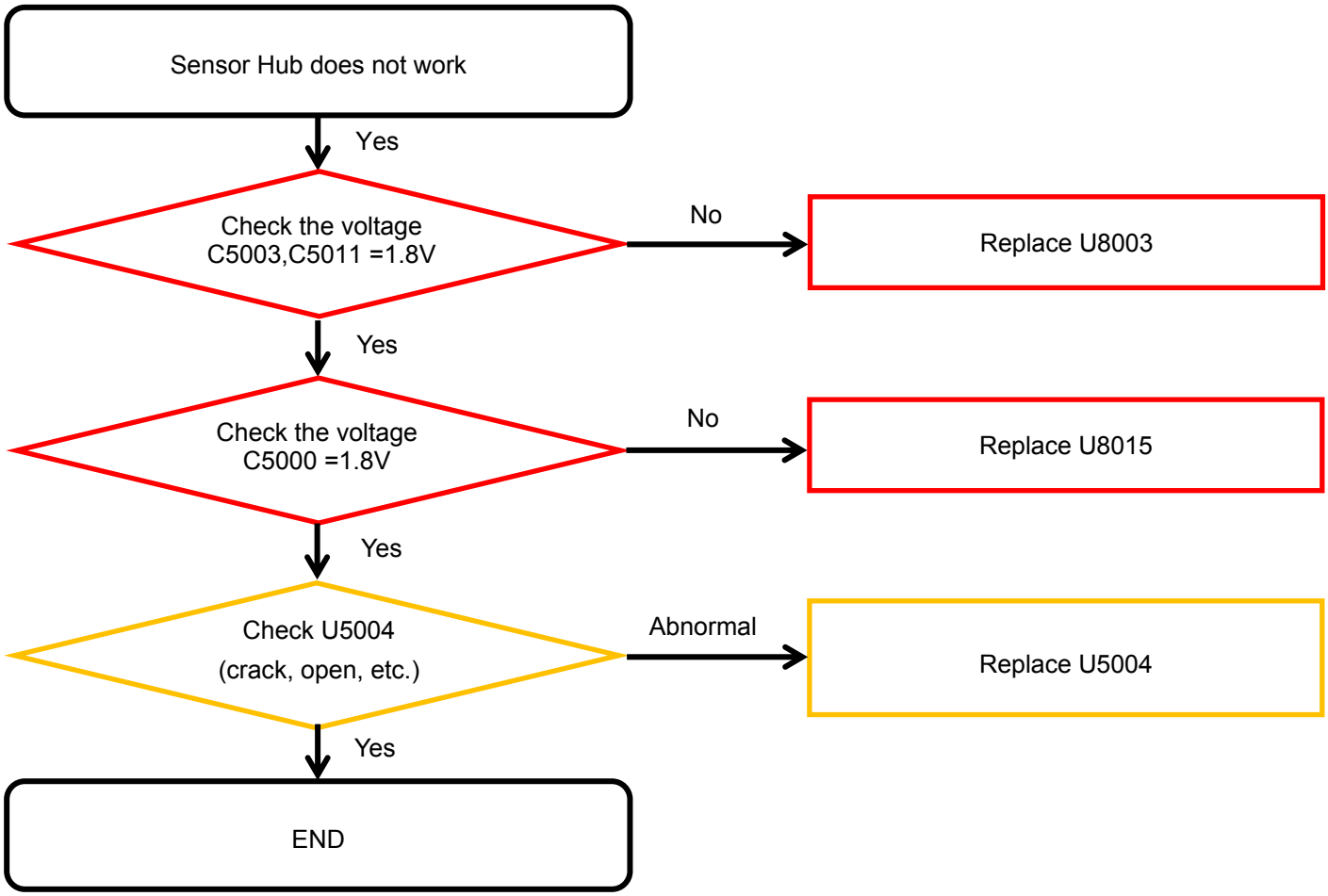
8. Level 3 Repair

8-4-8-1. Sensor Hub



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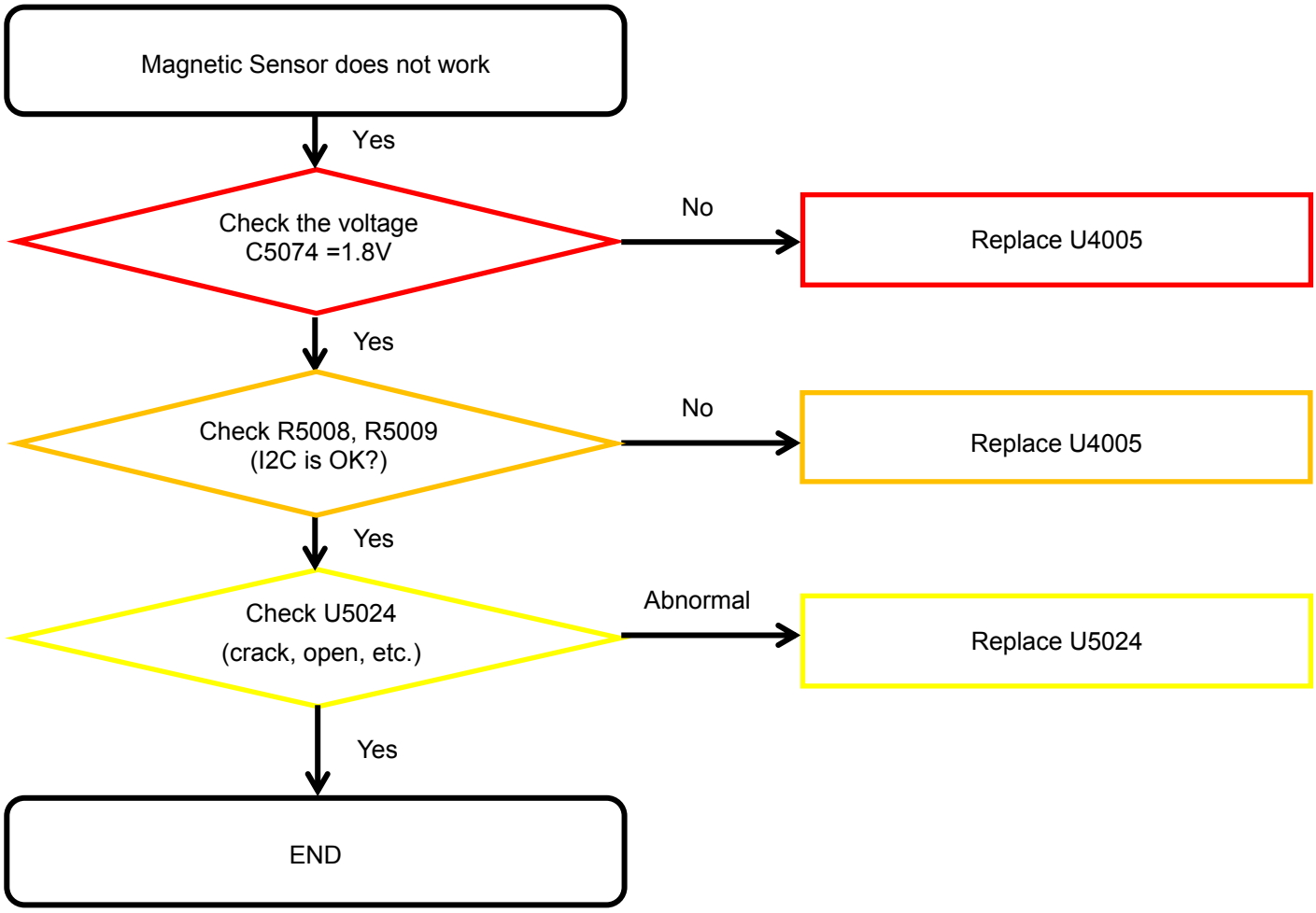
8. Level 3 Repair

8-4-8-2. Magnetic Sensor



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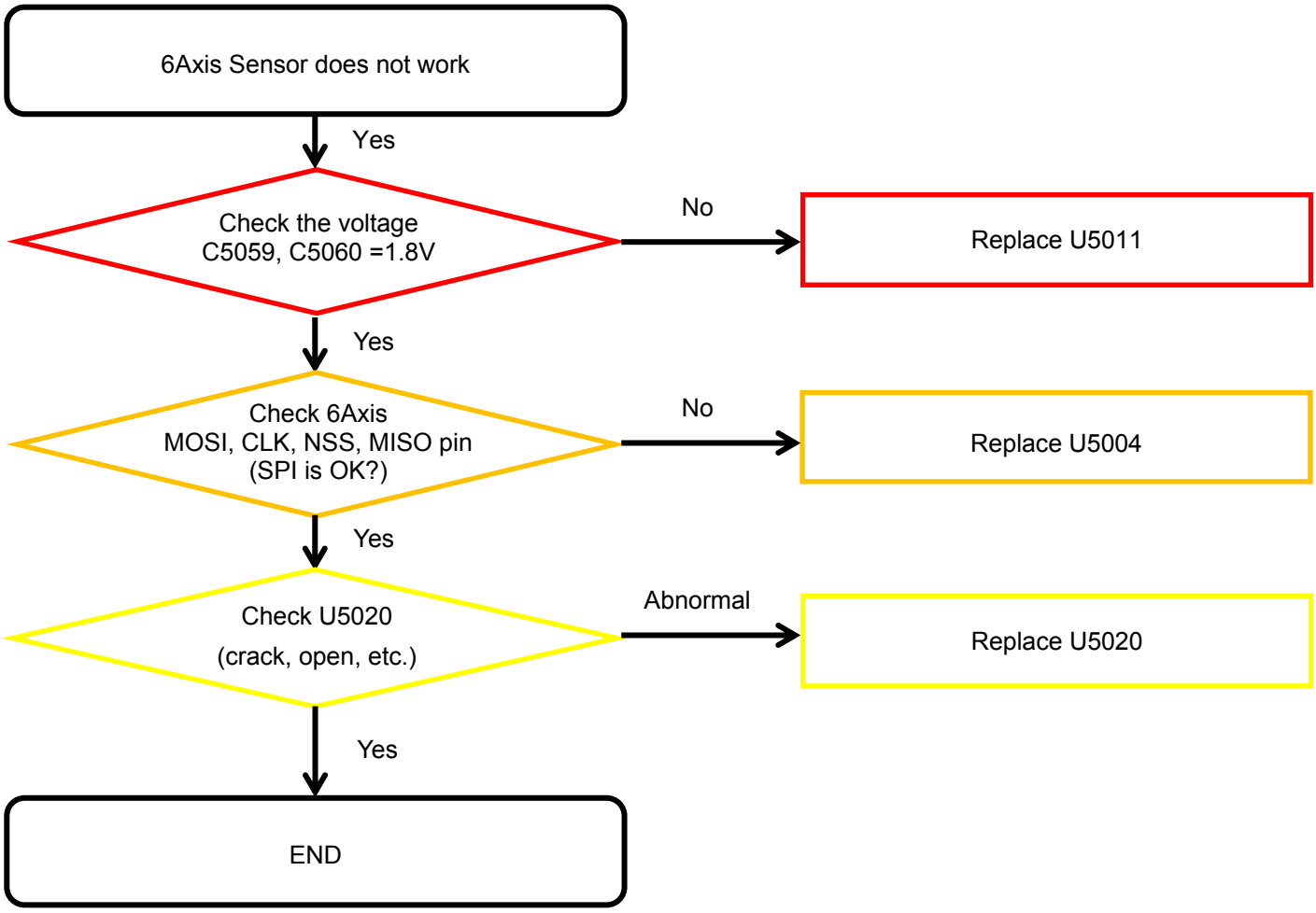
8. Level 3 Repair

8-4-8-3. 6Axis Sensor



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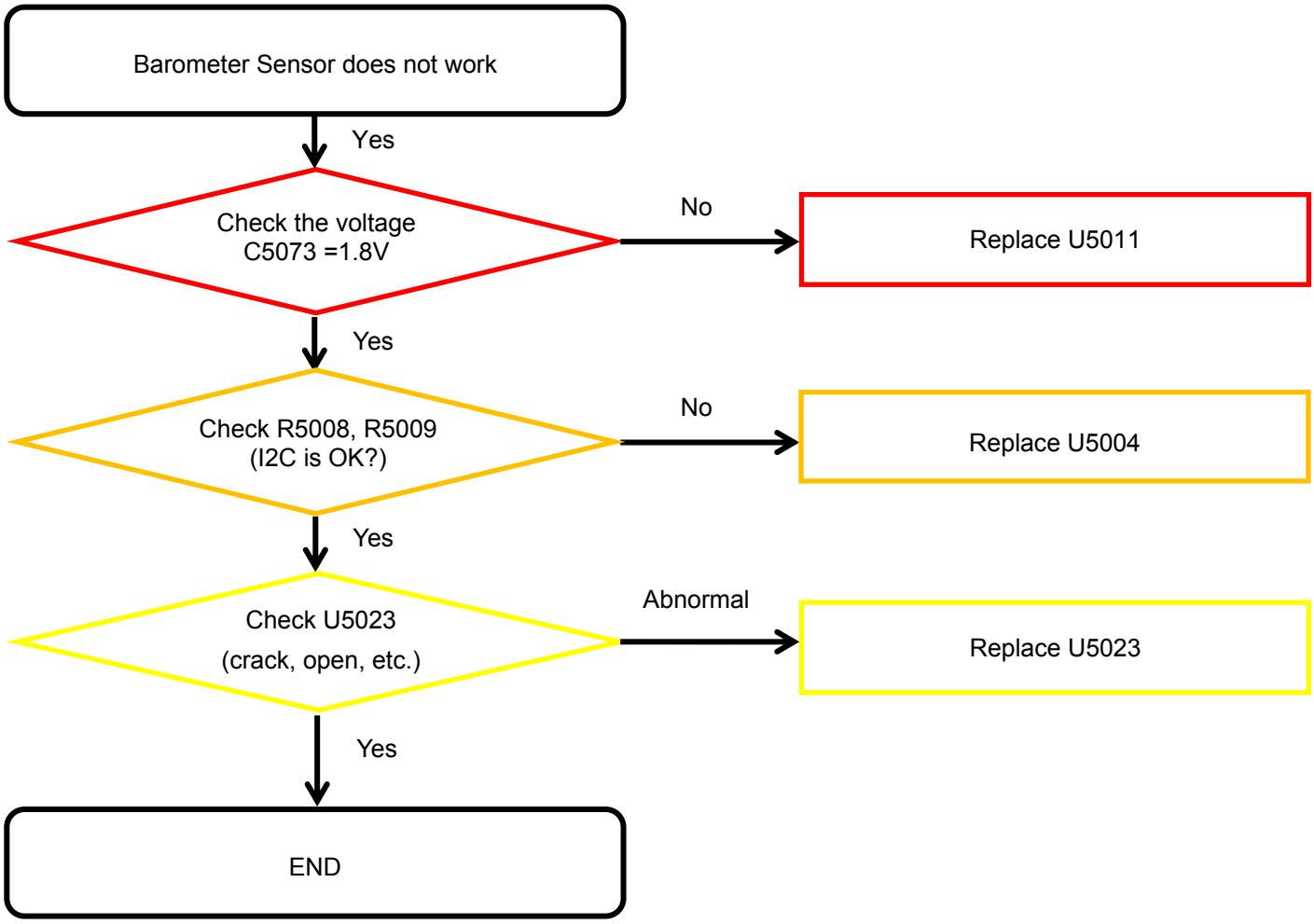
8. Level 3 Repair

8-4-8-4. Barometer sensor



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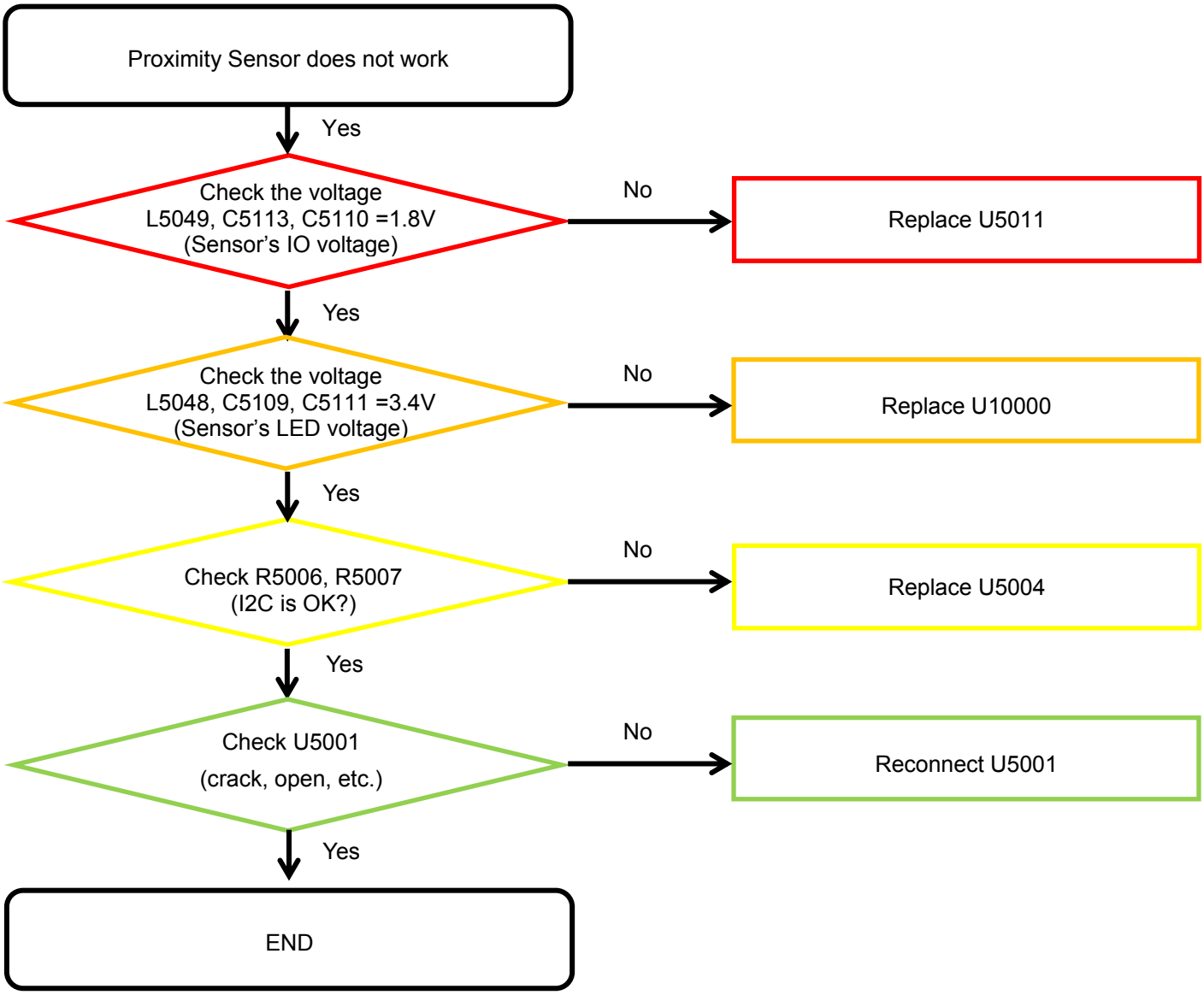
8. Level 3 Repair

8-4-8-5. Proximity sensor



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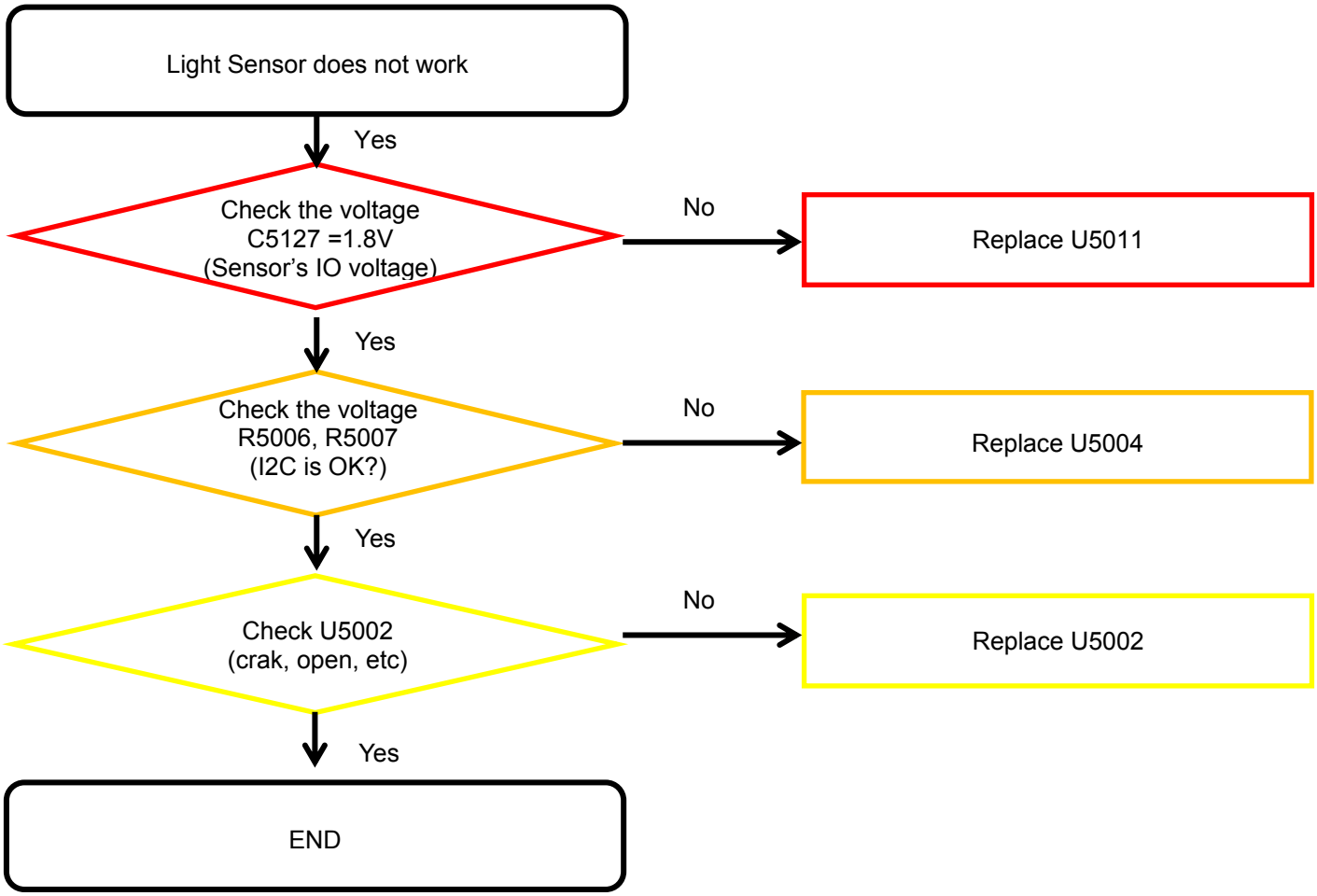
8. Level 3 Repair

8-4-8-6. Light Sensor



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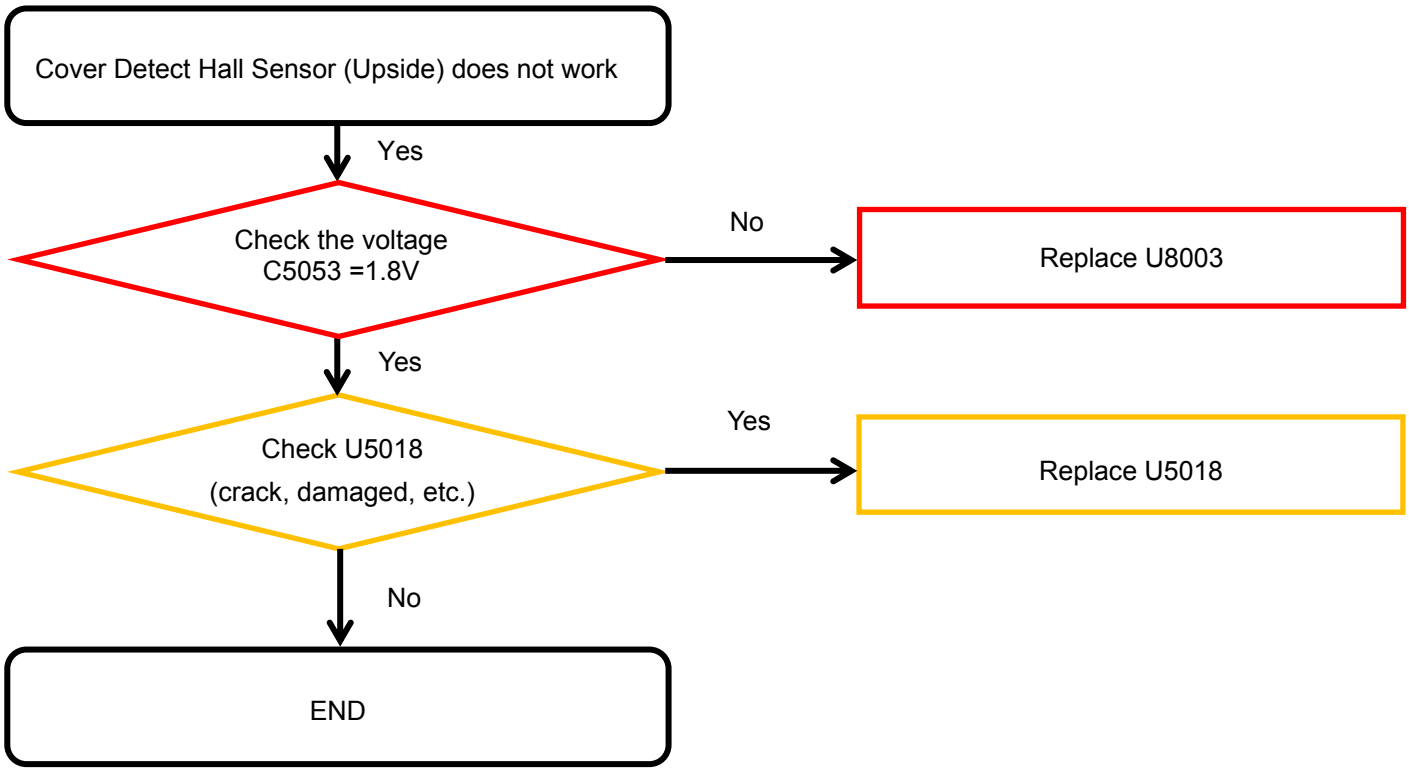
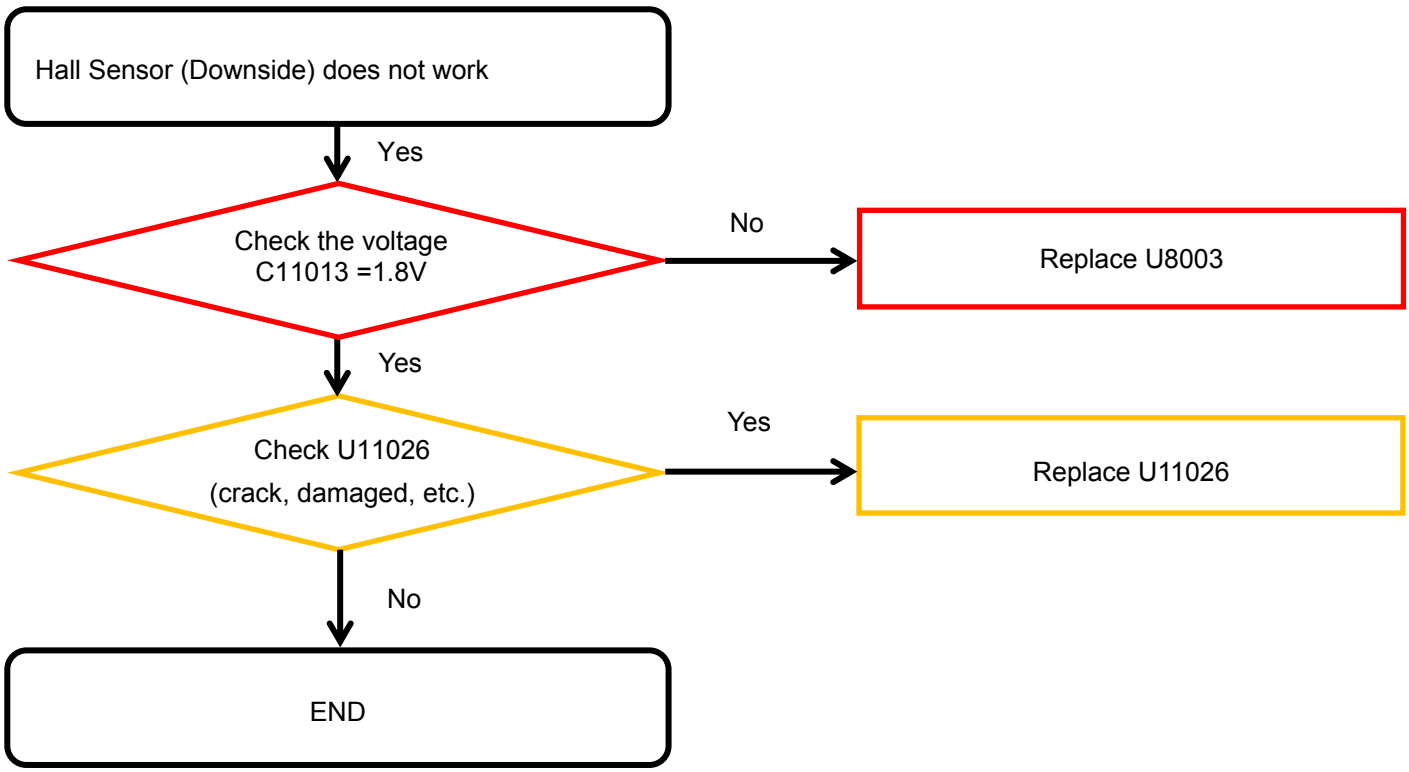
8. Level 3 Repair

8-4-8-7. Hall Sensor





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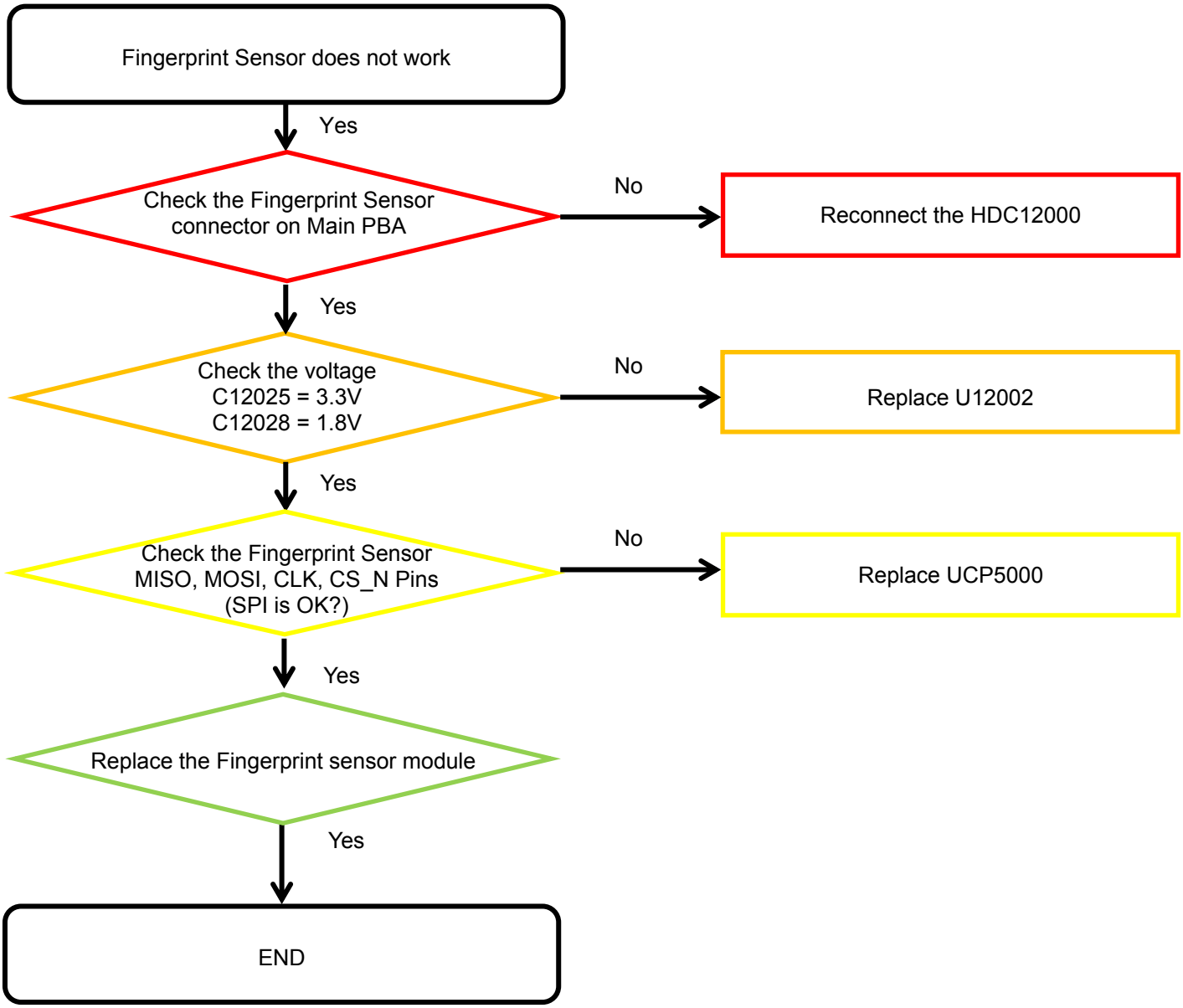
8. Level 3 Repair

8-4-8-8. Fingerprint Sensor



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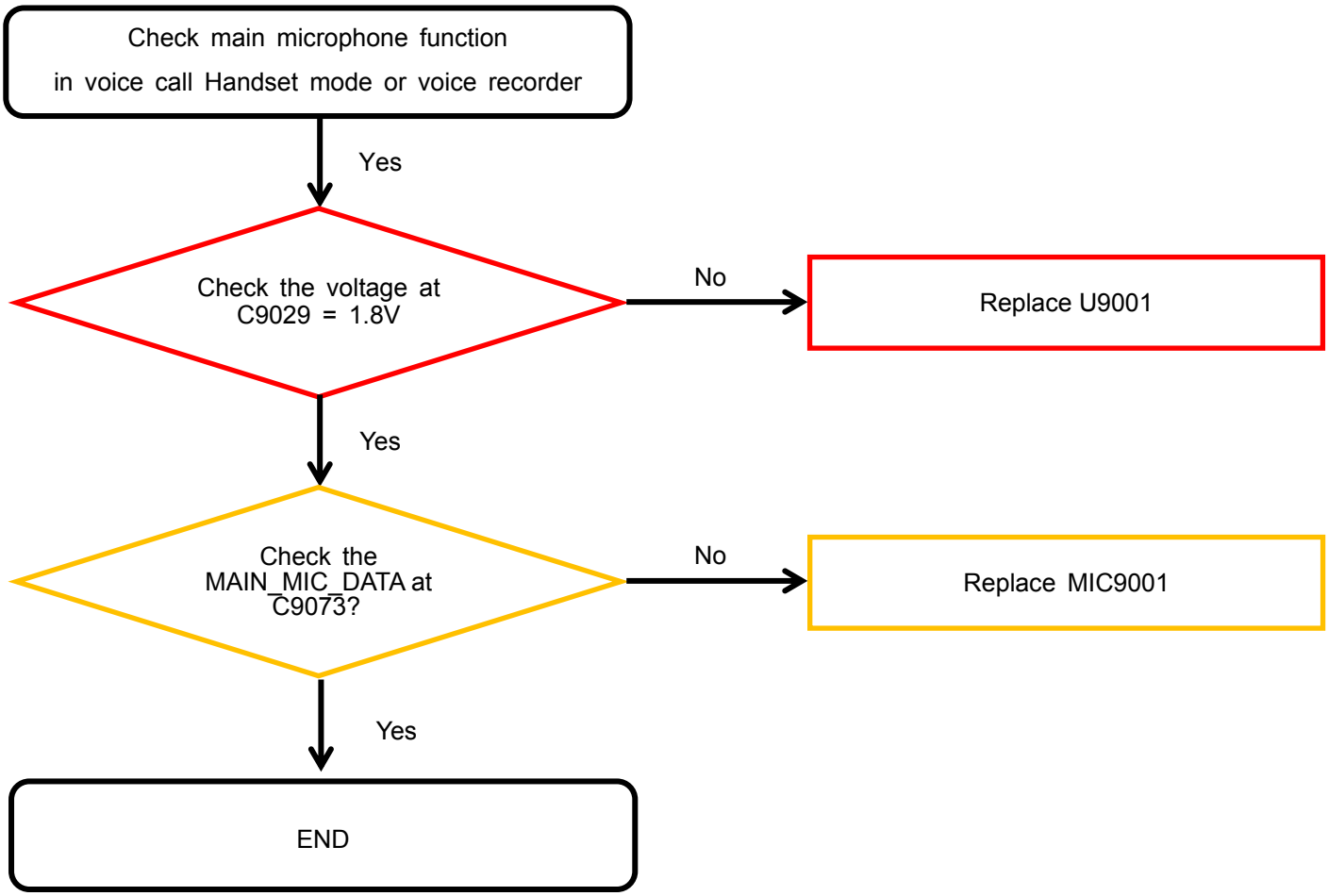
8. Level 3 Repair

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



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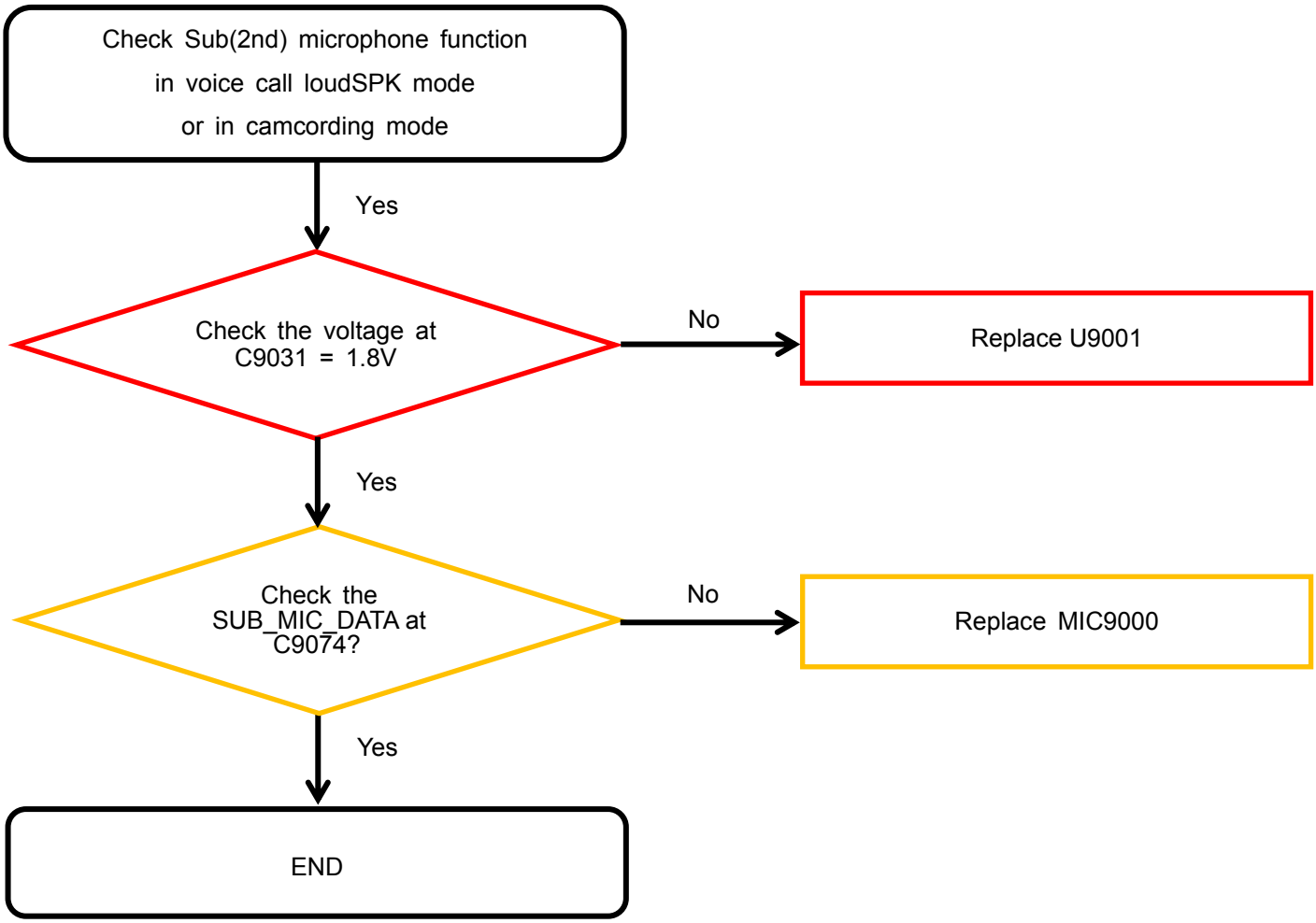
8-4-9-2. Microphone Part - Sub(2nd) MIC



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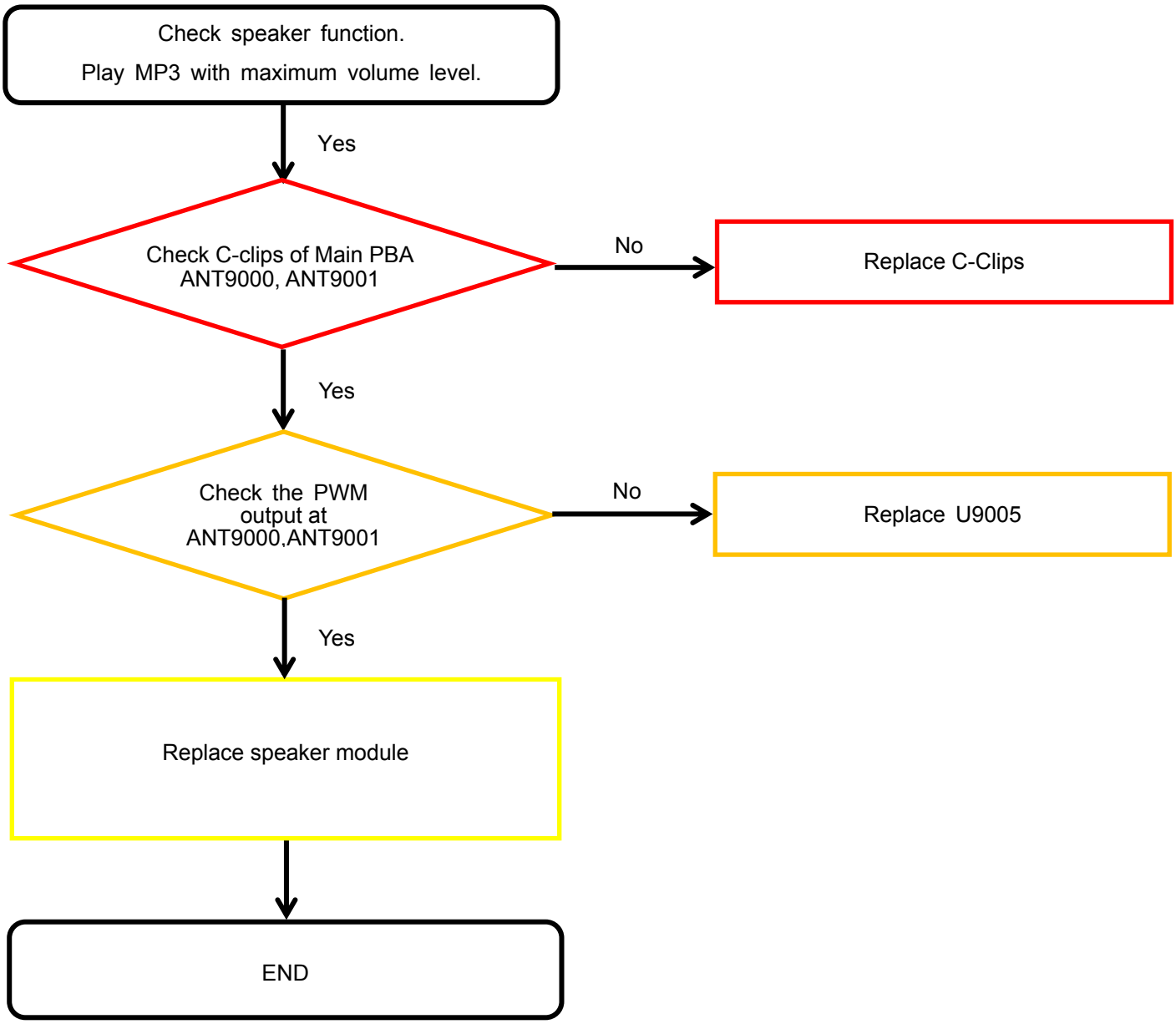
8-4-10. Speaker Part



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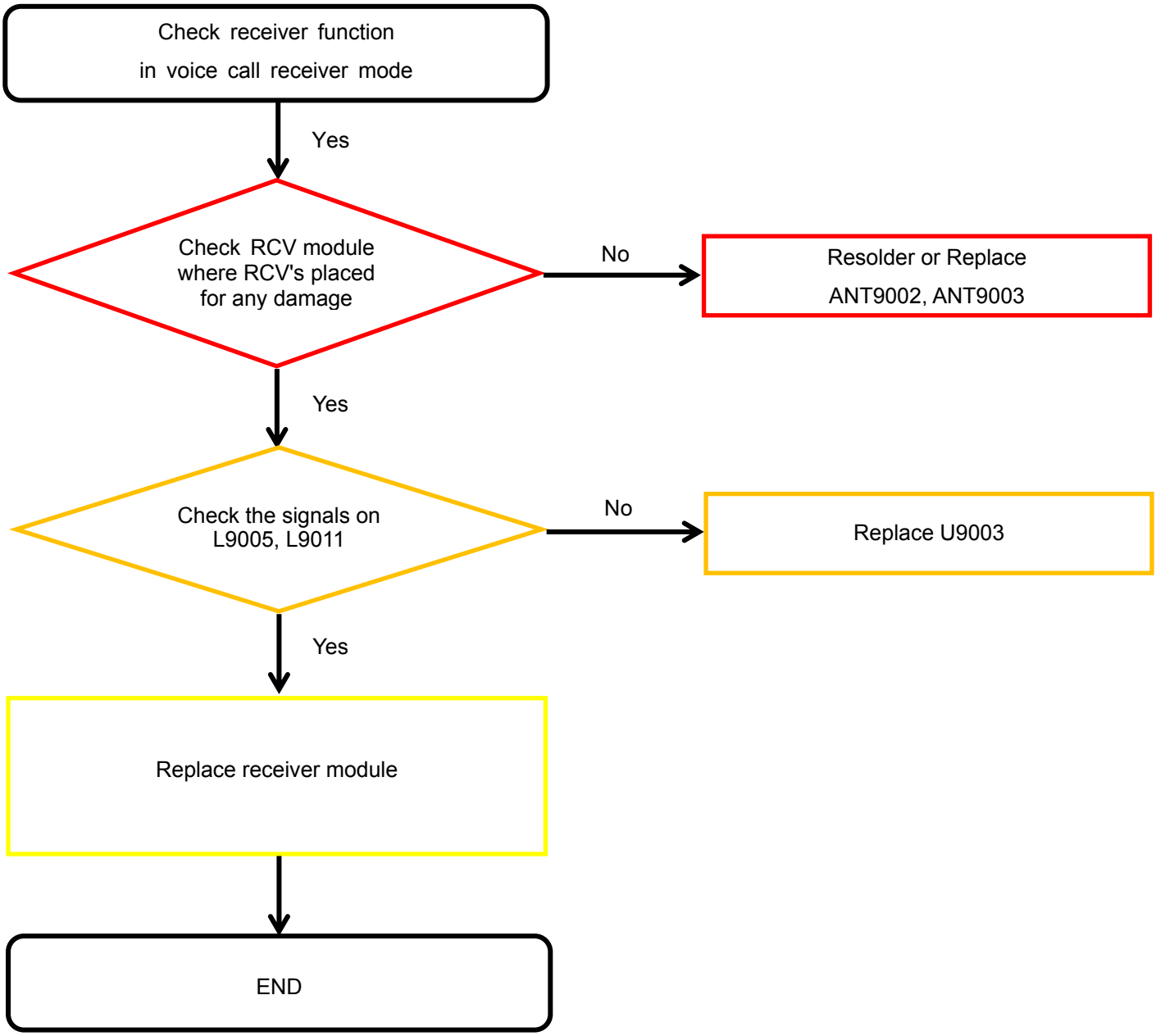
8. Level 3 Repair

8-4-11. Receiver Part



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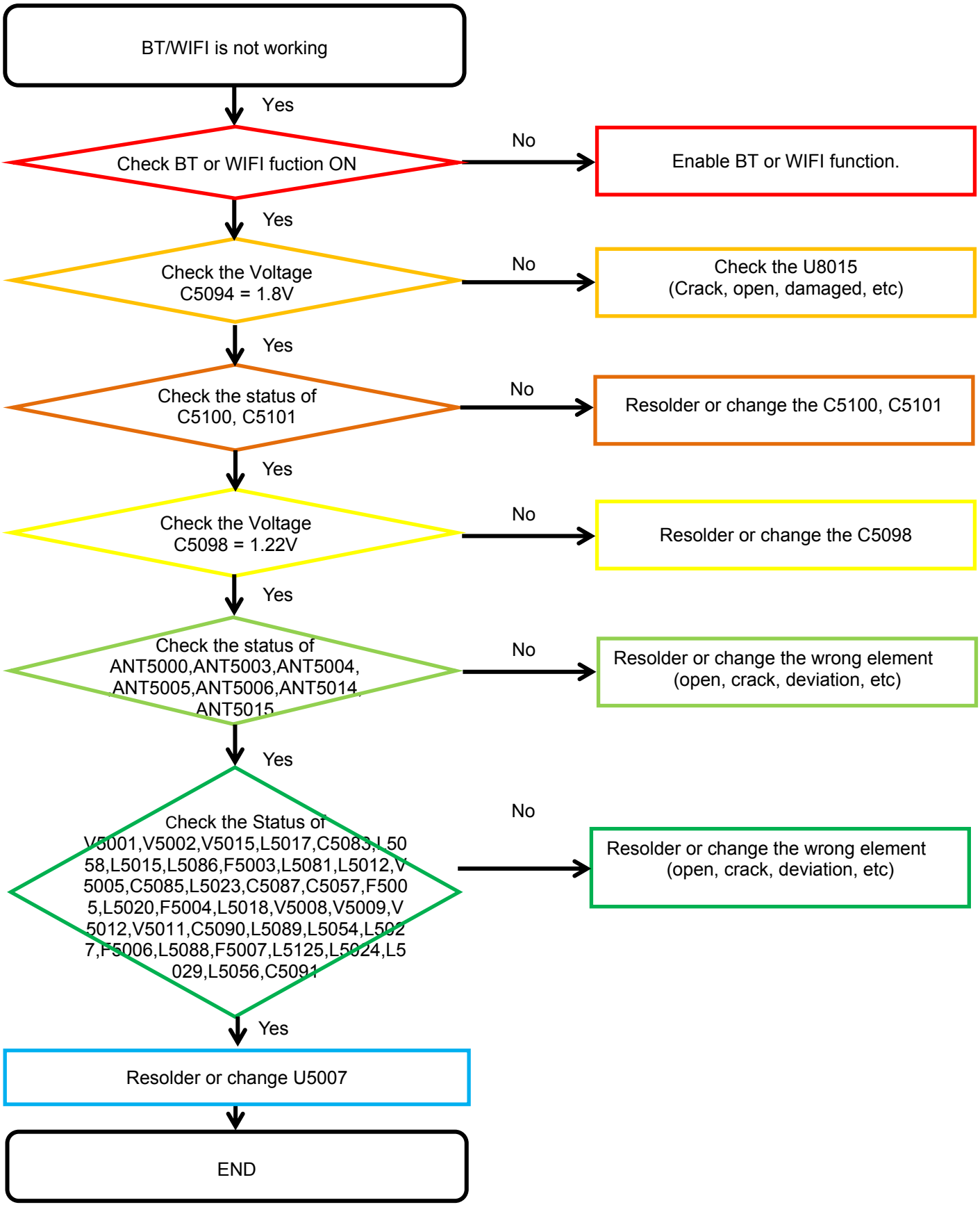
8. Level 3 Repair

8-4-12. BT/WIFI



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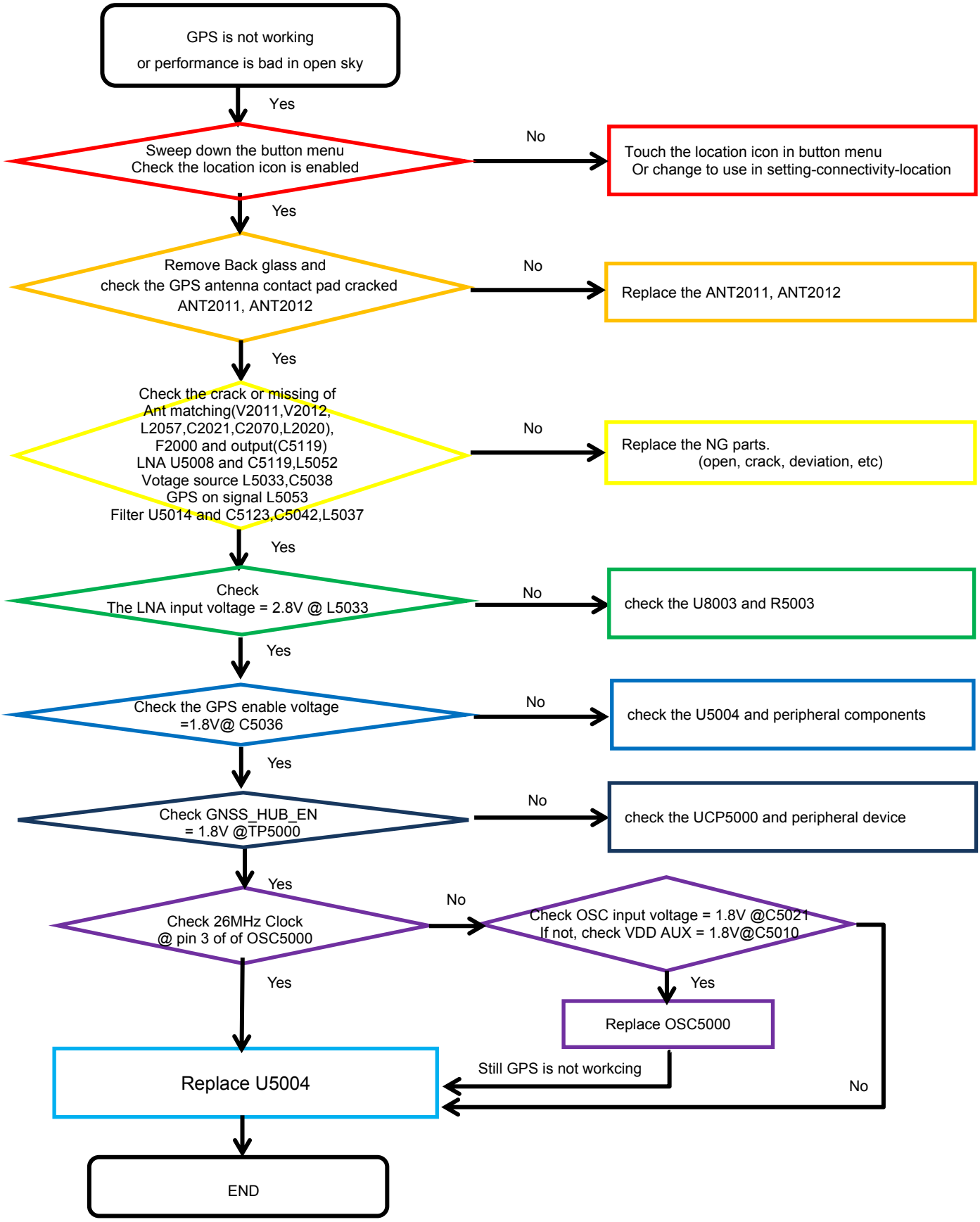
8. Level 3 Repair

8-4-13. GPS



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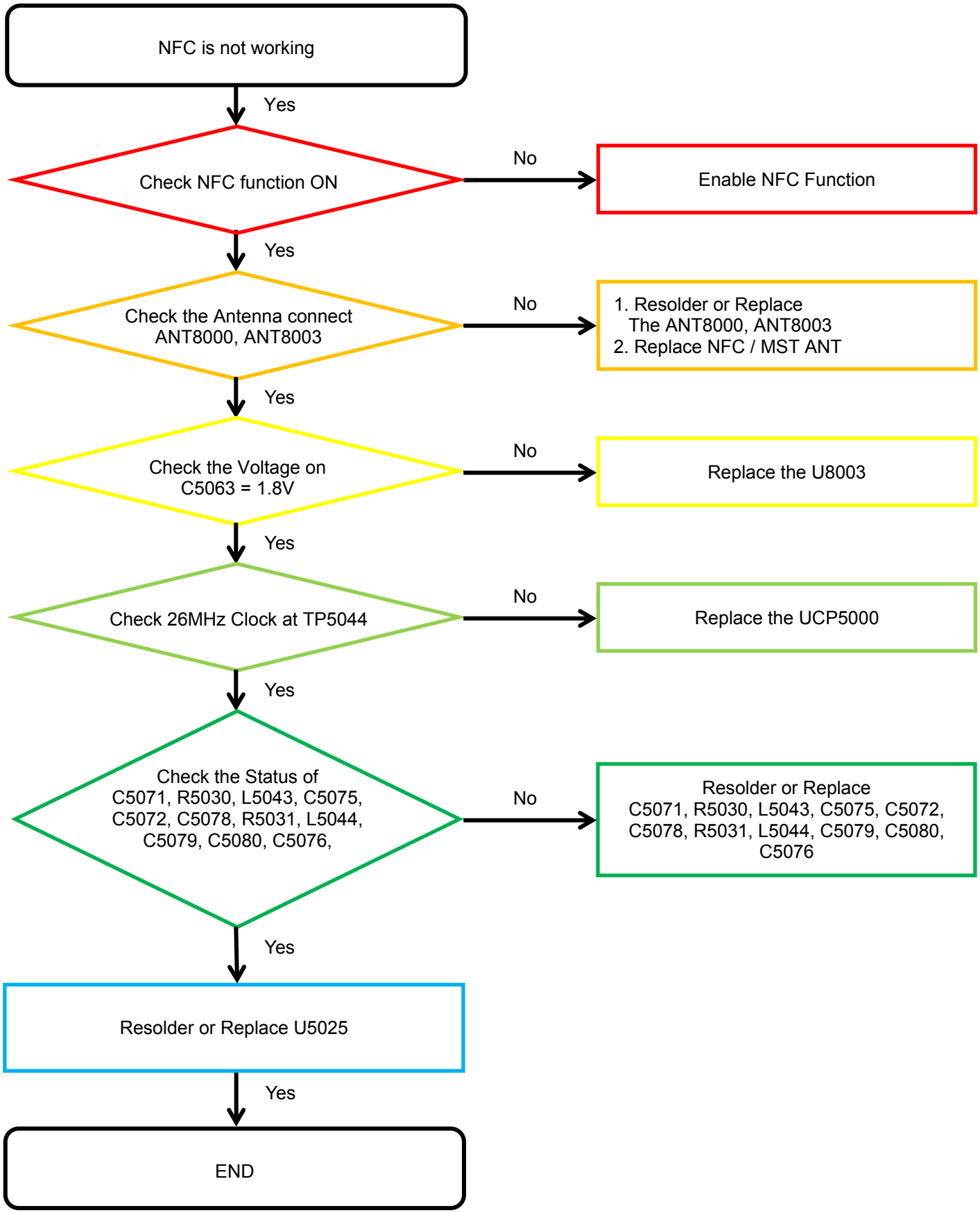
8. Level 3 Repair

8-4-14. NFC



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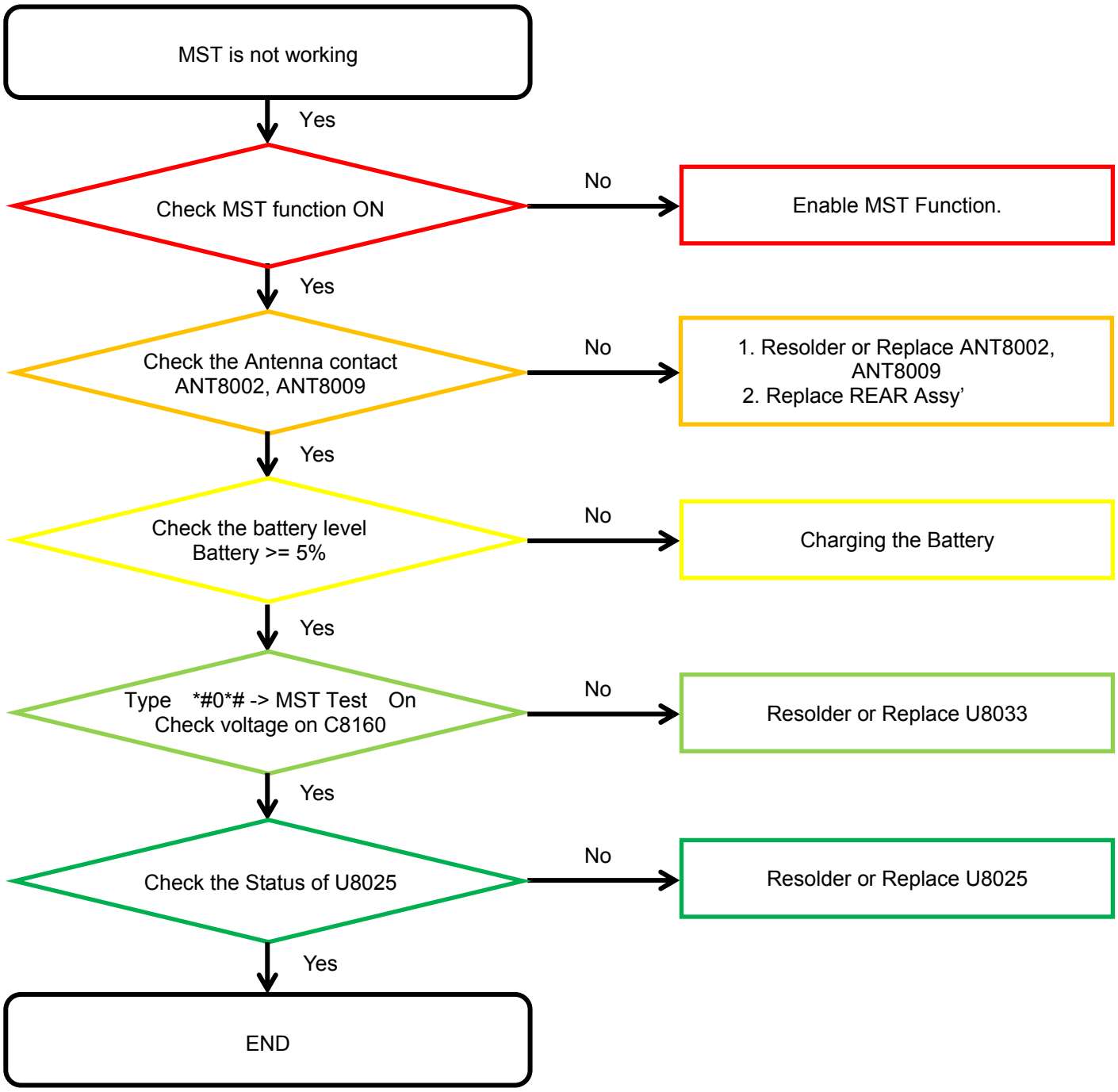
8. Level 3 Repair

8-4-15. MST



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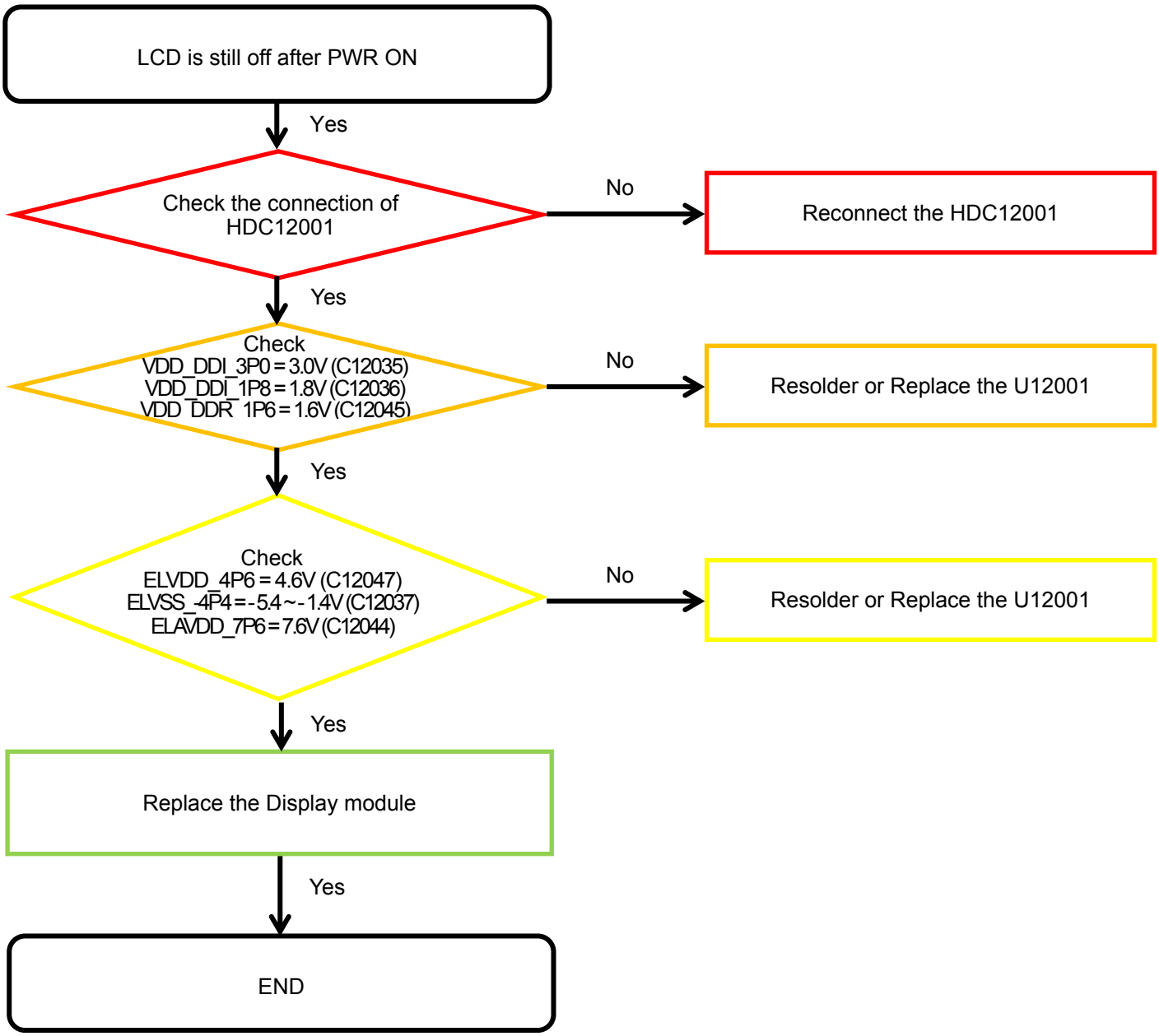
8. Level 3 Repair

8-4-16. Display



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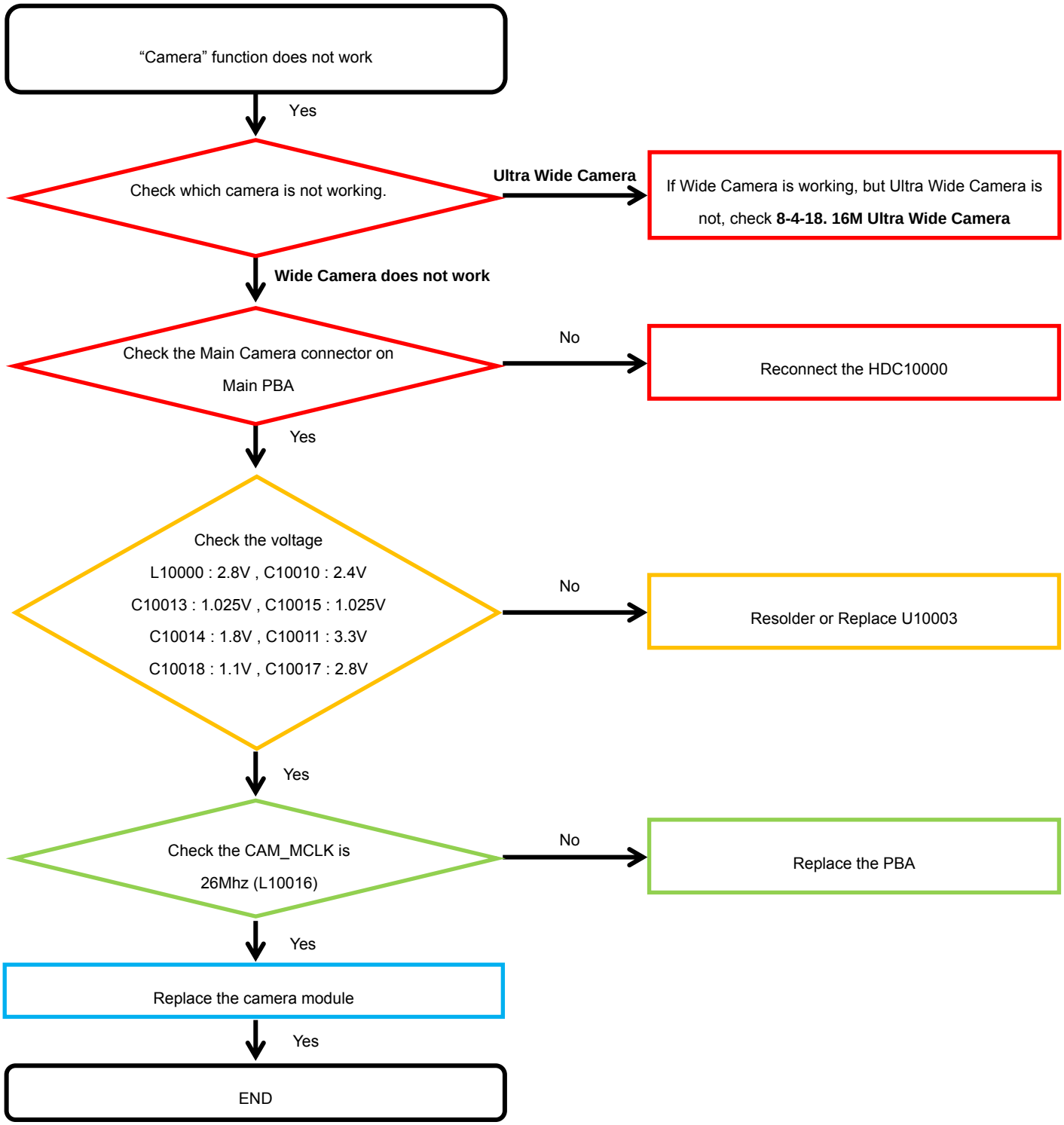
8. Level 3 Repair

8-4-17. 12M MAIN CAMERA



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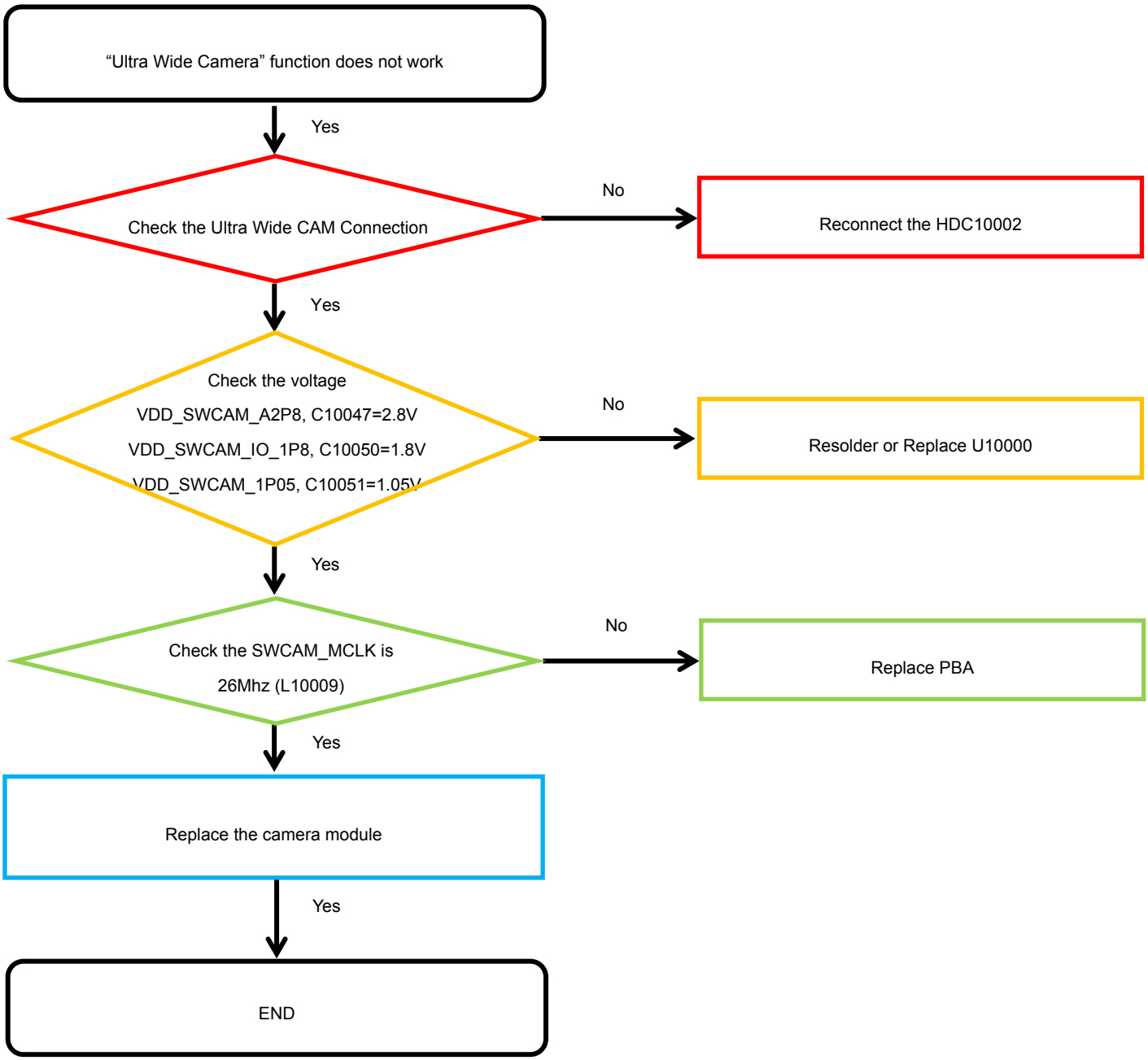
8. Level 3 Repair

8-4-18. 16M ULTRA WIDE CAMERA



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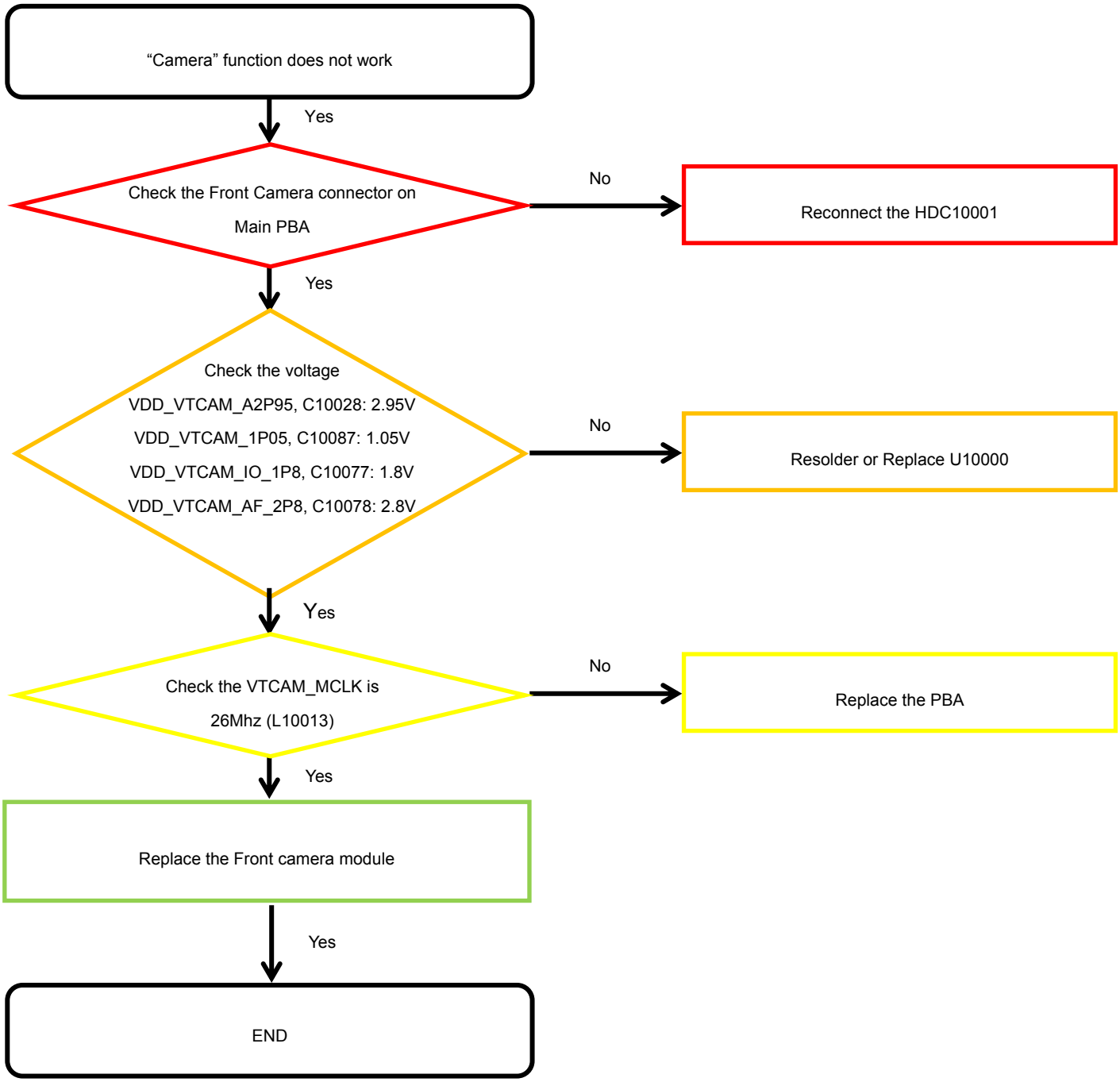
8. Level 3 Repair

8-4-19. 10M FRONT CAMERA



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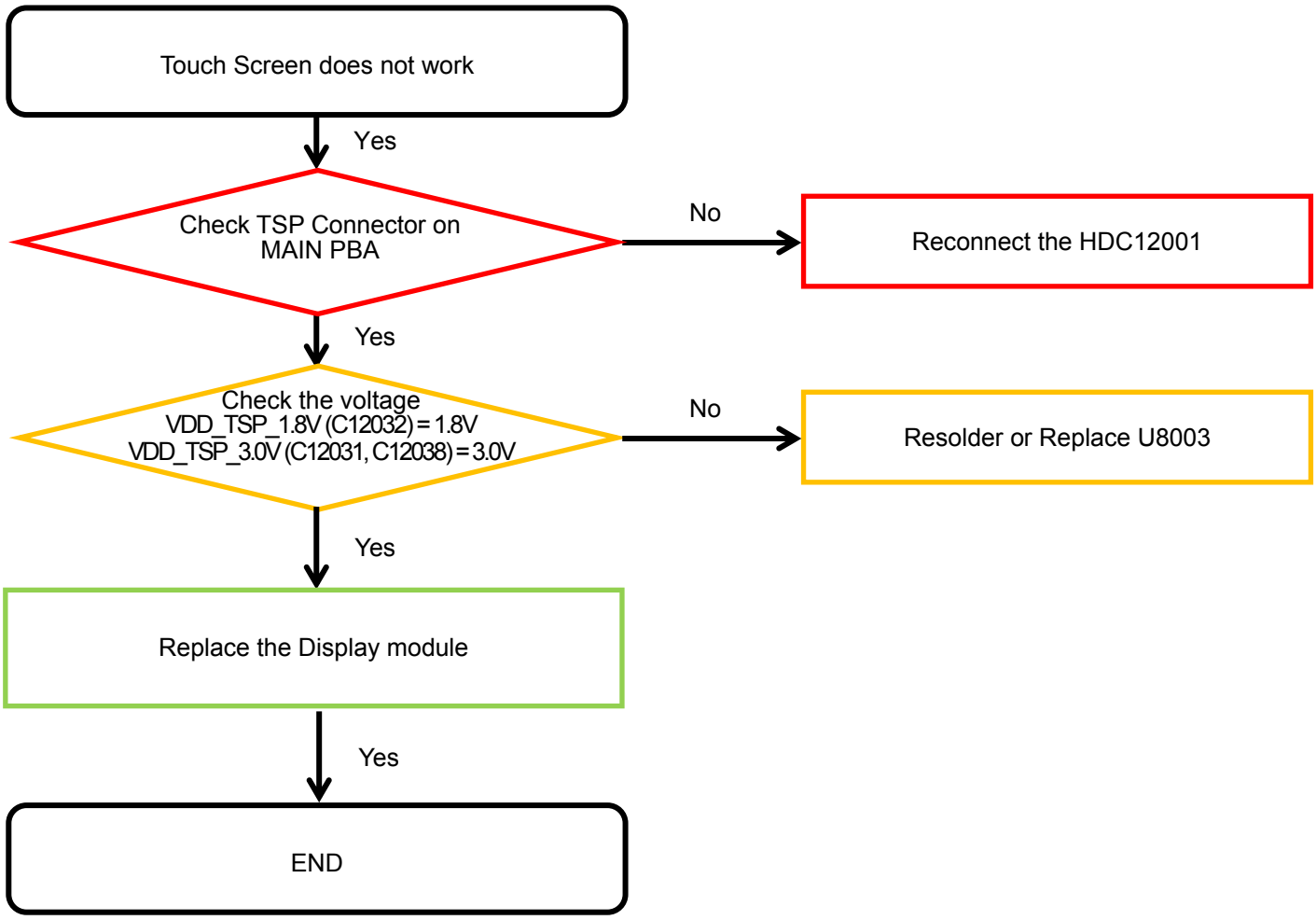
8. Level 3 Repair

8-4-20. TSP



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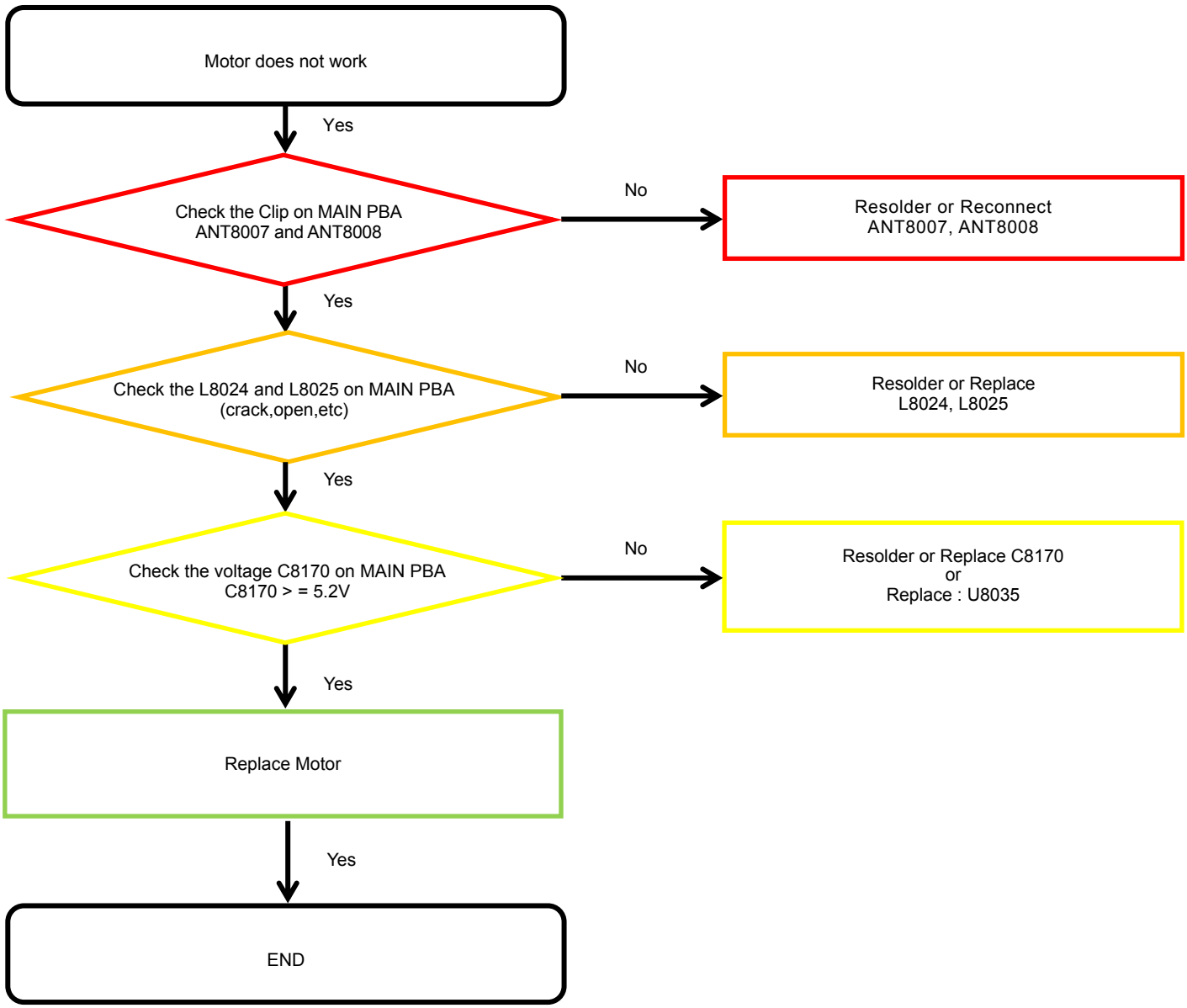
8. Level 3 Repair

8-4-21. Motor



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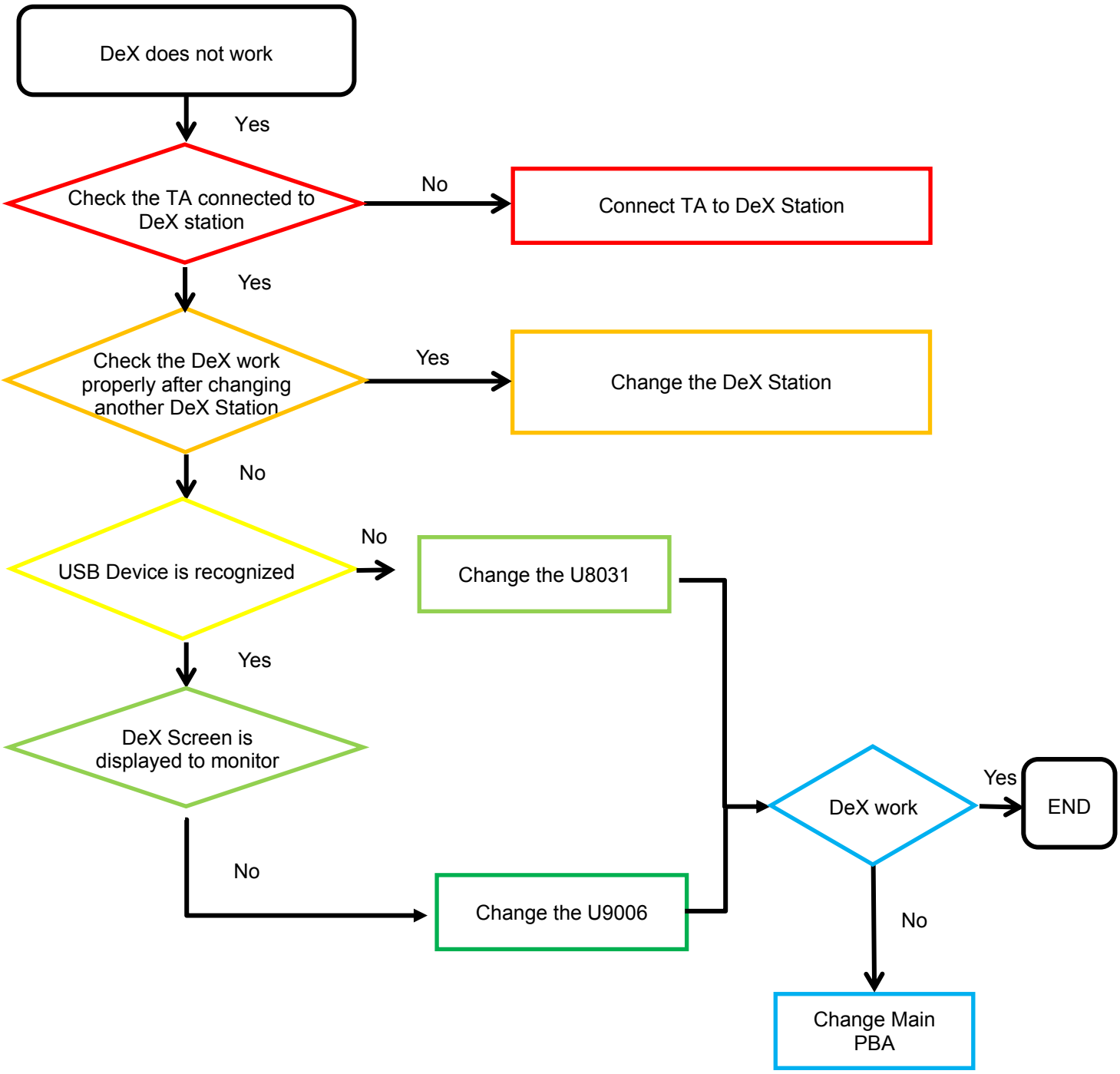
8. Level 3 Repair

8-4-22. DeX Station



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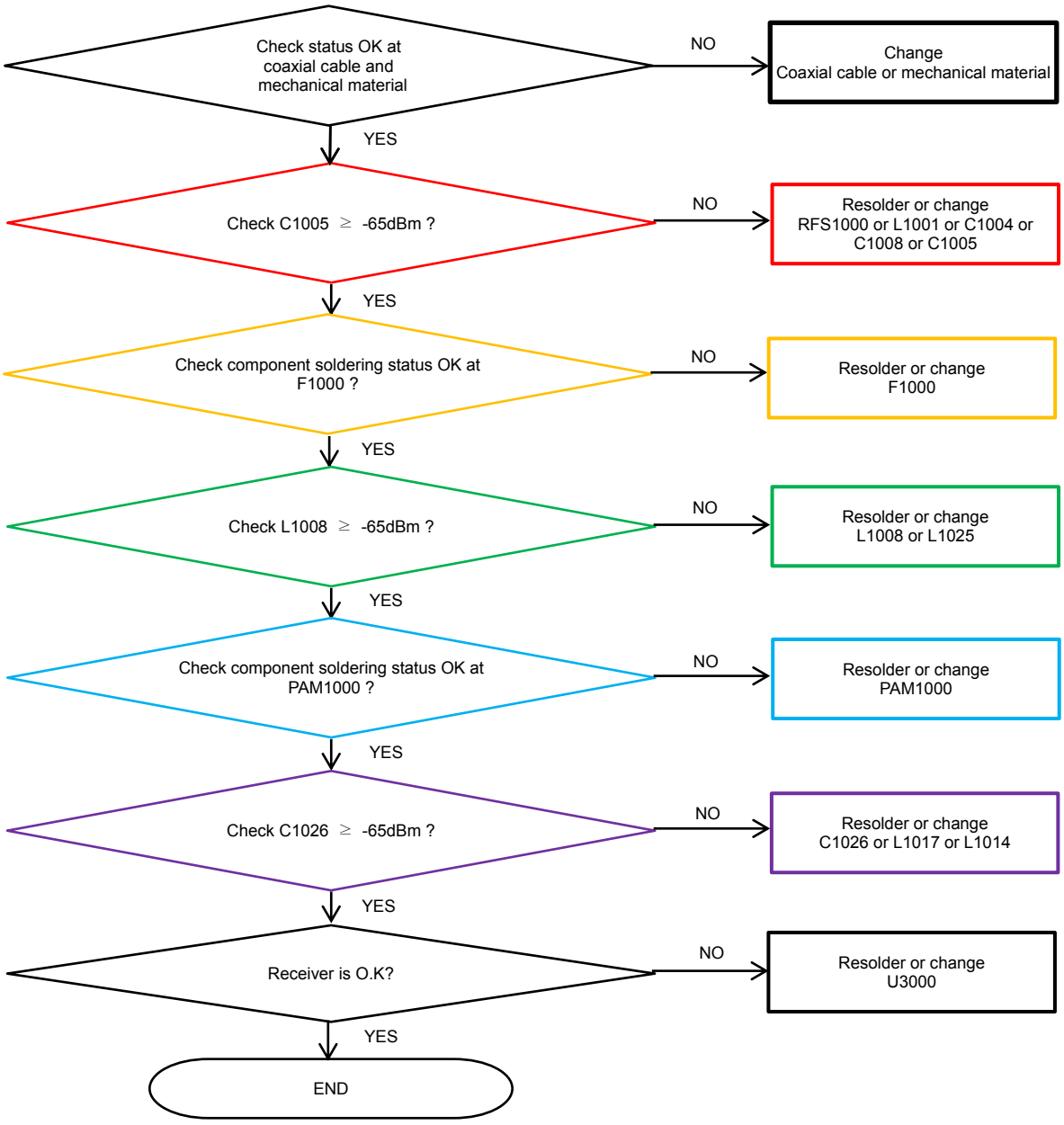
8. Level 3 Repair

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



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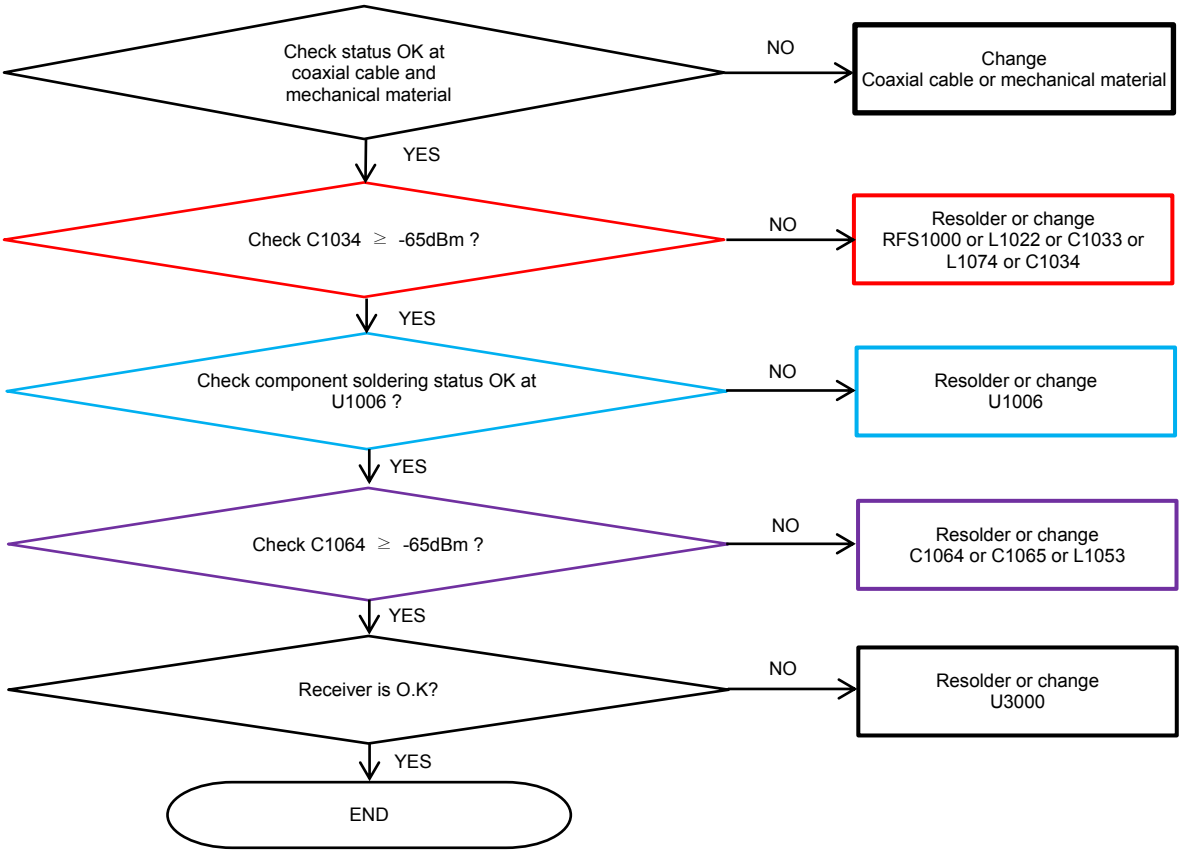
8. Level 3 Repair

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



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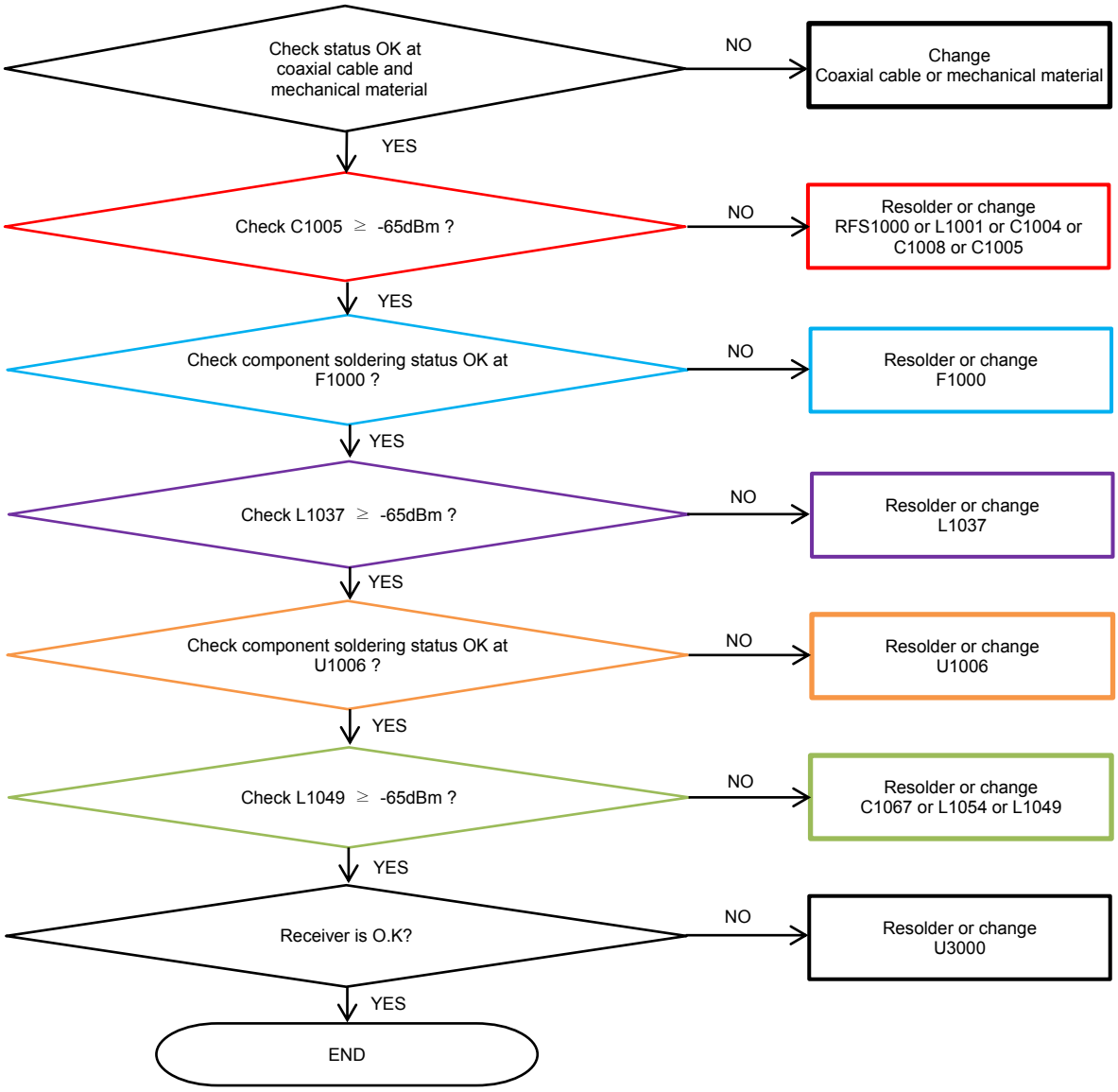
8. Level 3 Repair

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



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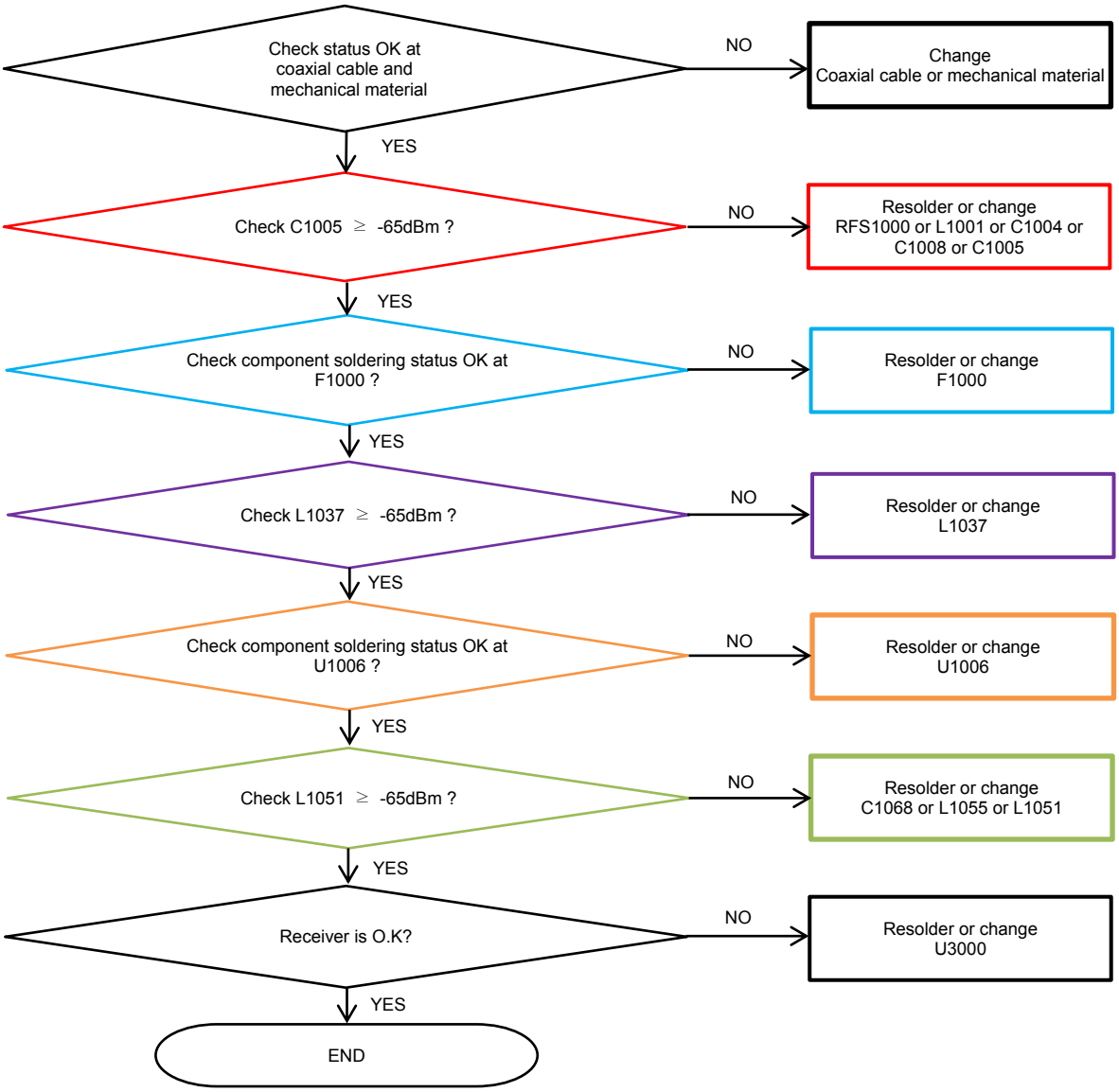
8. Level 3 Repair

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



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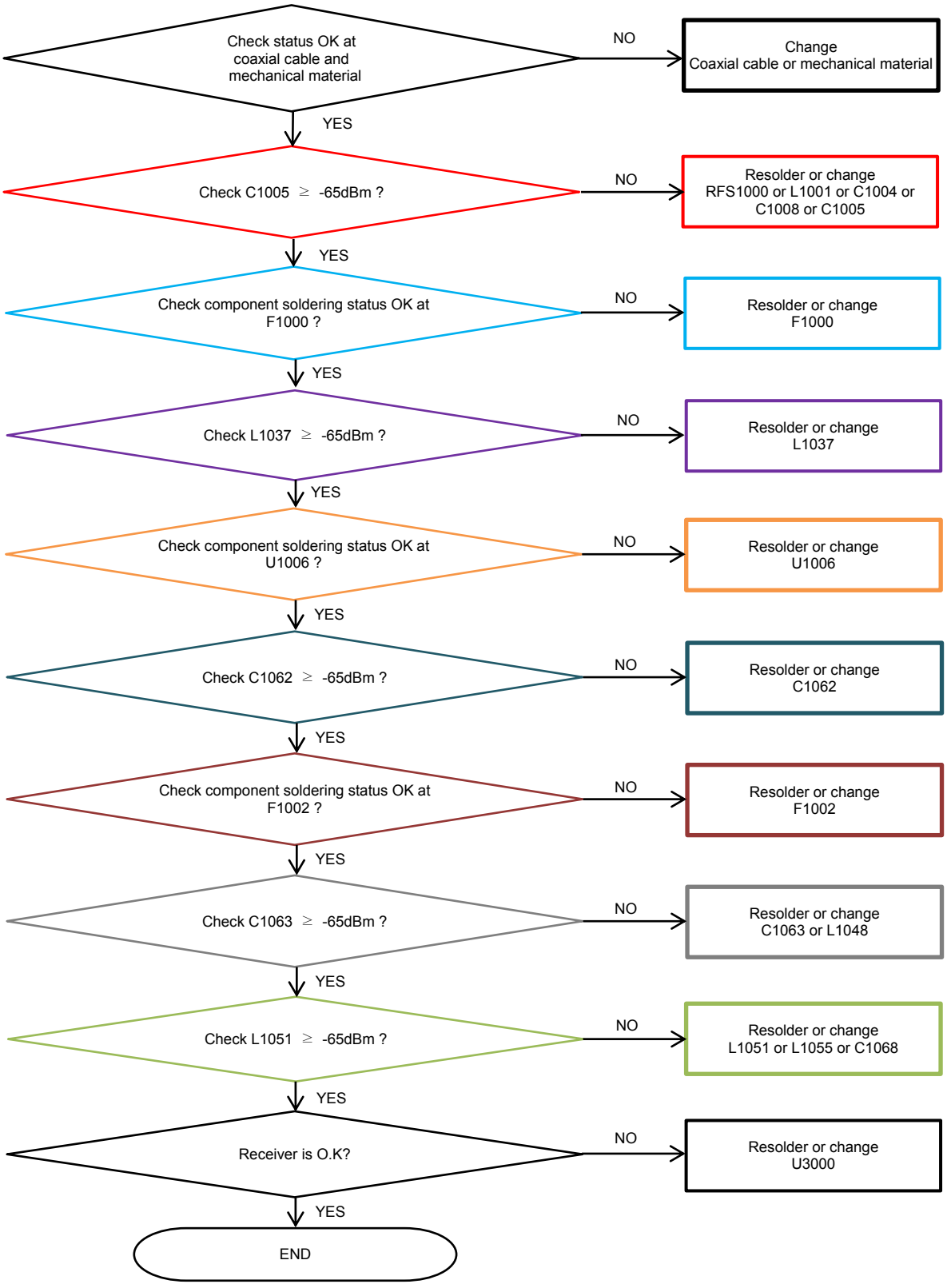
8. Level 3 Repair

8-4-27. TDSCDMA B34 PRx



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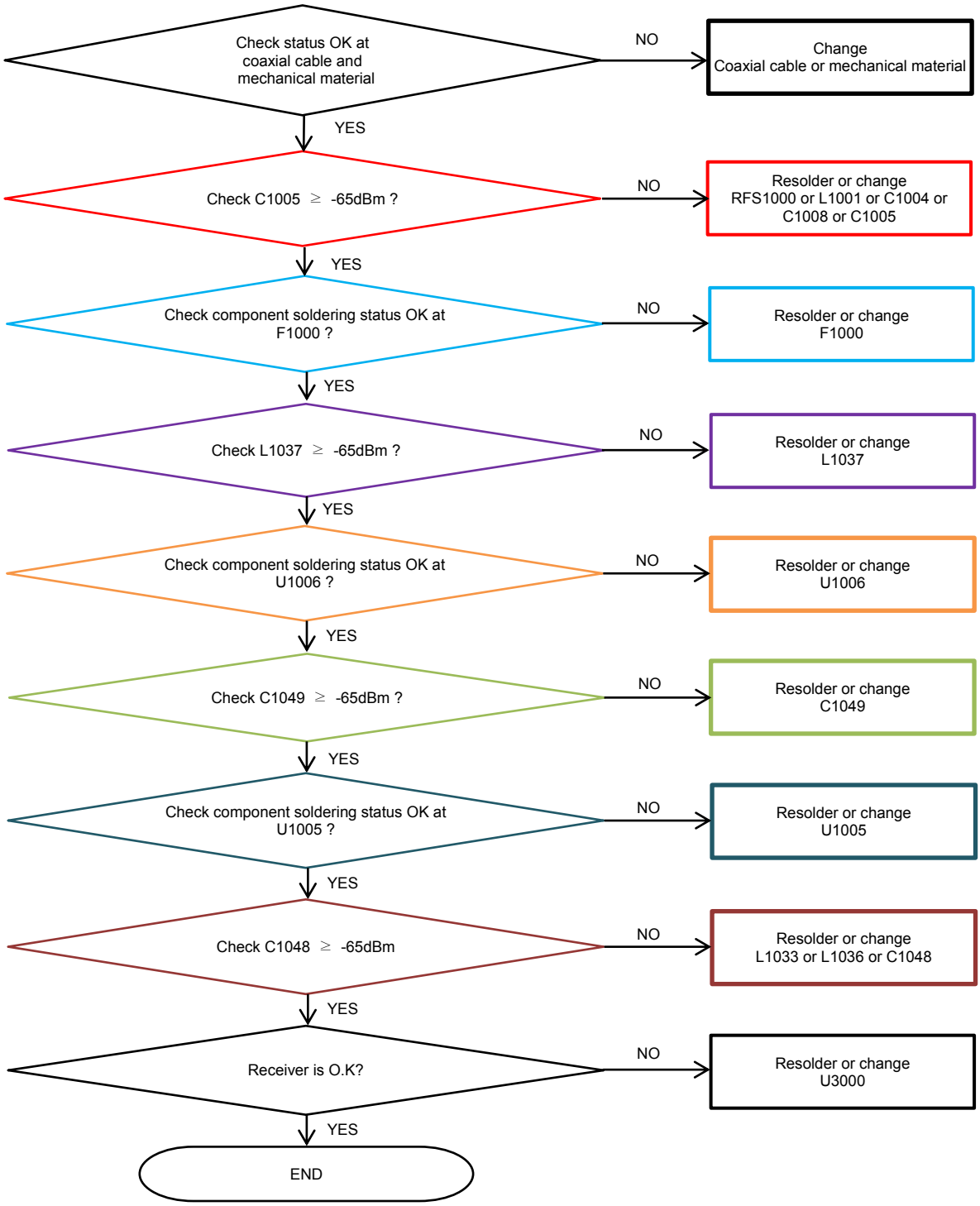
8. Level 3 Repair

8-4-28. LTE B32 PRx



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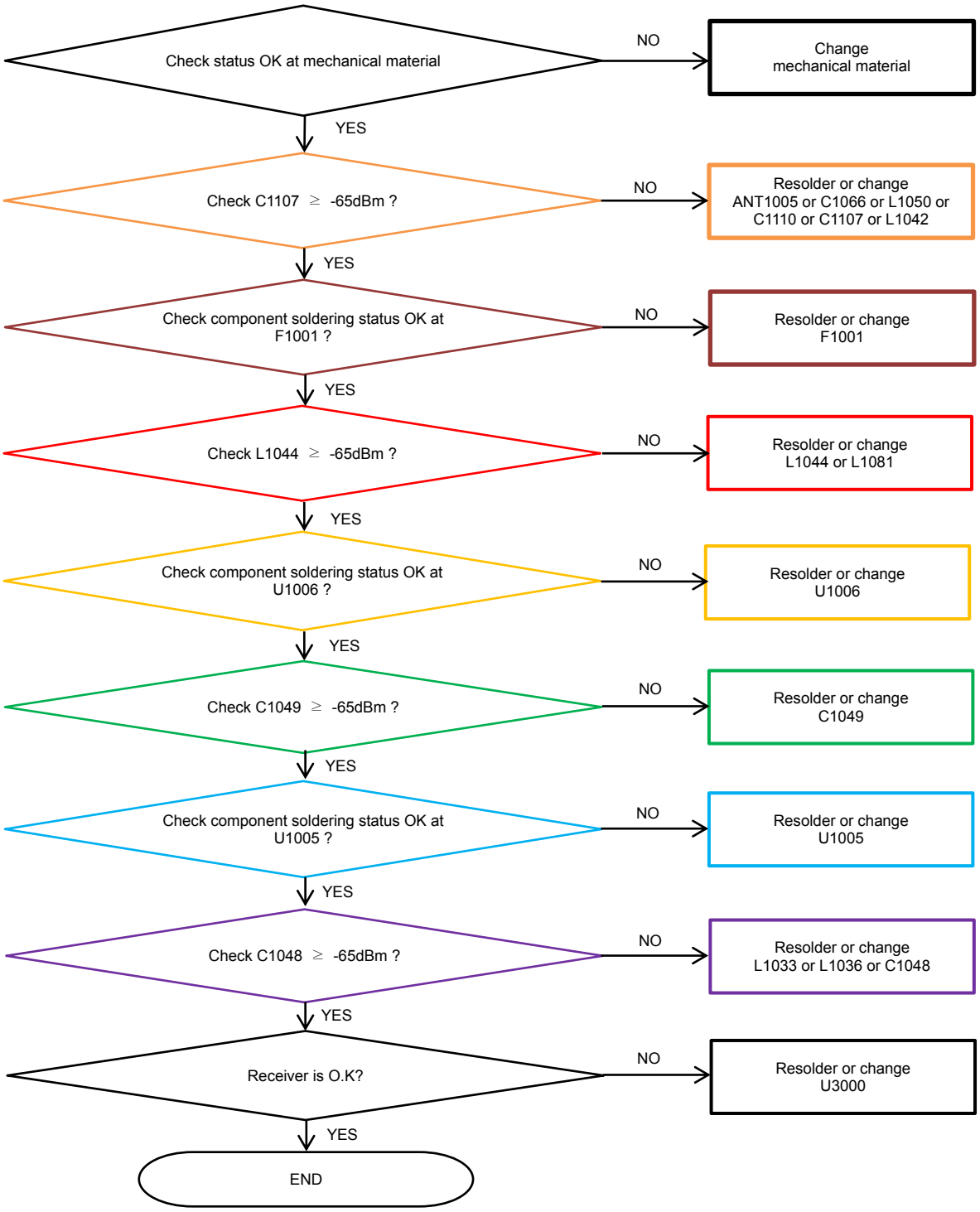
8. Level 3 Repair

8-4-29. LTE B1/4/66 4Rx_PRx



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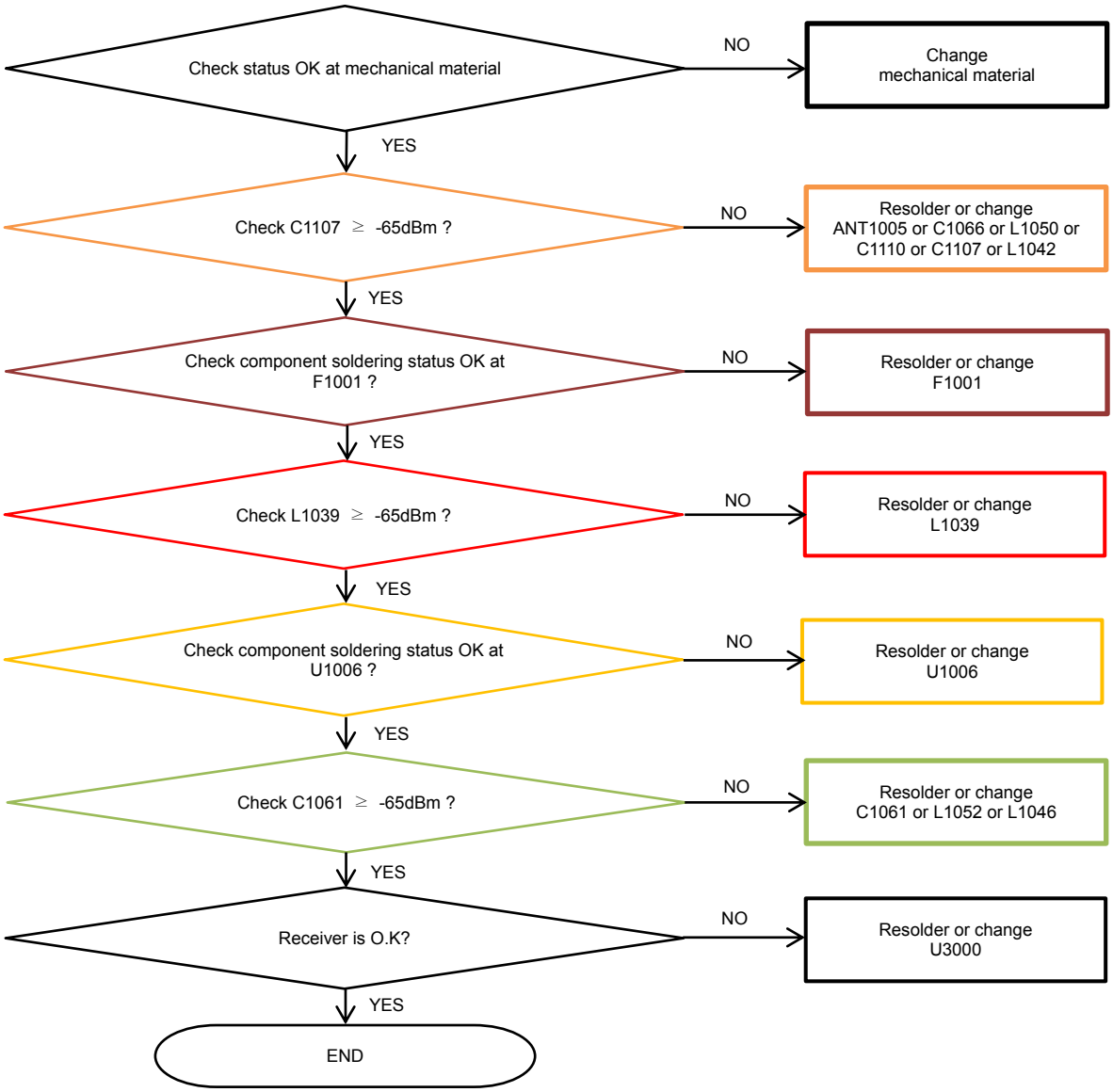
8. Level 3 Repair

8-4-30. LTE B3 4Rx_PRx



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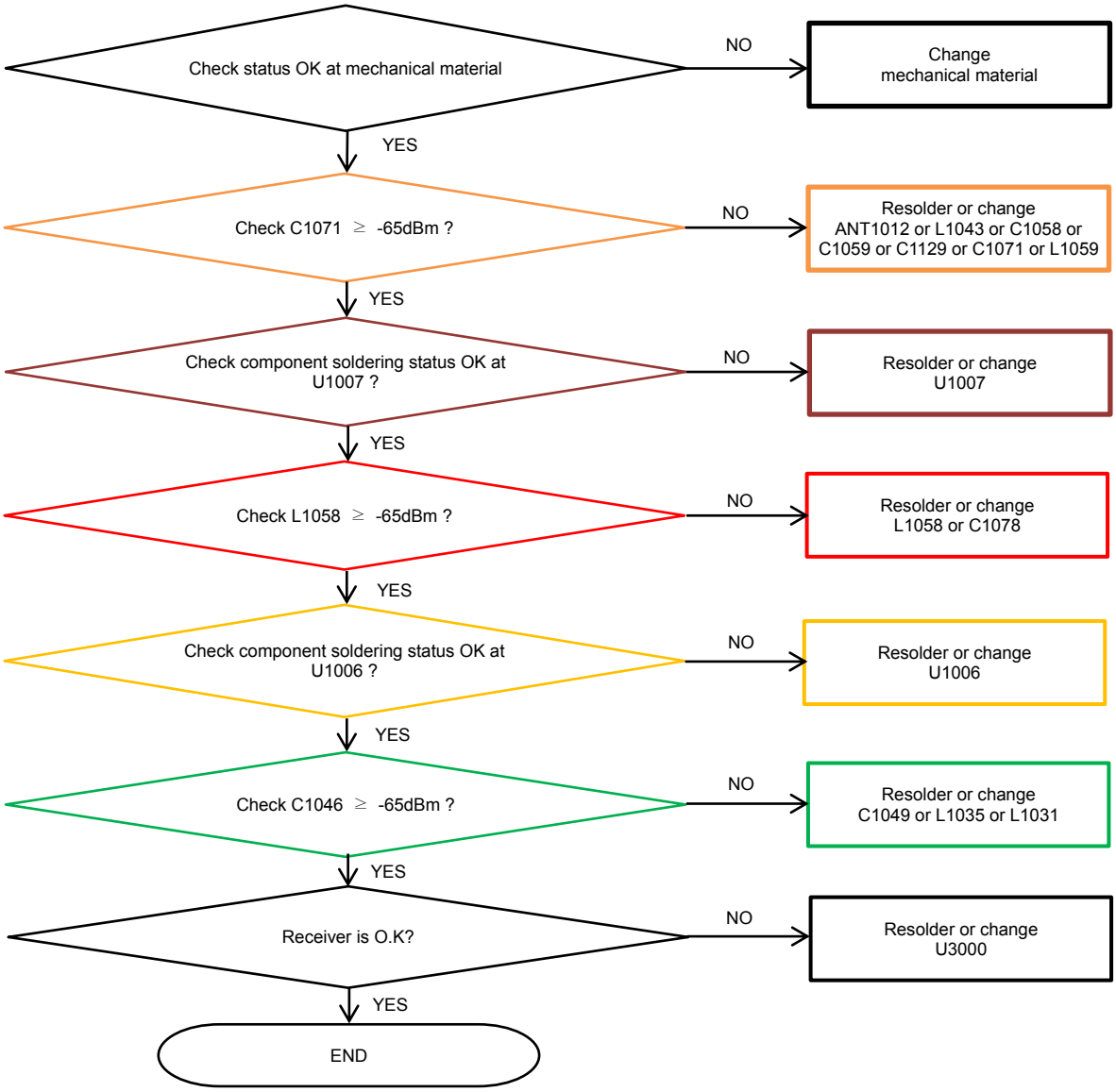
8. Level 3 Repair

8-4-31. LTE B7 4Rx_PRx



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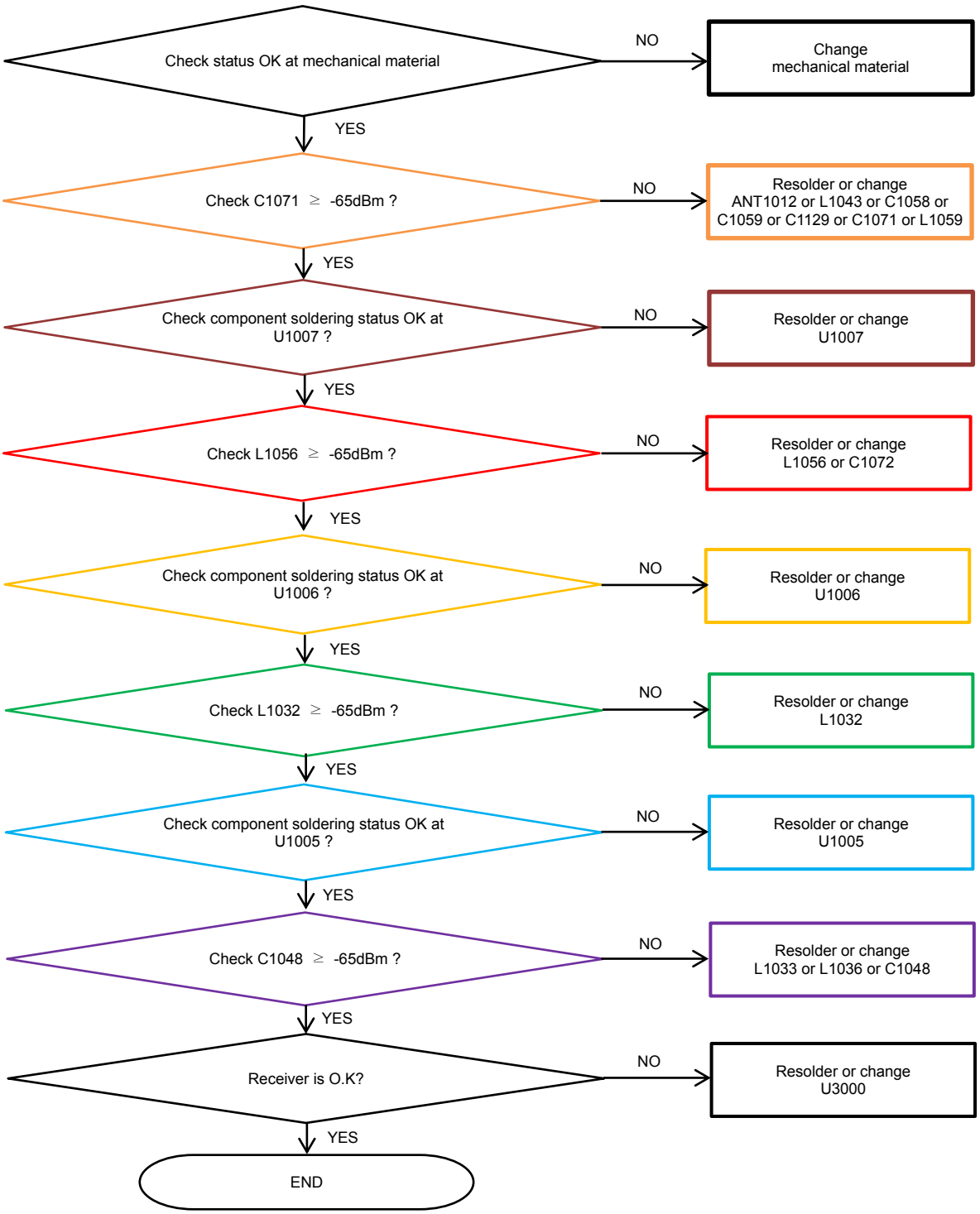
8. Level 3 Repair

8-4-32. LTE 40 4Rx_PRx



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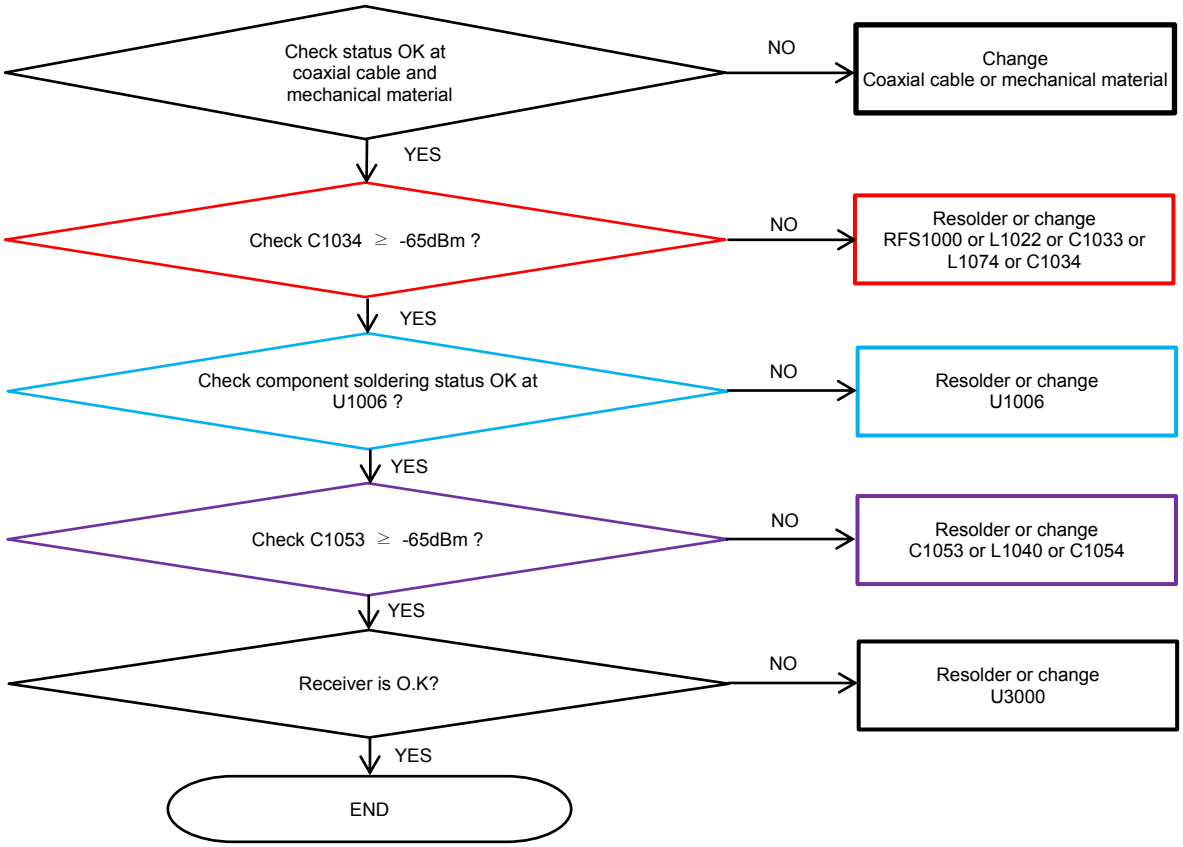
8. Level 3 Repair

8-4-33. LTE B40 SCC



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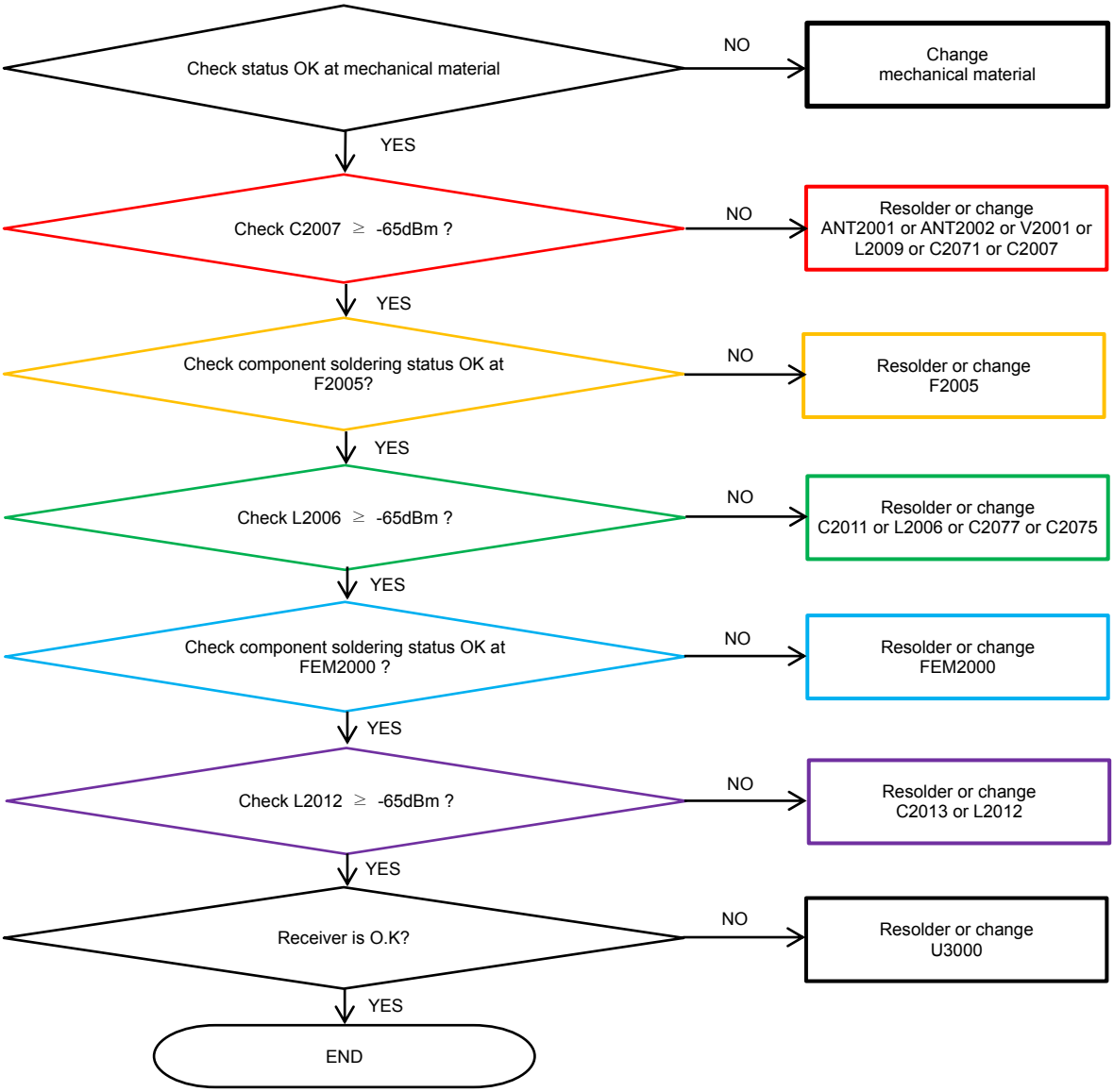
8. Level 3 Repair

8-4-34. GSM850/900, WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 DRx



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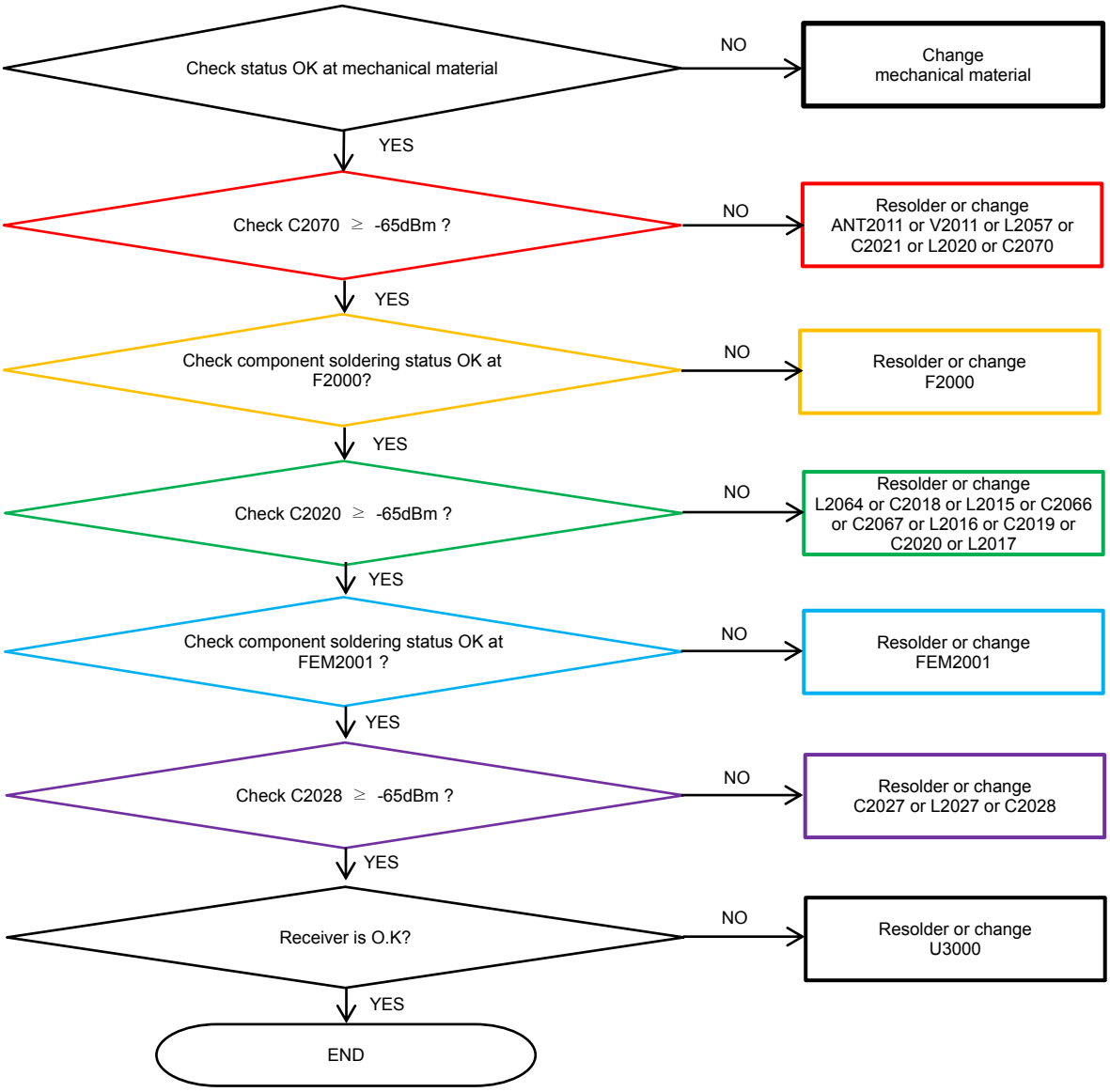
8. Level 3 Repair

8-4-35. DCS1800/PCS1900, WCDMA B2, LTE B2/3/25 DRx



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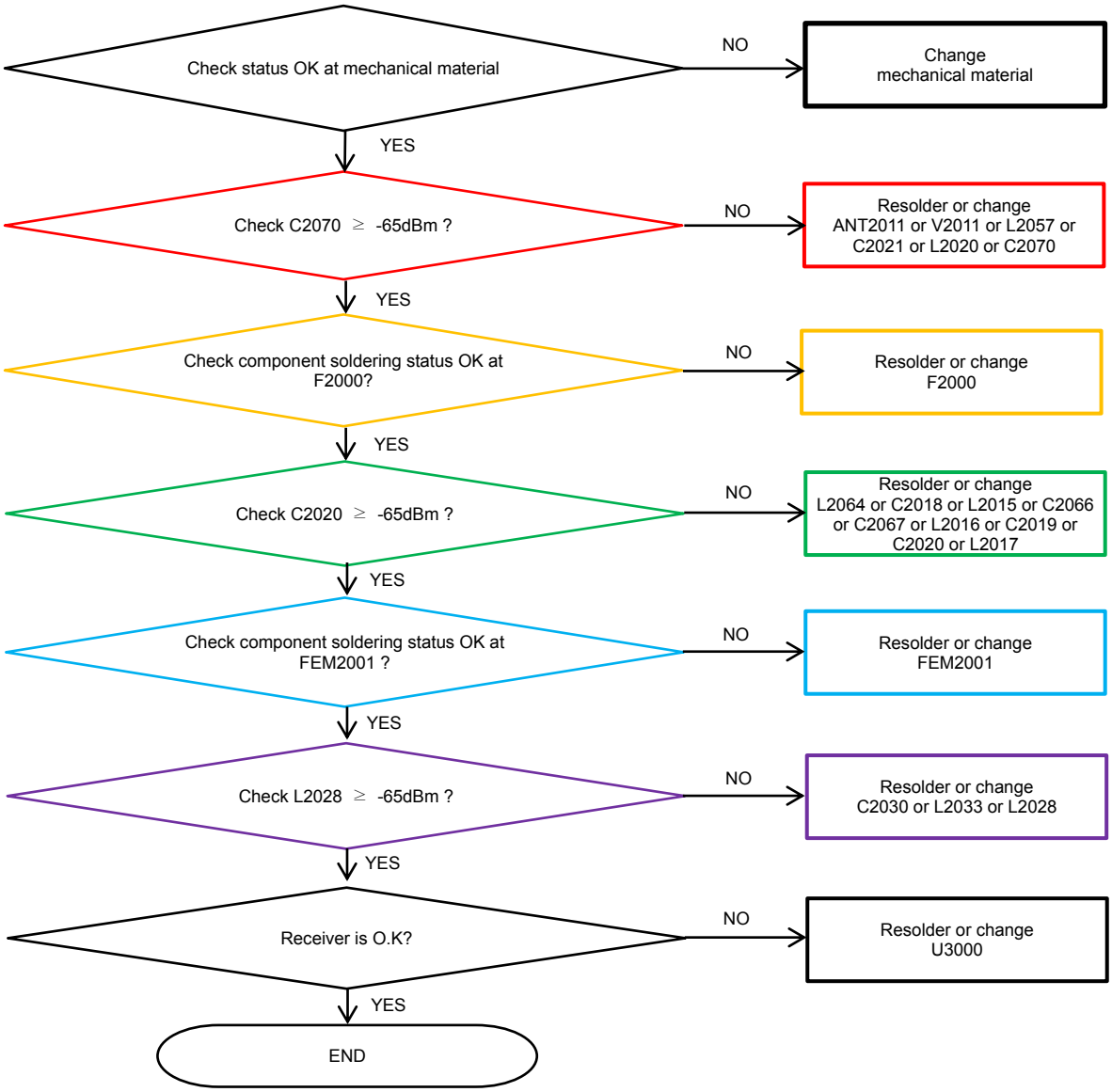
8. Level 3 Repair

8-4-36. WCDMA B1/4, LTE B1/4/66 DRx



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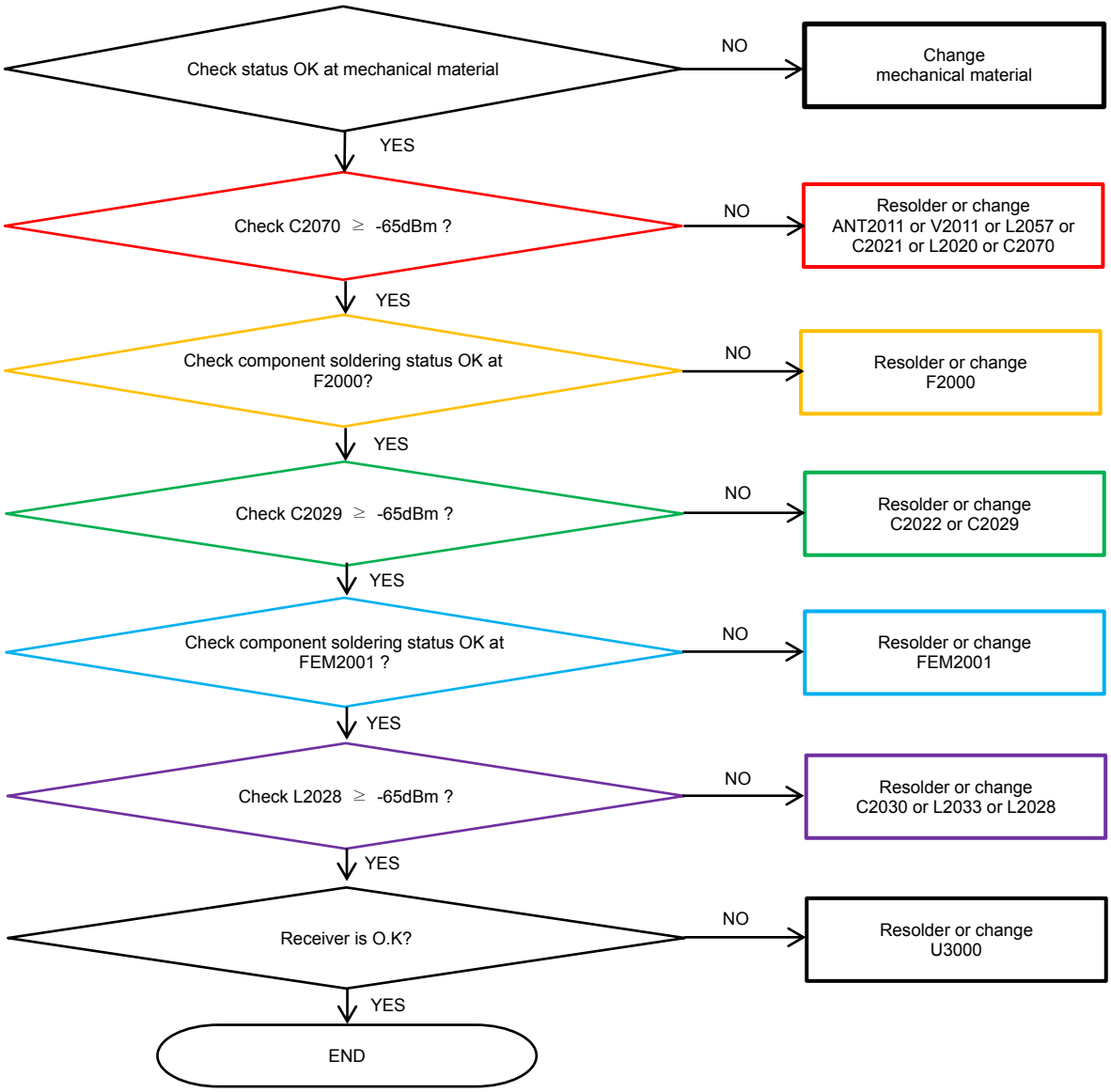
8. Level 3 Repair

8-4-37. LTE B32 DRx



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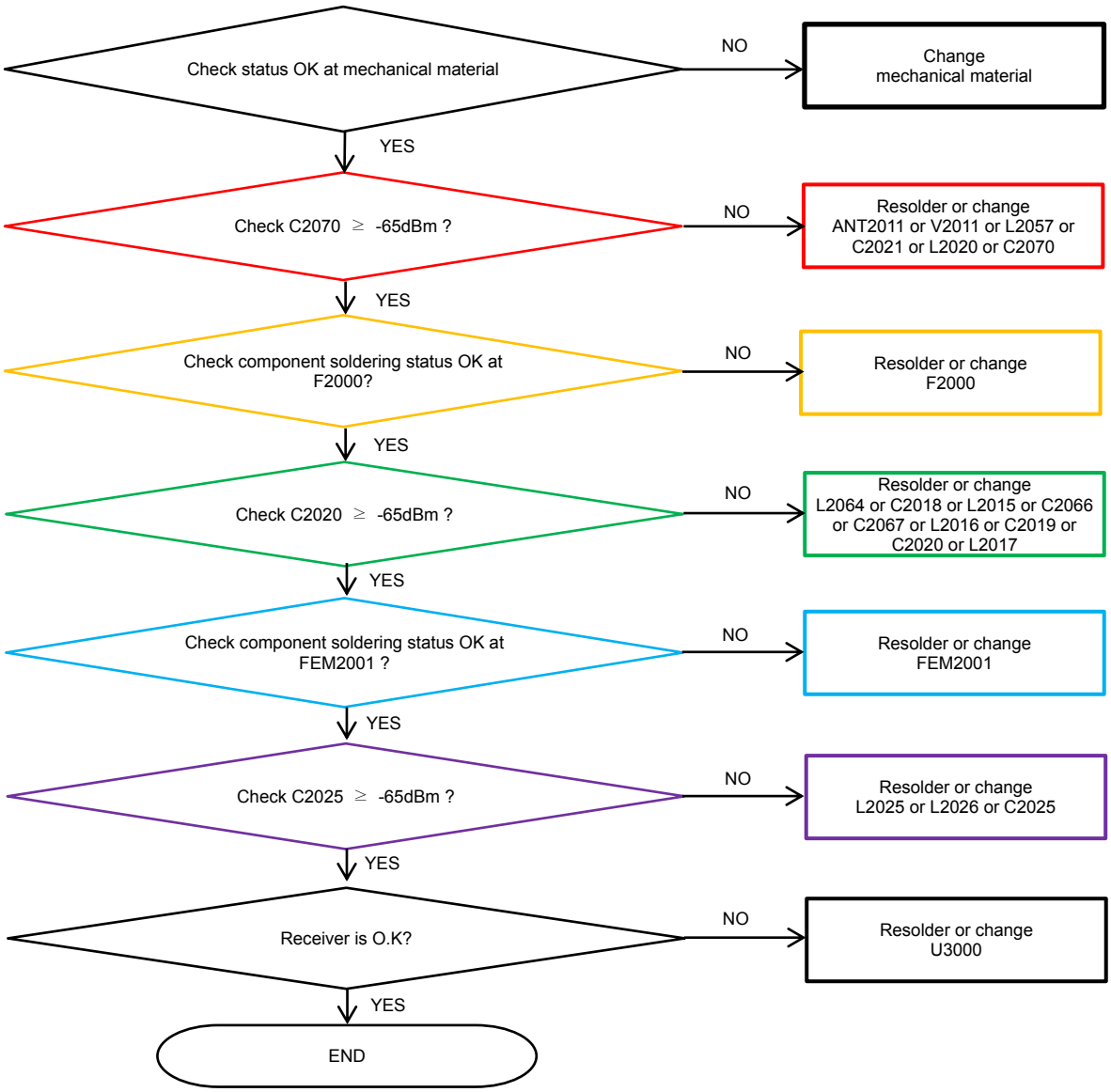
8. Level 3 Repair

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



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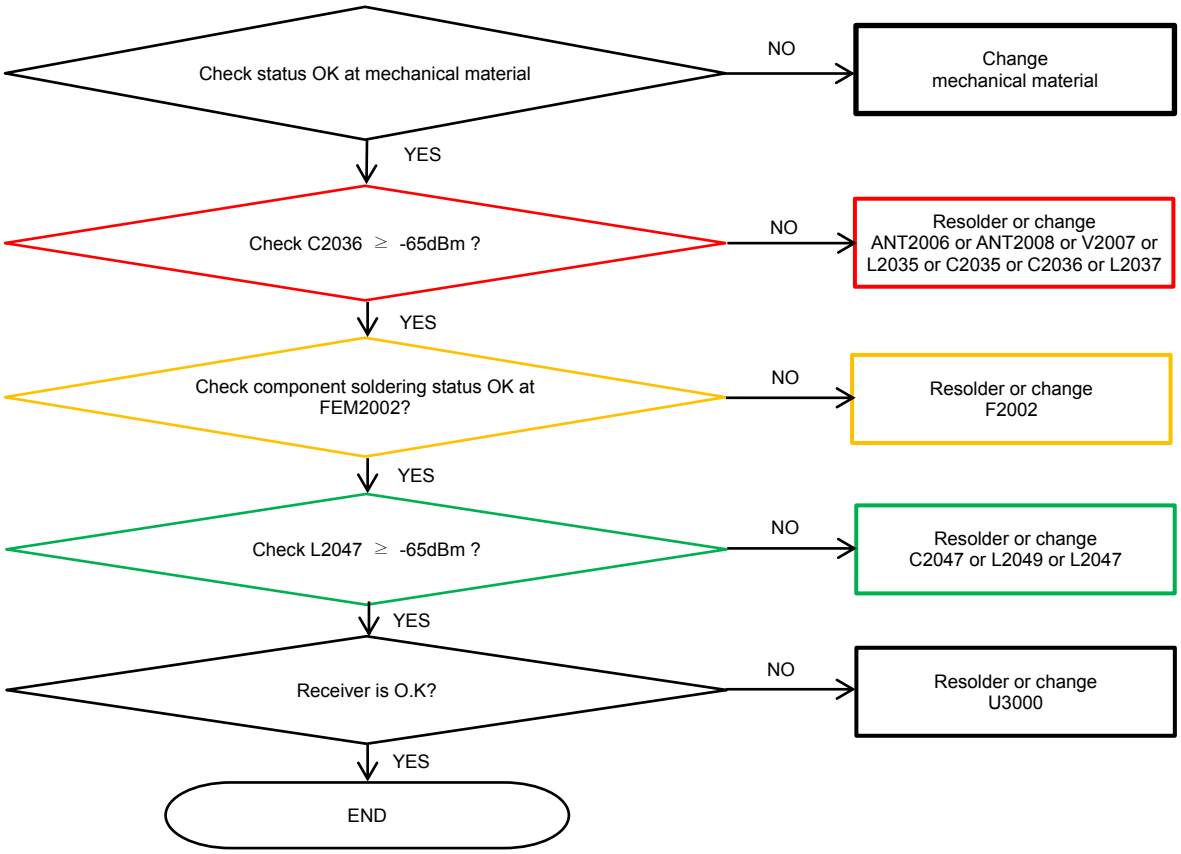
8. Level 3 Repair

8-4-39. LTE B1/4/66 4Rx_DRx



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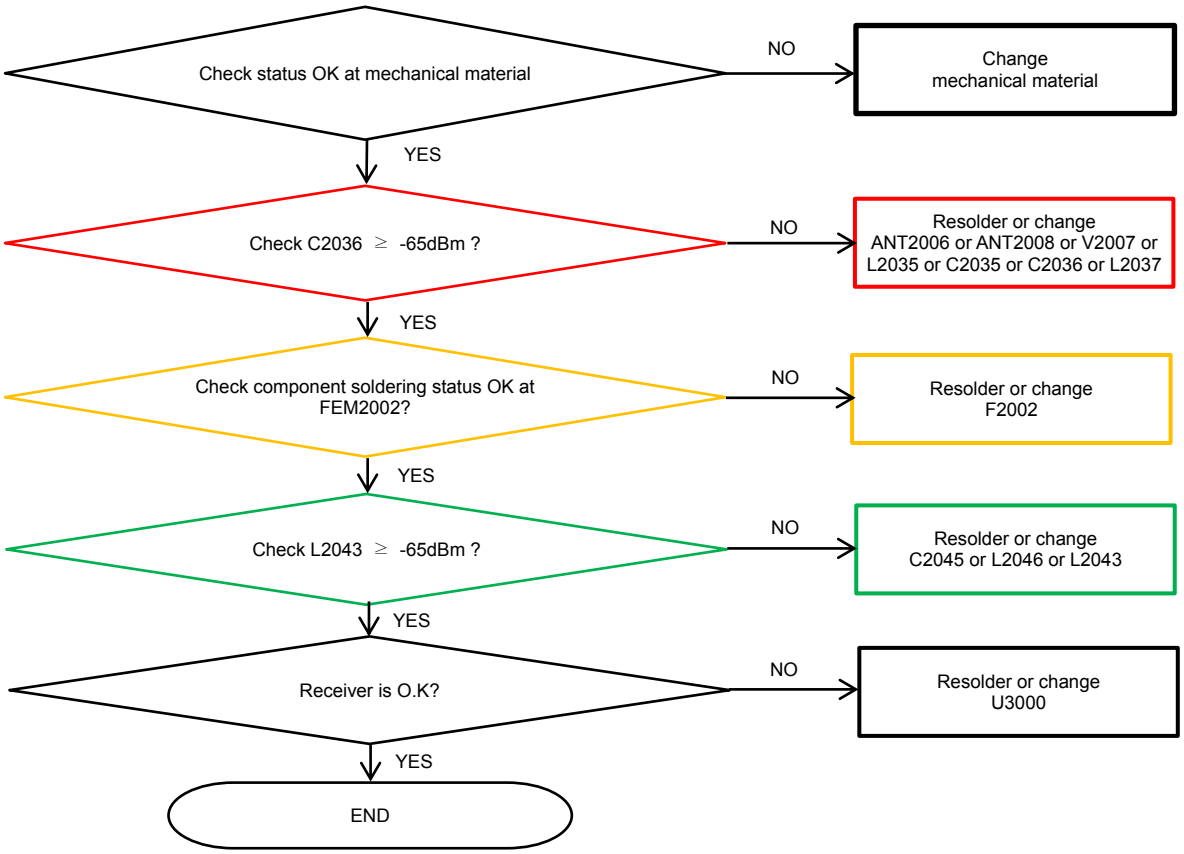
8. Level 3 Repair

8-4-40. LTE B3 4Rx, LTE B39 DRx



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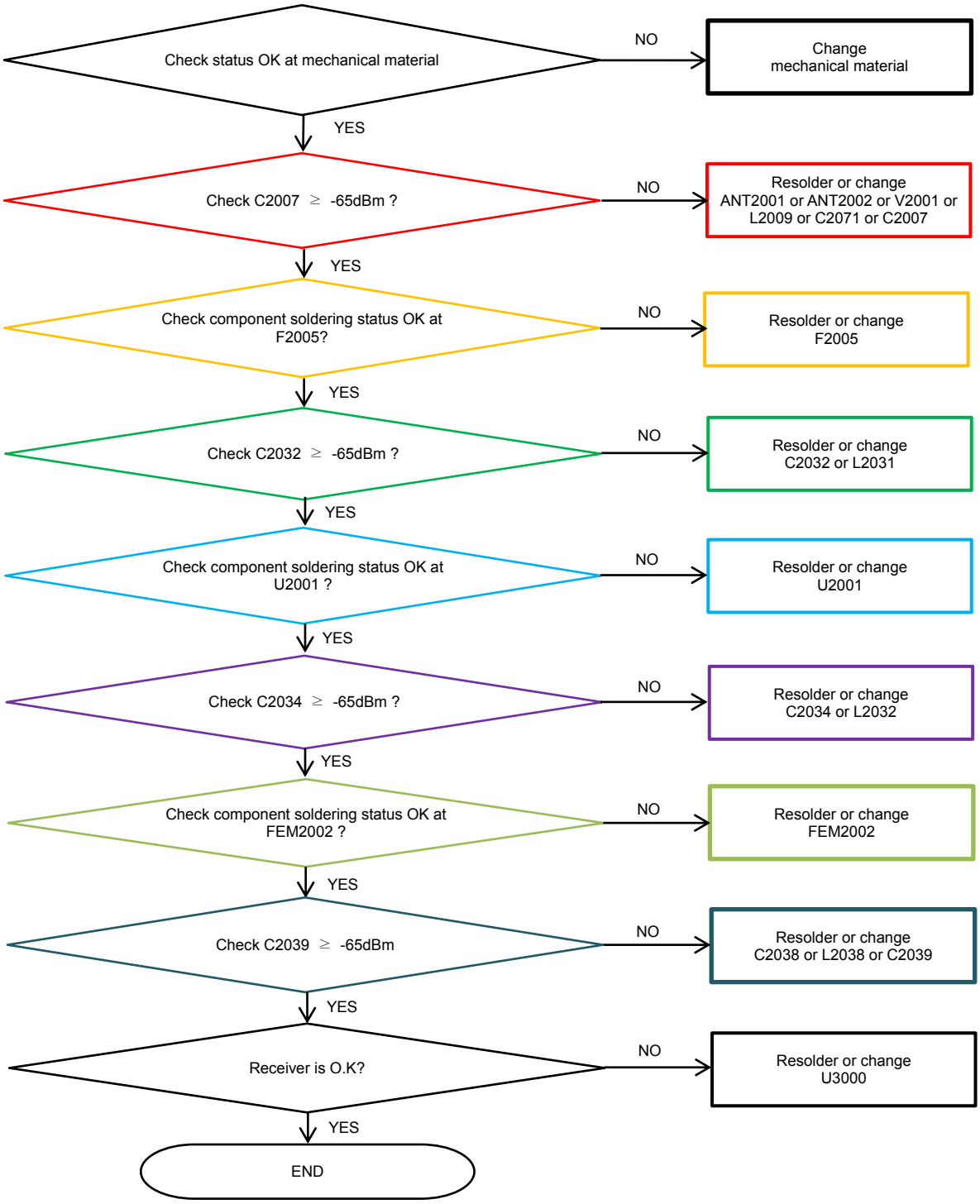
8. Level 3 Repair

8-4-41. LTE B7 4Rx_DRx



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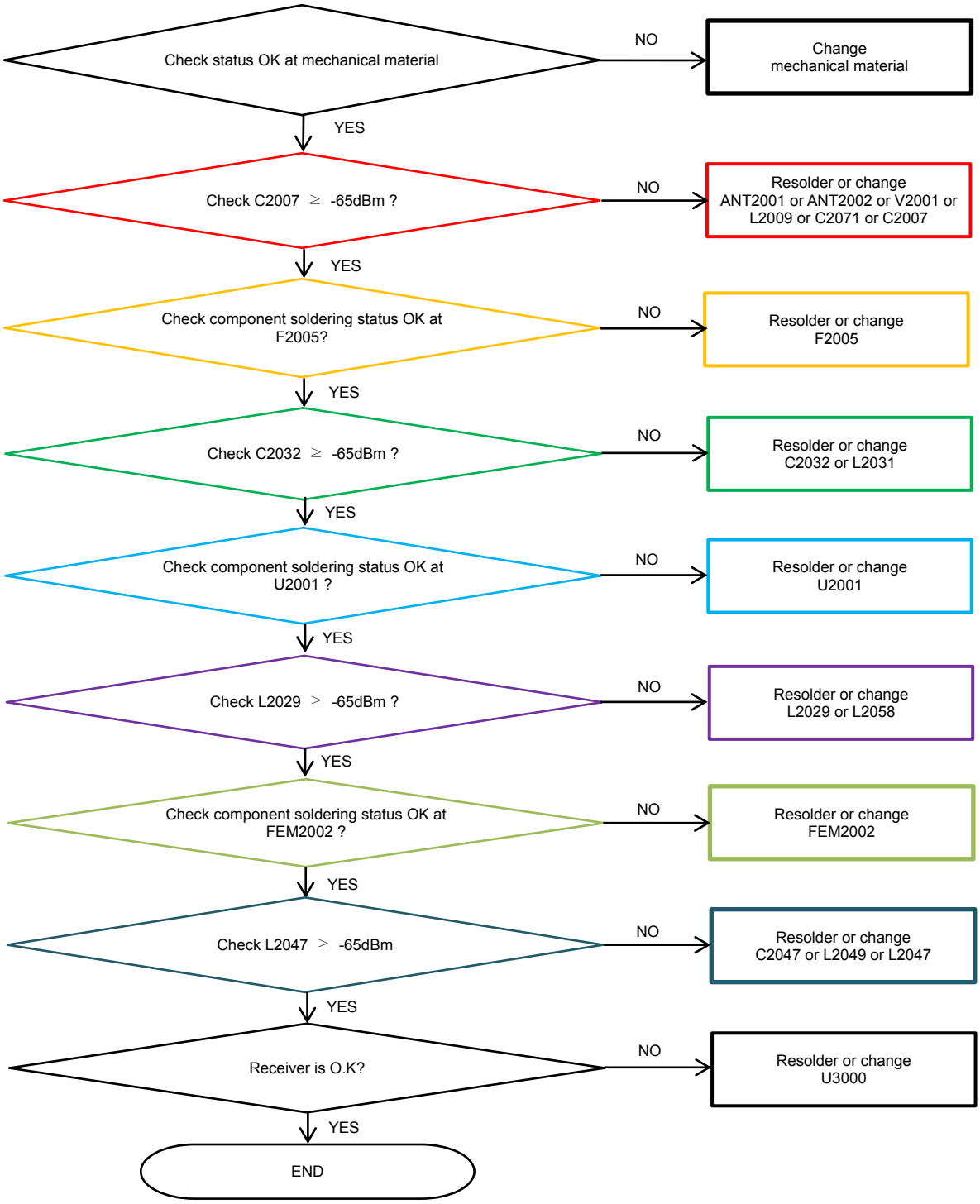
8. Level 3 Repair

8-4-42. LTE B40 4Rx_DRx



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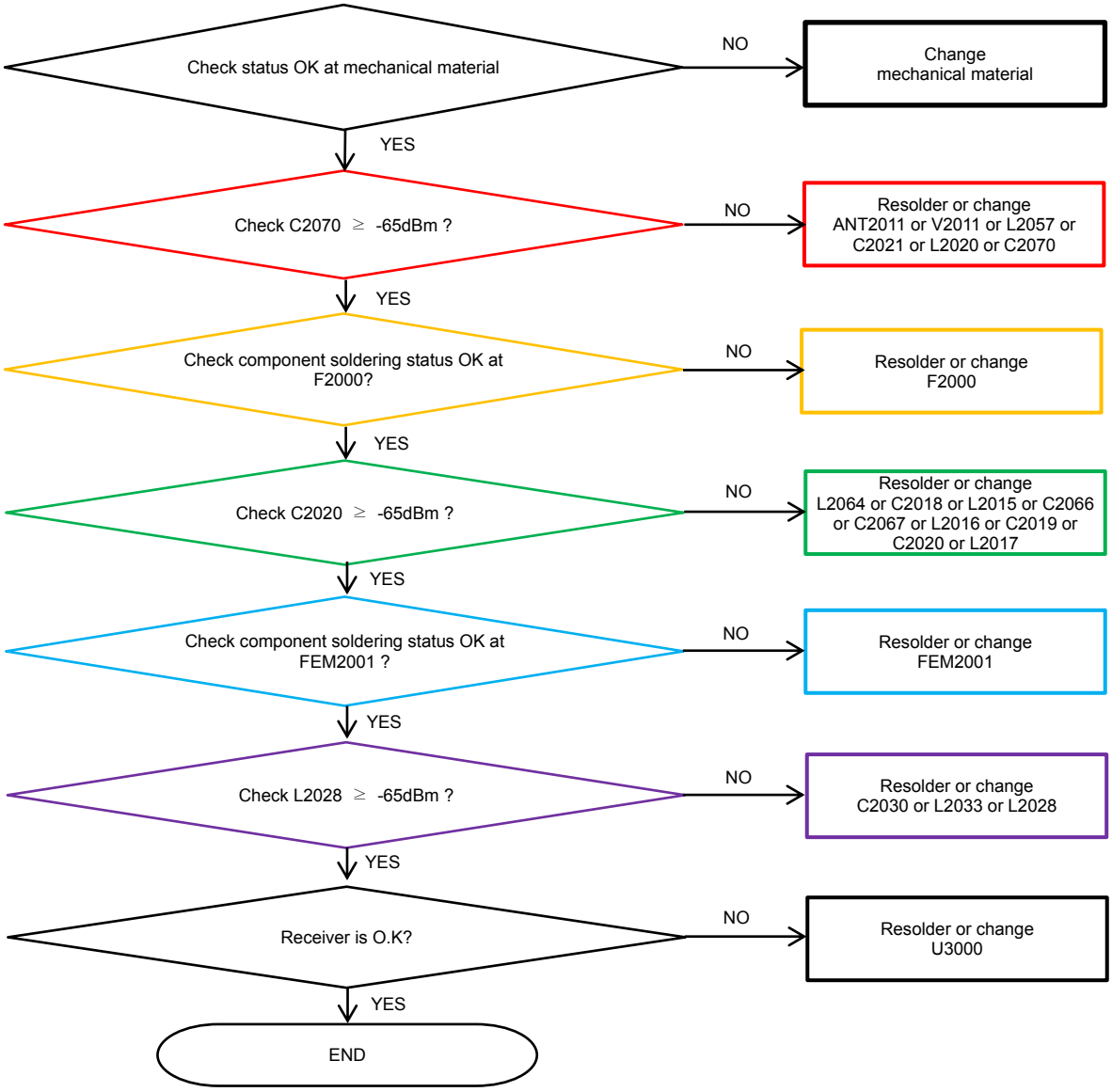
8-4-43. LTE B40_SCC_DRx



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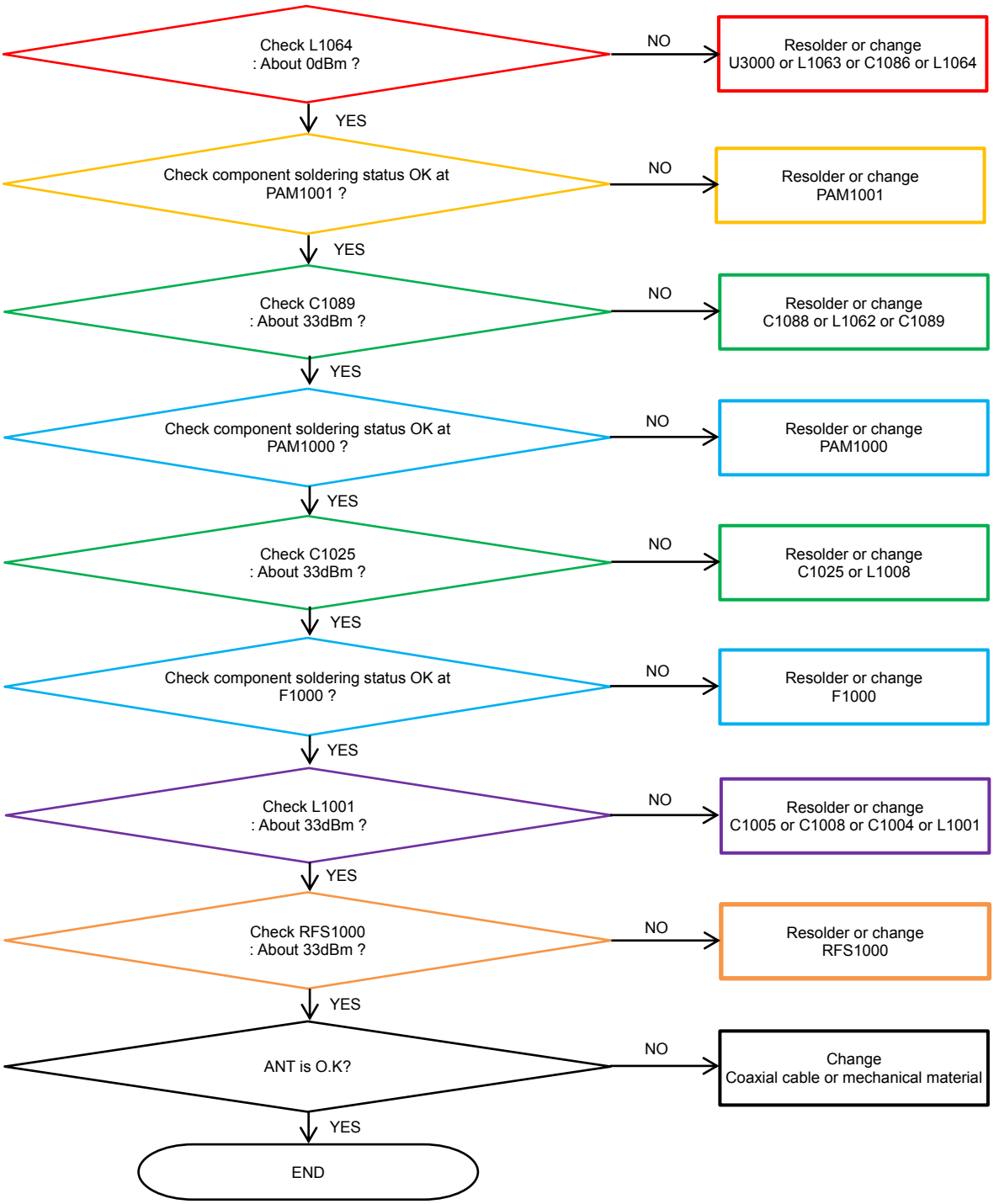
8. Level 3 Repair

8-4-44. GSM 850/900 Tx



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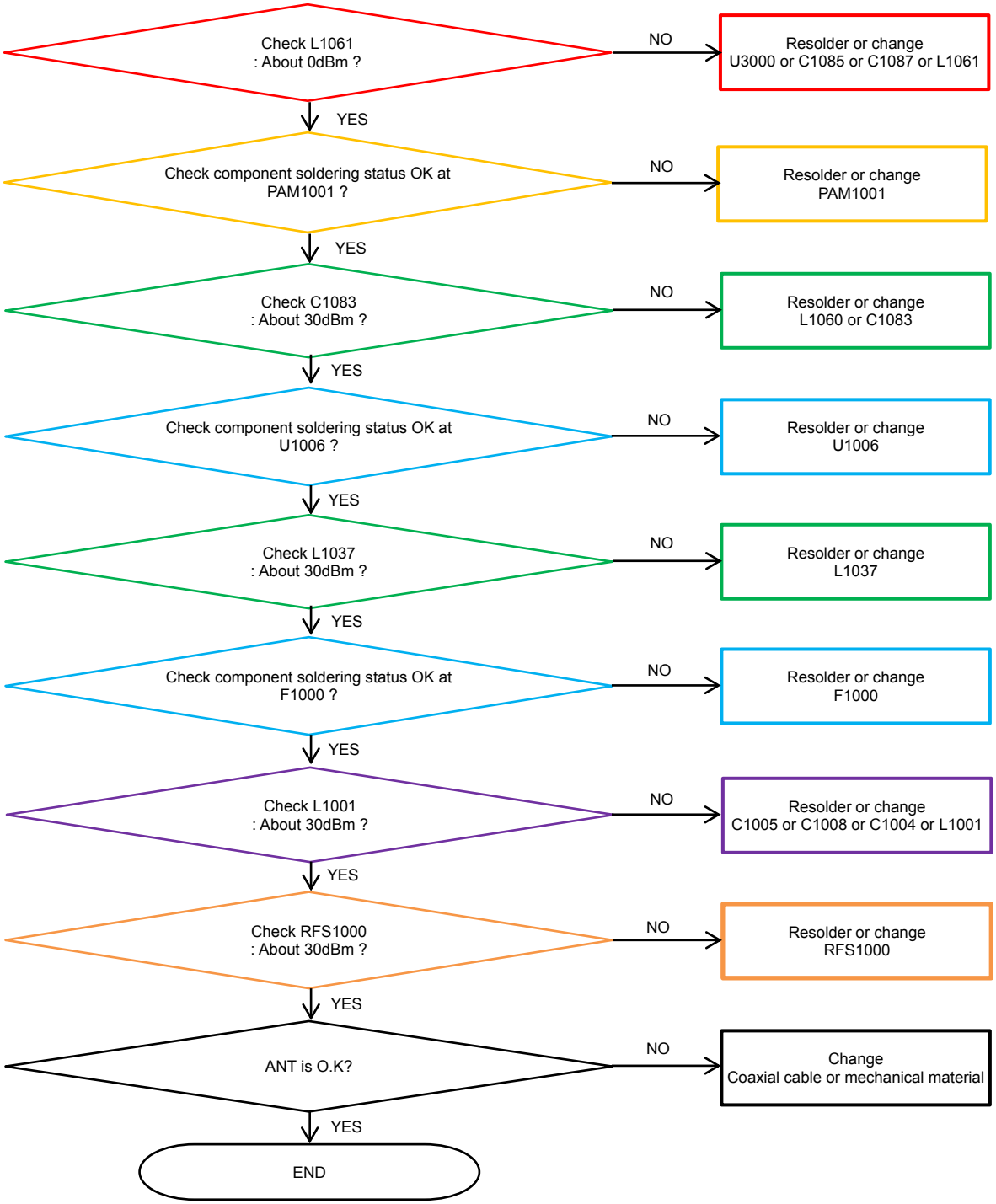
8. Level 3 Repair

8-4-45. DCS1800/PCS1900 Tx



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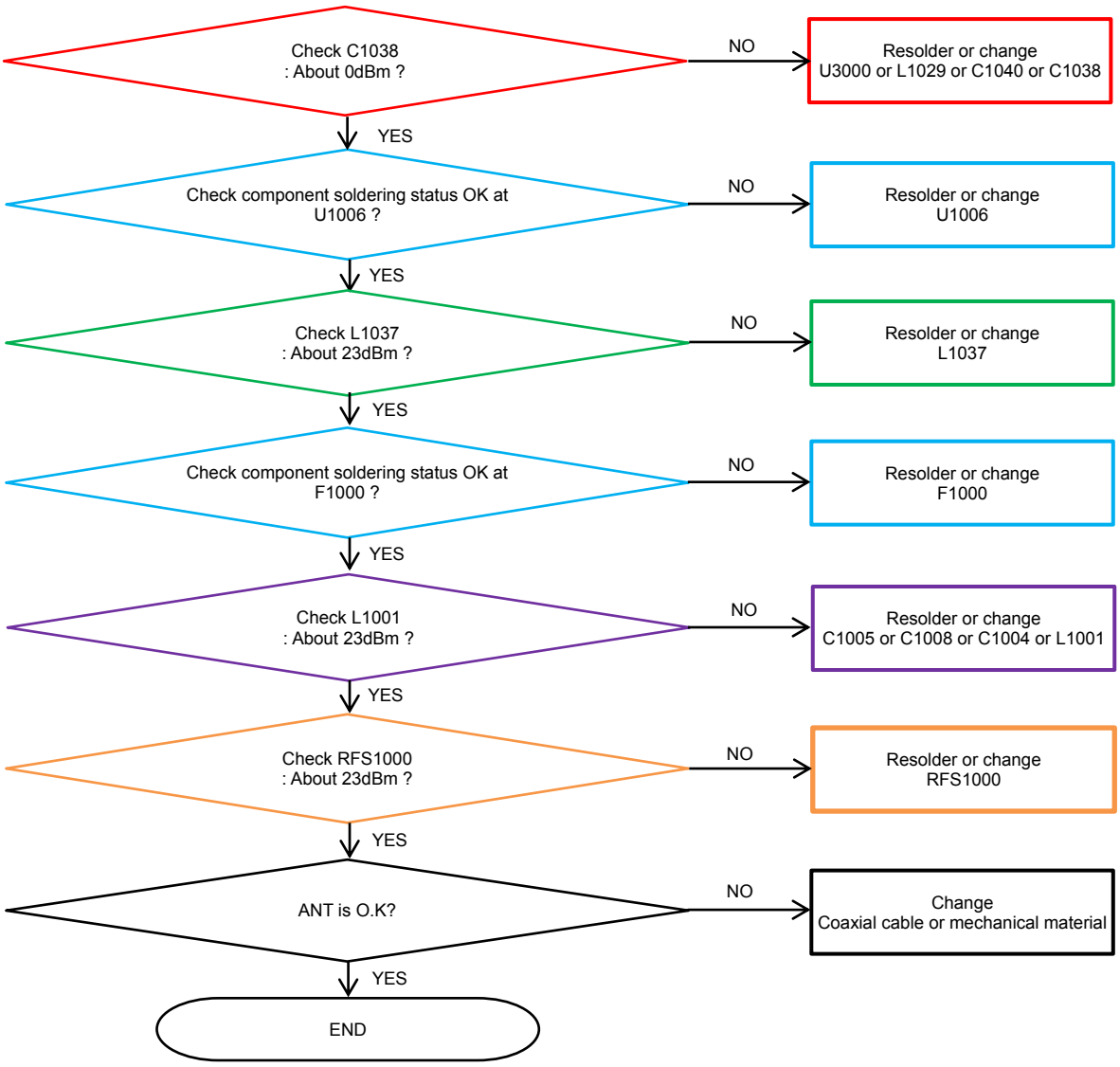
8. Level 3 Repair

8-4-46. WCDMA B1/2/4, TDSCDMA B34/39, LTE B1/2/3/4/25/34/39 Tx



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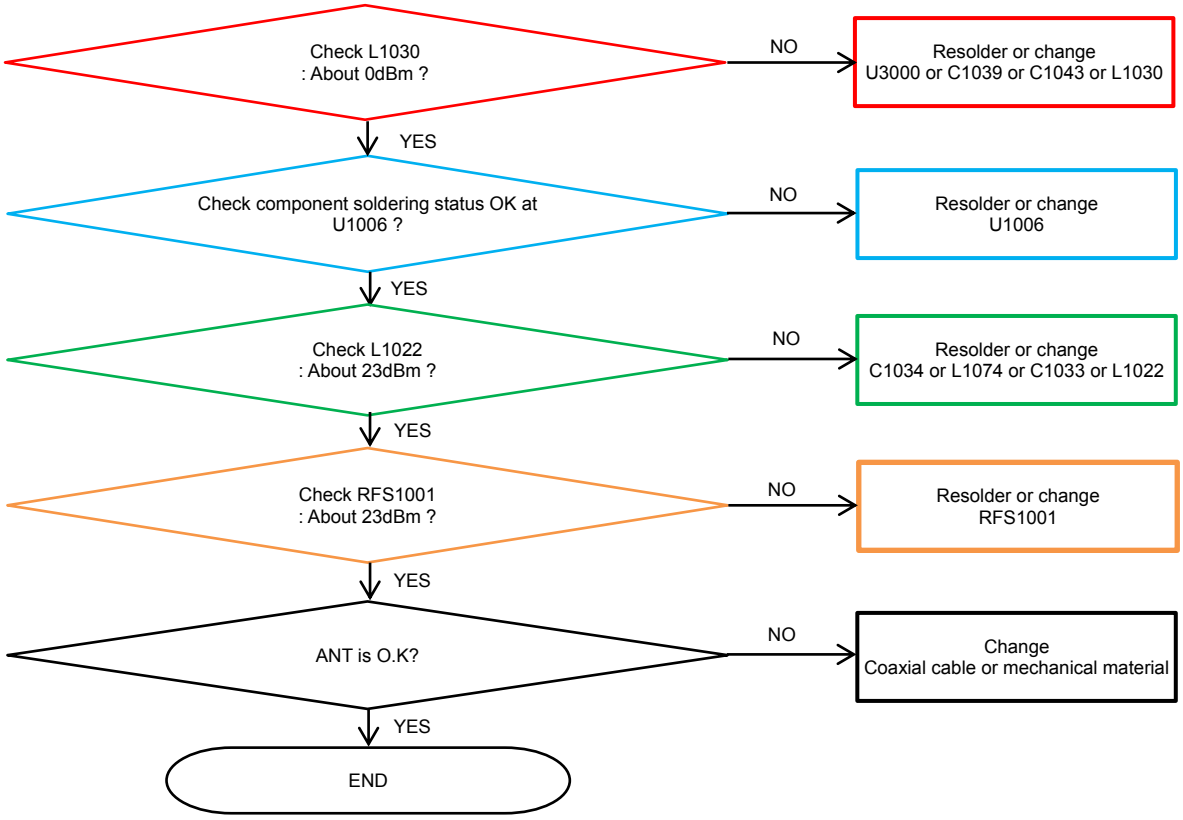
8-4-47. TDSCDMA B38/40/41, LTE B7/38/40/41 Tx



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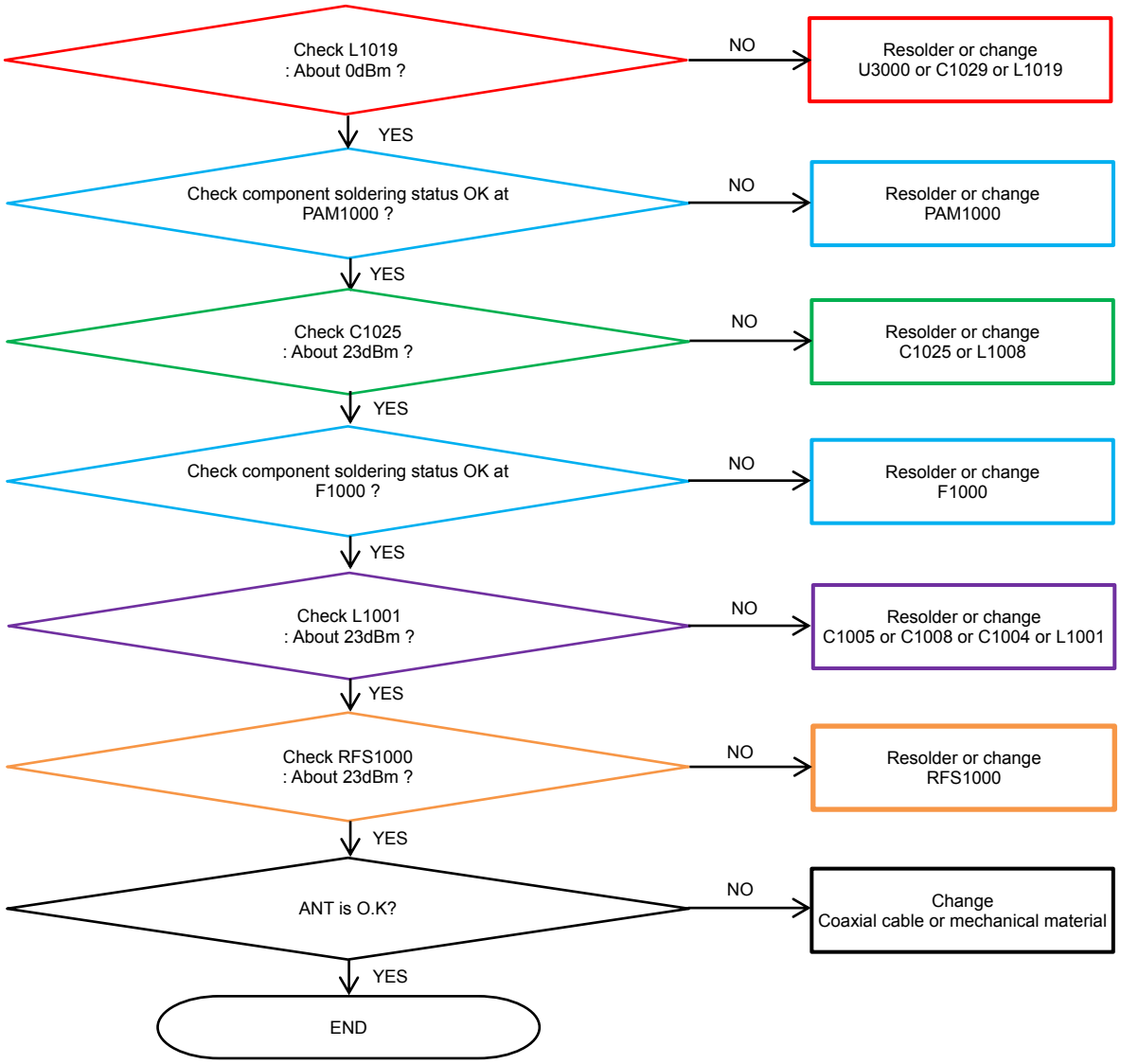
8. Level 3 Repair

8-4-48. WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 Tx



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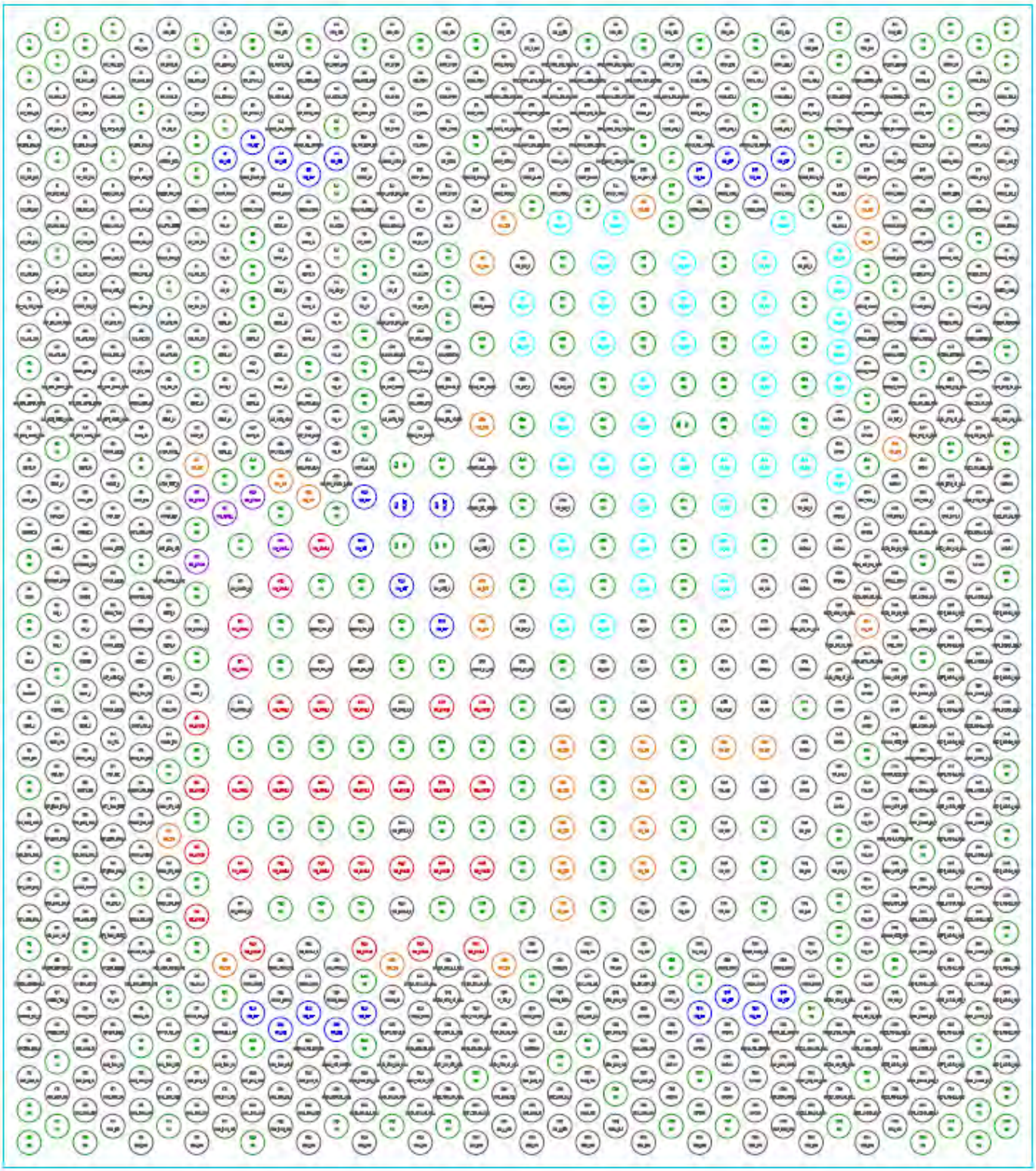
8. Level 3 Repair

8-5. Service Schematics

- AP Top view



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