سرویس منوآل ،کالبدشکافی و شماتیک

گوشی سامسونگ S10e

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7. Level 2 Repair

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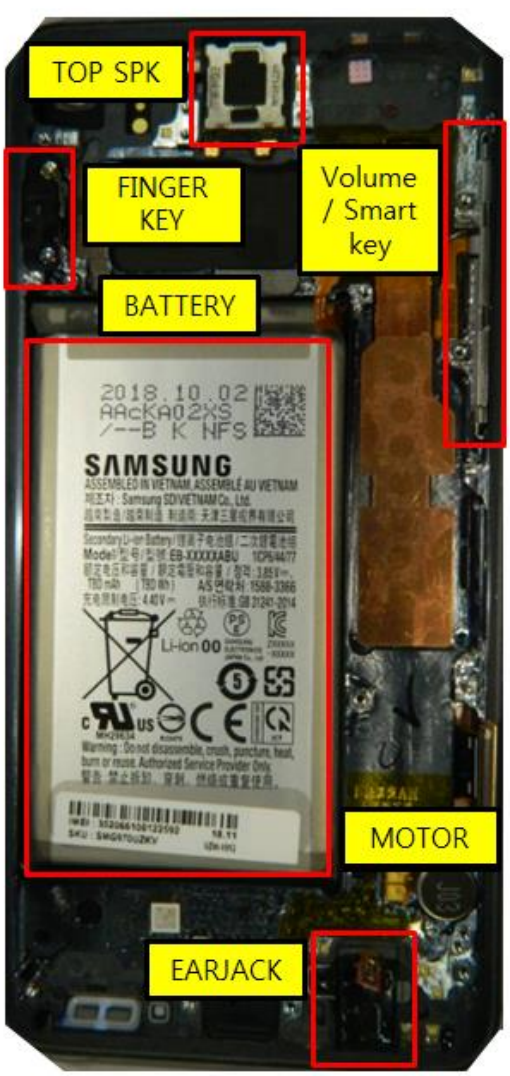
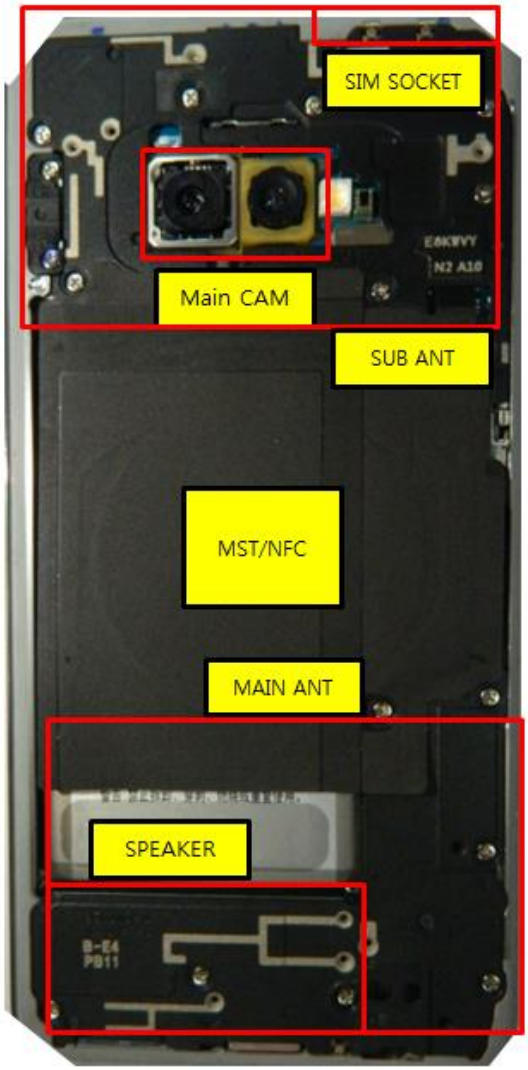
7-1. Components on the Rear Case





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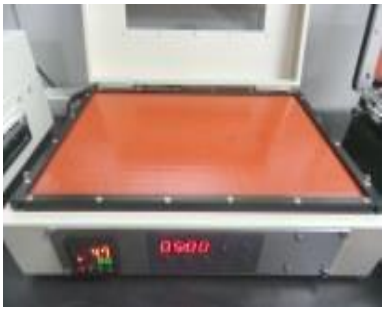
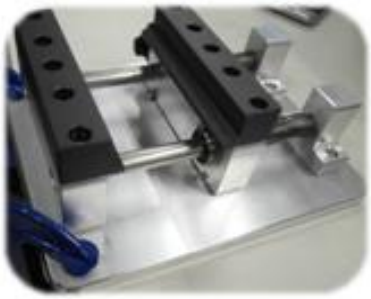
7. Level 2 Repair

7-2. Pre-requisite

Tweezers / Disass'y Stick / Screw Driver	**Anti-static Gloves**
	
Anti-static Mat	**Hot Plate**
	
A OCTA Disassembly Holder	**OCTA Disassembly Upper**
Ethyl Alcohol	**Cotton Swab**

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7. Level 2 Repair

7-3. Parts which must be changed after repair

BOM description & part code	KIT code	Image	Remarks
Backglass Outside tape **[GH81-16436A]**	**GH82-18798A**		**Replace for Backglass**
Cam sealing tape **[GH02-17355A]**			
Mic sealing tape **[GH02-07406A]**			

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7. Level 2 Repair

7-4. Disassembly

1

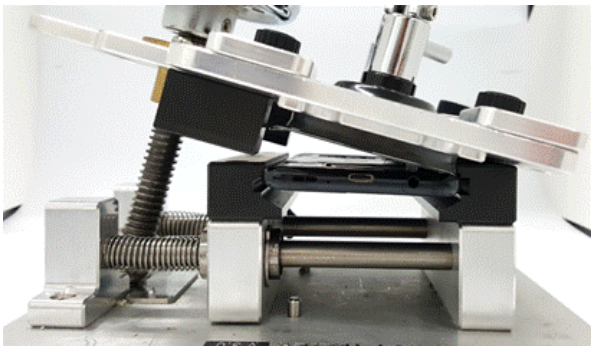
Put the device in the chamber as following below heating condition
- SOC 68%↓: 70℃/10~20 minute
- SOC 68%↑: 60℃/10~20 minute

※ Please confirm the heating condition released lastly, and follow it.

※ Caution
Be care of scratch.

2

Detach the Back Glass.
Detach the left side of Back glass.



※ Caution
Be care of scratch.

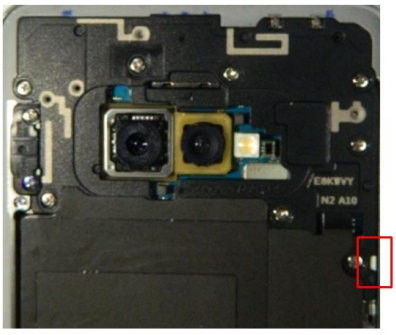
3

Unscrew 15 Point and disassemble SIM Tray from device.

※ Caution
Be care of Rear damage.

4

Disassemble Upper Rear.
(Use disassemble hole left/right side of Rear to detach it)



Rear Top disassemble hole.

※ Caution
1) Be care of scratch.
2) Be care of Rear and connector damage.

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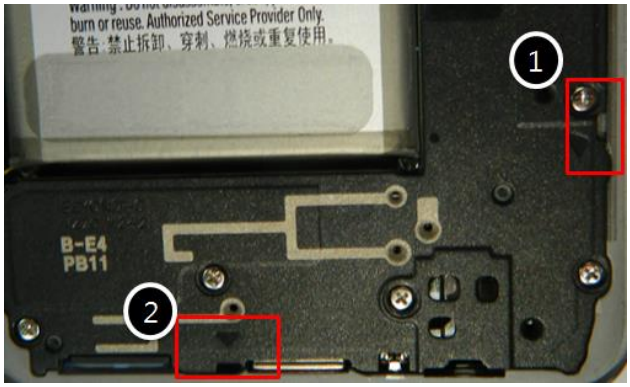
7. Level 2 Repair

5 Finally Disassemble Rear of bottom side.
(Use disassemble hole right side of Rear to detach it)



※ Caution
1) Be care of scratch.
2) Be care of Rear and connector damage.
3) Be careful not to damage the PBA.

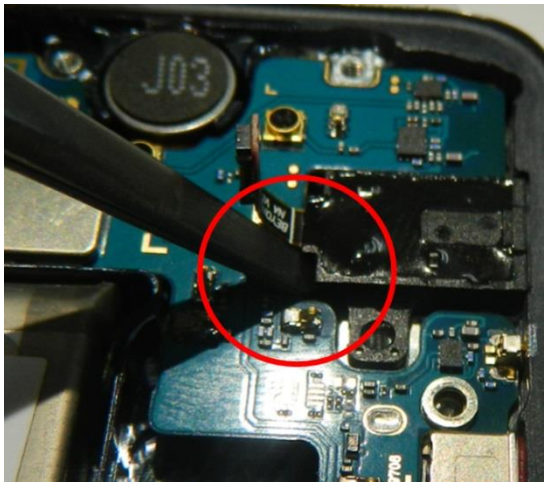
6 Unscrew PBA 3points.

※ Caution
Be careful not to damage the PBA.

7 Battery connect and the other connectors.
(5 Point).

※ Caution
1) Be care of scratch.
2) Be care of connector damage.

8 Detach Ear Jack.



※ Caution
1) Be care of FPCB damage.
2) Be care of Ear jack connector.

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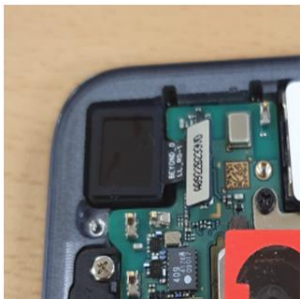
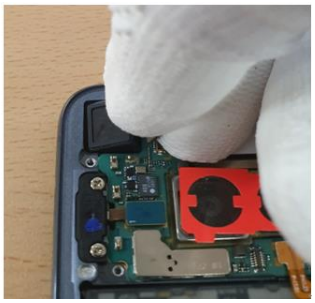
7. Level 2 Repair

9 Detach Front CAM.  	**10** Detach other components.
※ Caution 1) Be care of PBA damage. 2) Be care of Front CAM connector.	※ Caution Be care of several kinds of damage.

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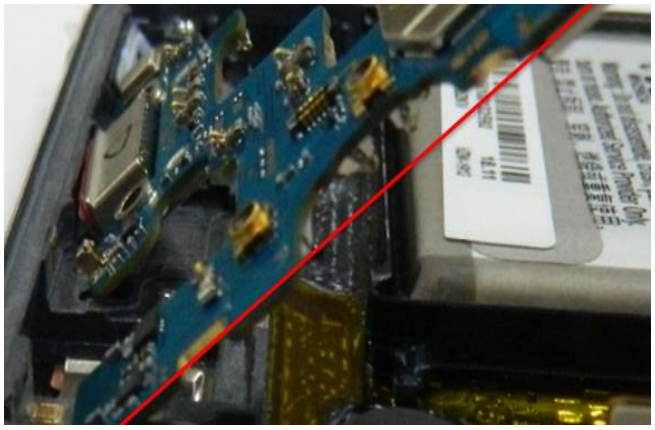
7. Level 2 Repair

7-5. Assembly

1 Assemble PBA on Front.
About 30 degrees will be inserted into the PBA.



※ Caution
Be care of FPCB damage.

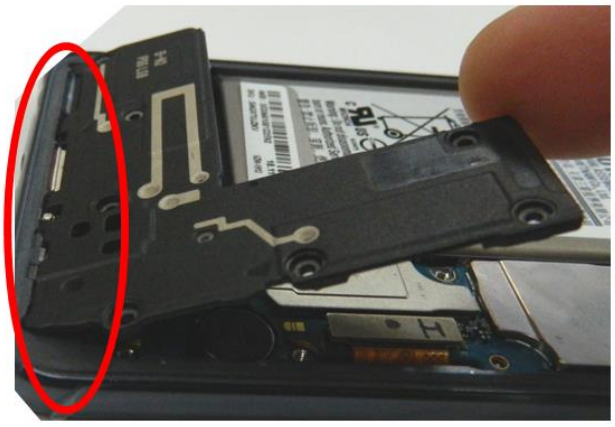
2 Battery connect and the other connectors.
(5 Point)

※ Caution
Be care of FPCB and Y-OCTA damage.

3 Screw 3 Point s of the PBA
(* Torque value : 1.3kgf)

※ Caution
Be careful not to damage the PBA.

4 Assemble the Bottom REAR in sequence.



※ Caution
Be care of scratch and REAR damage

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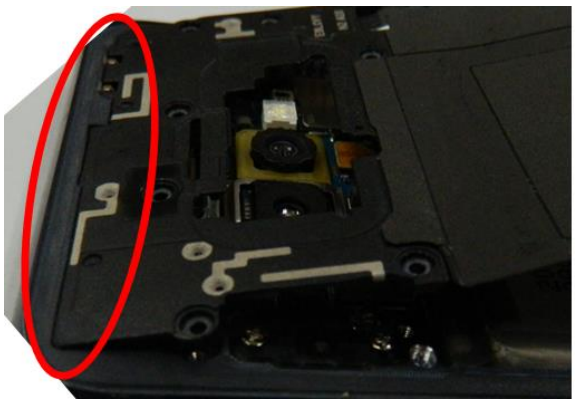
7. Level 2 Repair

5 Assemble the TOP+MID REAR Assy in sequence.



※ Caution
Be care of scratch and REAR damage.

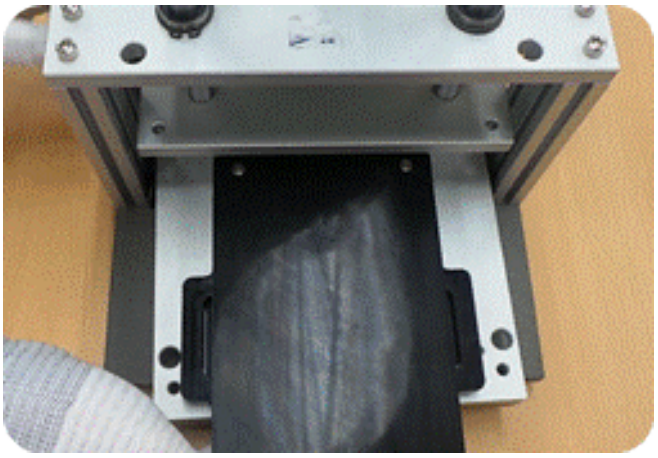
6 Screw 15points of the Front. And Insert sim tray
(* Torque : 1.3 kgf)

※ Caution
Be care of scratch and REAR damage.

7 Assemble backglass.

※ Caution
Be care of scratch and tilt.

8 Press Back Glass.
Pressing force : 1 N
Pressing time : 1 minute



※ Caution
Be care of scratch.

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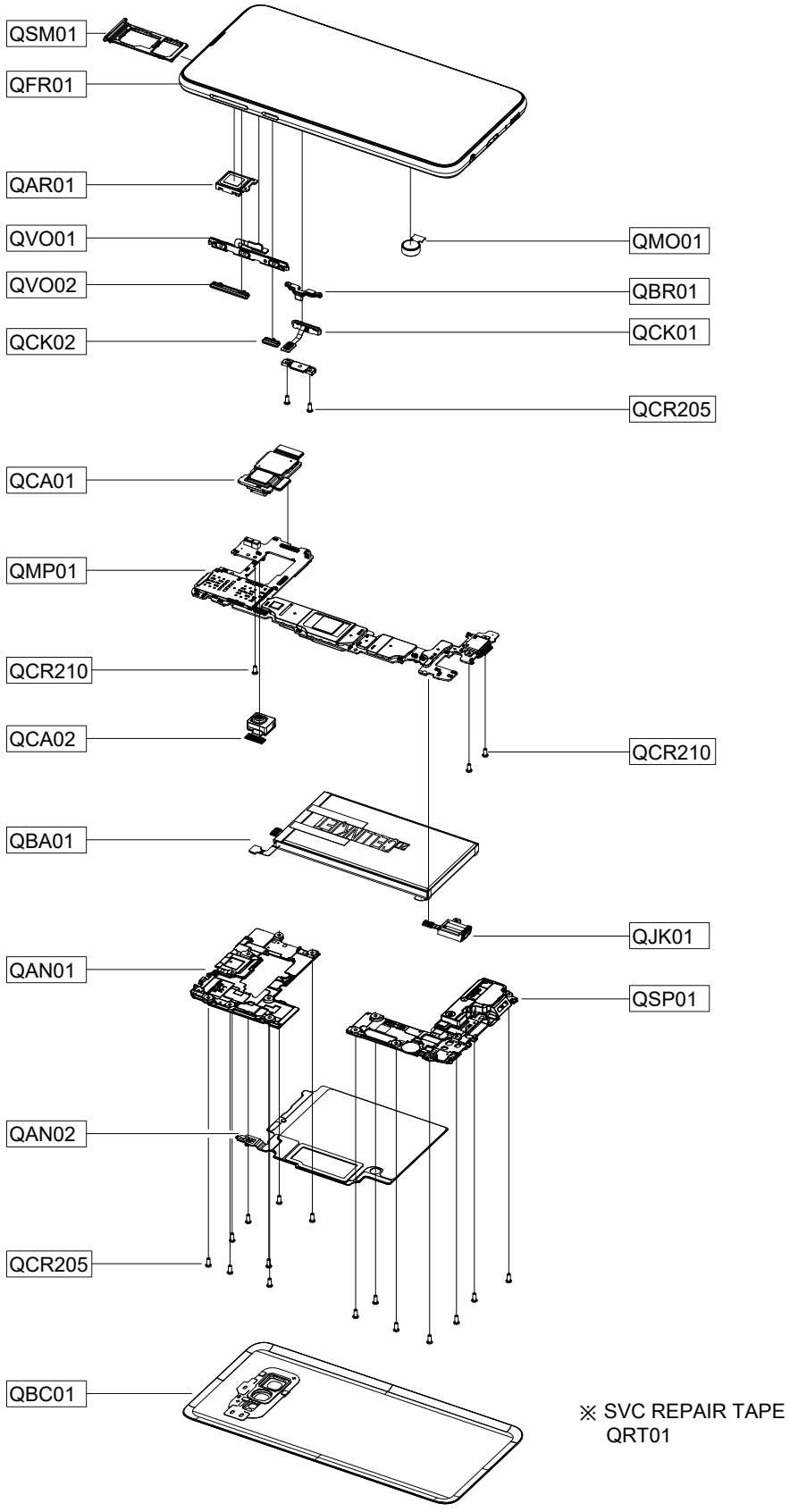
4. Exploded View and Parts List

4-1. Cellular phone Exploded View



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8. Level 3 Repair

8-1. Components Layout

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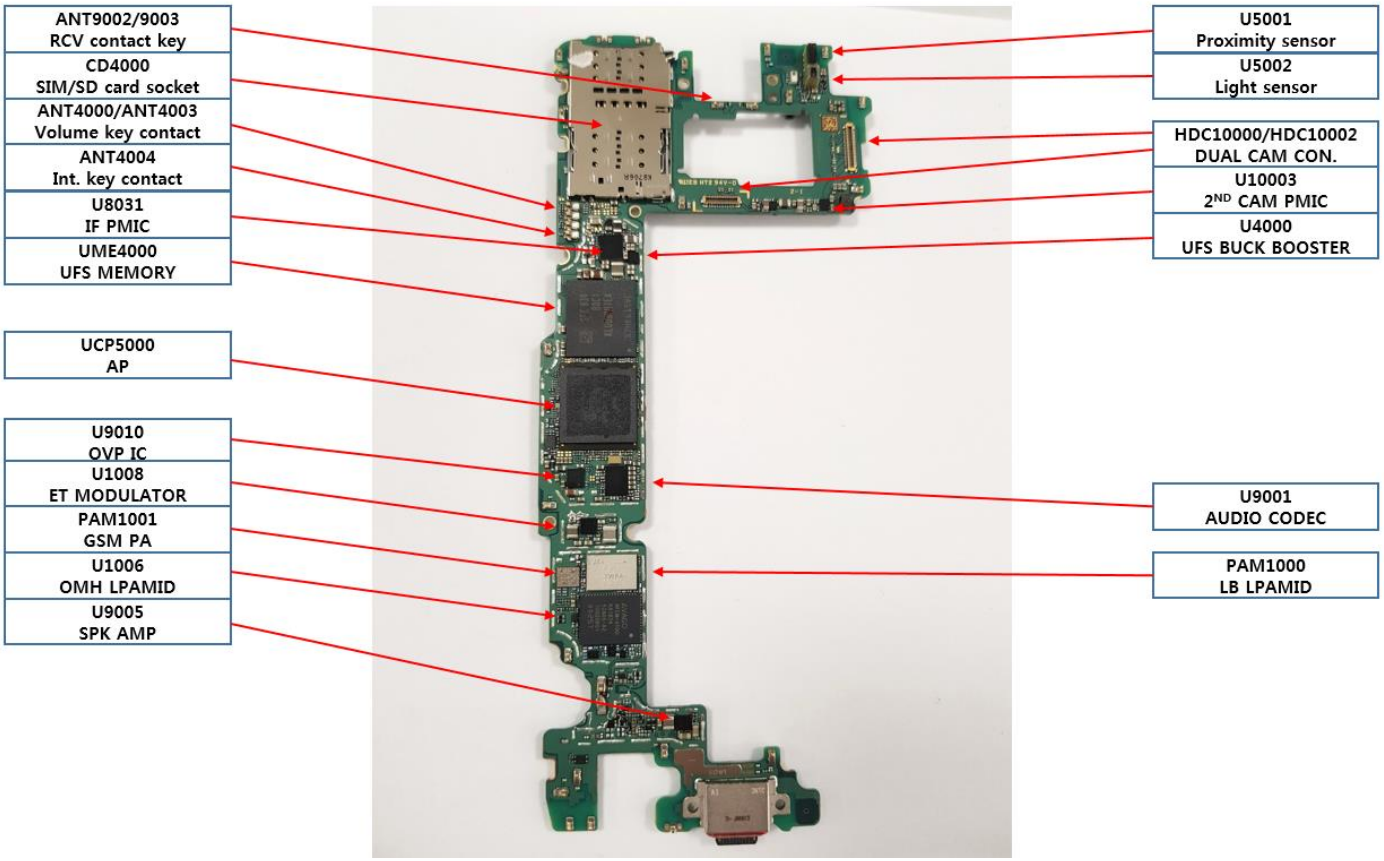
PBA(Top side)



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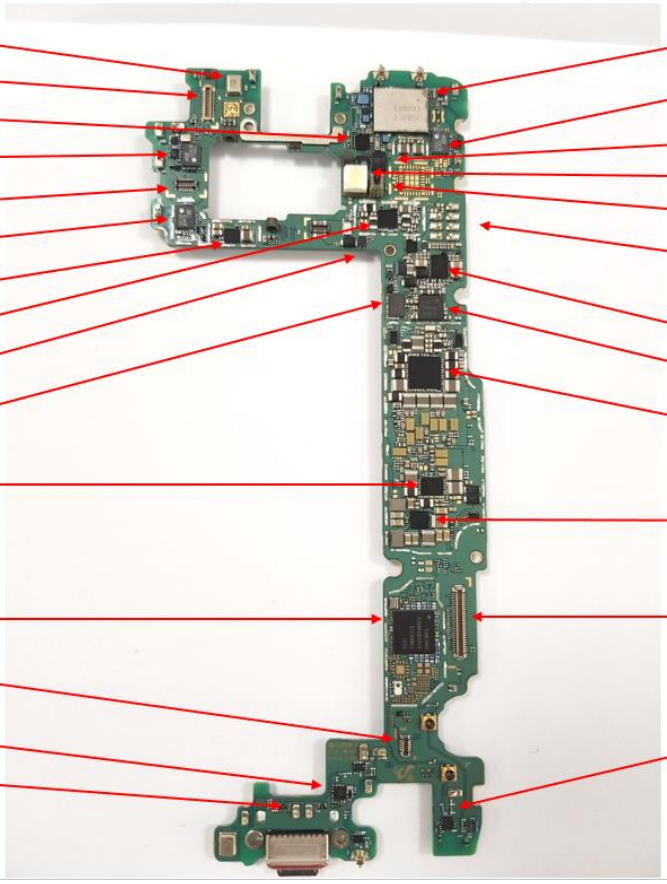
8. Level 3 Repair

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
GPS

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

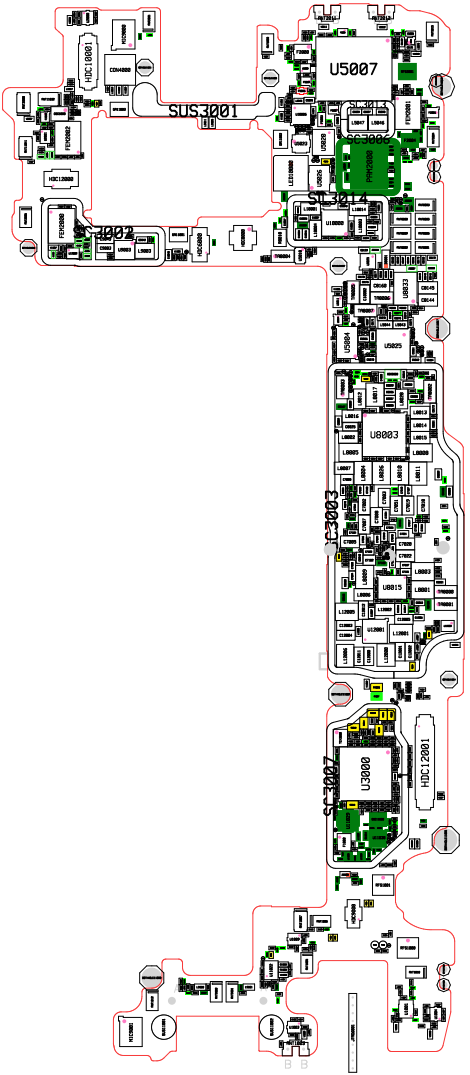
Transceiver
SHANNON975

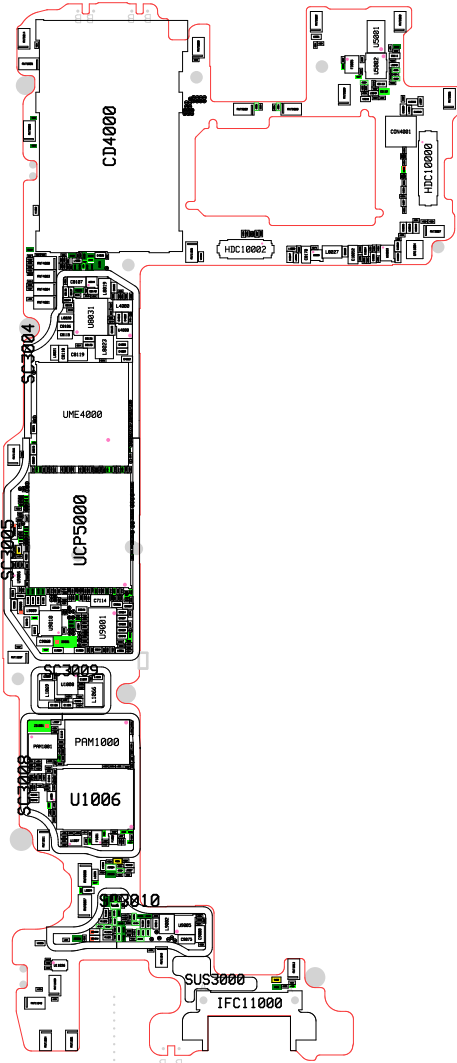
BT/WiFi ANT

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
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

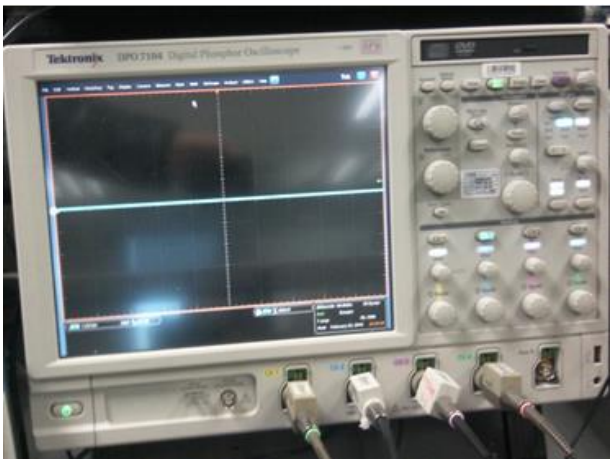
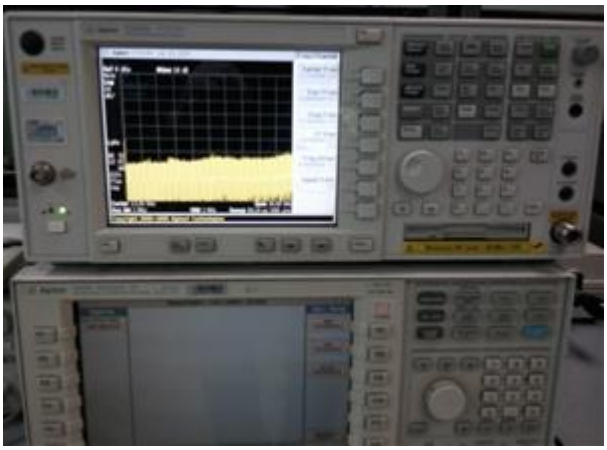
ModAP (AP + CP) EXYNOS9820
4GB LPDDR4X

TDMB_ANT
FM RADIO (KOR only) RTC6213N
FM_ANT
SPDT (KOR) BGS12SN6
TDMB FM ANT
I2C
32 KHz CLK From AP/CP PMIC
FM_L/R
Audio Codec CS47L93
CODEC_CLK_26MHz
CODEC_SPI
CODEC I2S
Mic 2
Mic 1
EAR_ADC_3.5
EAR_MIC
EAR OUT L/R
AMP_I2S
I2C
SPK AMP CS35L40
RCV
SPK AMP CS35L40
SPK
COPR SPI
MIPI 4lane
DDI (S6E3FA7)
TSP
Display
Display PMIC S2DOS05
I2C
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
MIPI 4 lane
I2C
16M
FF
Super Wide Cam
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
USB Interface Connector Type C
DP_AUX
DPDT DG2730DN
USB3.0
SBU_OUT


U5007
SUS3001
SM3014
SM3002
SC3003
SC3007
U8003
U3000
HDC12001
HDC10800


CD4000
HDC10002
HDC10000
U5001
U5002
CDN4001
U8031
C8107
C8119
U8000
SC3004
UME4000
UCP5000
SC3005
C7114
U9001
U9000
SC3009
U1006
PAM1000
PMC001
SC3008
U1006
SC3010
U3000
C3073
SUS3000
IFC11000

8-3. Flow chart of Troubleshooting.

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

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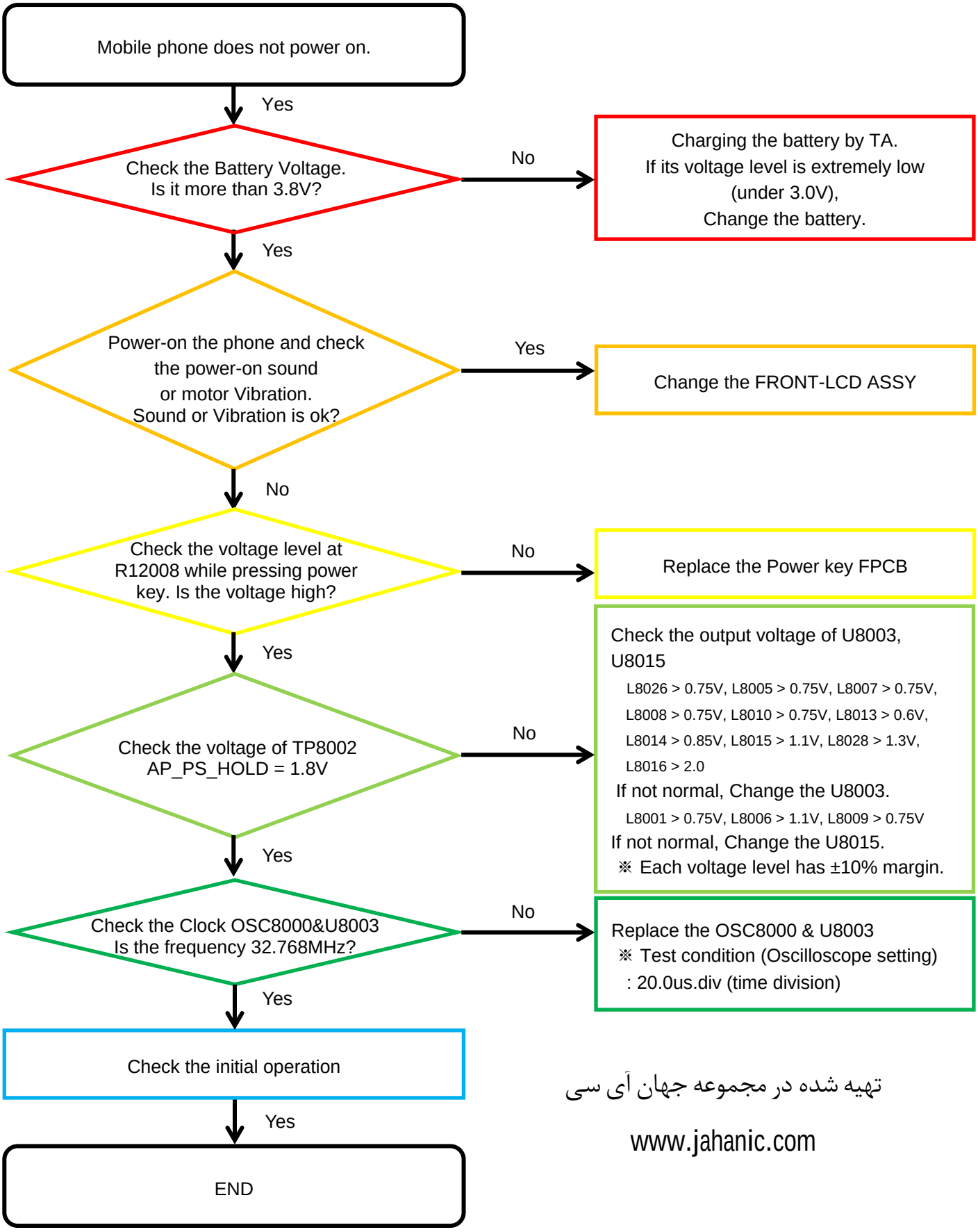
8. Level 3 Repair

8-4-1. Power On



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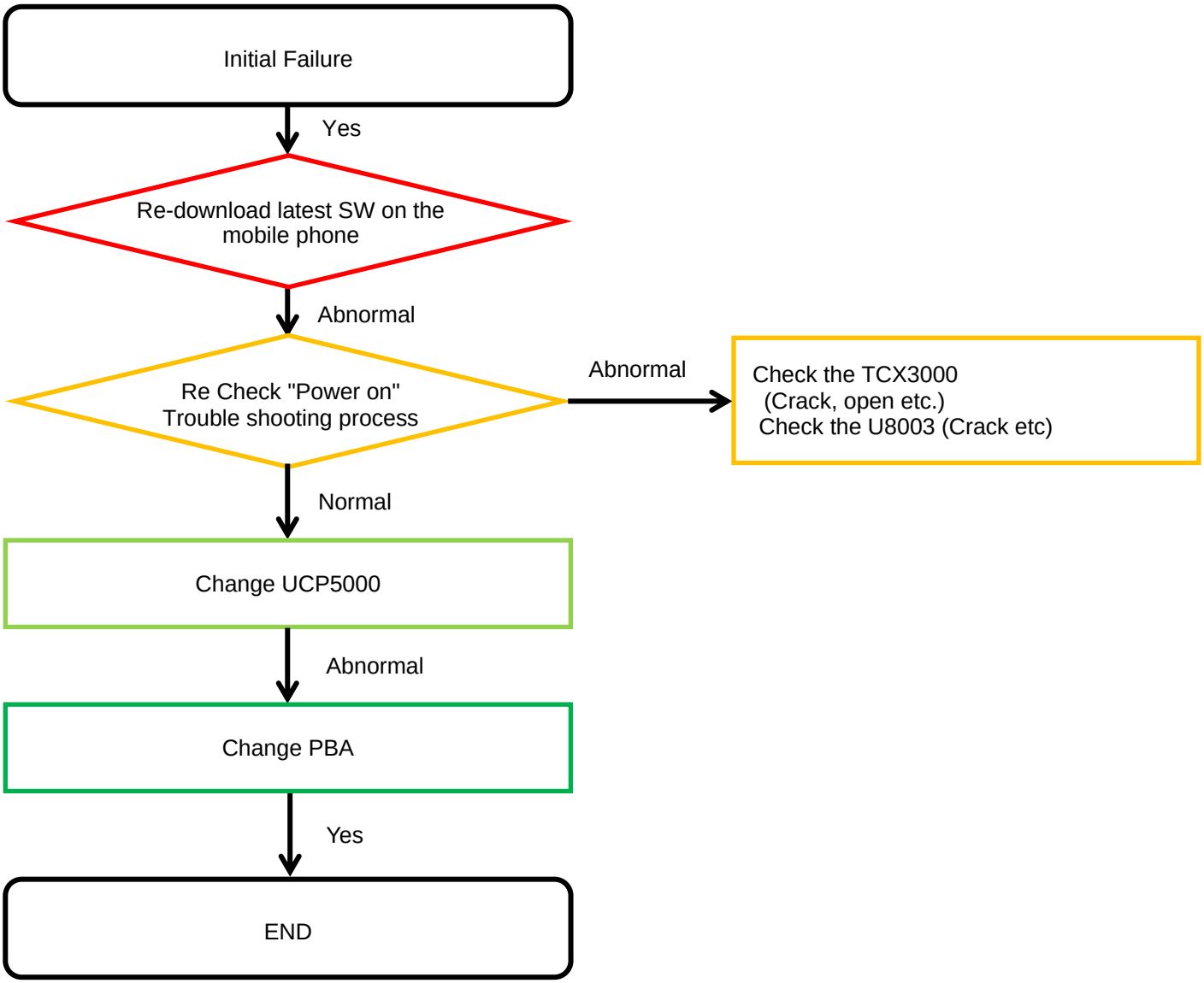
8-4-2. Initial



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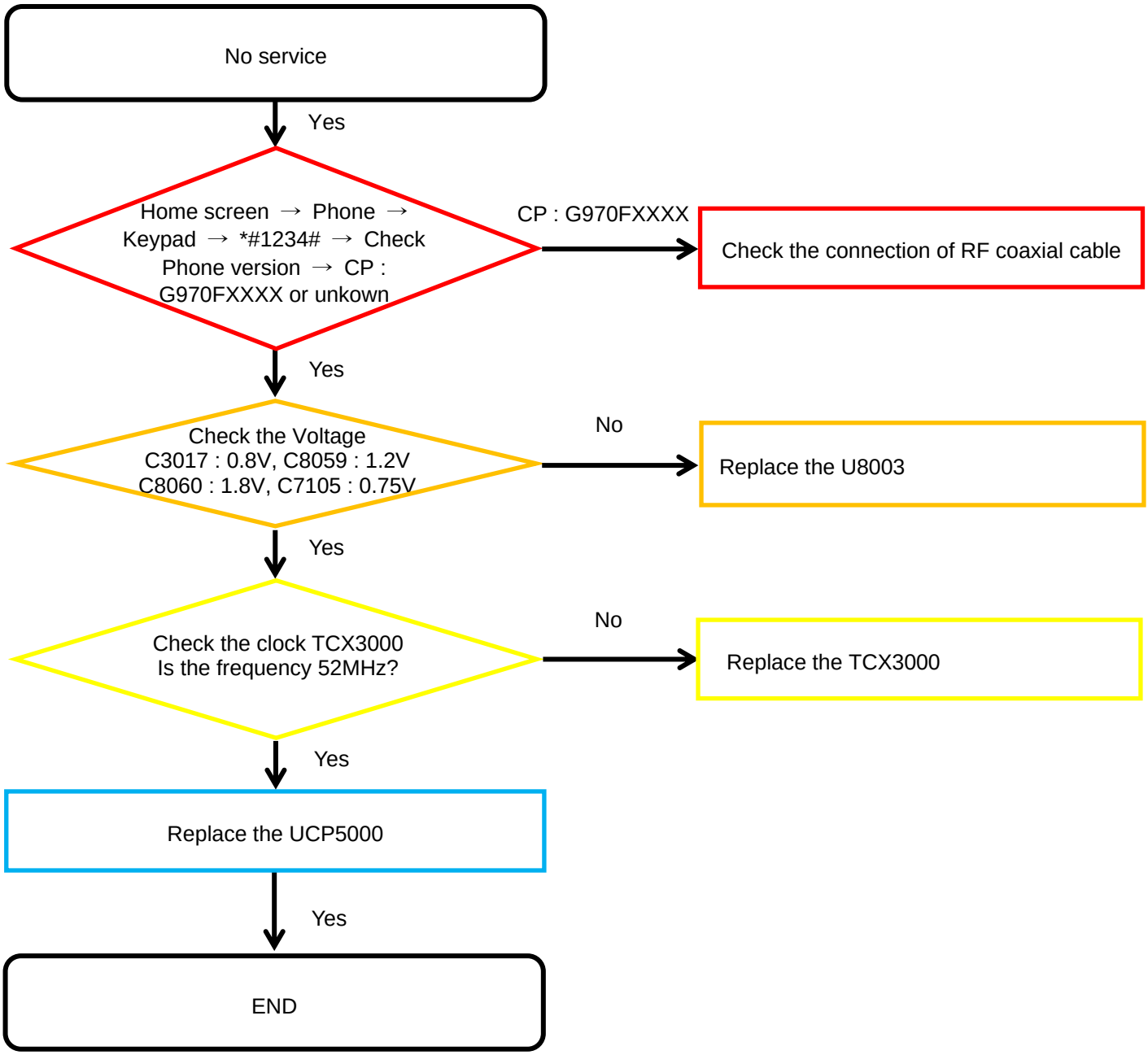
8-4-3. No Service



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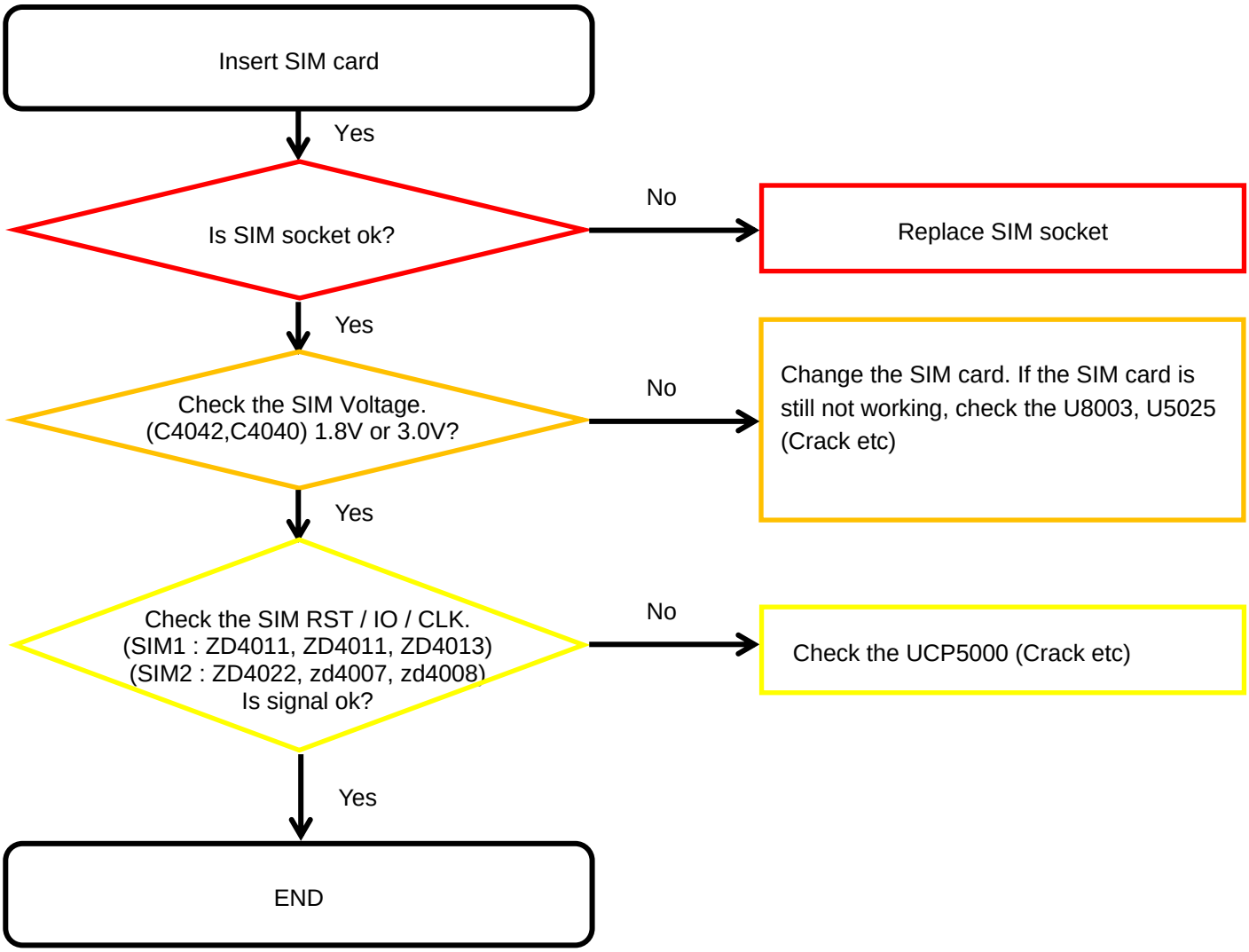
8-4-4. SIM Part



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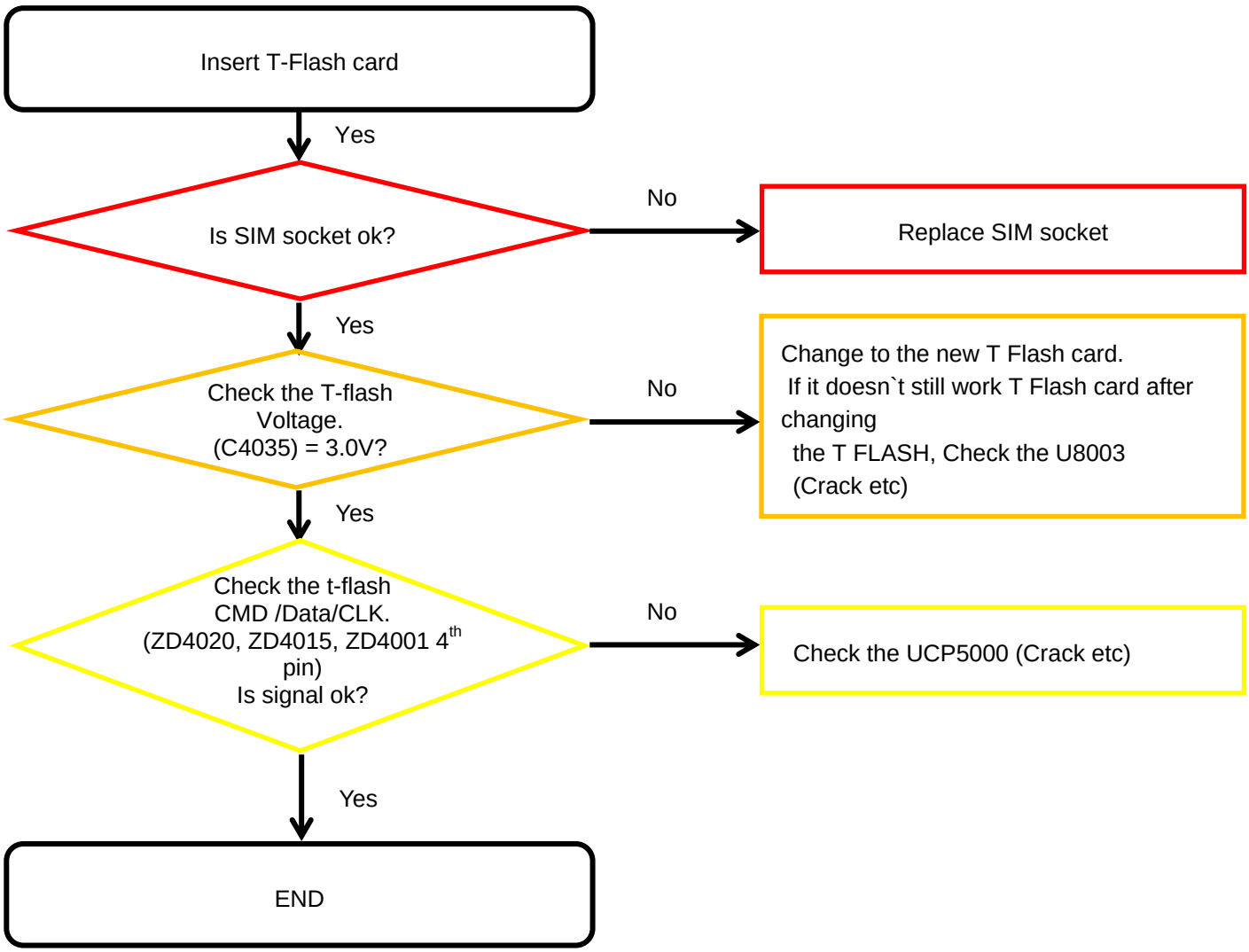
8-4-5. T-Flash Part



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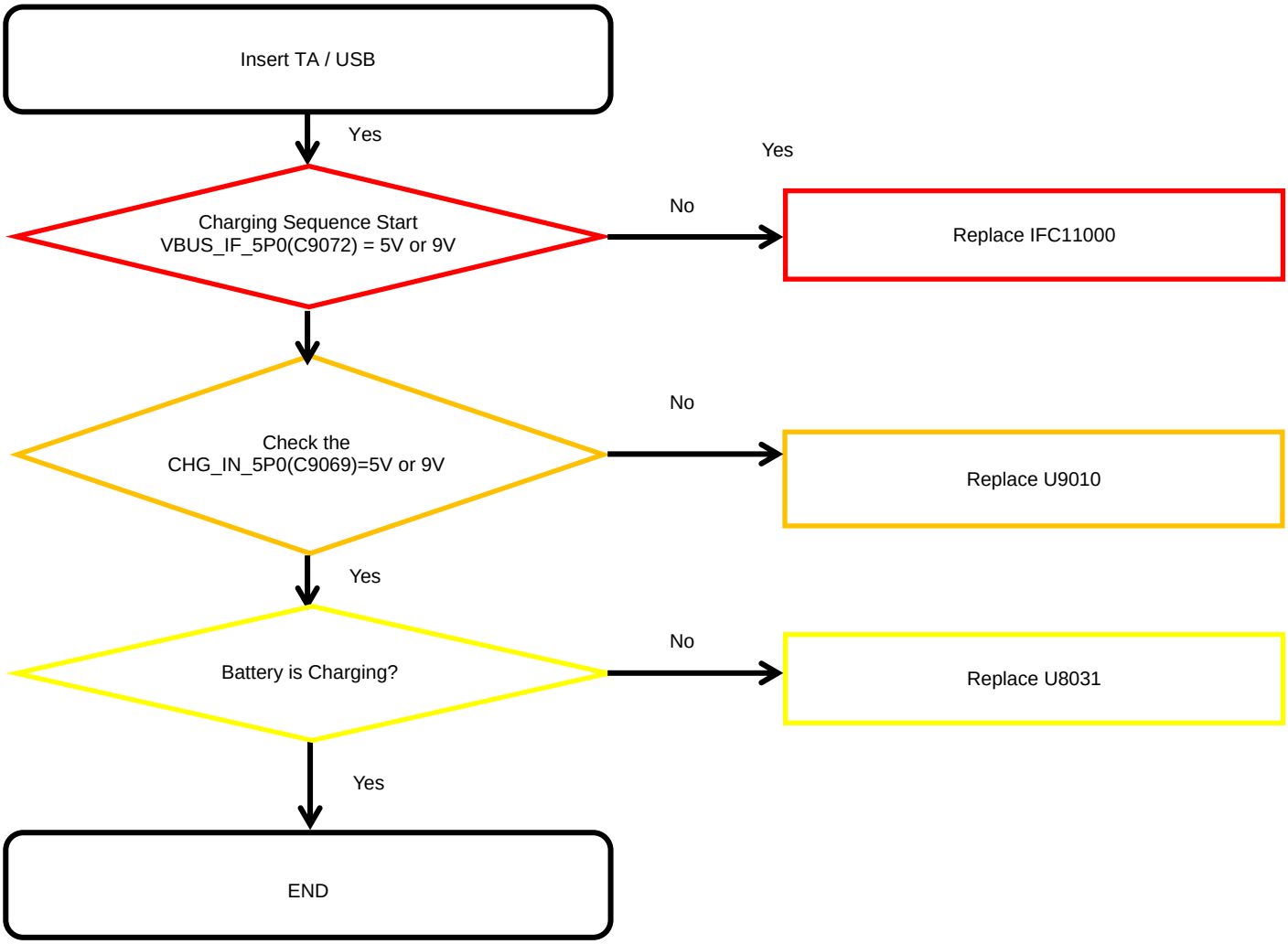
8. Level 3 Repair

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



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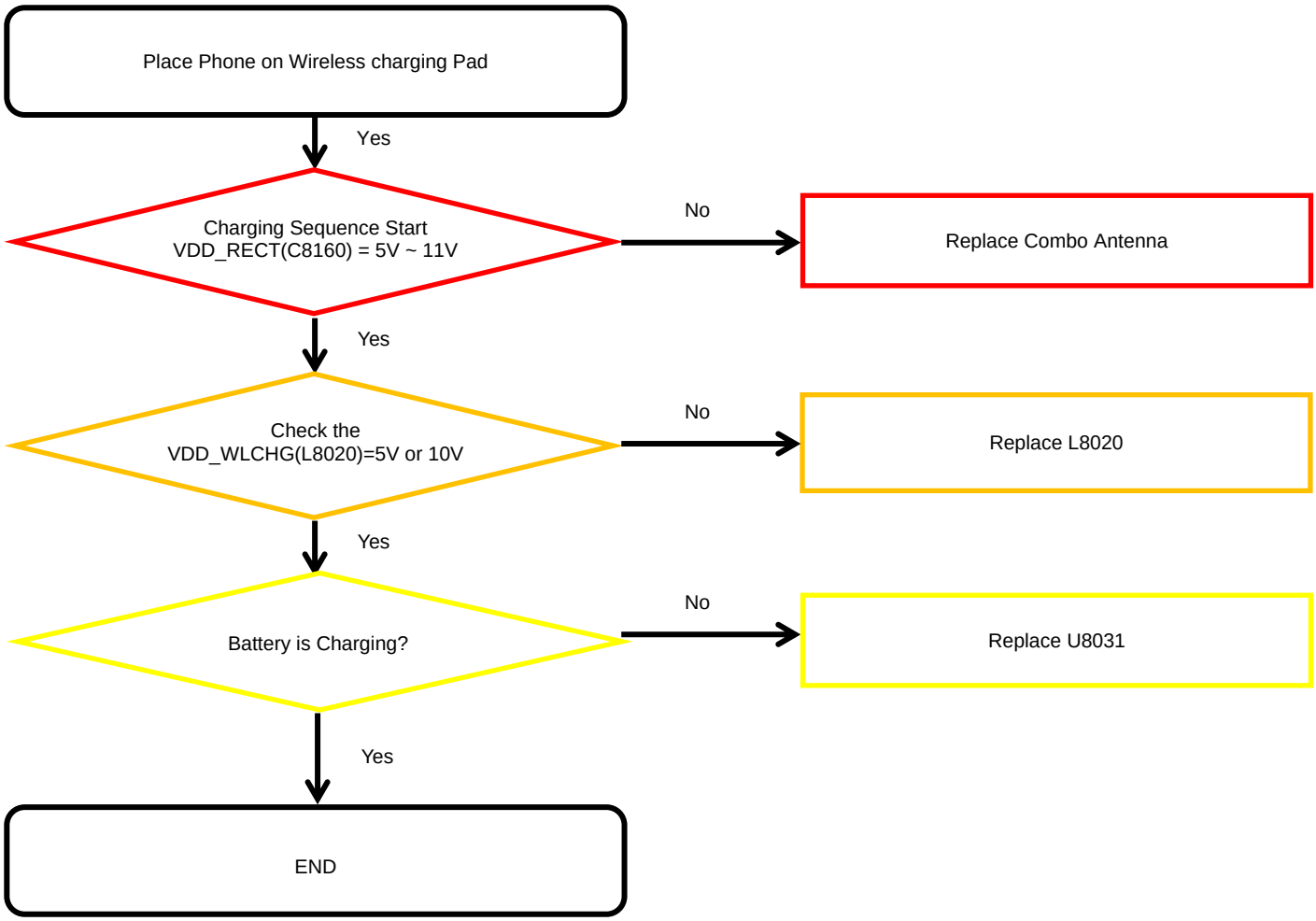
8-4-6-2. Wireless Charging Part (Normal/Fast)



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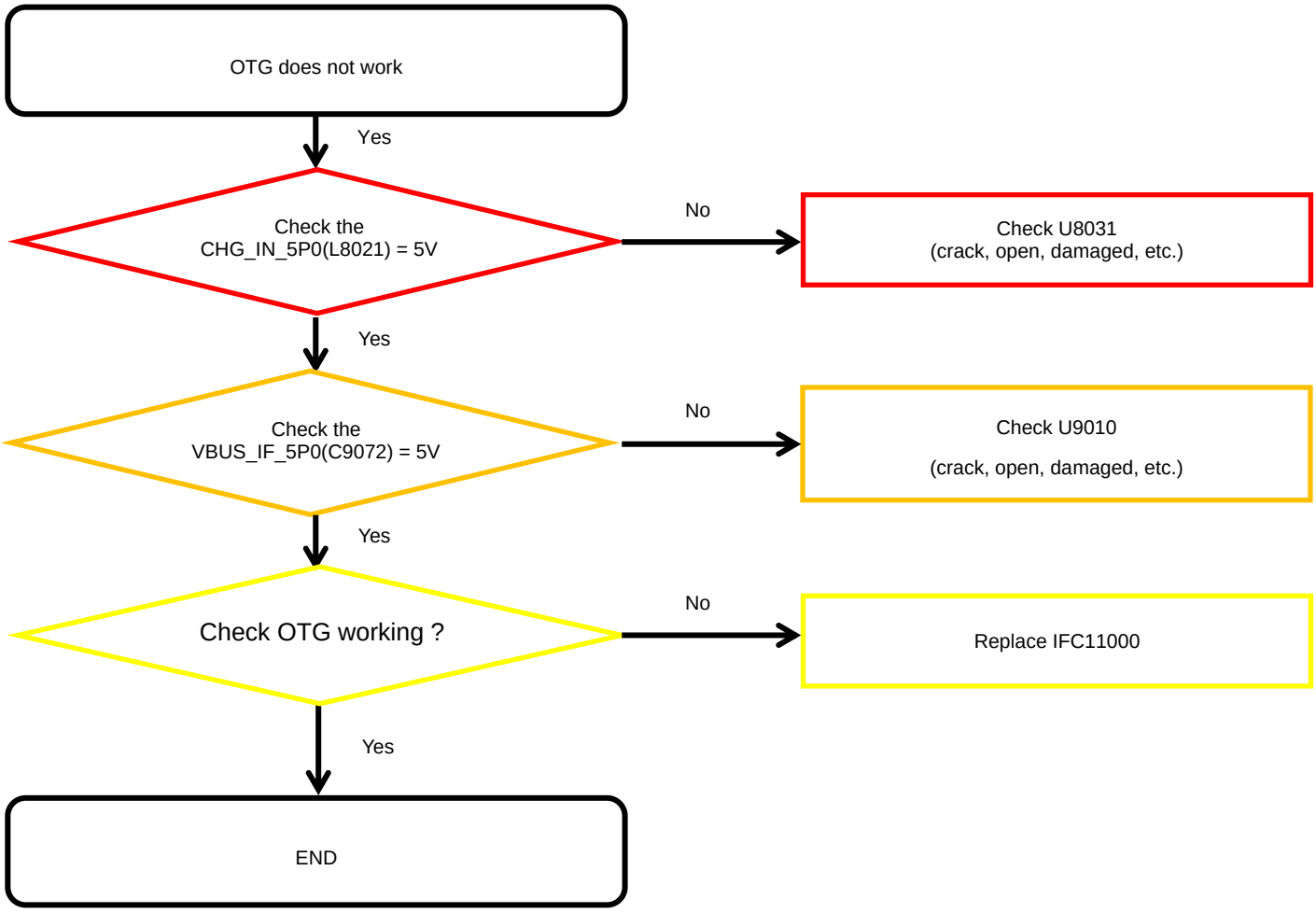
8-4-7. OTG



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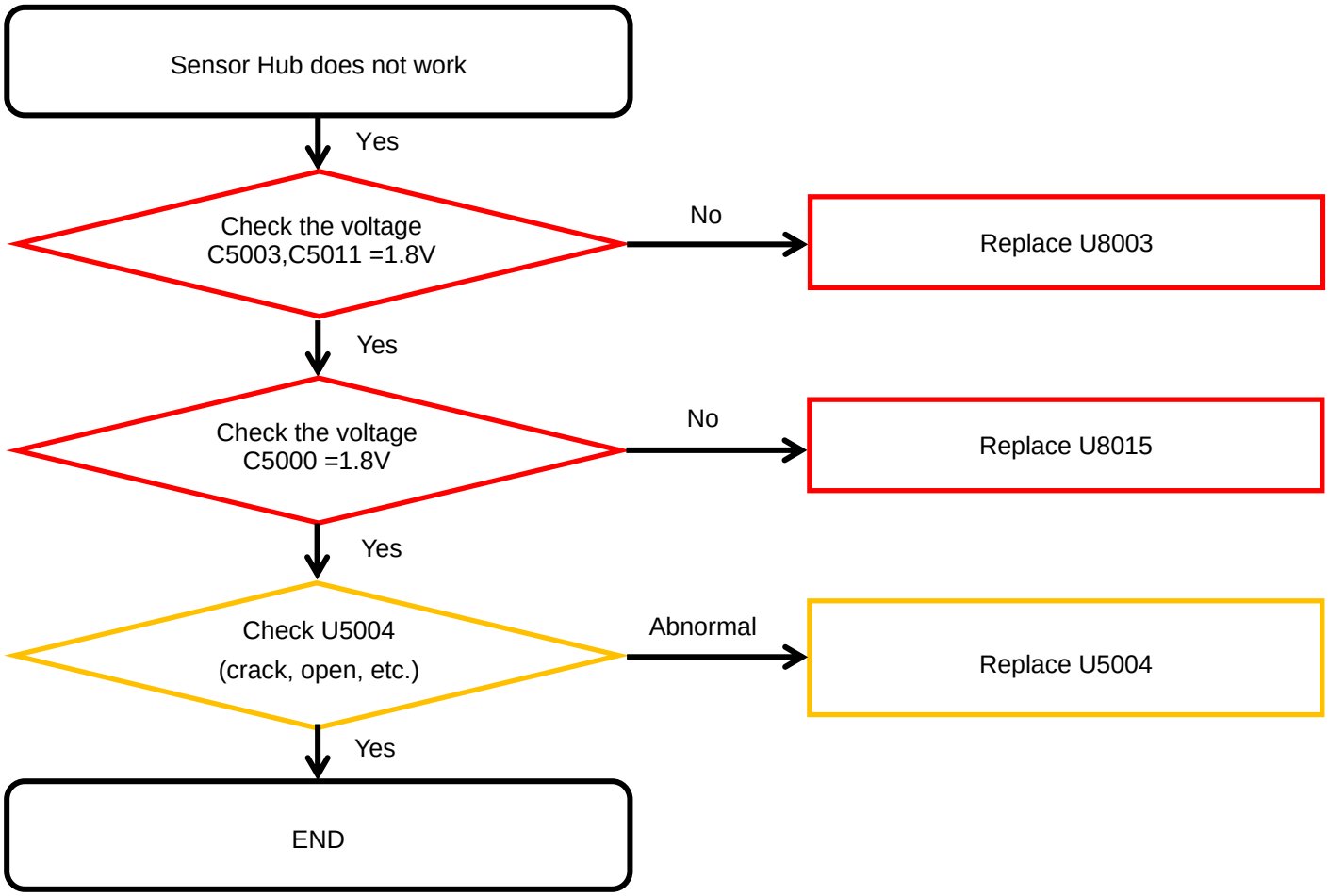
8-4-8-1. Sensor Hub



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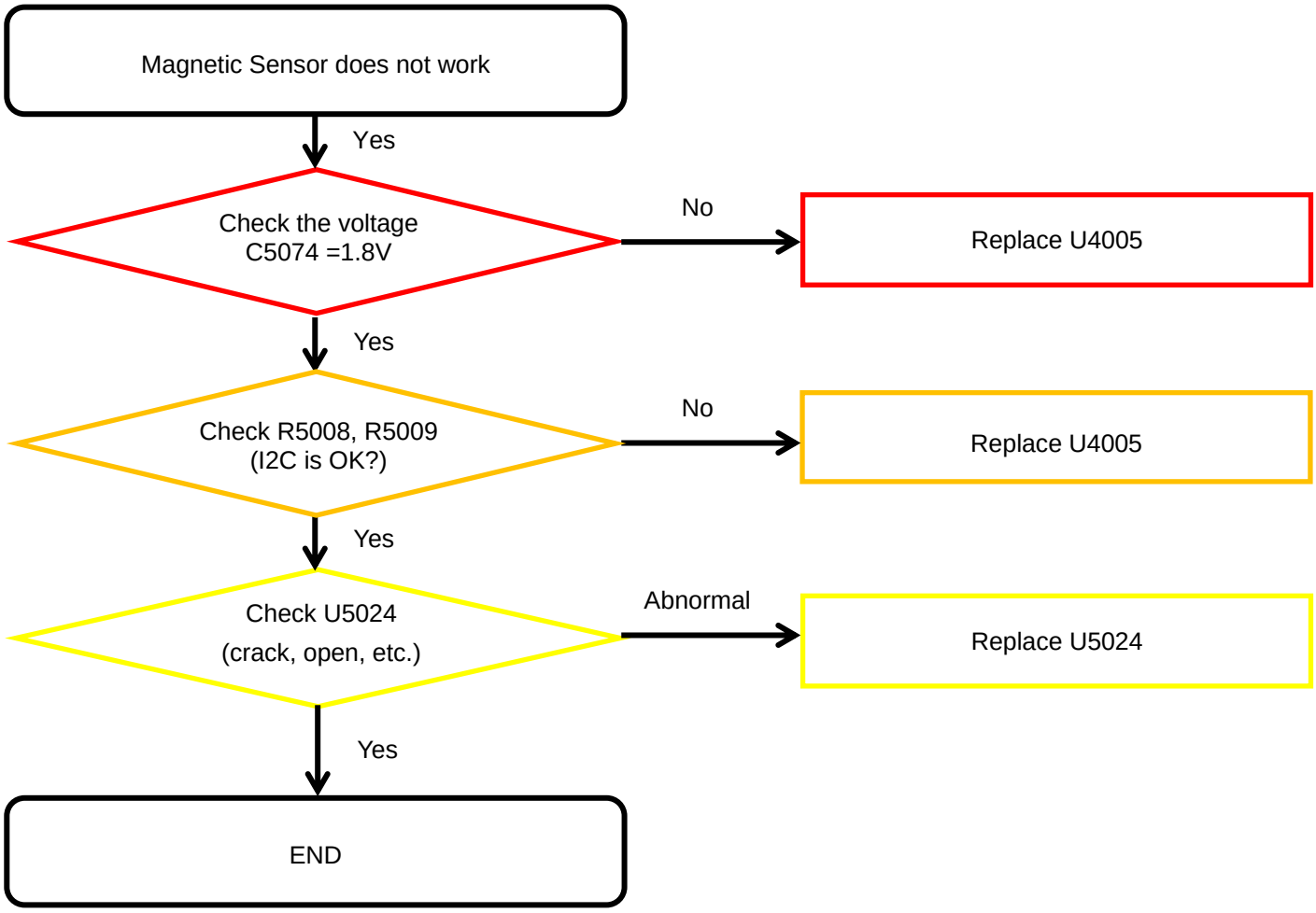
8-4-8-2. Magnetic Sensor



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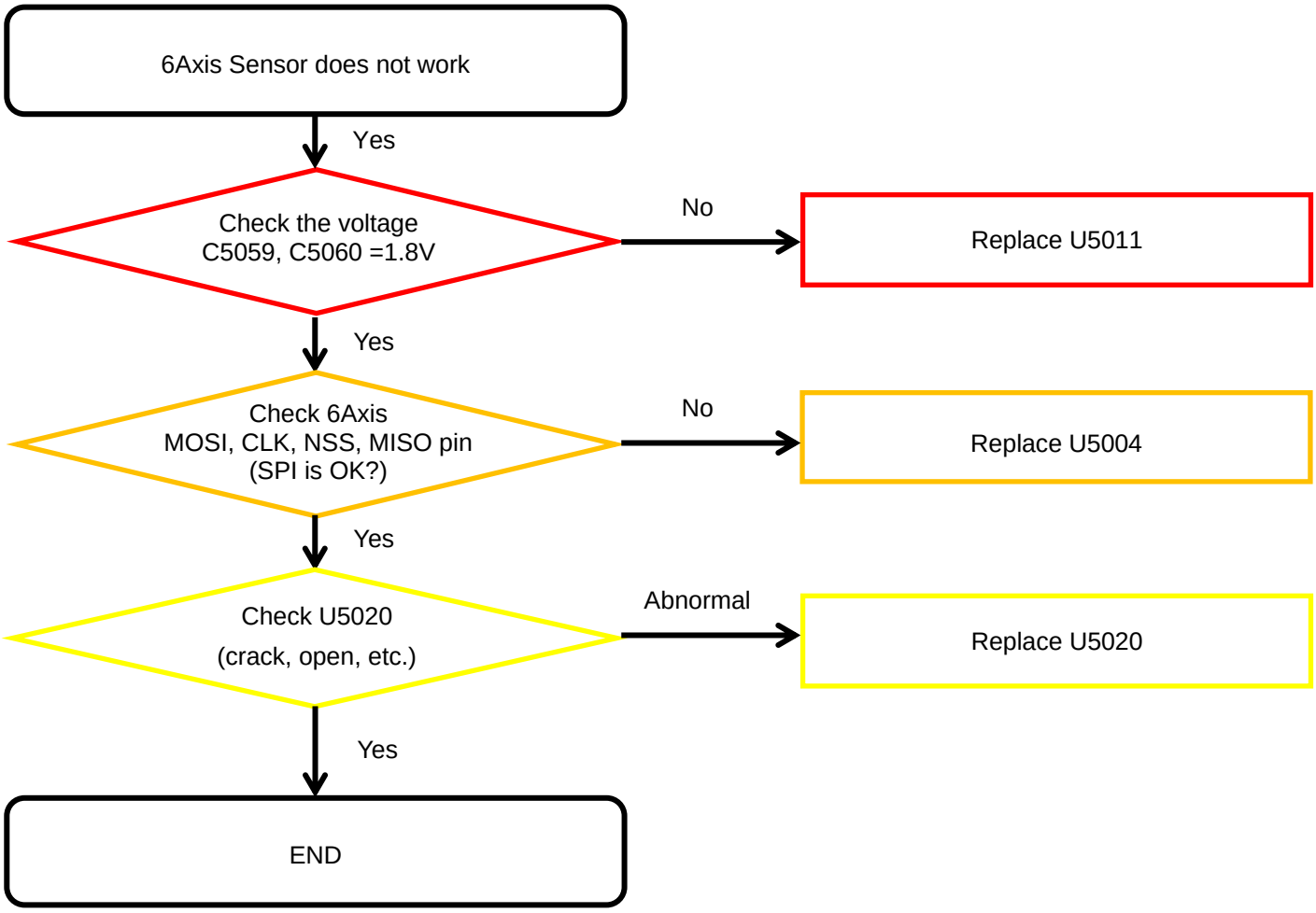
8-4-8-3. 6Axis Sensor



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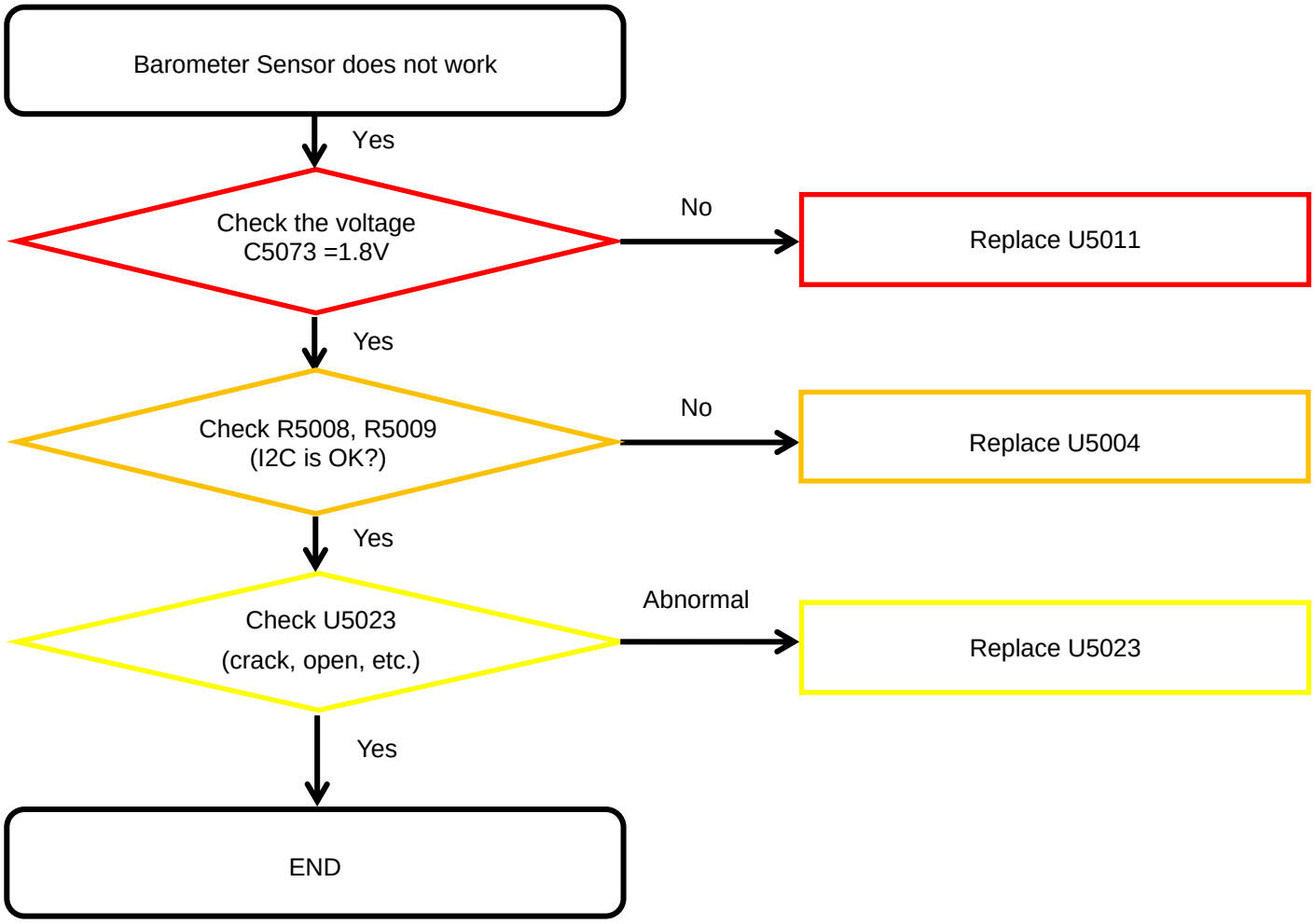
8-4-8-4. Barometer sensor



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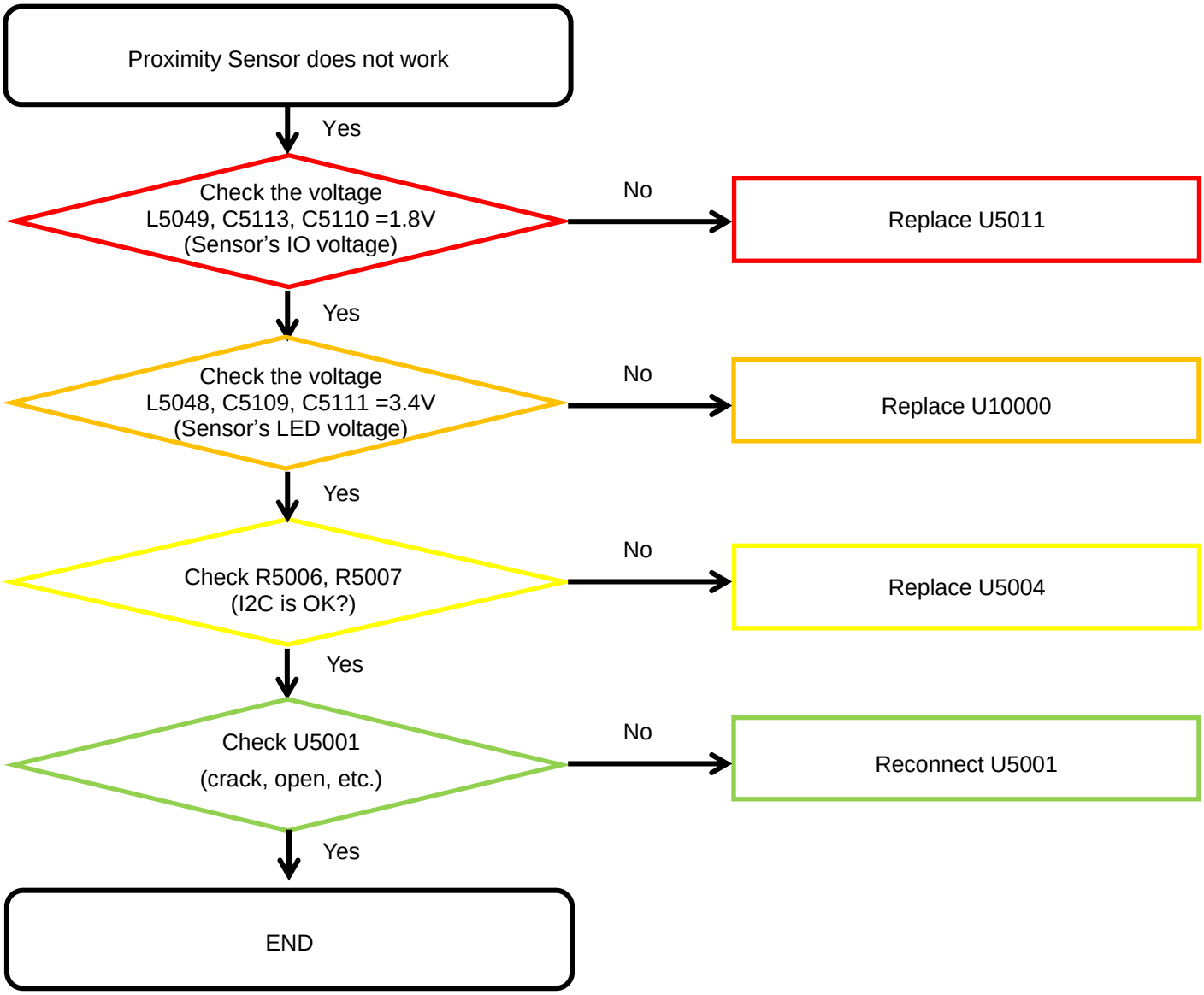
8-4-8-5. Proximity sensor



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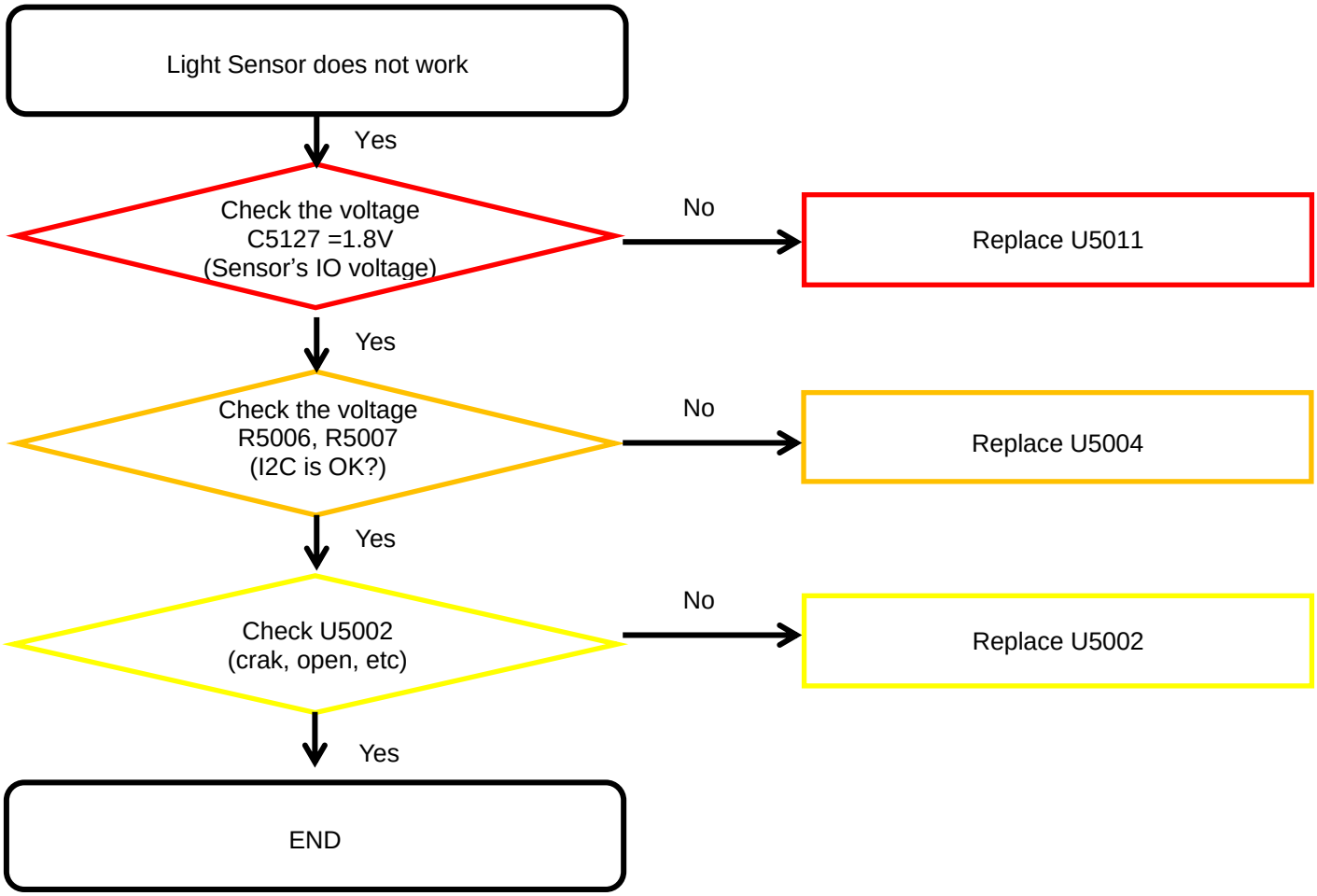
8-4-8-6. Light Sensor



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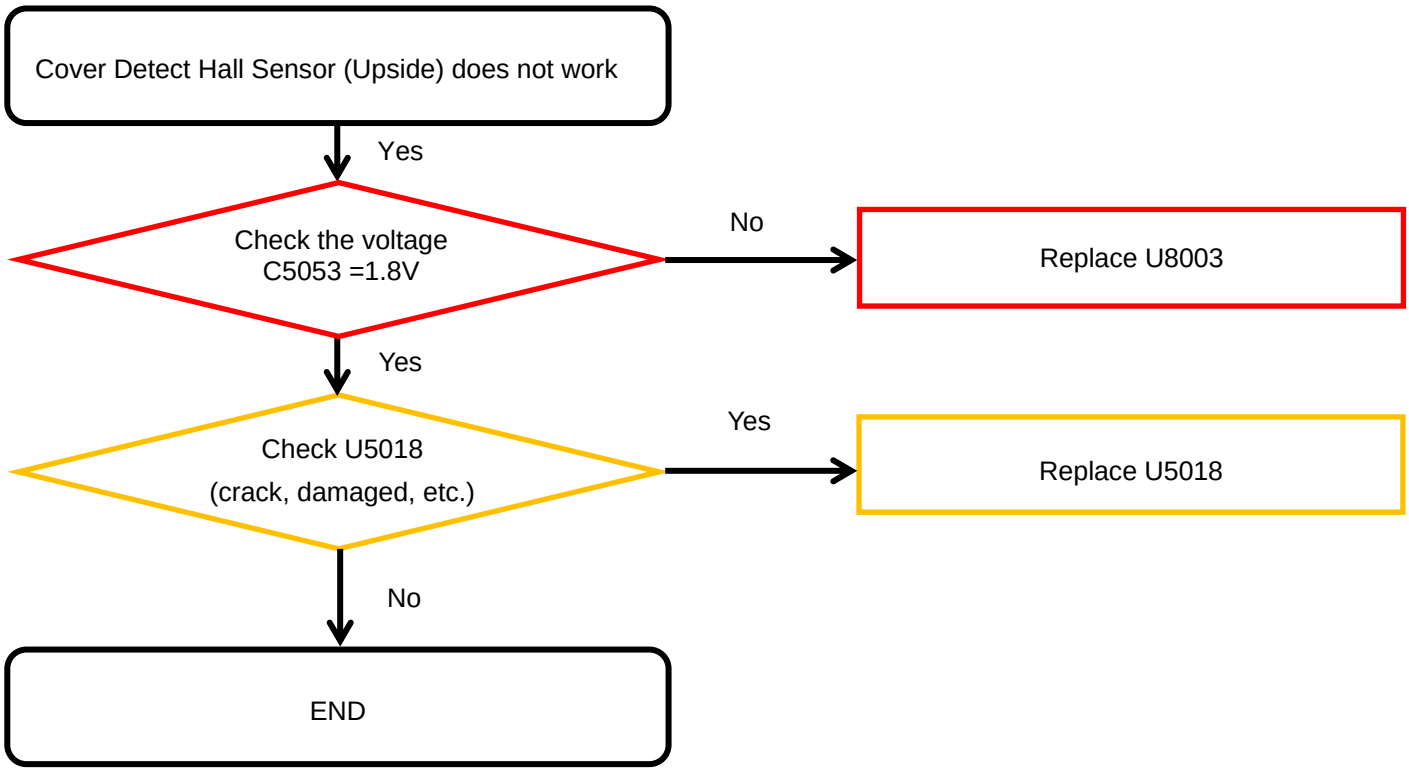
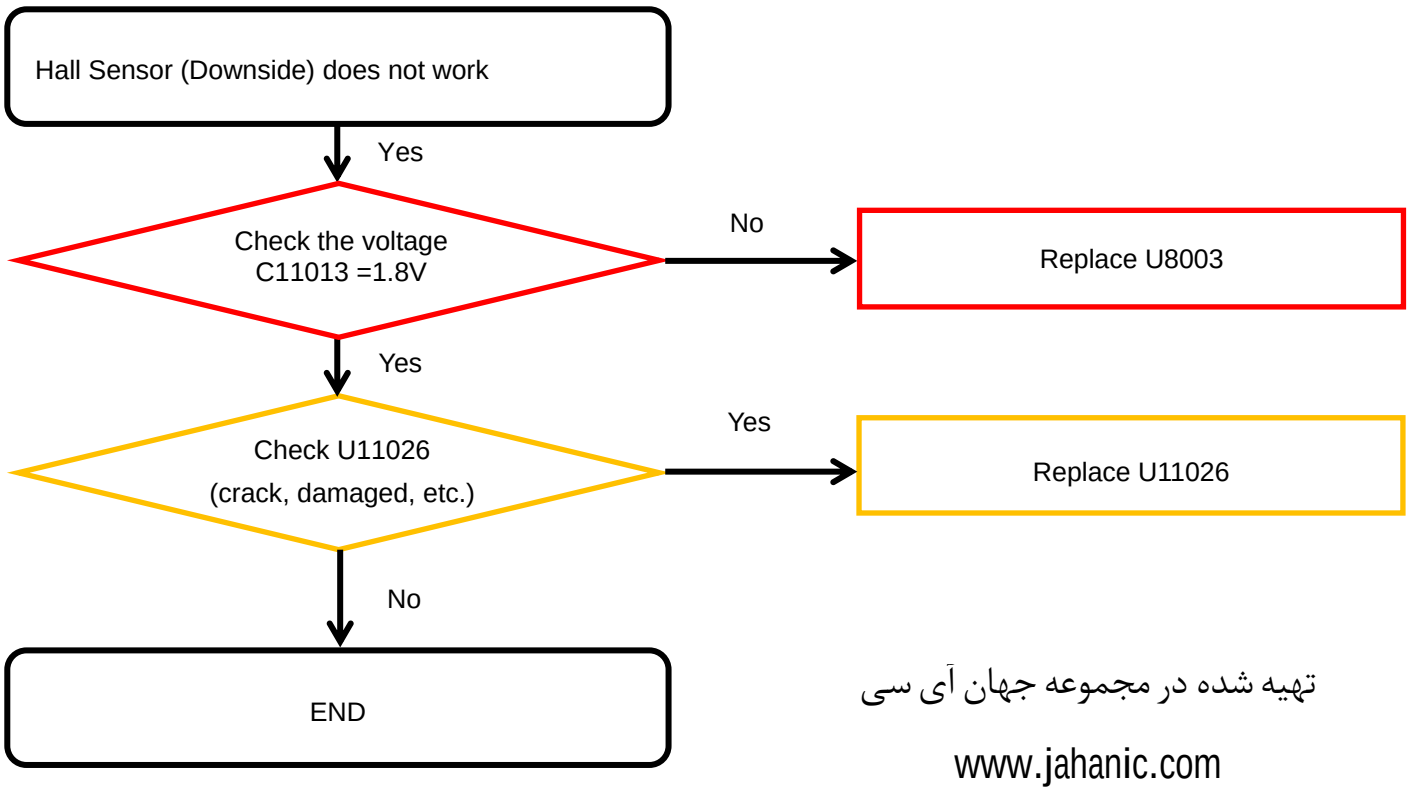
8-4-8-7. Hall Sensor





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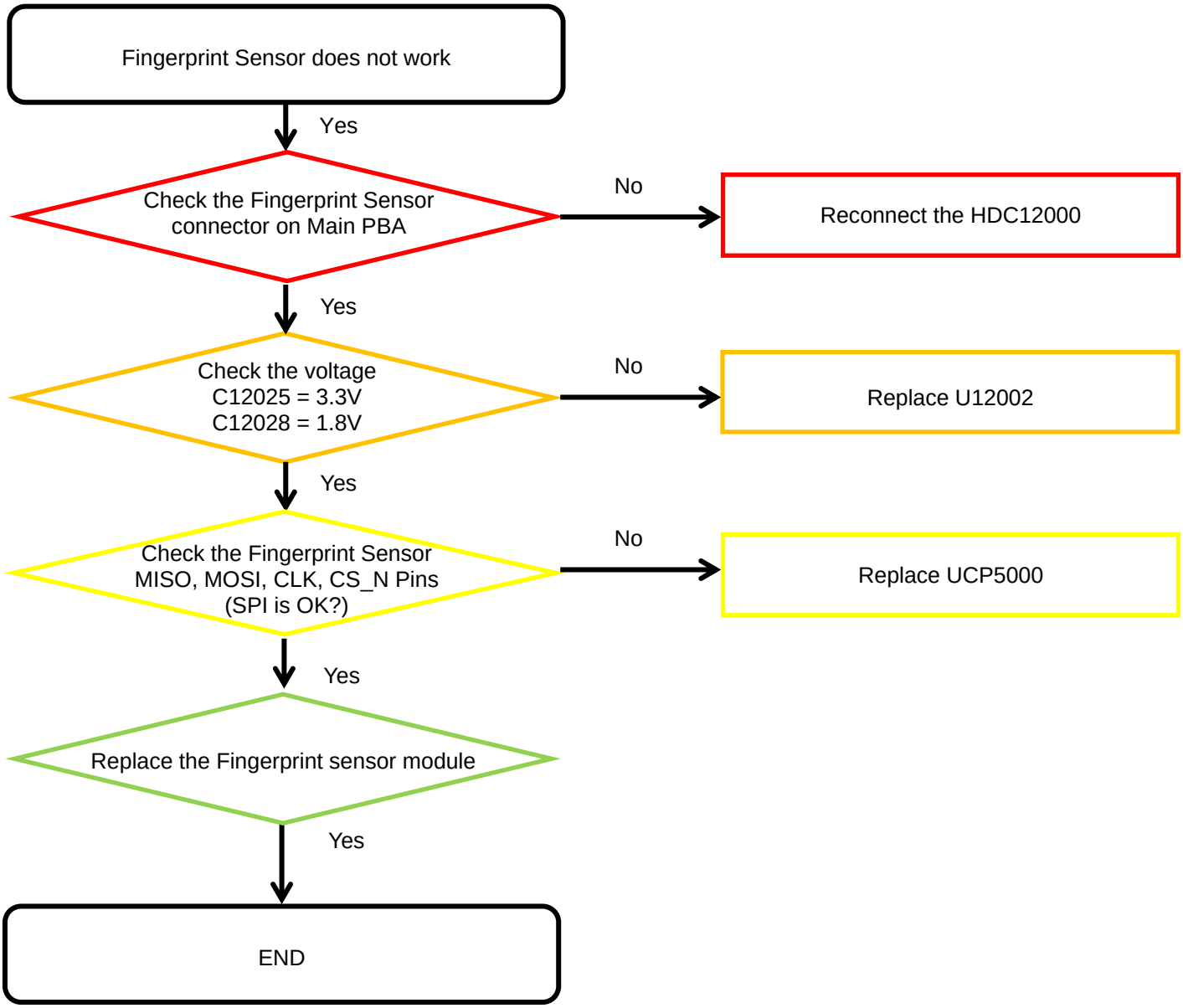
8-4-8-8. Fingerprint Sensor



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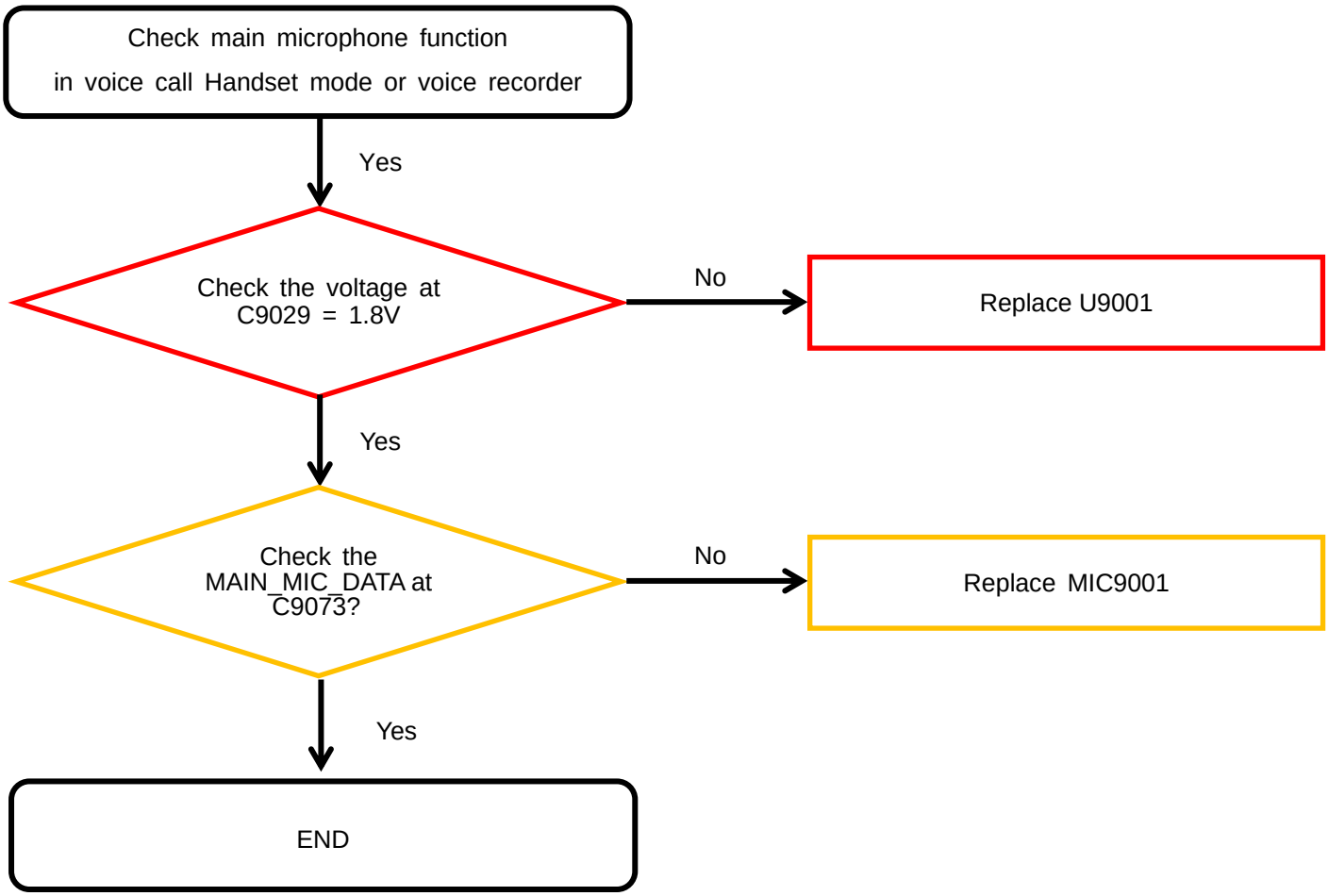
8-4-9-1. Microphone Part - Main MIC



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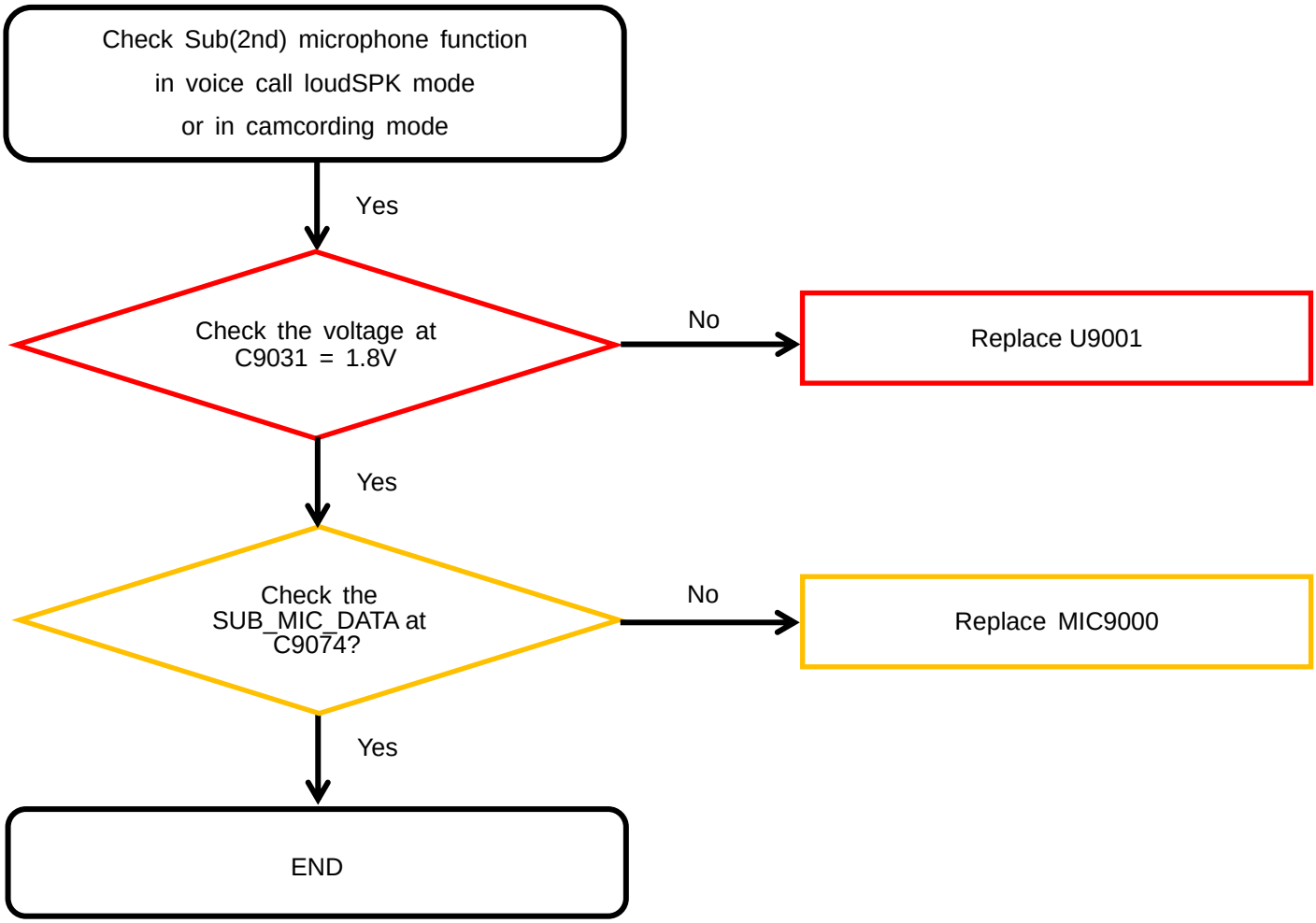
8-4-9-2. Microphone Part - Sub(2nd) MIC



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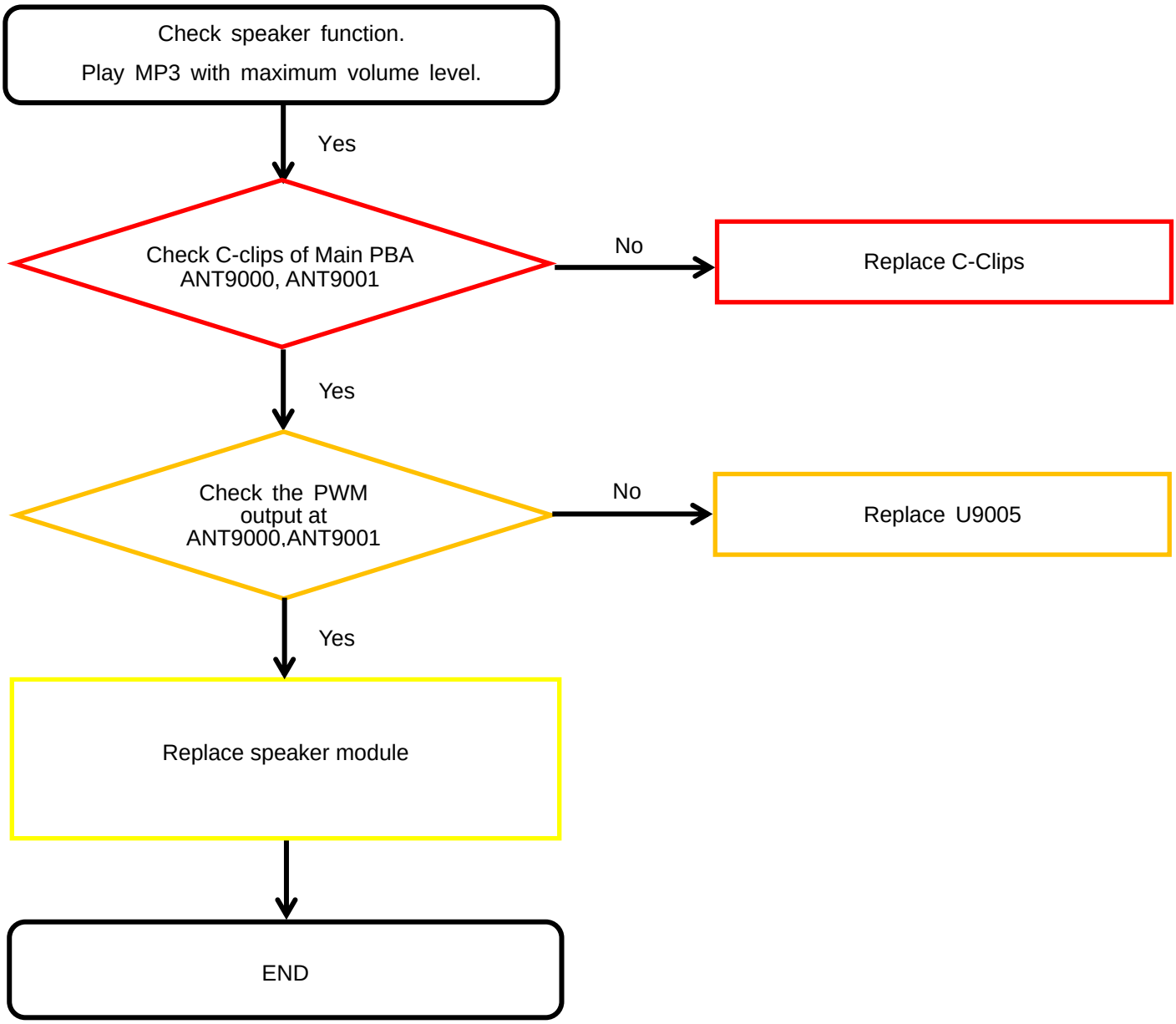
8-4-10. Speaker Part



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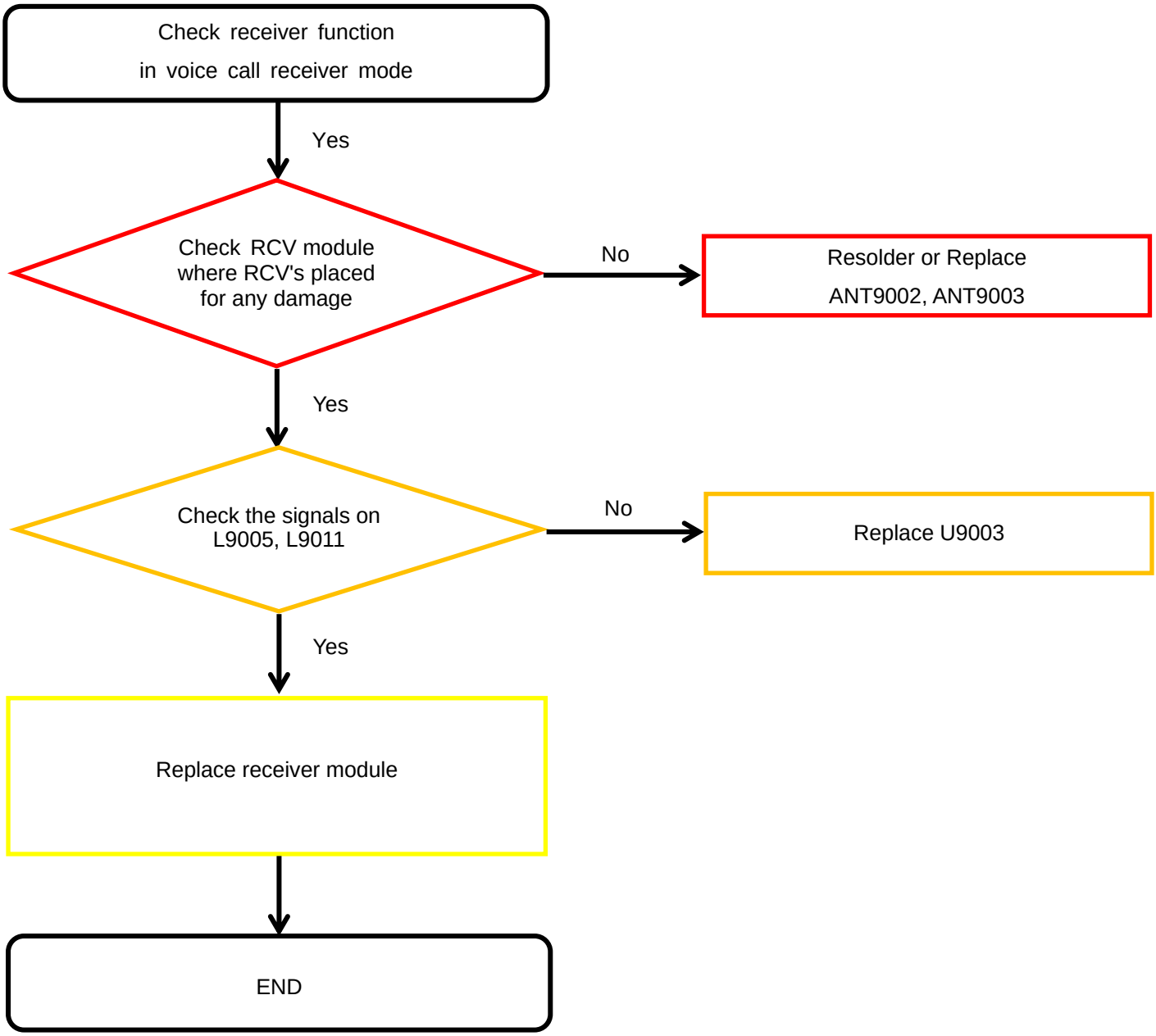
8-4-11. Receiver Part



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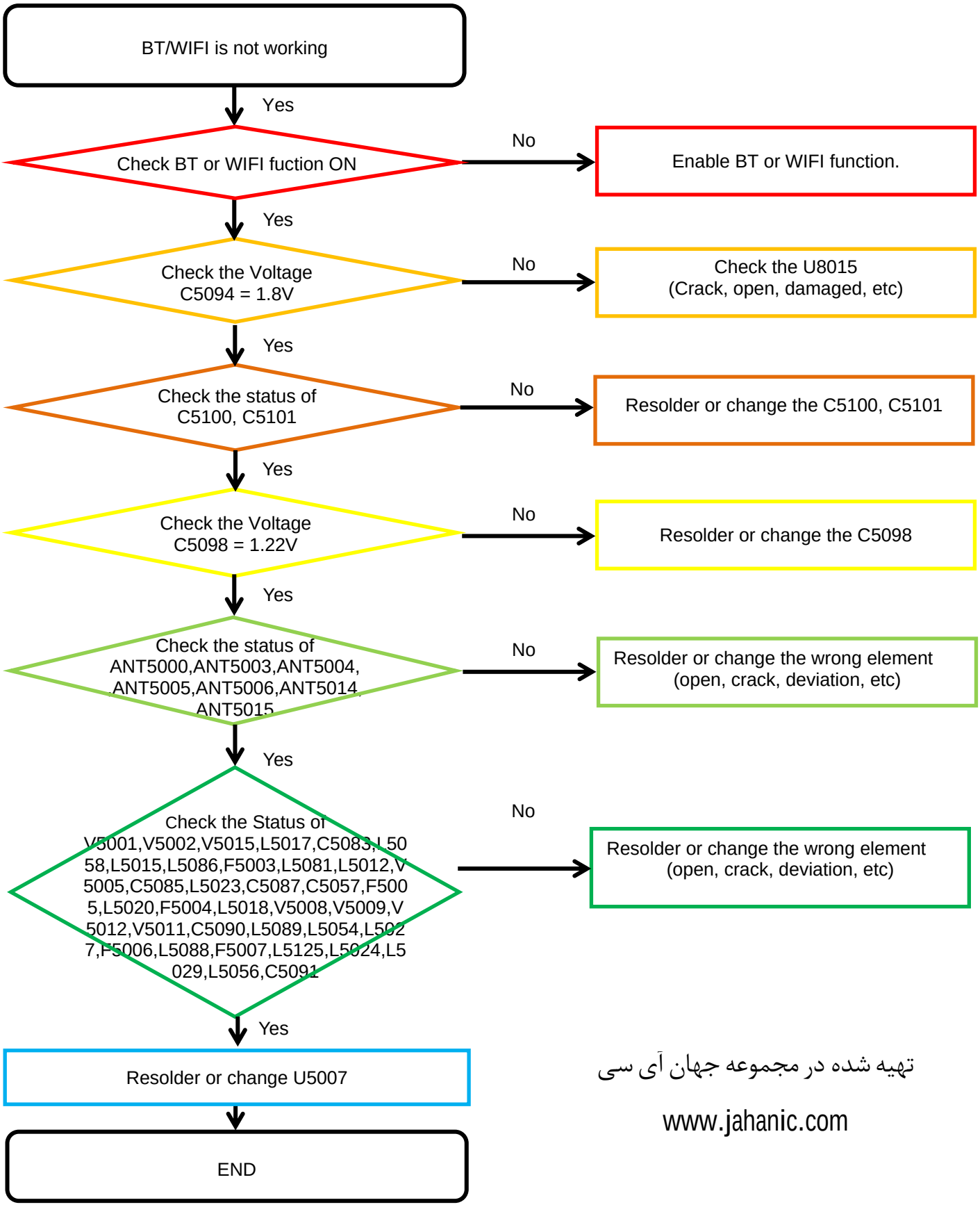
8. Level 3 Repair

8-4-12. BT/WIFI



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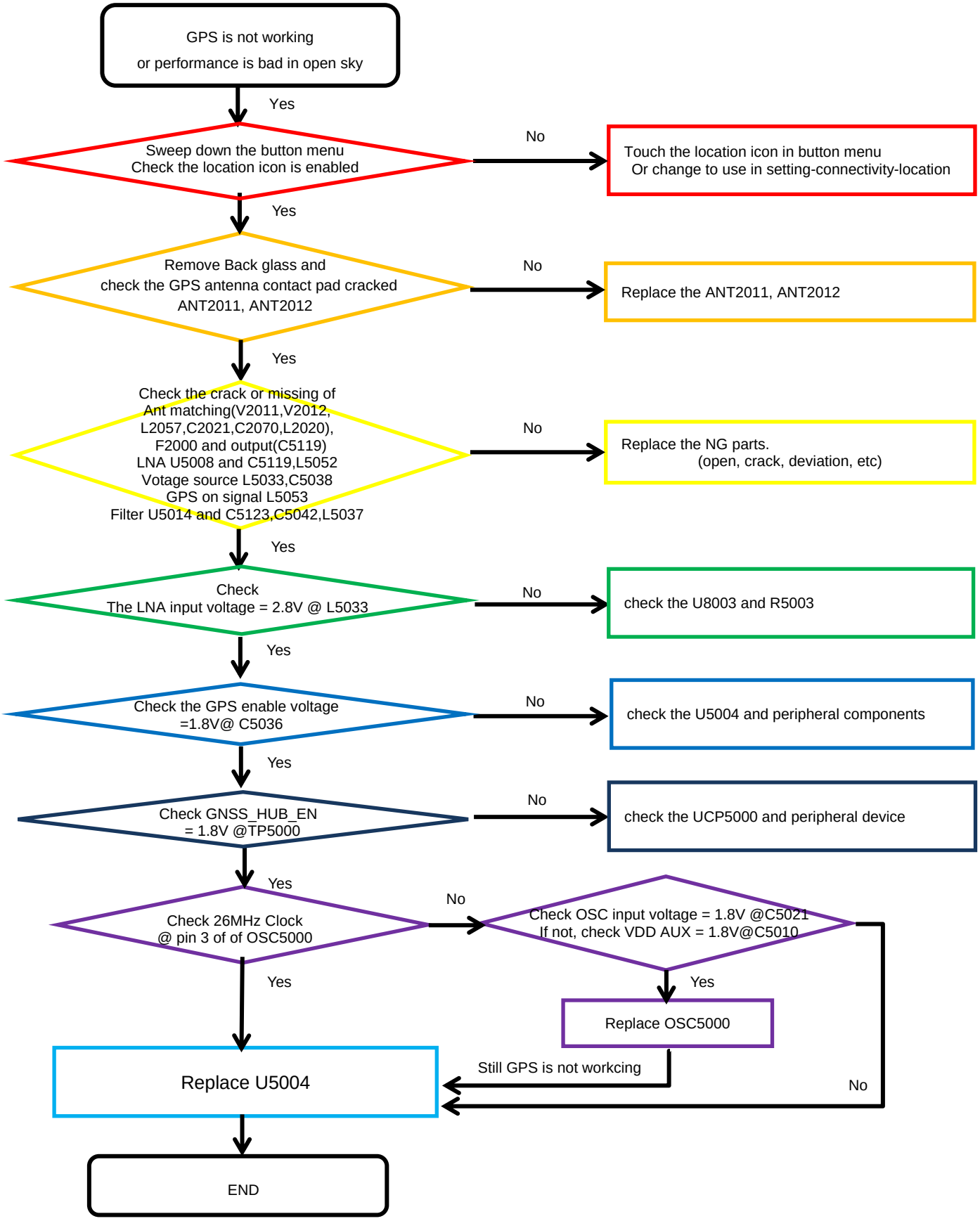
8. Level 3 Repair

8-4-13. GPS



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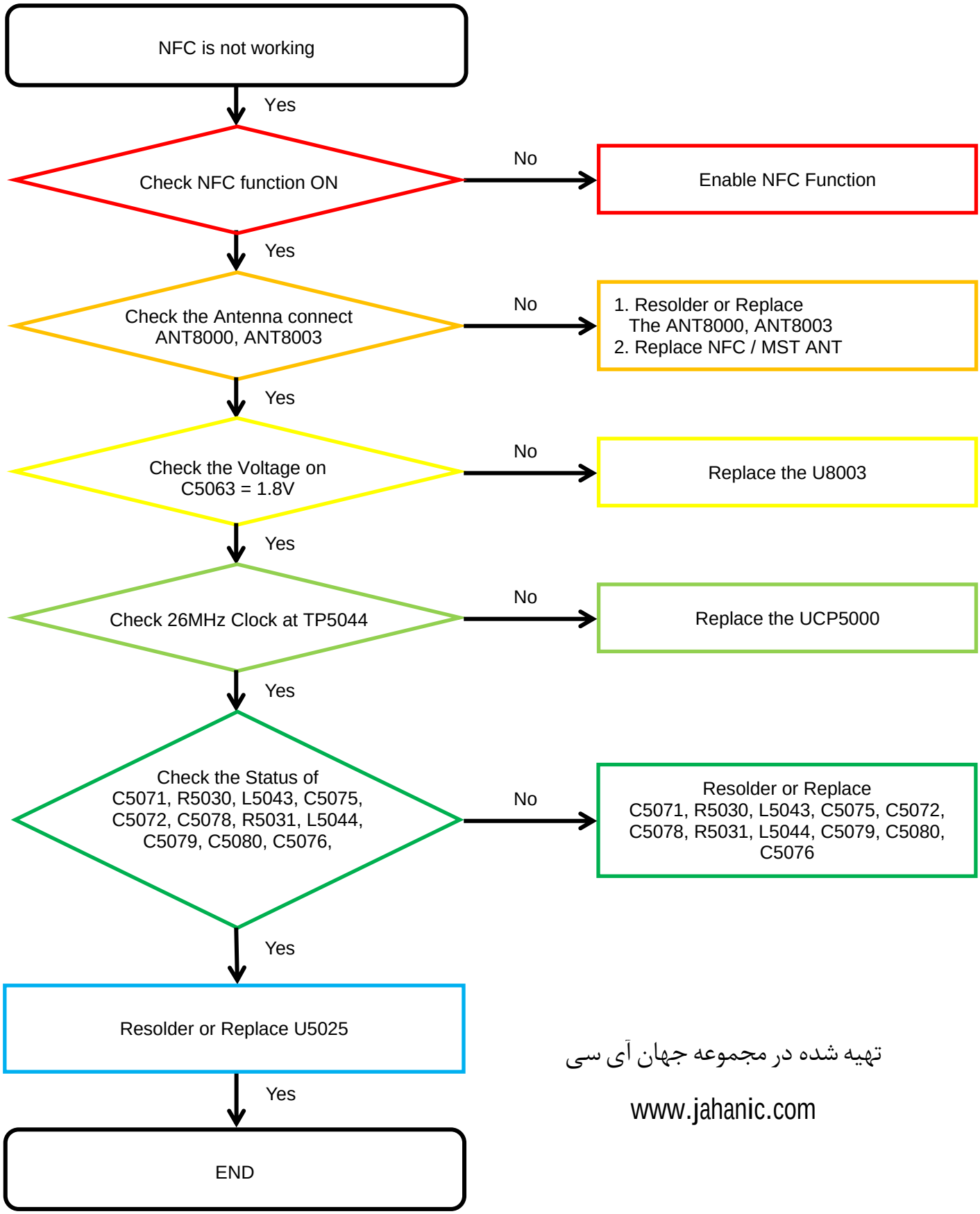
8-4-14. NFC



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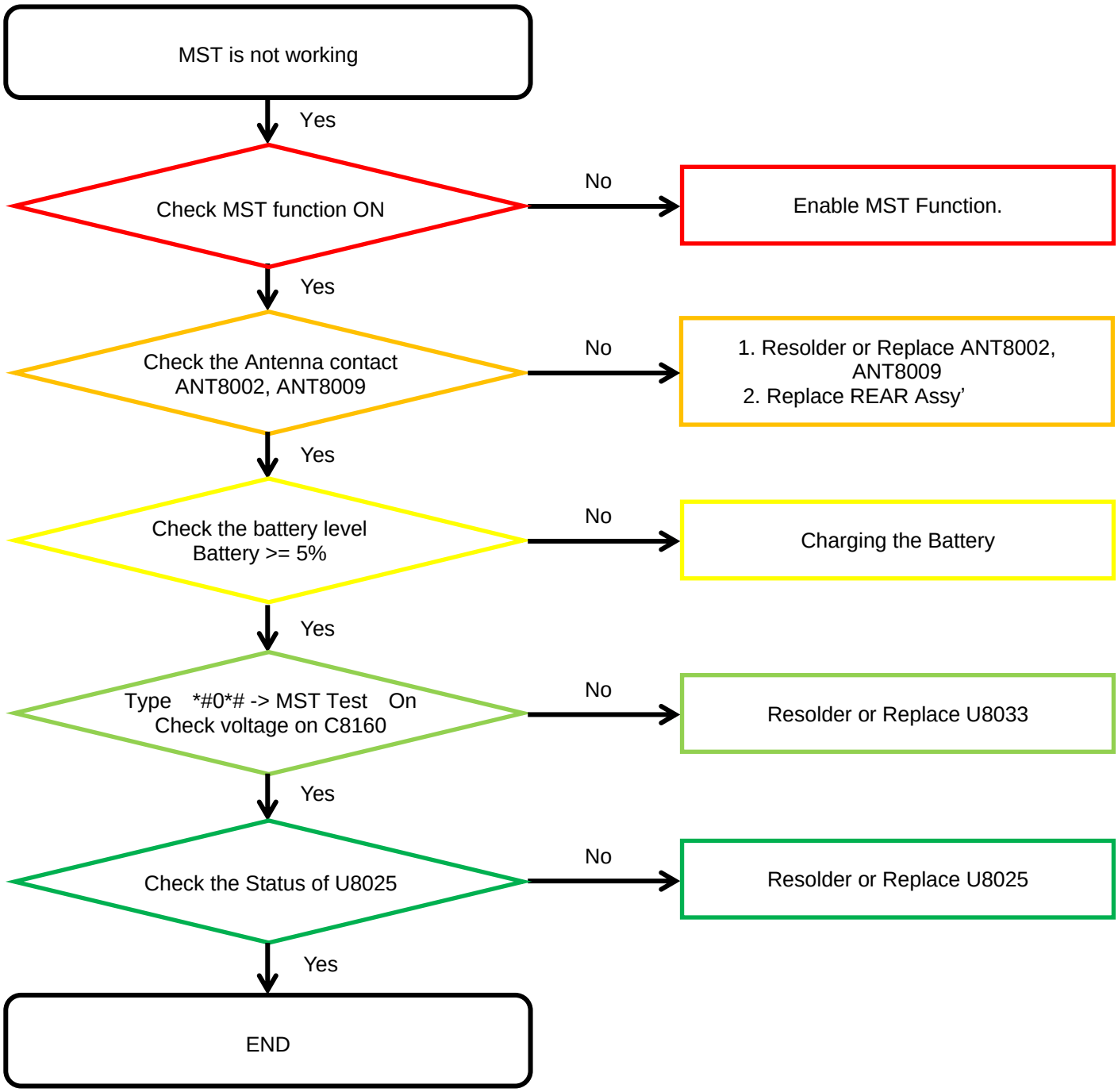
8-4-15. MST



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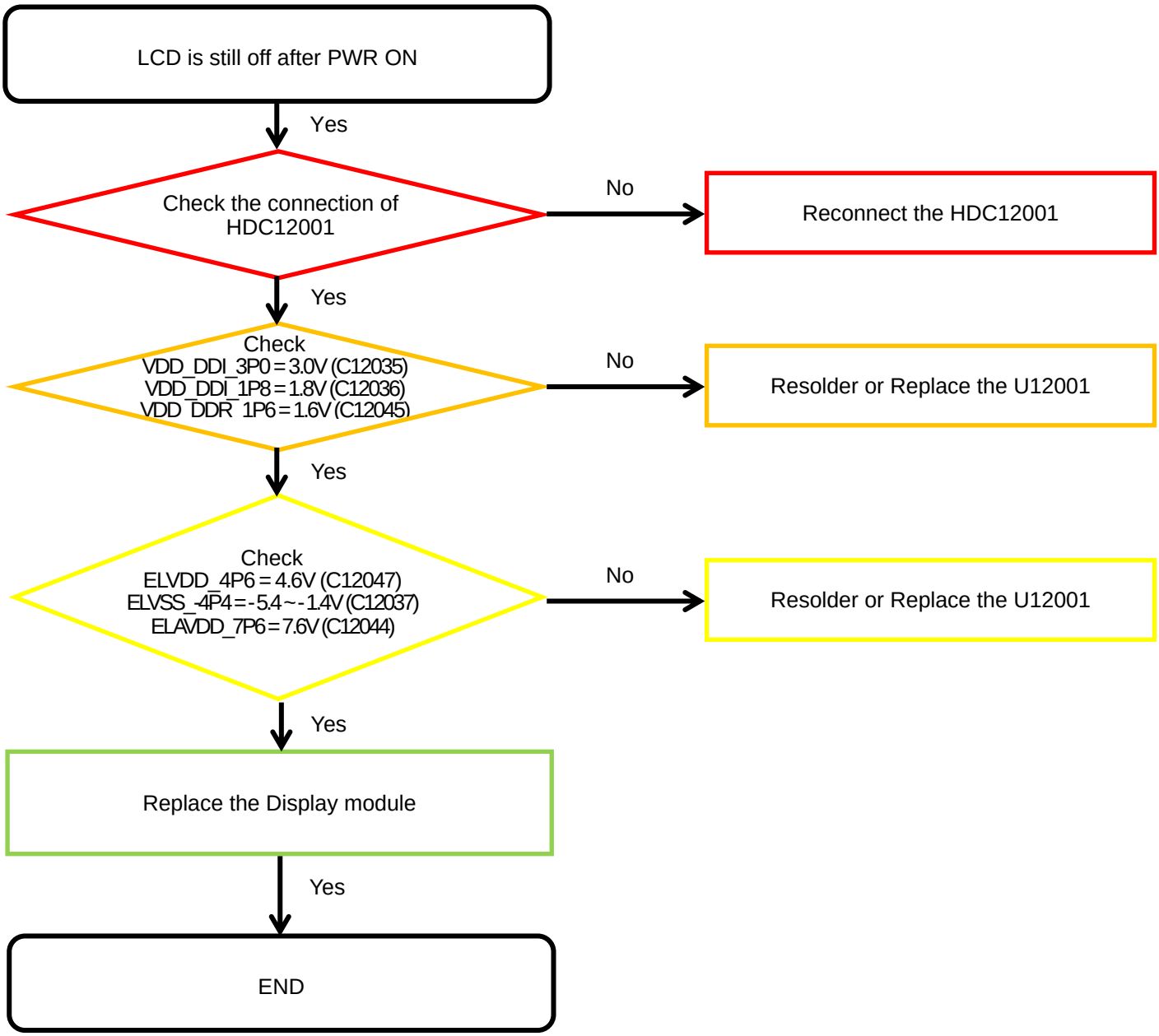
8. Level 3 Repair

8-4-16. Display



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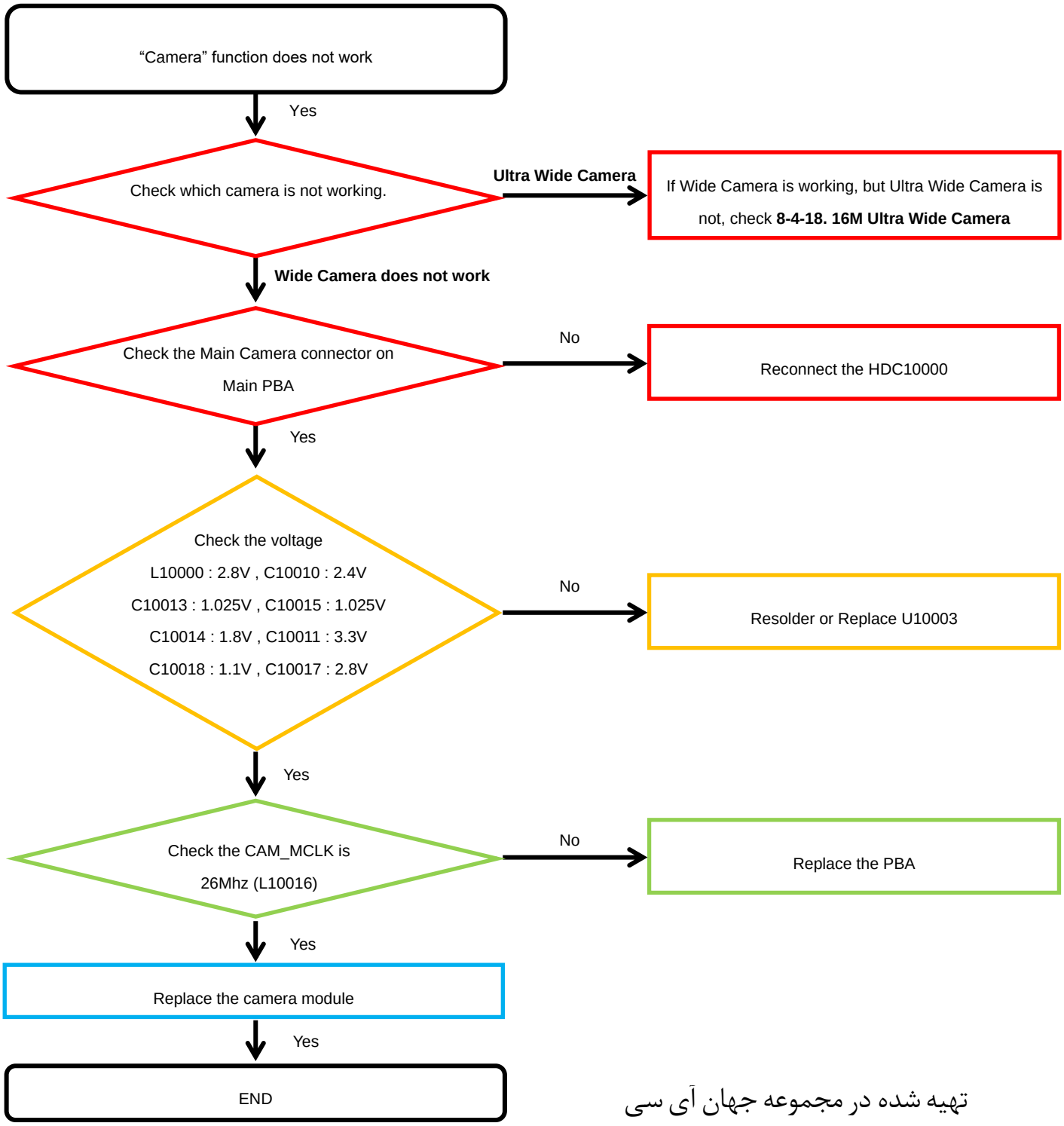
8-4-17. 12M MAIN CAMERA



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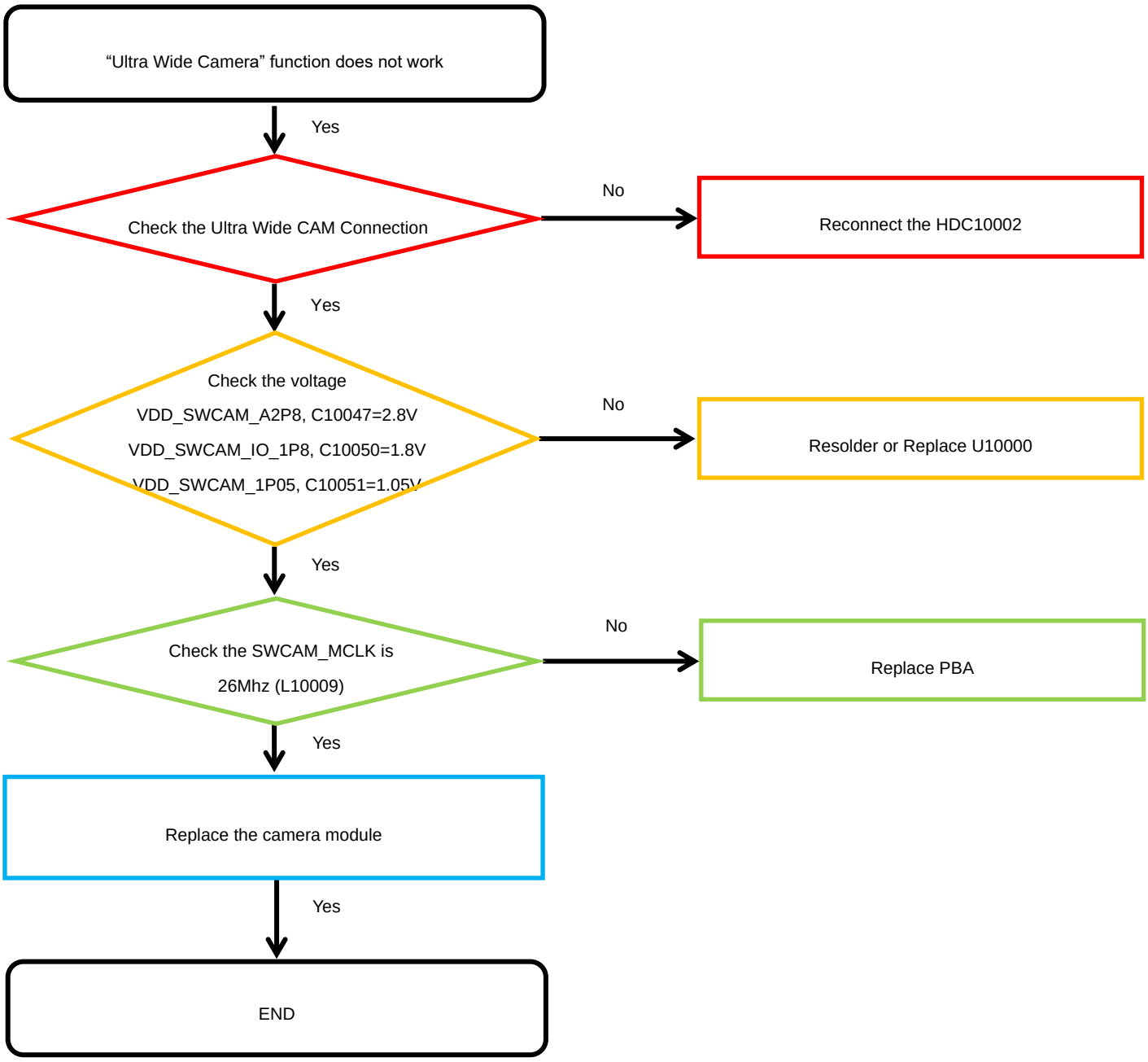
8-4-18. 16M ULTRA WIDE CAMERA



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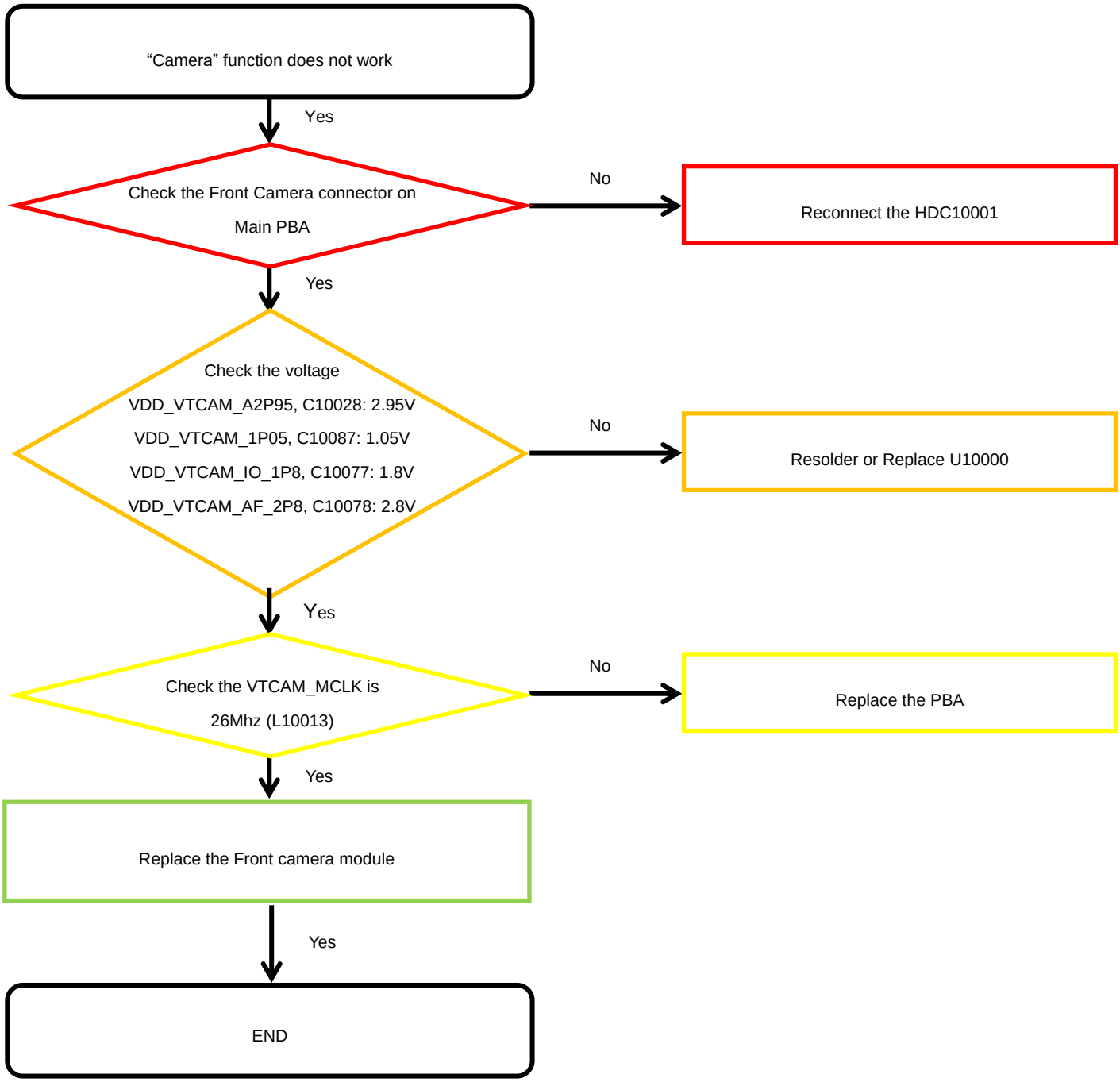
8-4-19. 10M FRONT CAMERA



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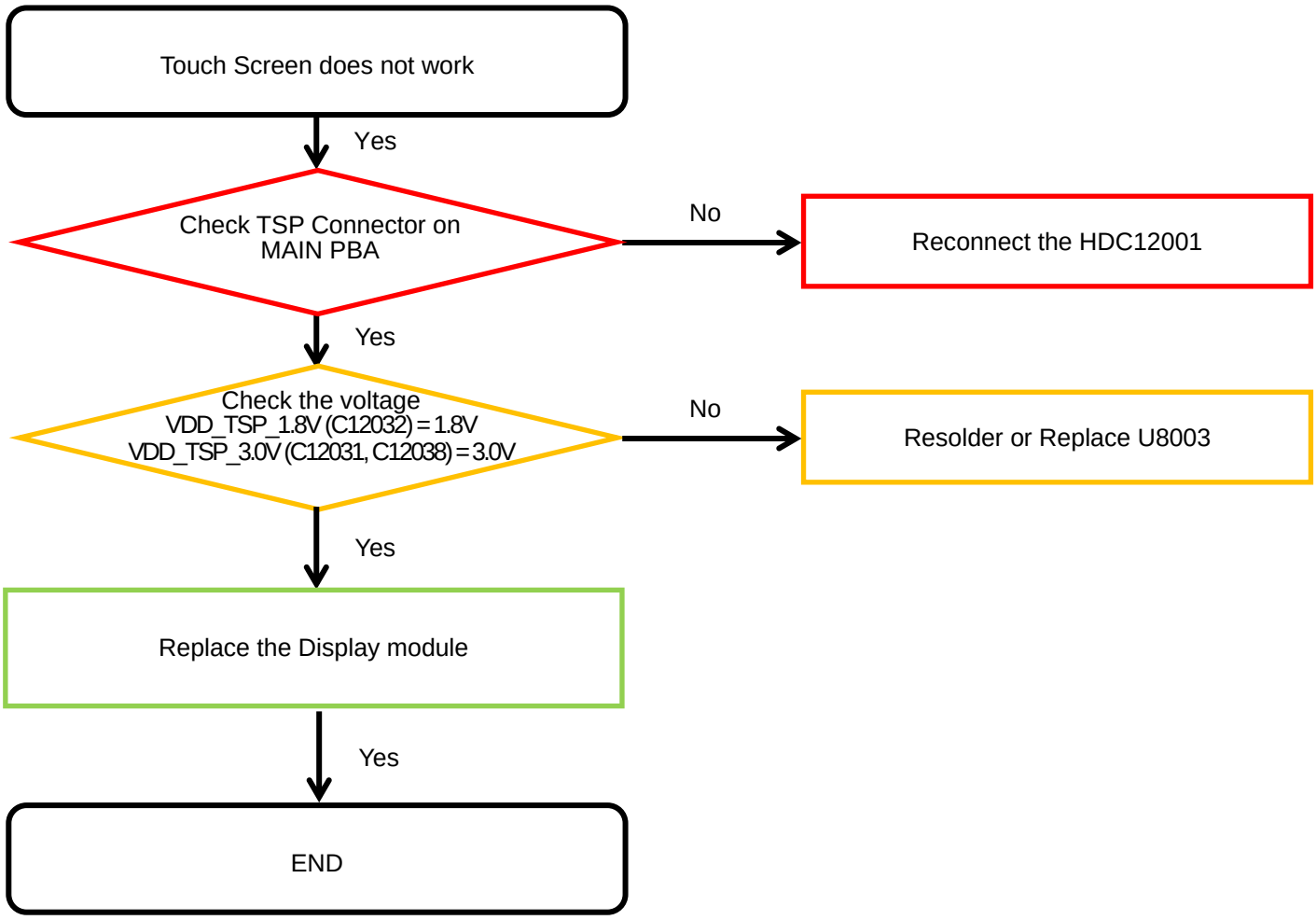
8. Level 3 Repair

8-4-20. TSP



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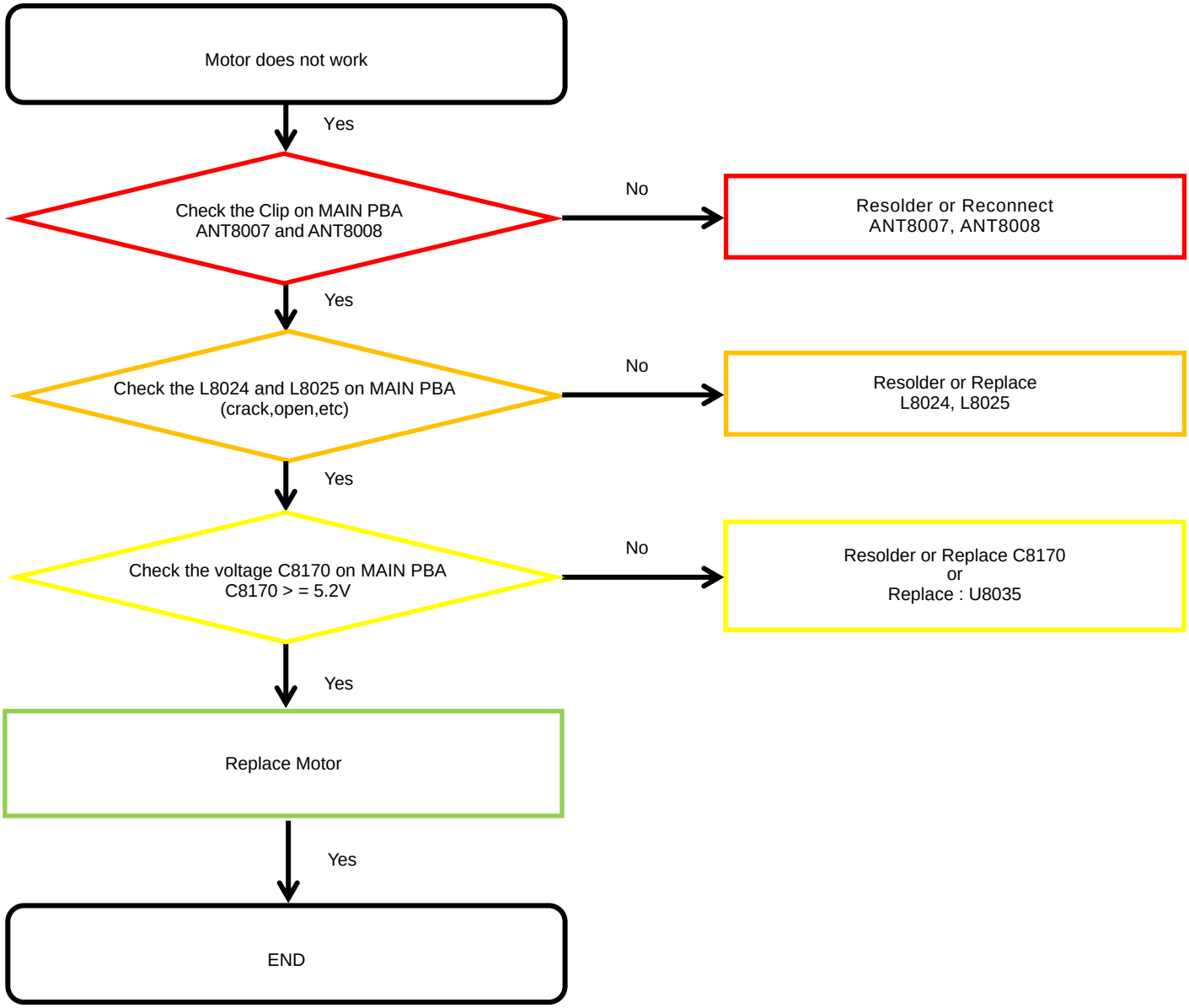
8. Level 3 Repair

8-4-21. Motor



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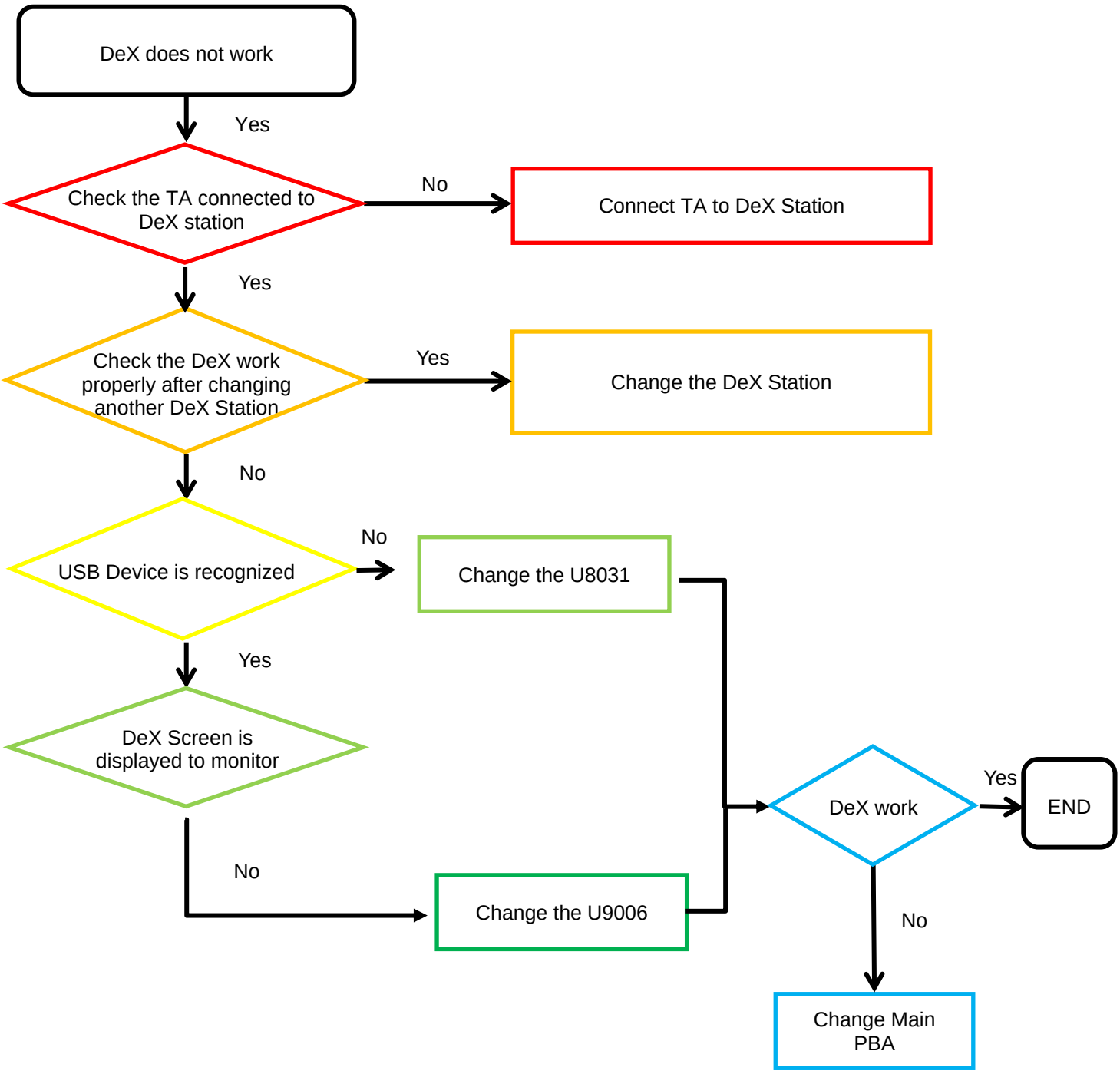
8-4-22. DeX Station



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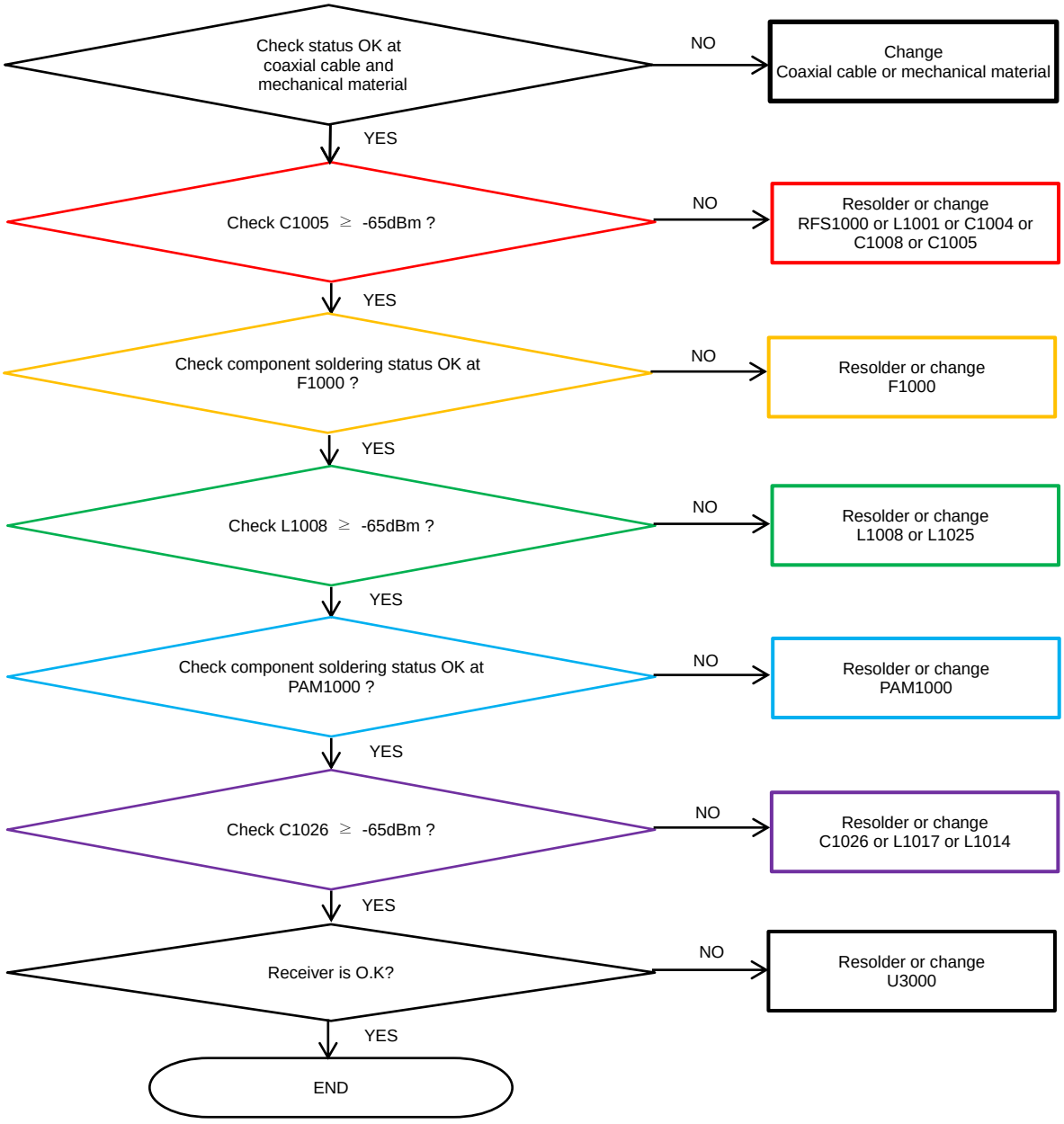
8-4-23. GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 PRx



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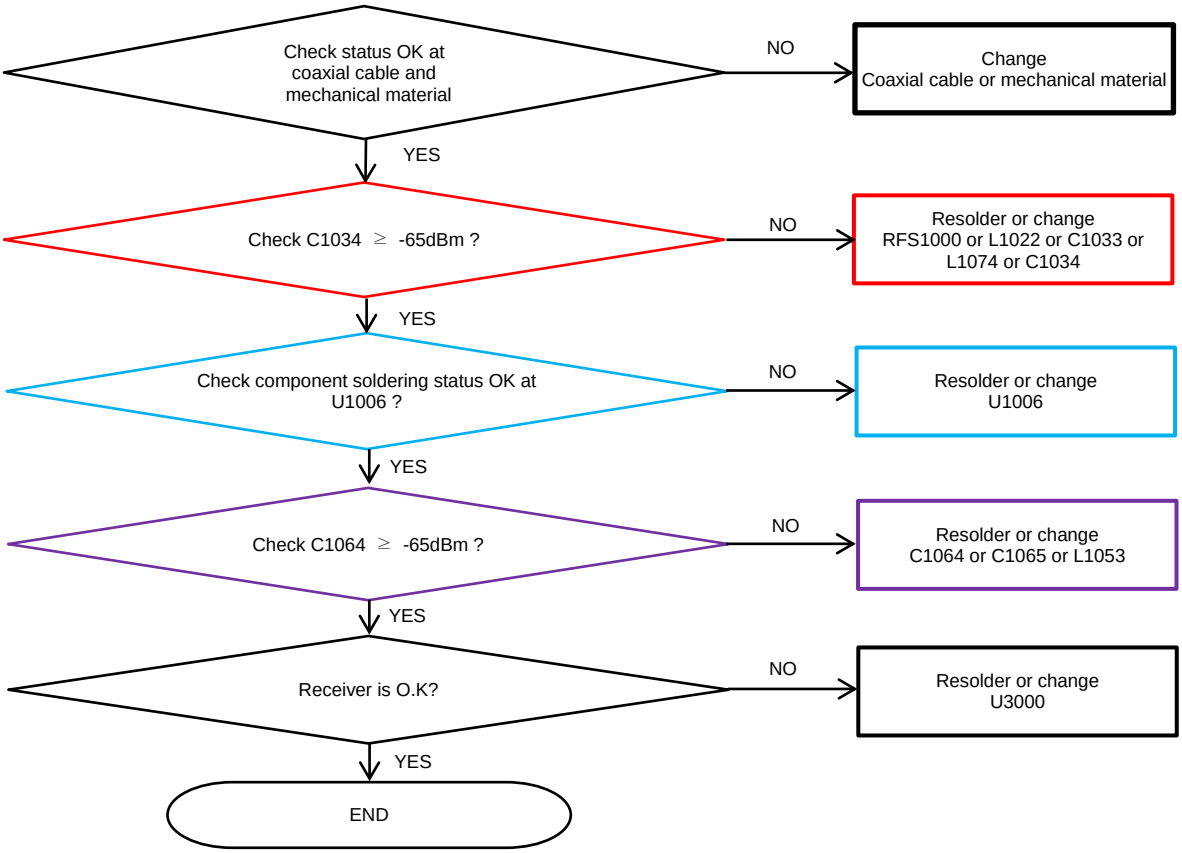
8-4-24. LTE B7/38/40/41 PRx



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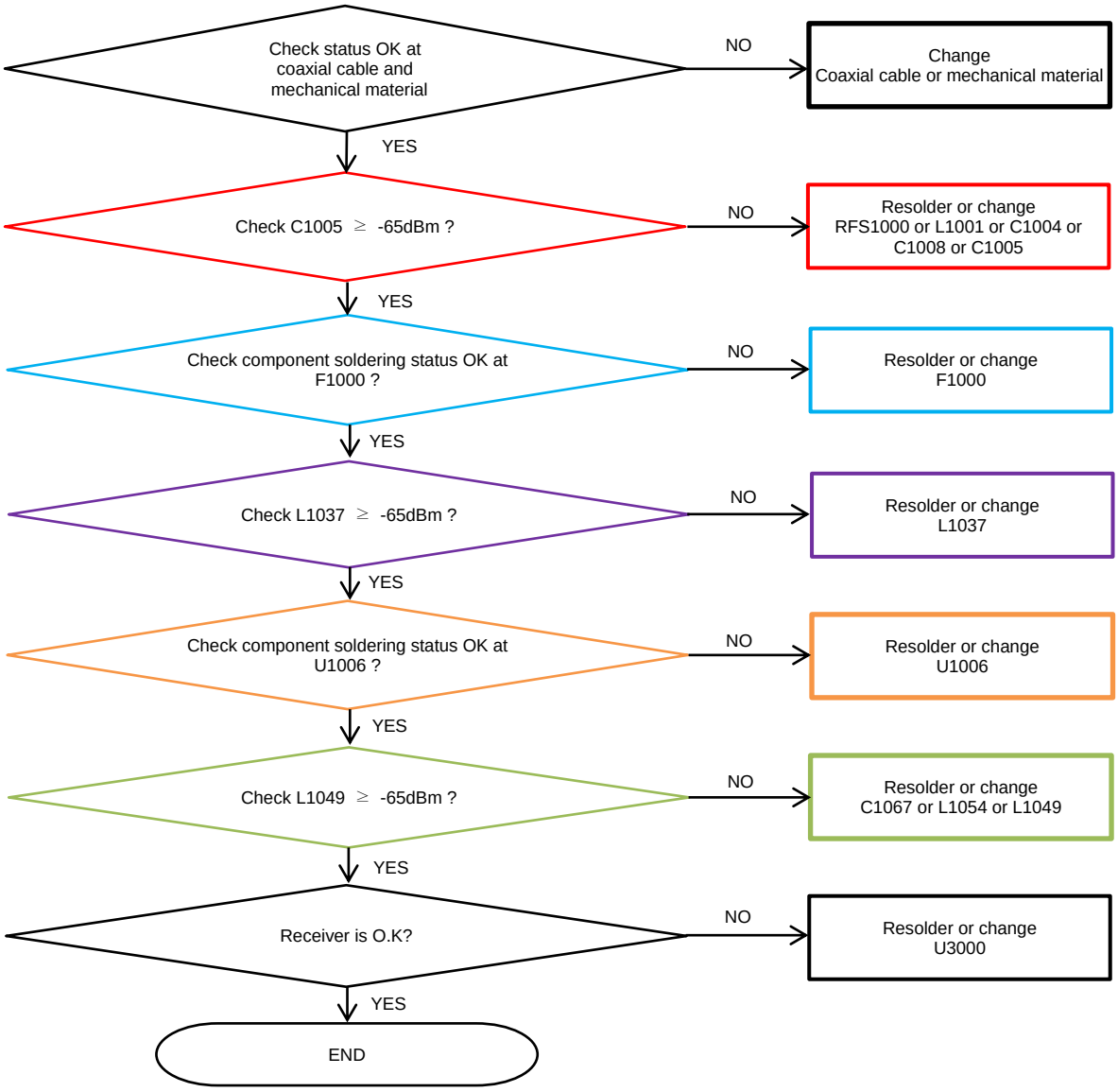
8-4-25. DCS1800/PCS1900, WCDMA B2, LTE B2/3/25 PRx



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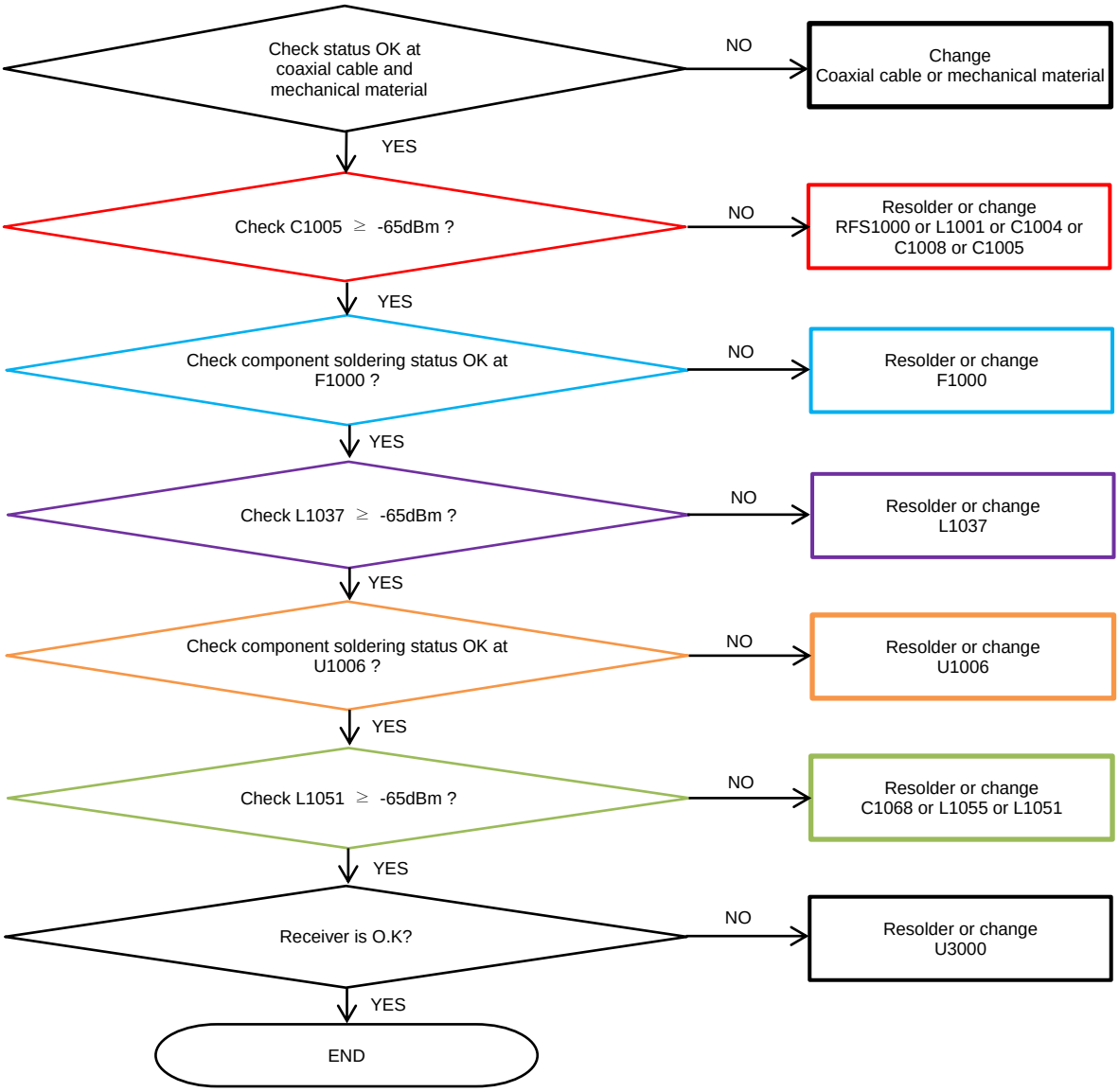
8-4-26. WCDMA B1/4, TDSCDMA B39, LTE B1/4/39/66 PRx



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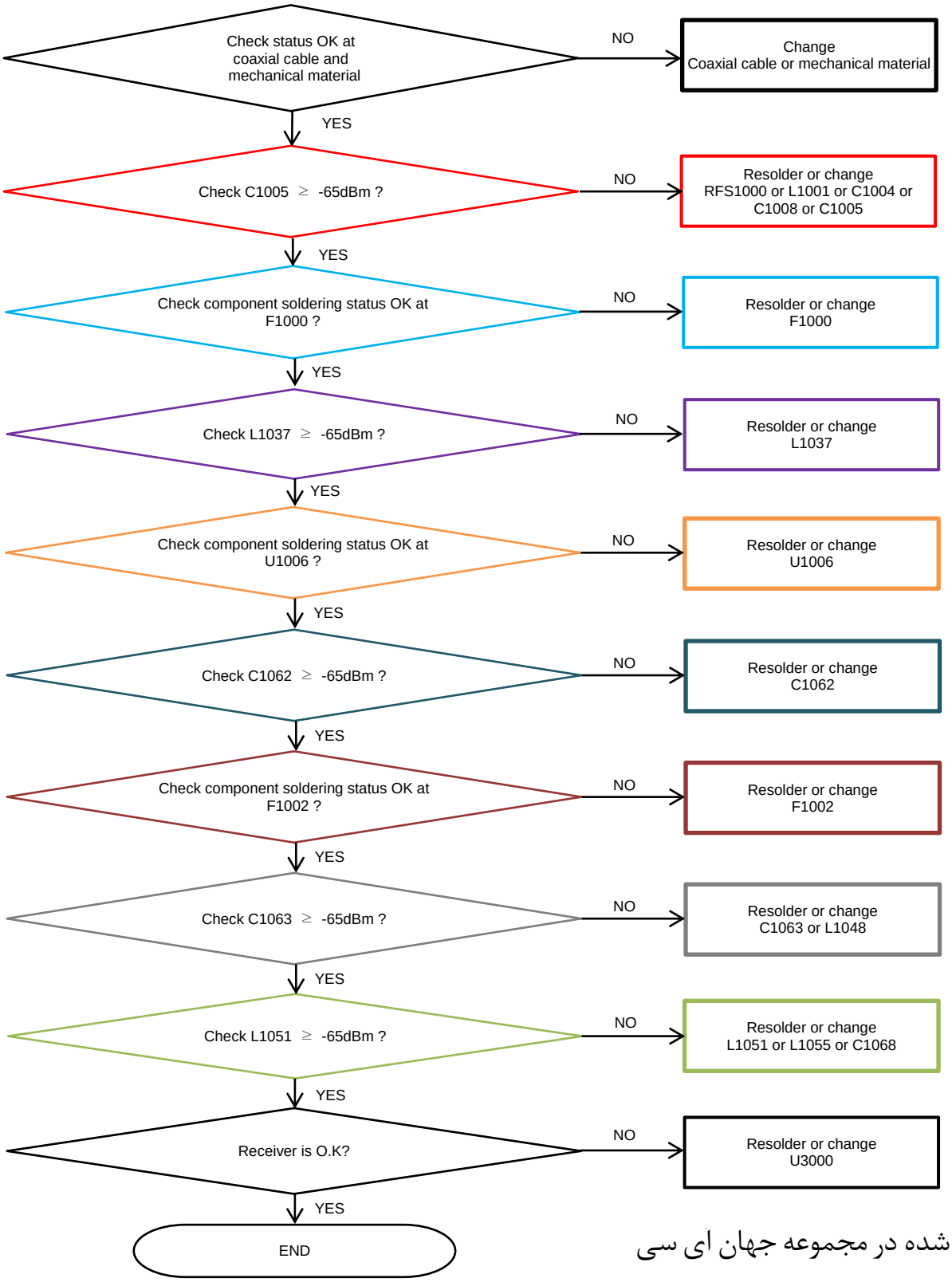
8-4-27. TDSCDMA B34 PRx



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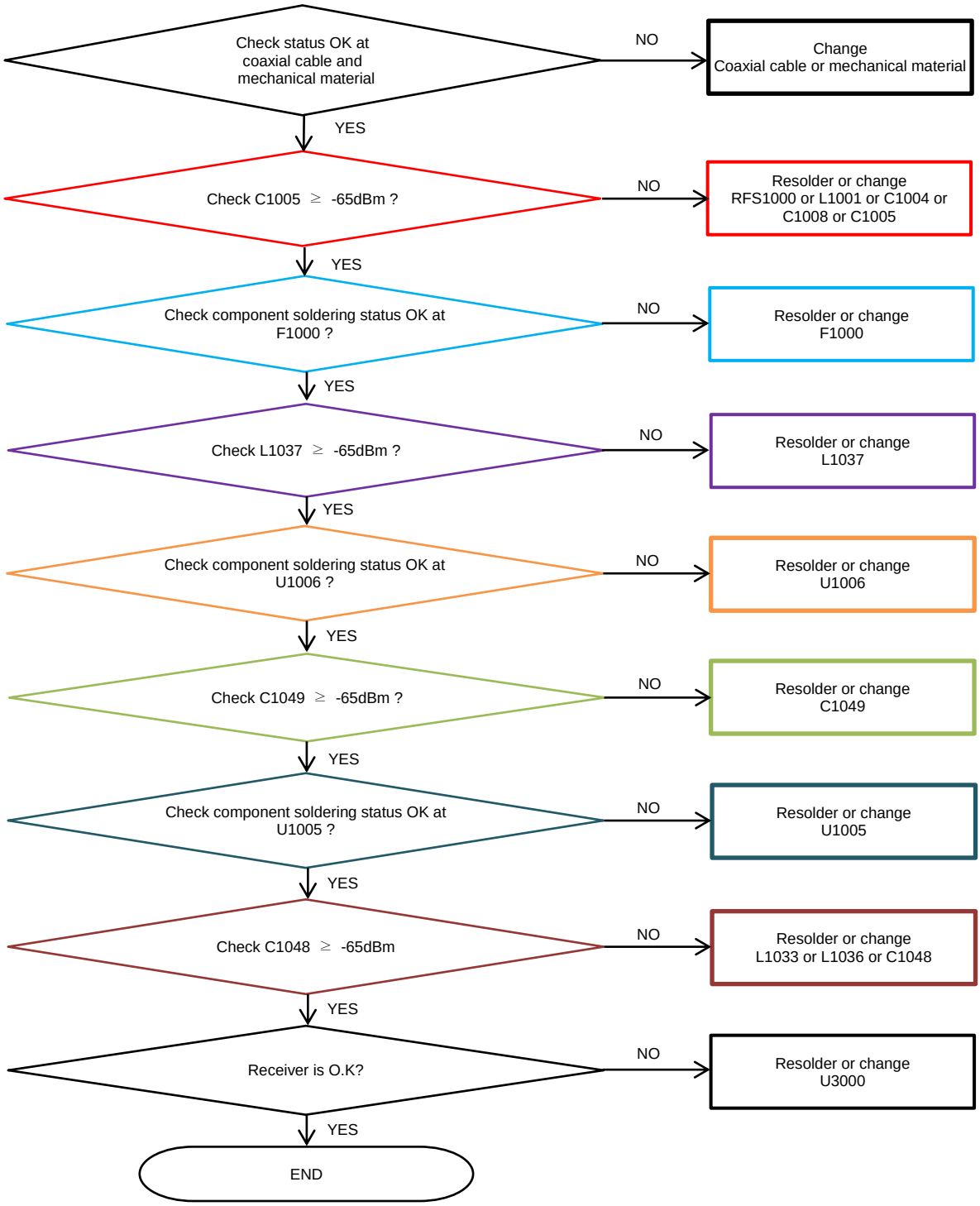
8-4-28. LTE B32 PRx



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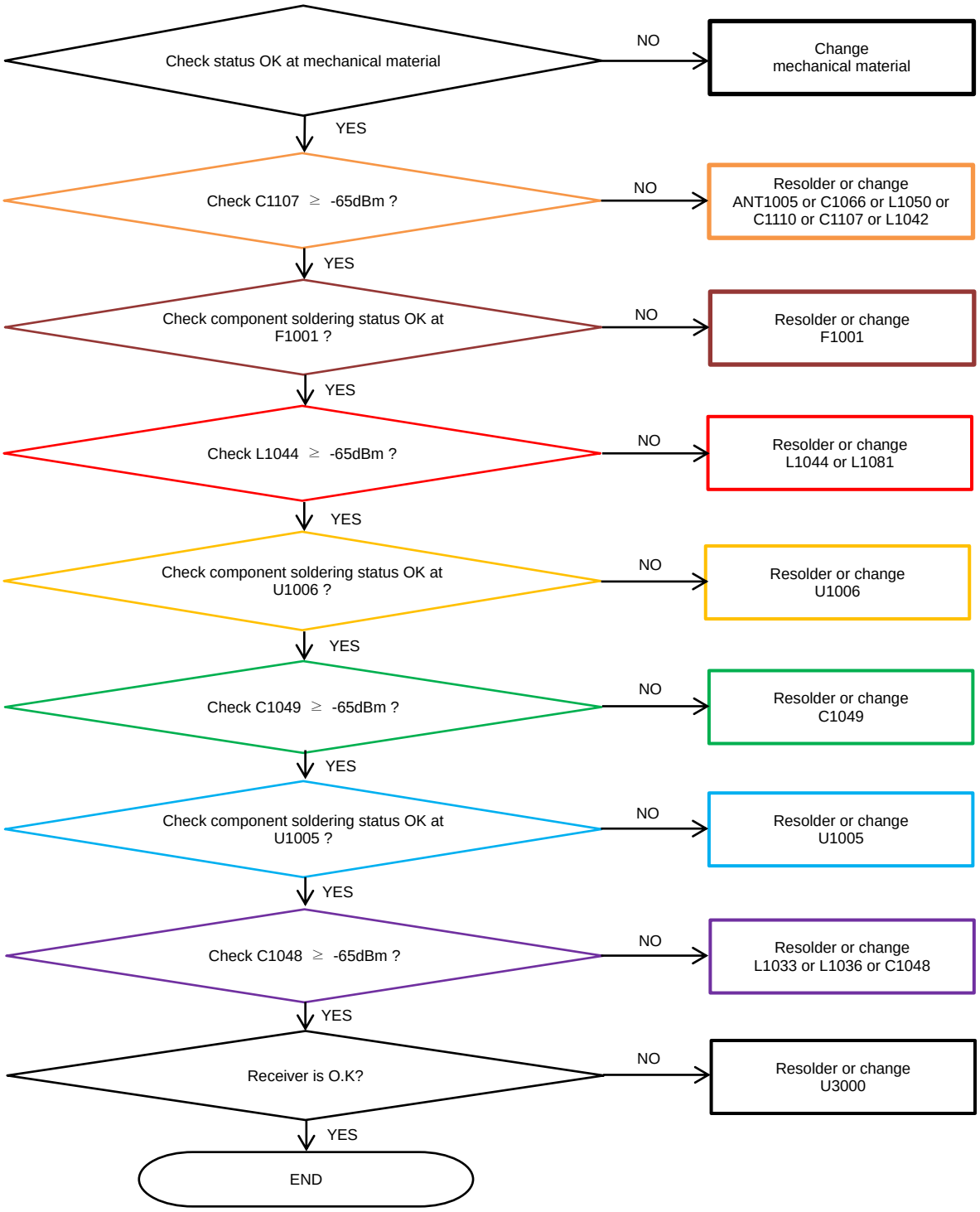
8-4-29. LTE B1/4/66 4Rx_PRx



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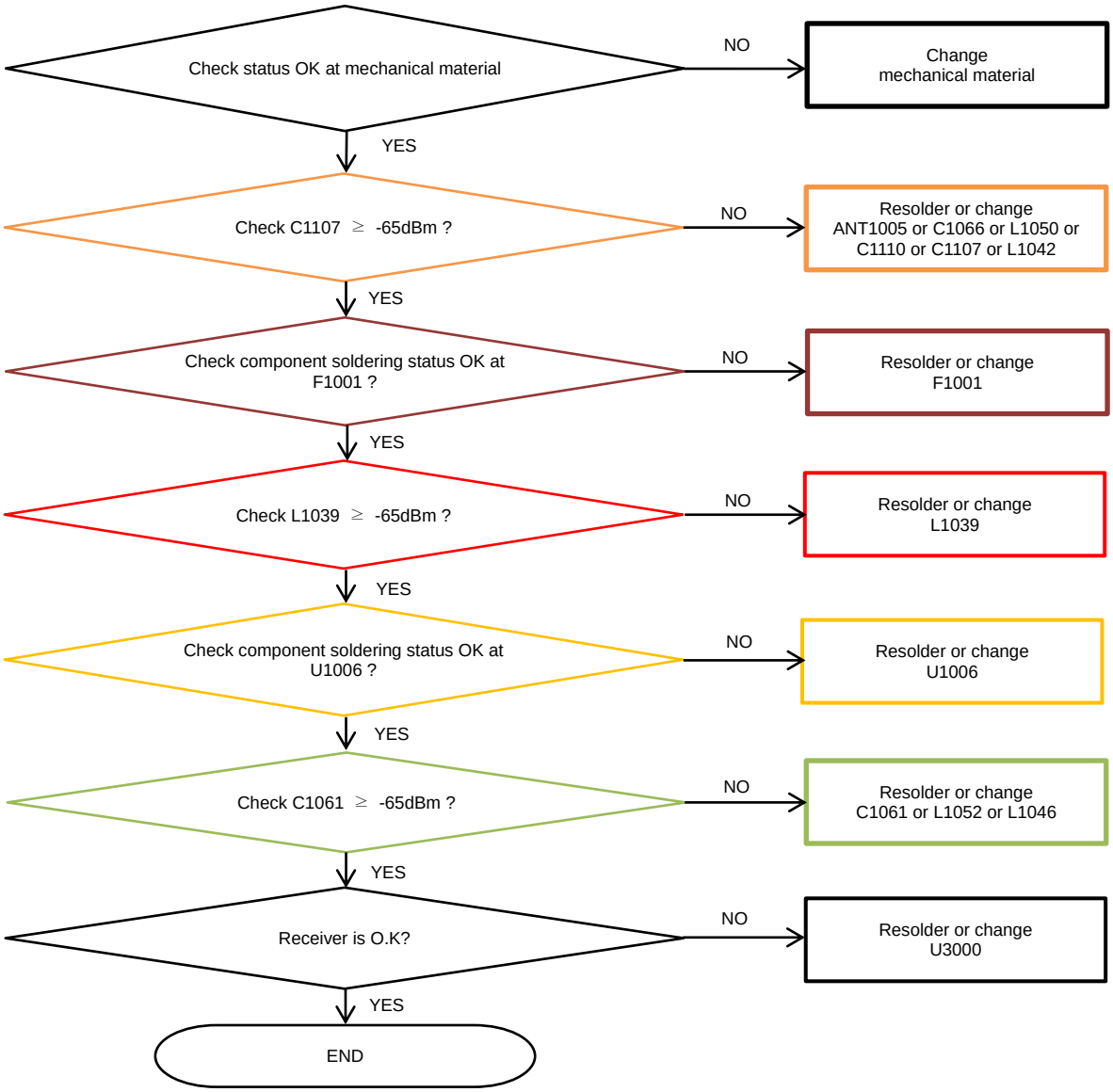
8-4-30. LTE B3 4Rx_PRx



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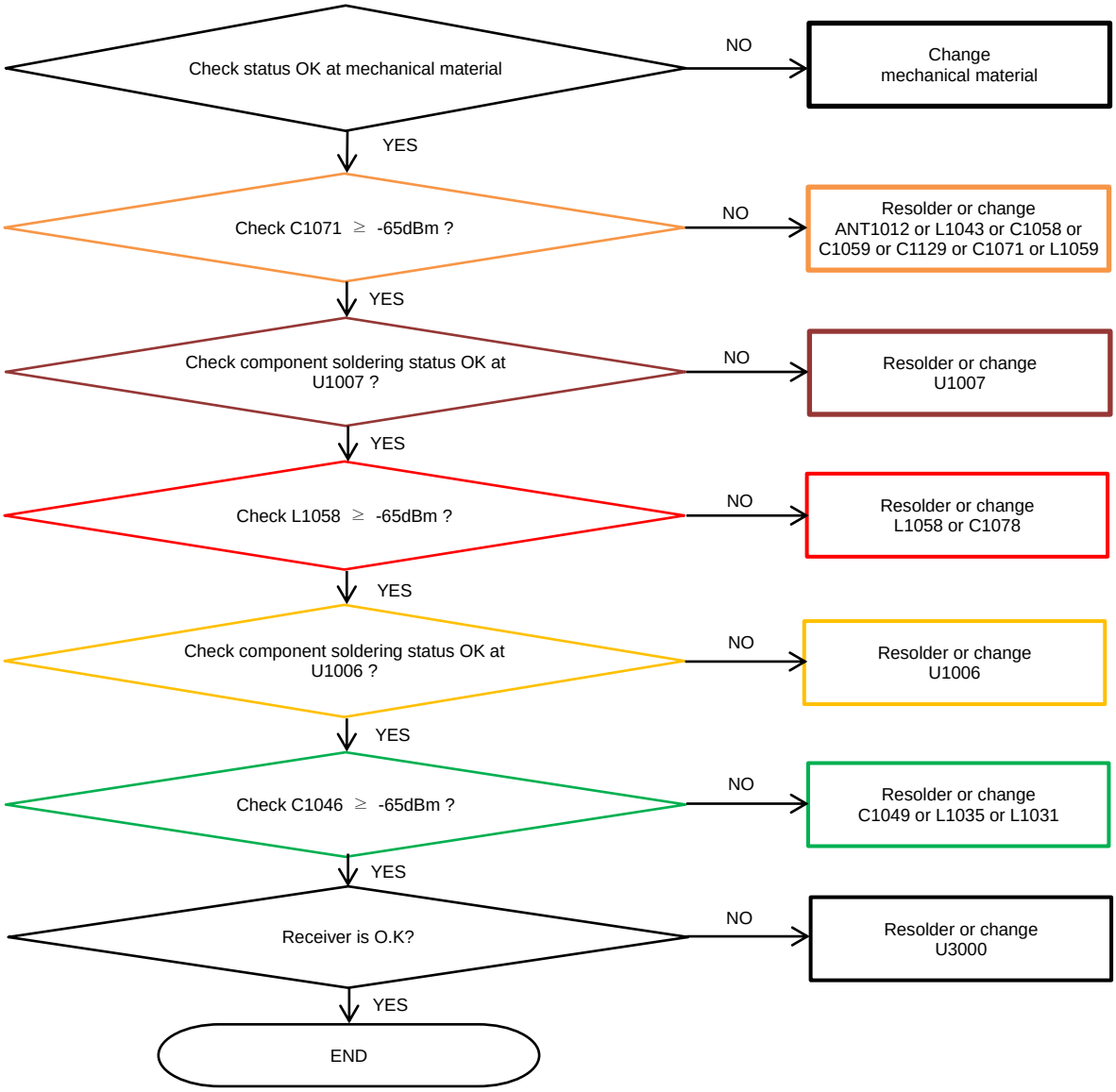
8-4-31. LTE B7 4Rx_PRx



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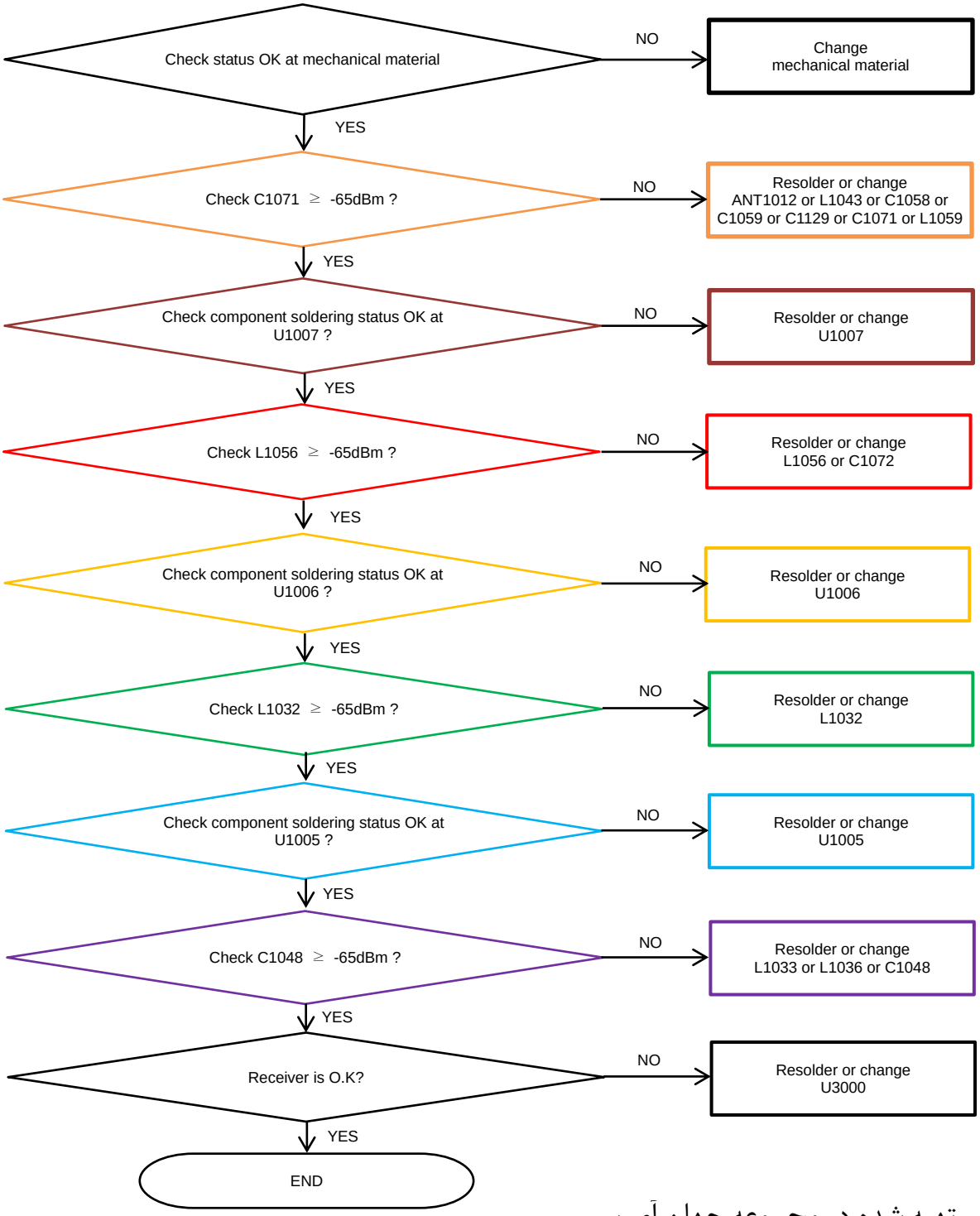
8-4-32. LTE 40 4Rx_PRx



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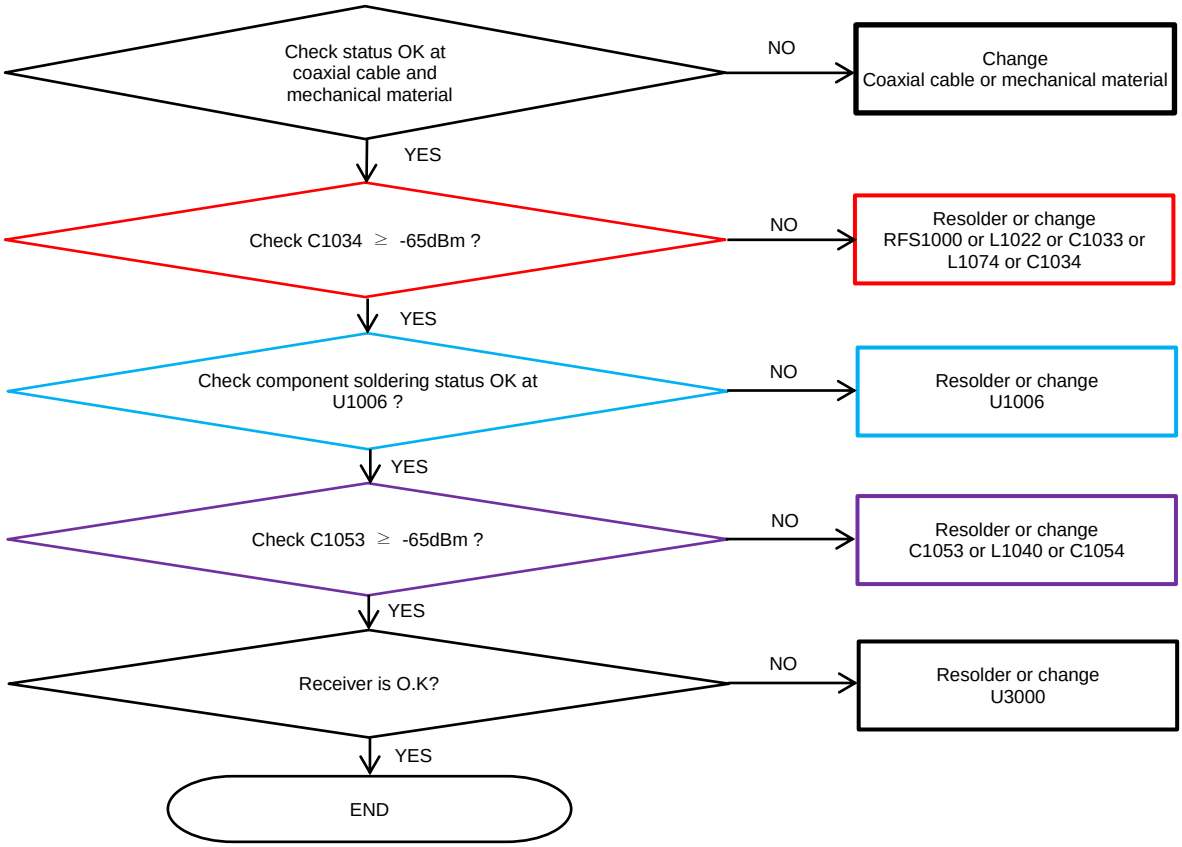
8-4-33. LTE B40 SCC



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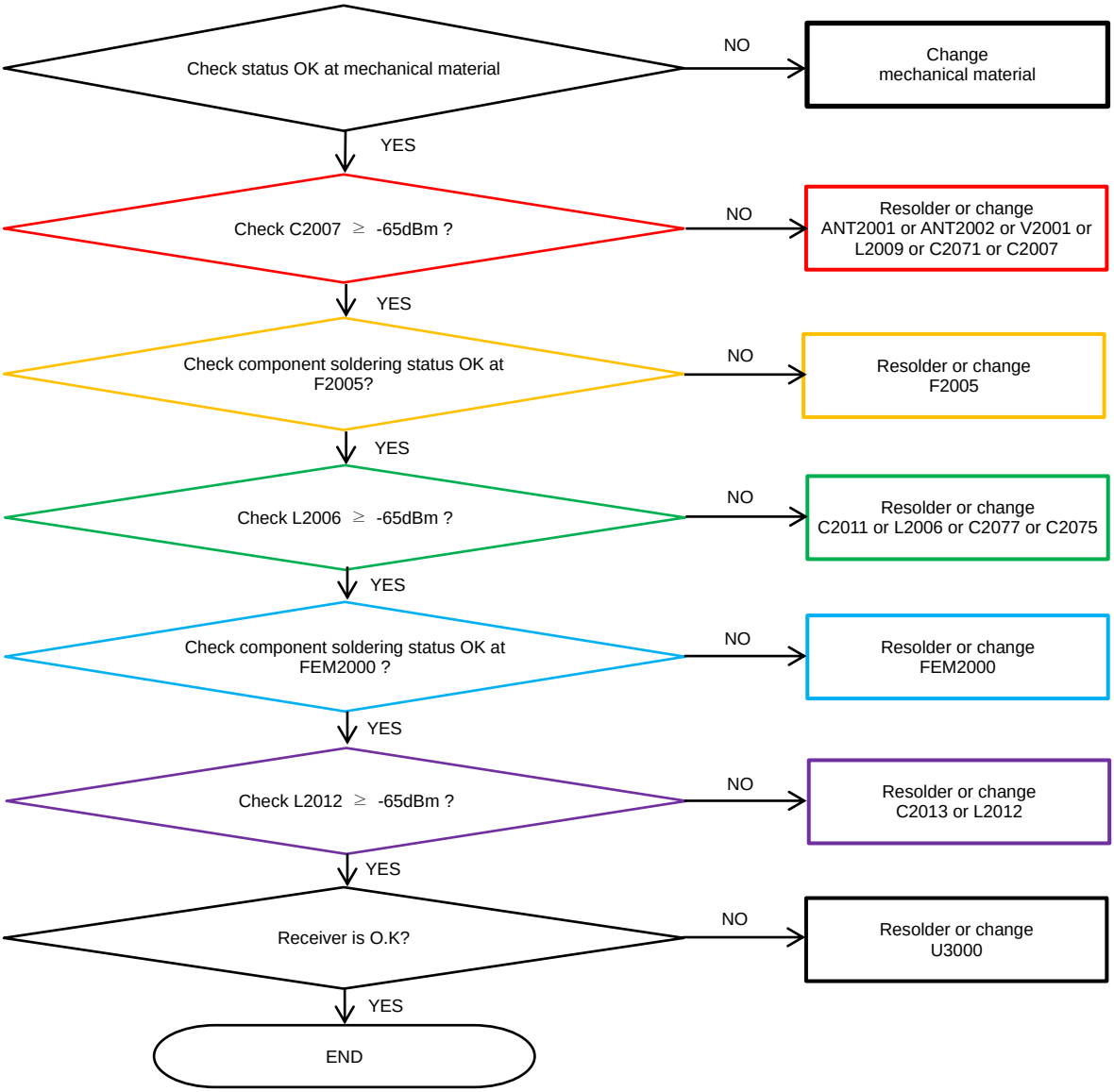
8-4-34. GSM850/900, WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 DRx



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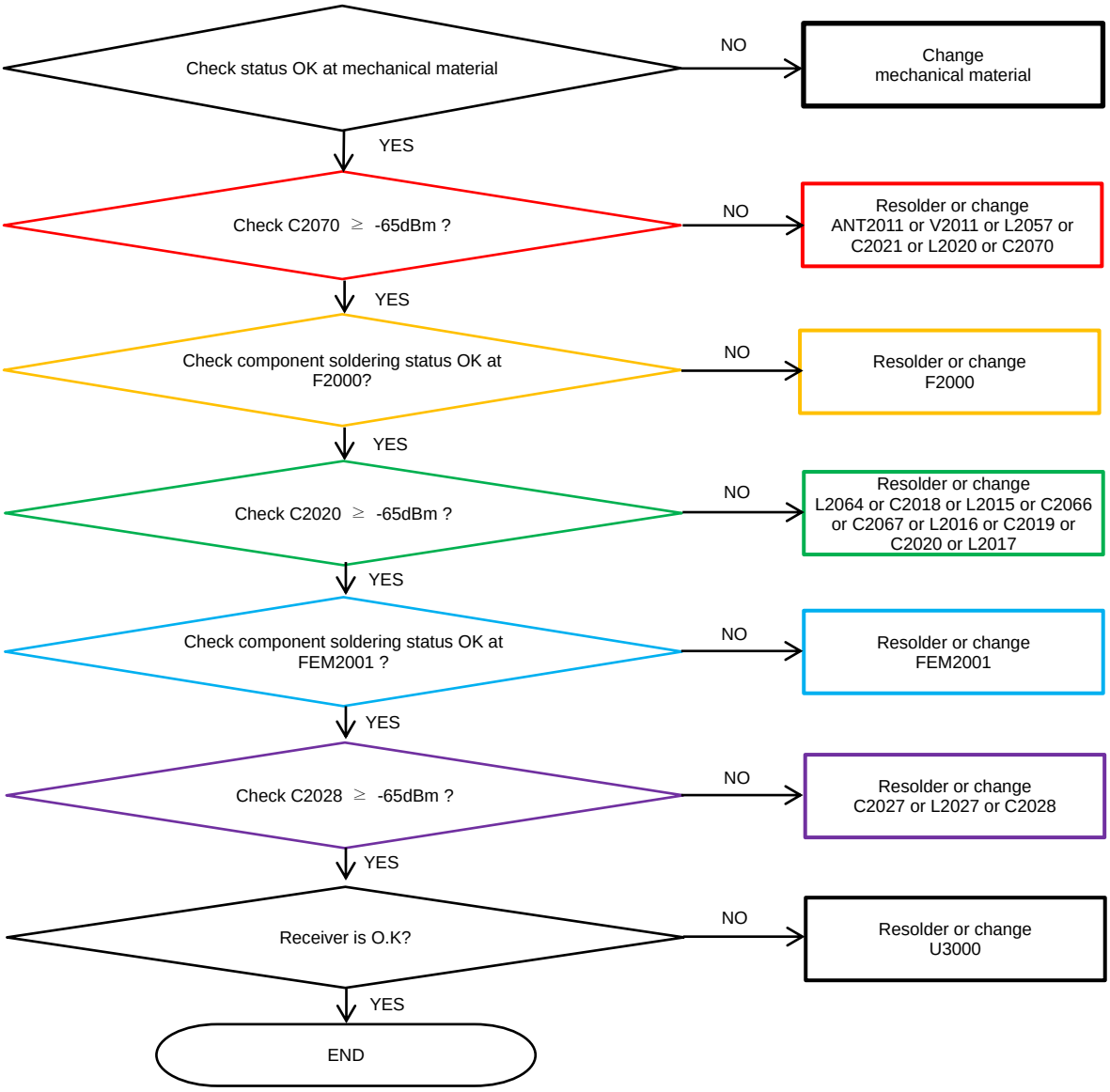
8-4-35. DCS1800/PCS1900, WCDMA B2, LTE B2/3/25 DRx



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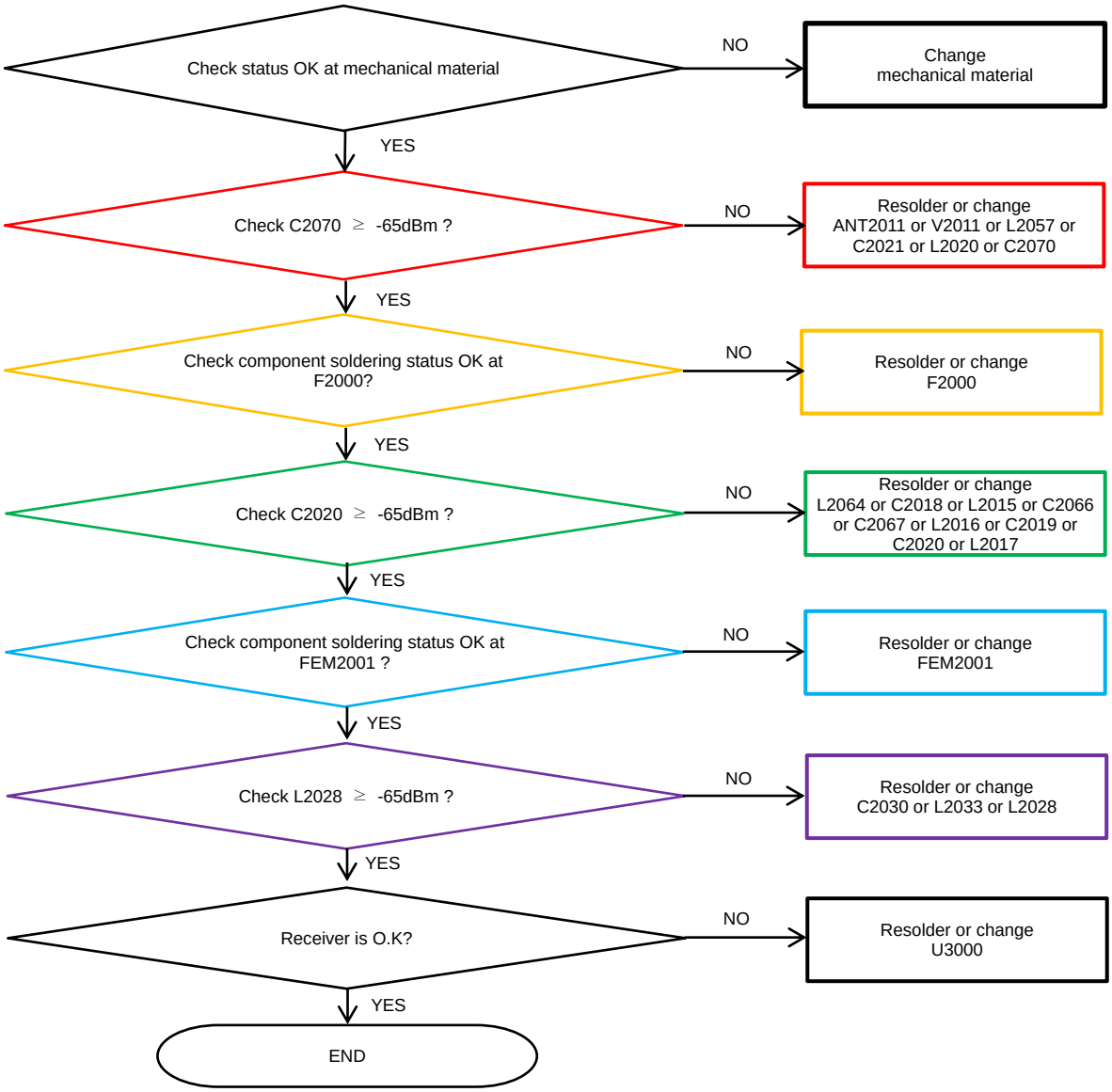
8-4-36. WCDMA B1/4, LTE B1/4/66 DRx



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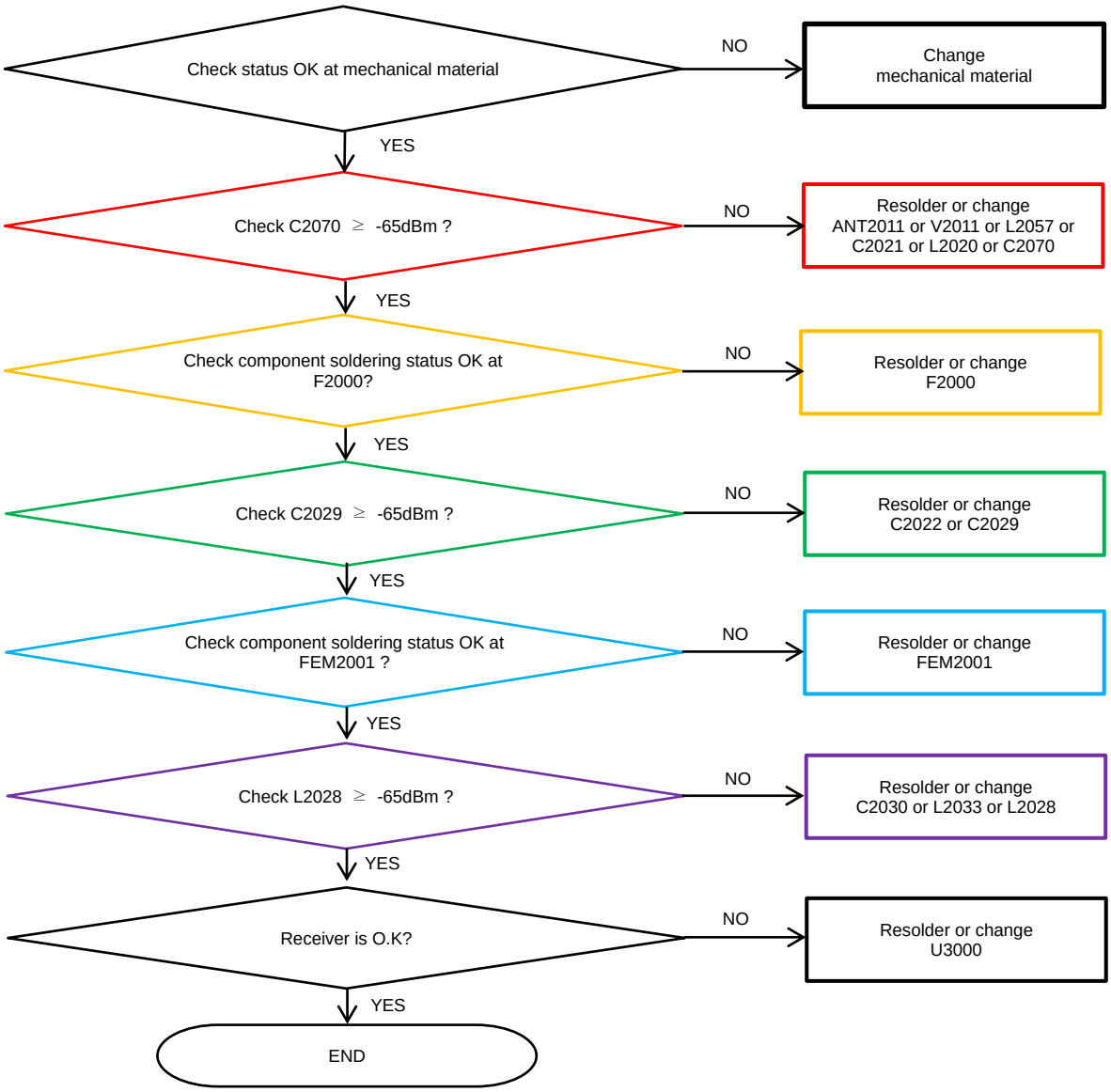
8-4-37. LTE B32 DRx



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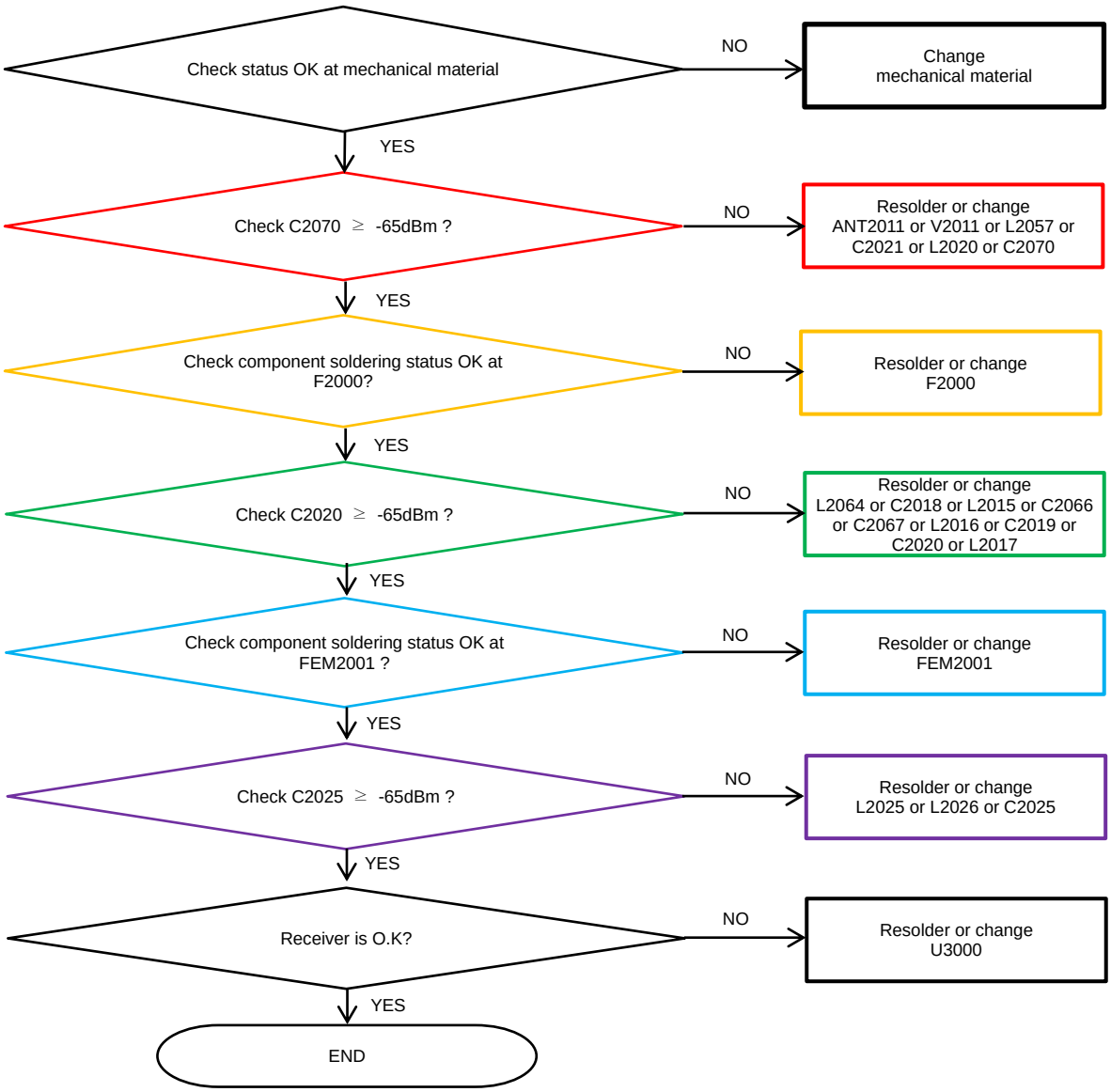
8-4-38. TDSCDMA B38/40/41, LTE B7/38/40/41 DRx



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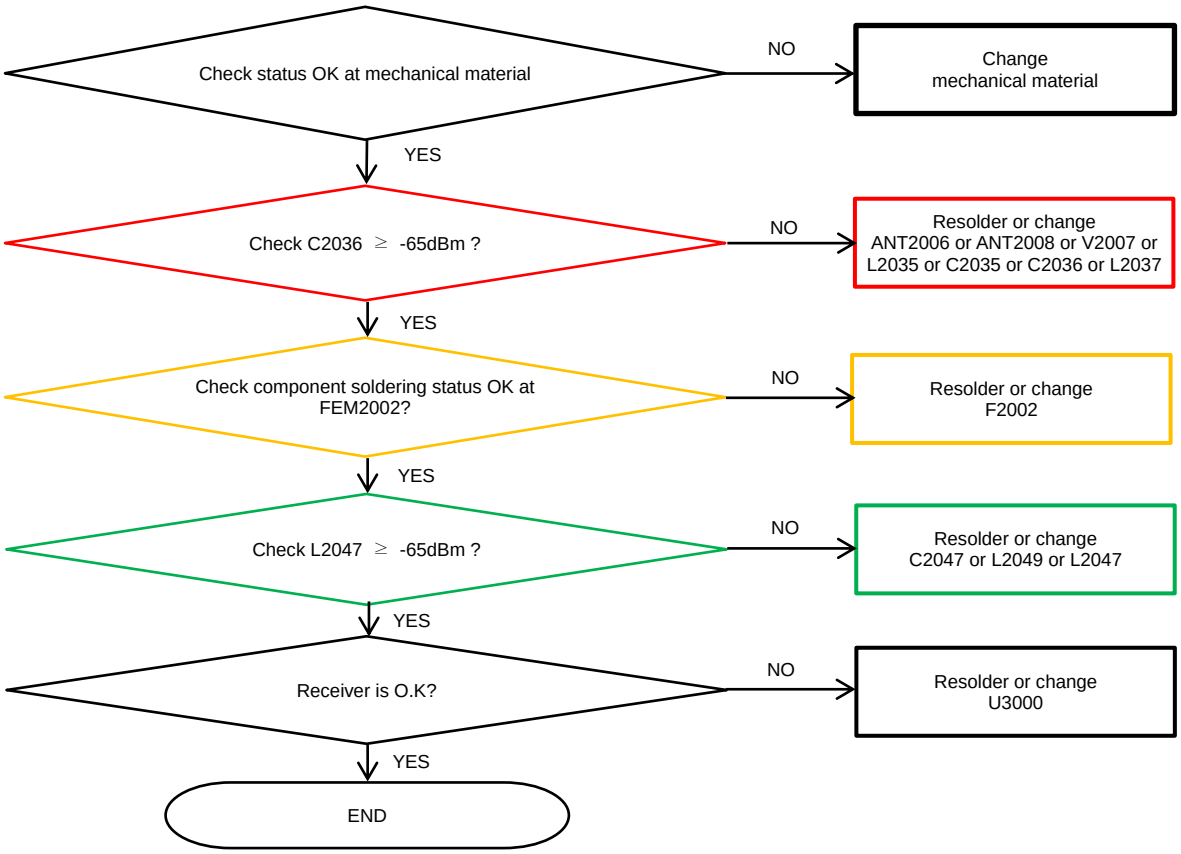
8-4-39. LTE B1/4/66 4Rx_DRx



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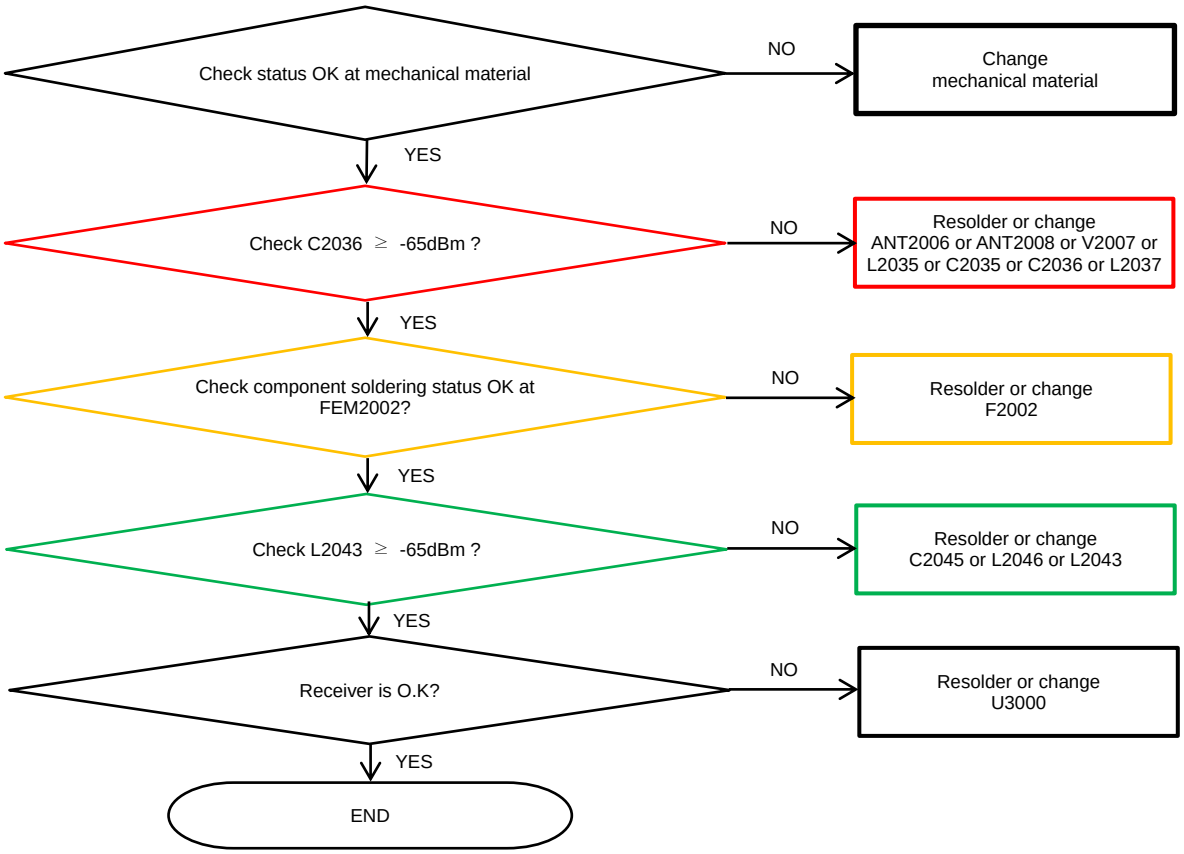
8-4-40. LTE B3 4Rx, LTE B39 DRx



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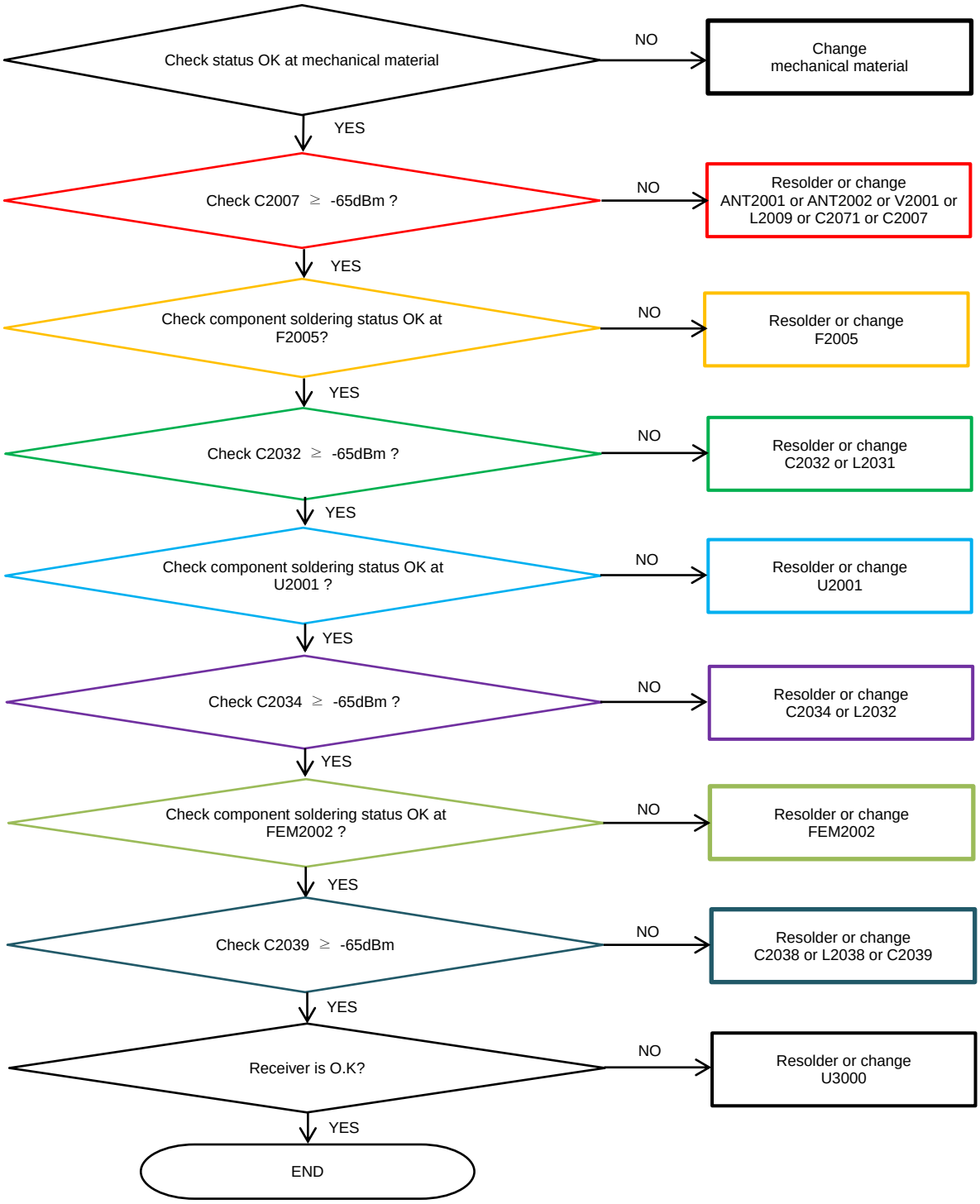
8-4-41. LTE B7 4Rx_DRx



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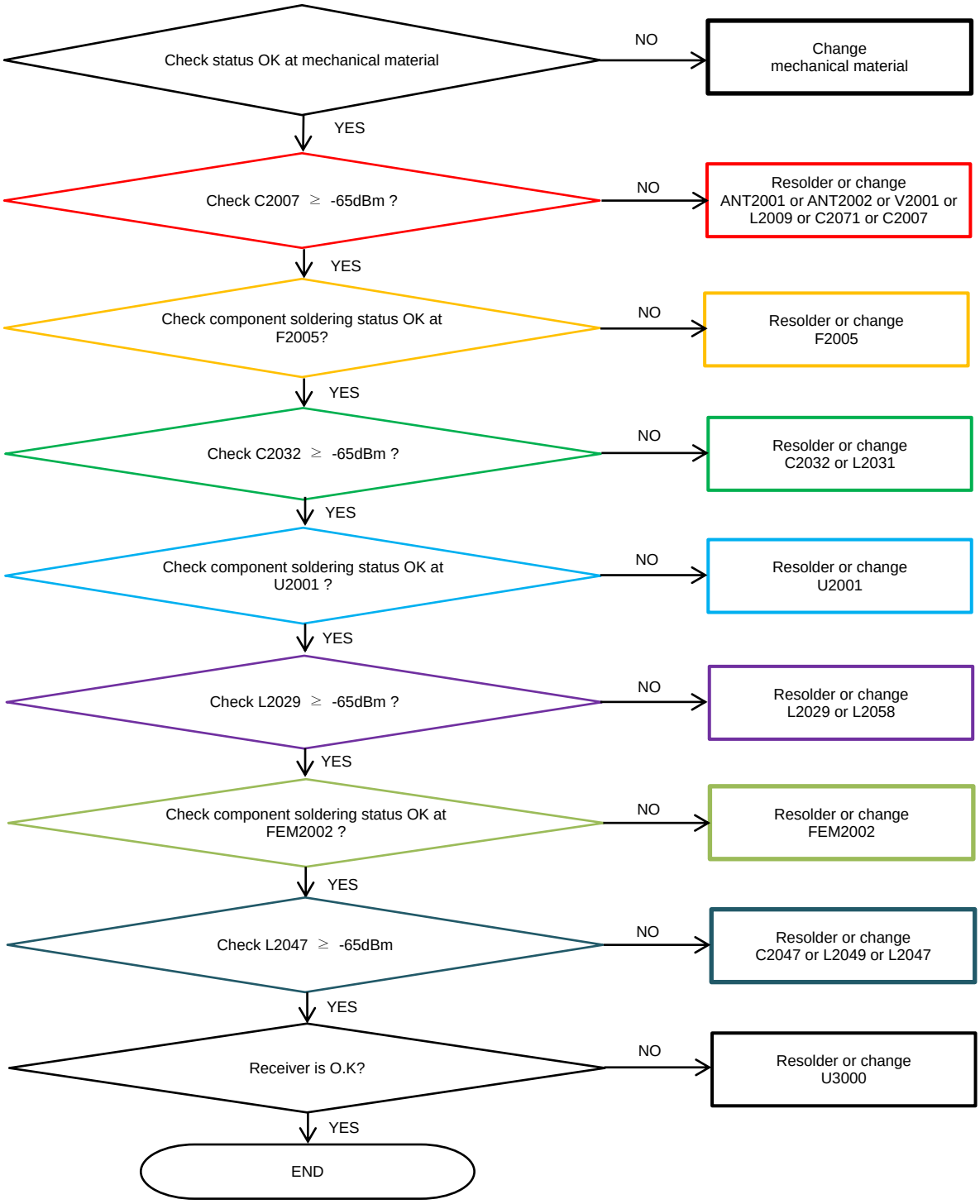
8-4-42. LTE B40 4Rx_DRx



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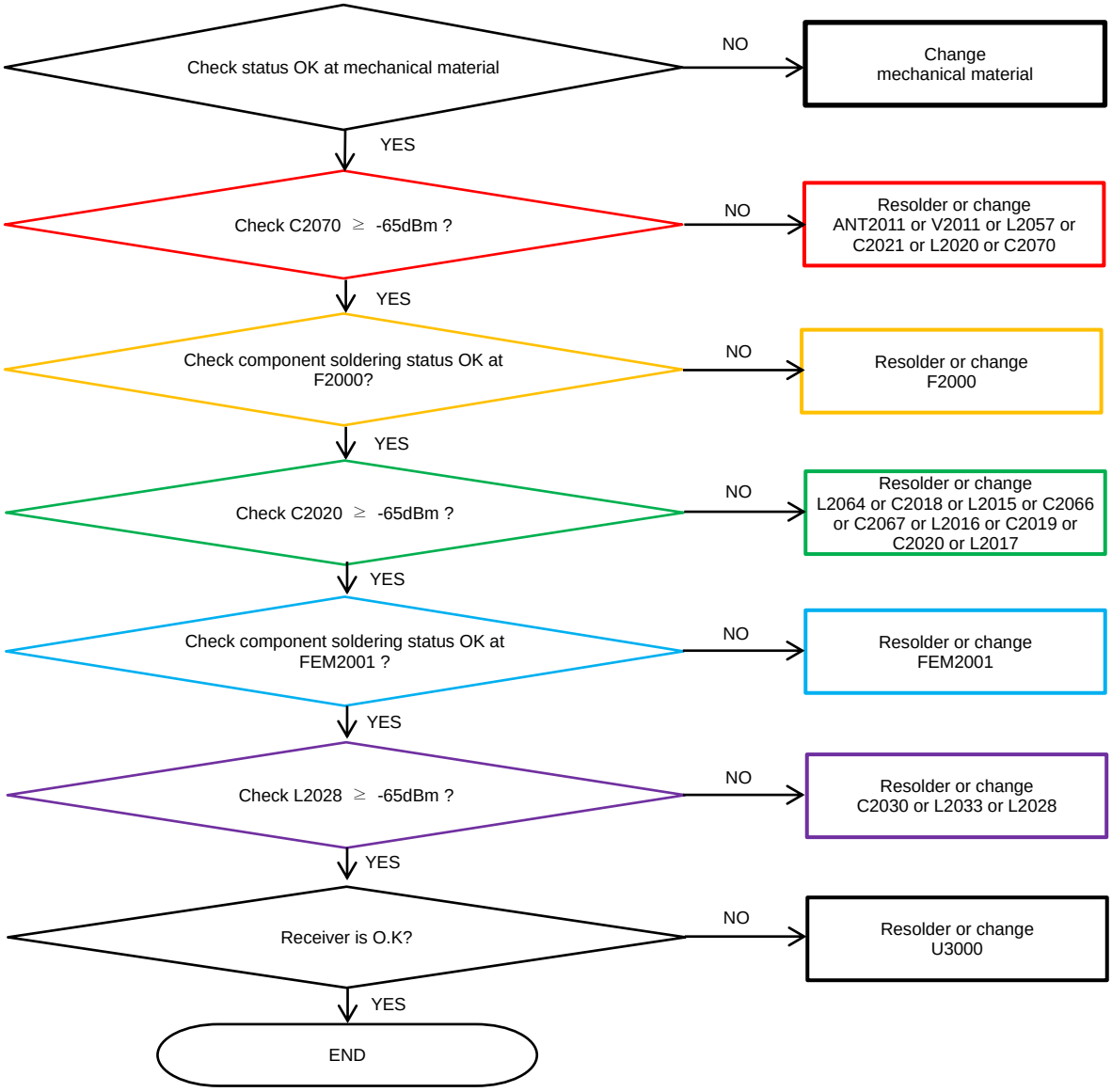
8-4-43. LTE B40_SCC_DRx



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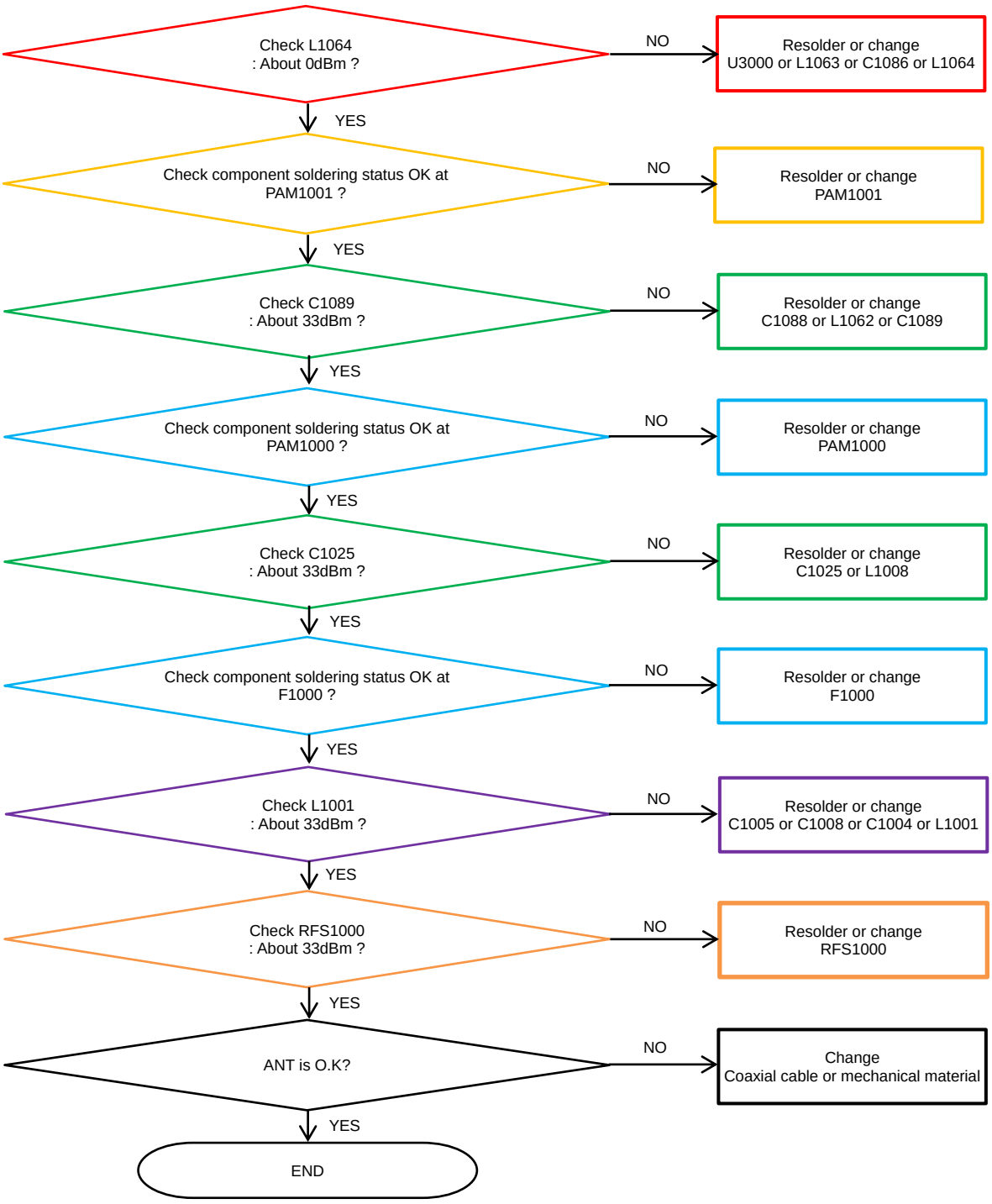
8-4-44. GSM 850/900 Tx



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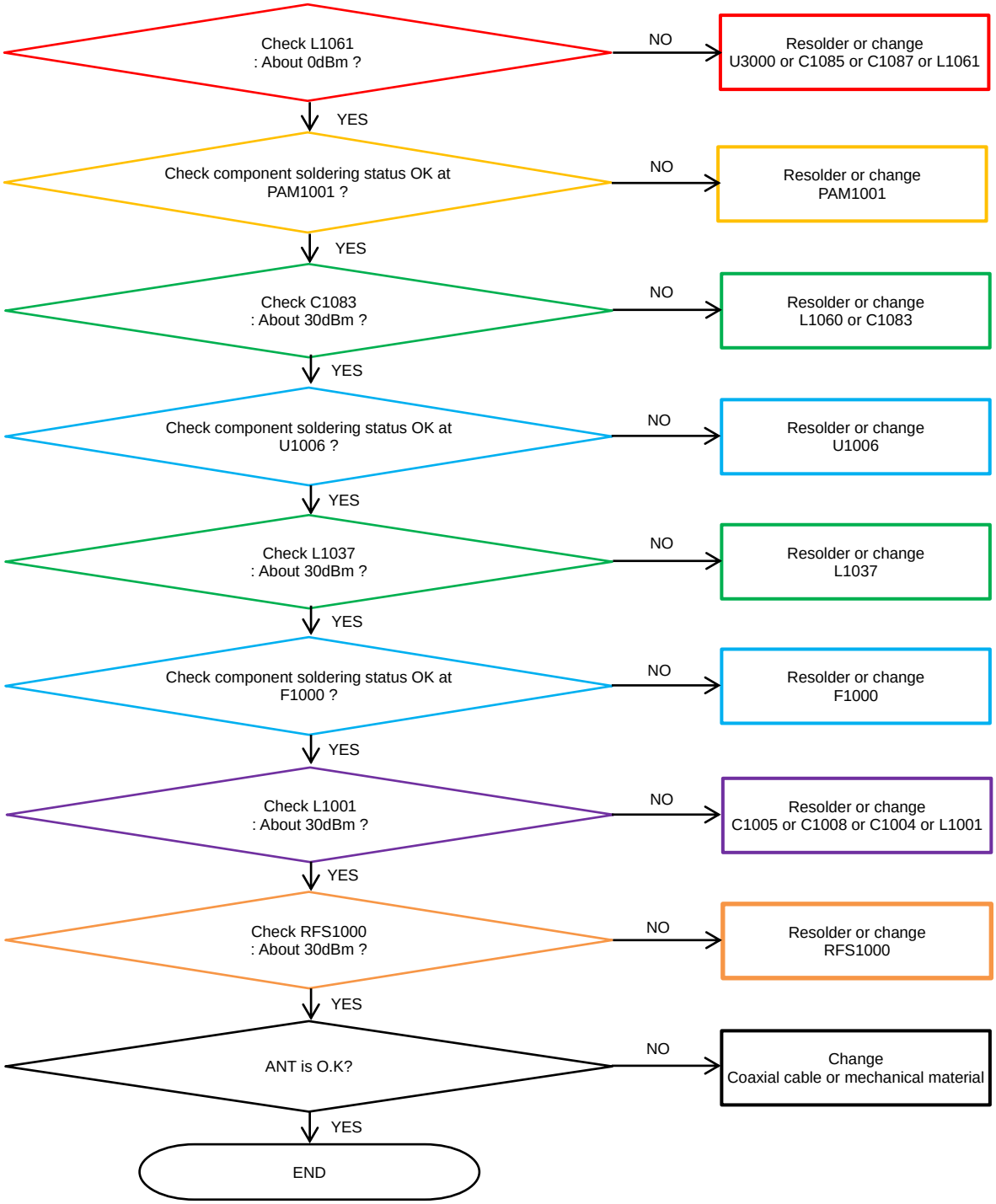
8-4-45. DCS1800/PCS1900 Tx



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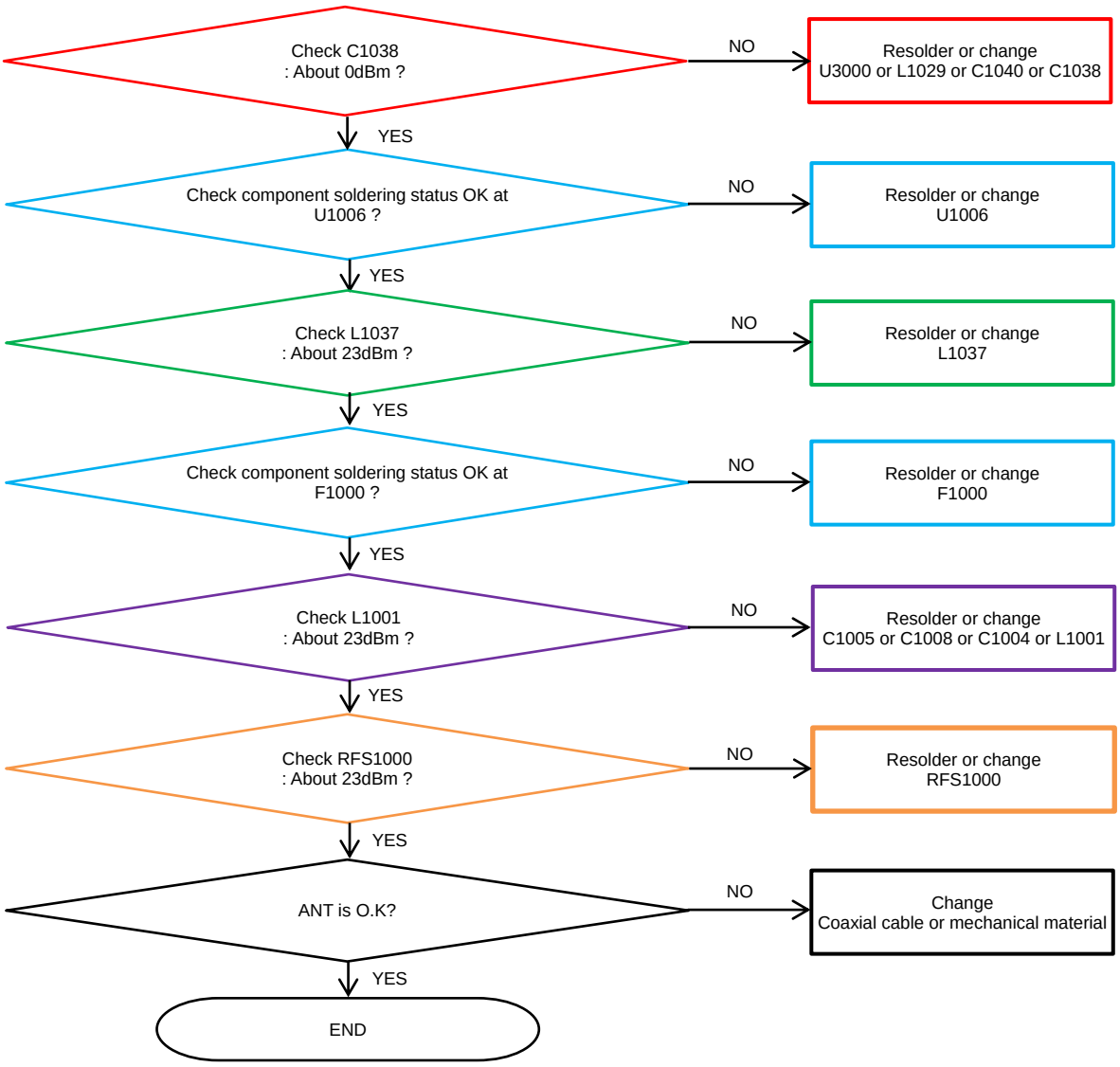
8-4-46. WCDMA B1/2/4, TDSCDMA B34/39, LTE B1/2/3/4/25/34/39 Tx



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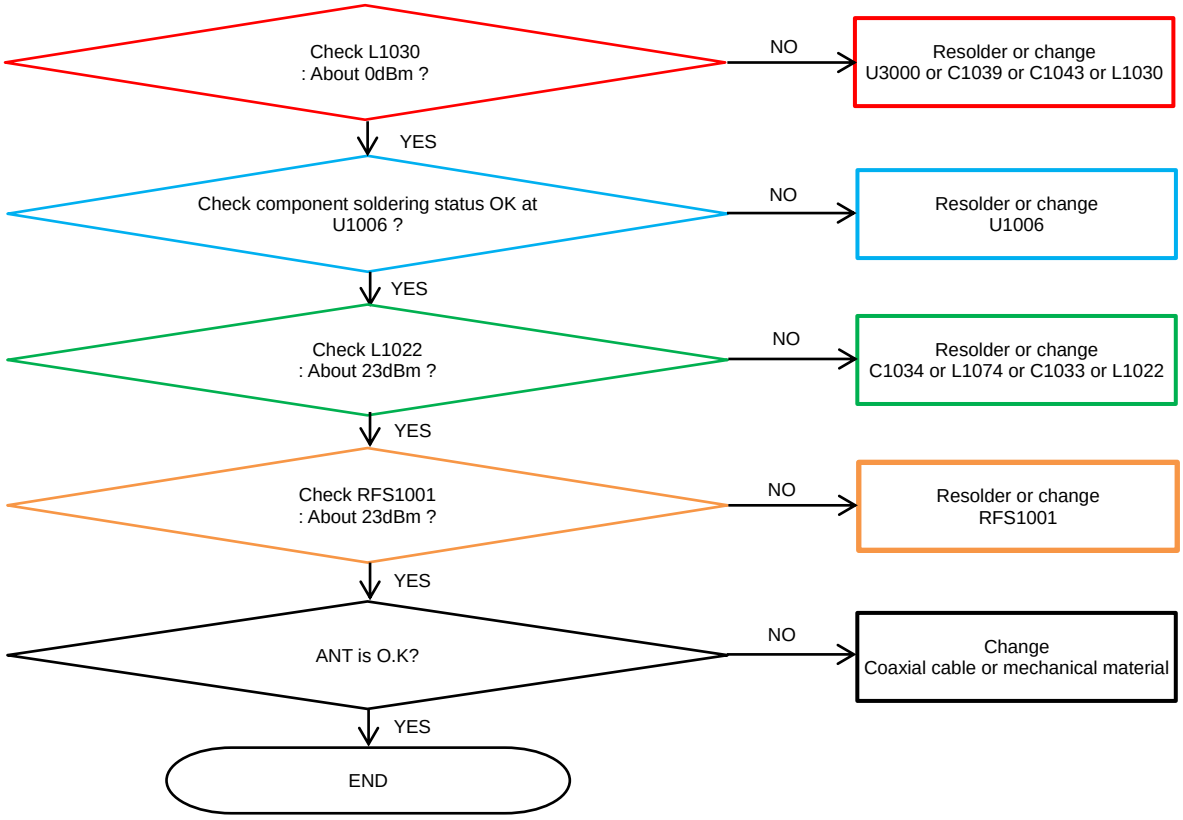
8-4-47. TDSCDMA B38/40/41, LTE B7/38/40/41 Tx



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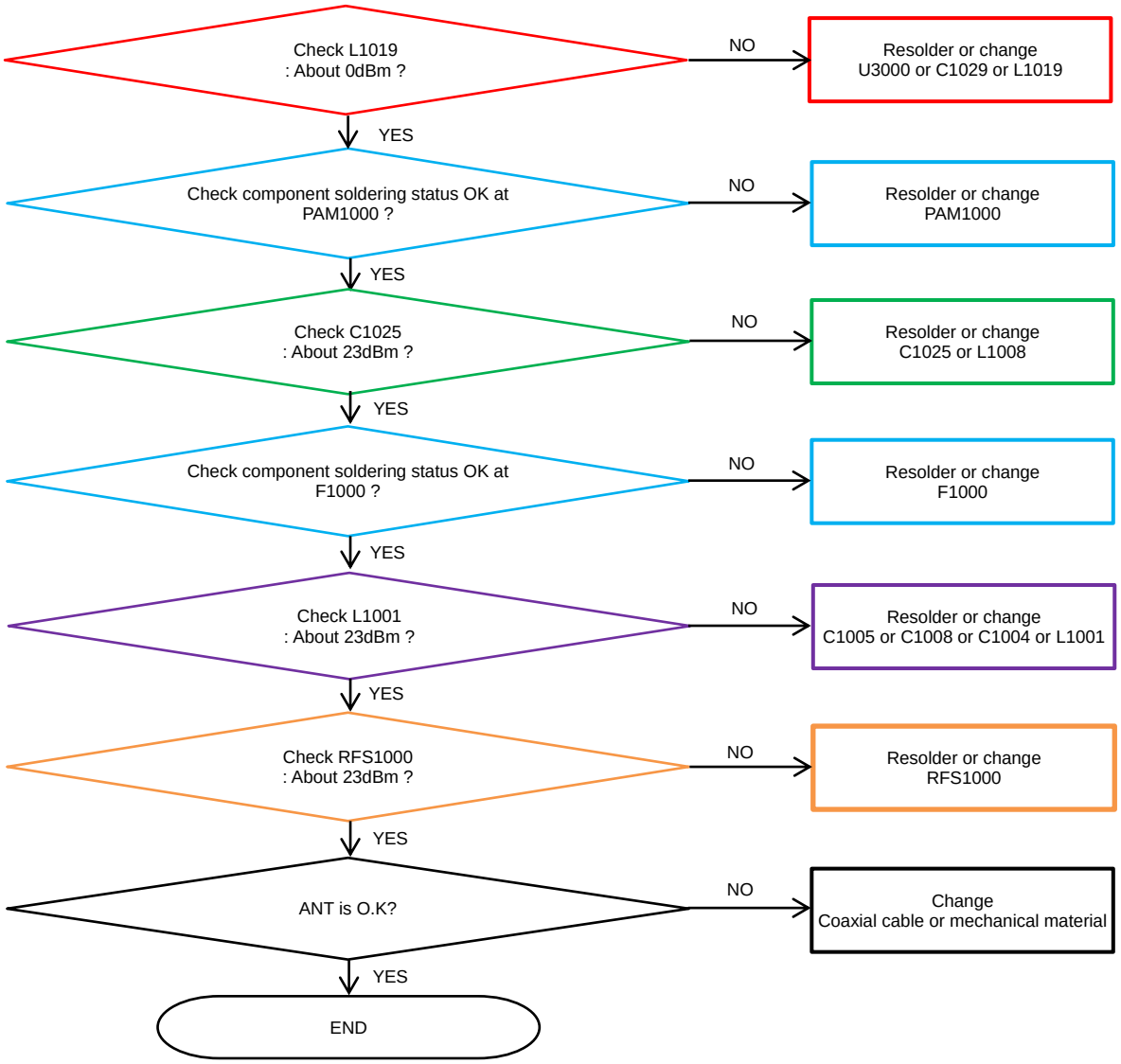
8-4-48. WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 Tx



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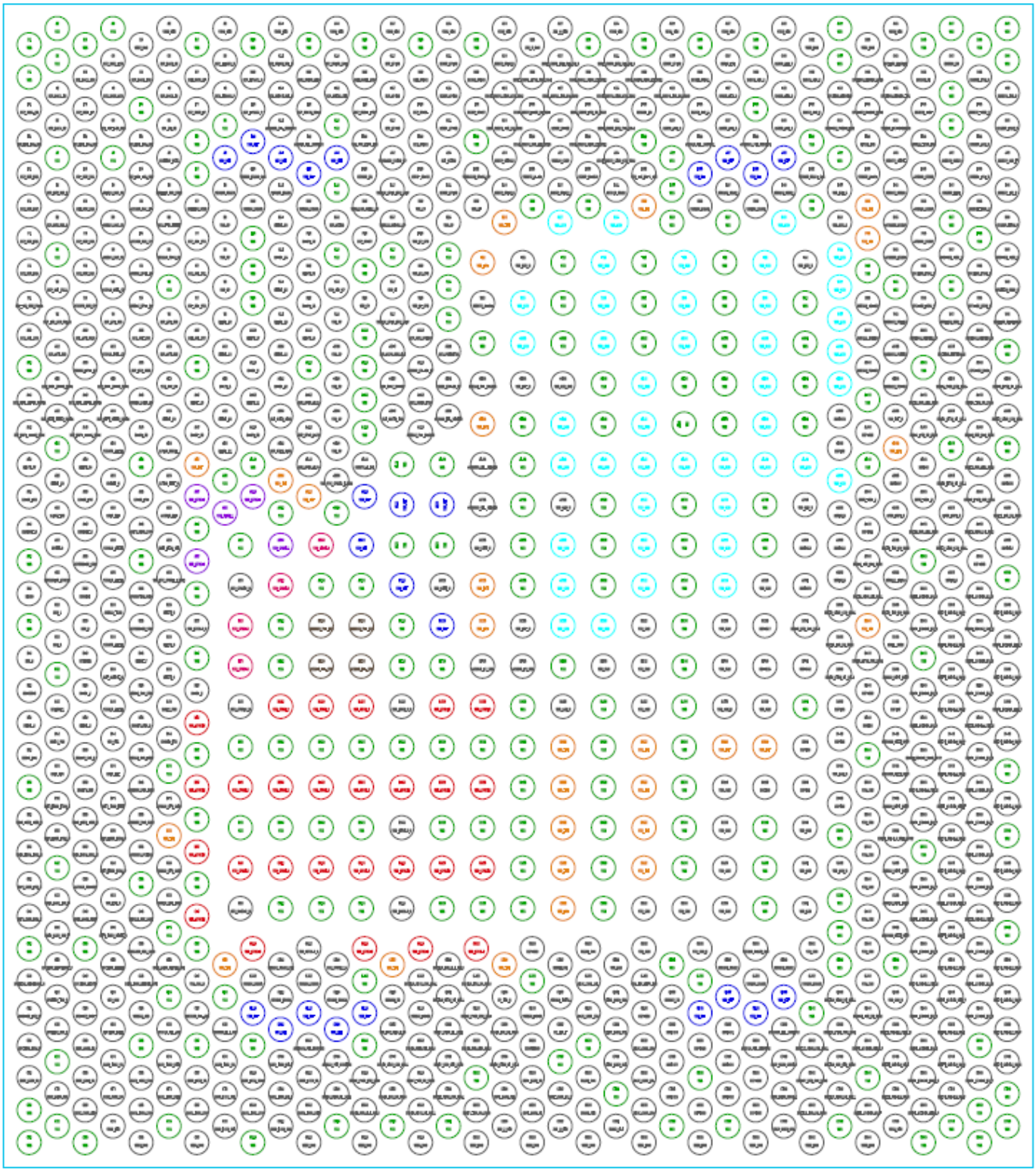
8. Level 3 Repair

8-5. Service Schematics

- AP Top view



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