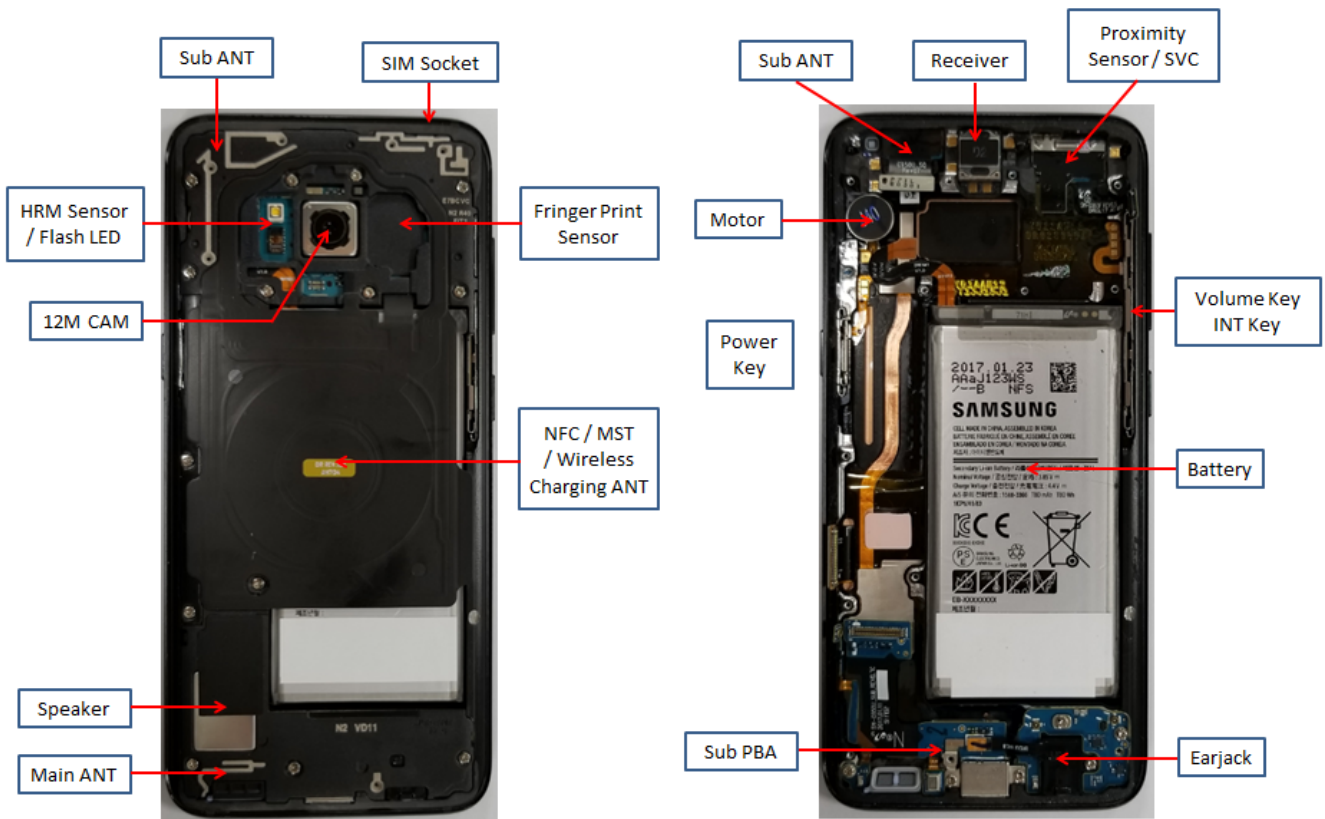

7. Level 2 Repair

7-1. Components on the Rear Case



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7. Level 2 Repair



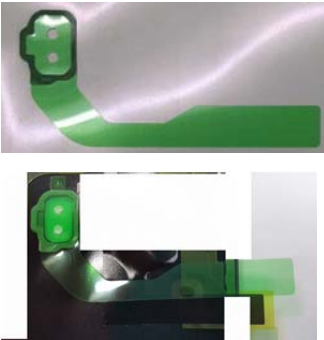
7-2. Pre-requisite

| | |
|---|--|
|  |  |
| 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

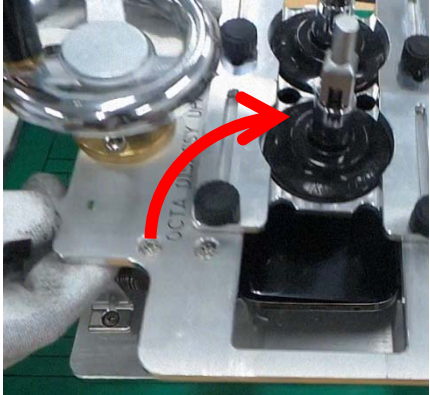

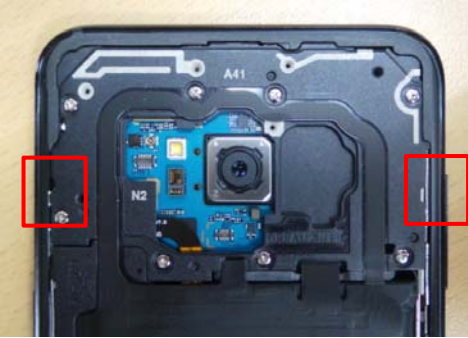

| BOM Description & part code | Image | Remarks |
|---|---|--|
| A/S Back glass Outside Tape [GH81-14574A] |  | Replace for Back Glass repair |
| A/S Back glass Inner Tape Top [GH81-14575A] A/S Back glass Inner Tape BTM [GH81-14648A] |  | |
| A/S Finger Print Tape [GH02-14440A] |  | Replace Back Glass or Finger print repair |

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7. Level 2 Repair

7-4. Disassembly

| | |
|---|--|
| <p>1</p> <p>1) Put the device in the chamber as following below heating condition. - SOC 68%↓: 70 °C/10~20min - SOC 68%↑: 60 °C/10~20min ※ Please confirm the heating condition released lastly, and follow it. 2) Detach the Back Glass.</p>  | <p>2</p> <p>Unscrew 15 Point and disassemble SIM Tray from device.</p>  |
| <p>※ Caution 1) Be care of scratch.</p> | <p>※ Caution 1) Be care of scratch.</p> |
| <p>3</p> <p>Disassemble Upper Rear. (Use disassemble hole left side of Rear to detach it)</p>  | <p>4</p> <p>Finally Disassemble Rear of bottom side. (Use disassemble hole left side of Rear to detach it)</p>  |
| <p>※ Caution 1) Be care of Rear damage</p> | <p>※ Caution 1) Be care of Rear and connector damage</p> |

7. Level 2 Repair

5

Detach 2 3D PCB Receptacle cables, Battery connect and the other connectors. (8 Point connector)



※ Caution

1) Be care of connector/cable damage.

6

Detach Iris CAM and Front CAM.

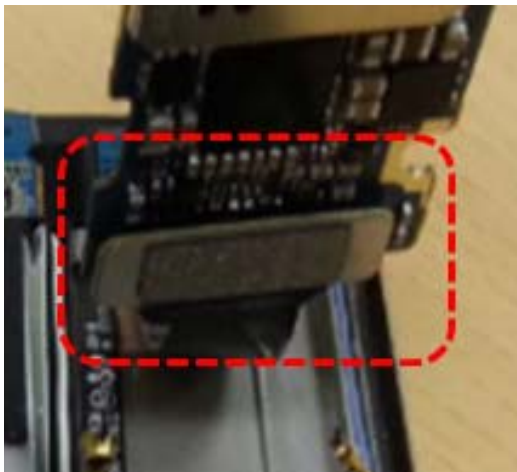


※ Caution

1) Be care of connector/cable damage.

7

Detach main PBA from Front.



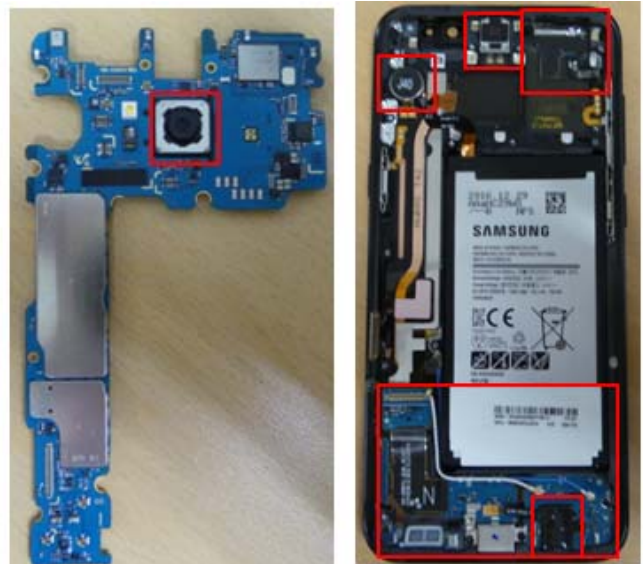
※ Caution

1) Be care of FPCB damage.

2) Be care of SUB PBA connector.

8

Detach other components.



※ Caution

1) Be care of several kinds of damage.

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7. Level 2 Repair

7-5. Aassembly

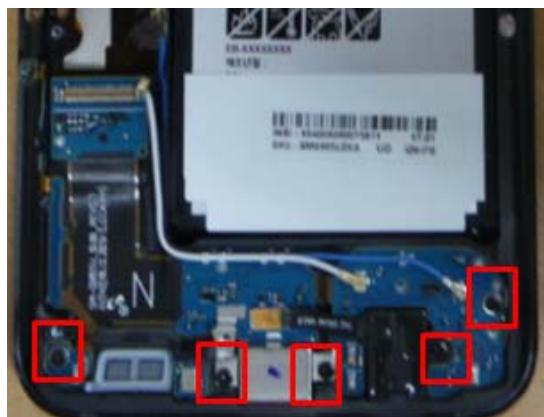
1

Attach SUB PBA and Ear jack on Front.



2

Screw 5 point in SUB PBA.
※ Torque 1.3Kgf·cm



※ Caution

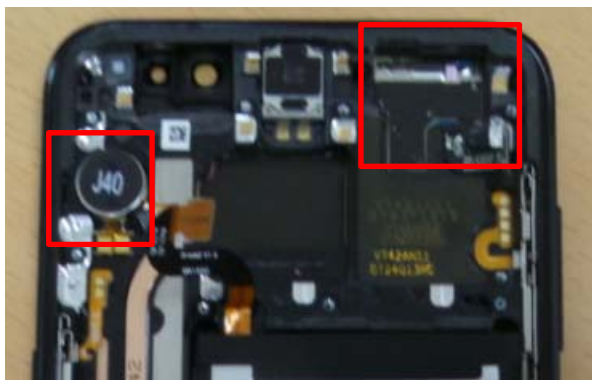
1) Be care of coaxial cable damage.

※ Caution

1) Be care of chip damage nearby screw point.

3

Attach components on Front.
(Sensor FPCB, Motor)



※ Caution

1) Be care of FPCB damage and tilt.
2) Be care of press power/time.
3) Do not reuse battery.

4

Attach PBA assy In Front Assy.
(PBA+ Front)



※ Caution

1) Be care of Push SUB PBA connector.
2) Be care of components FPCB..

7. Level 2 Repair

5

Attach IRIS/SUB CAM on PBA.



6

Attach 2 3D PCB Receptacle cables, Battery connect and the other connectors. (8 Point)



※ Caution

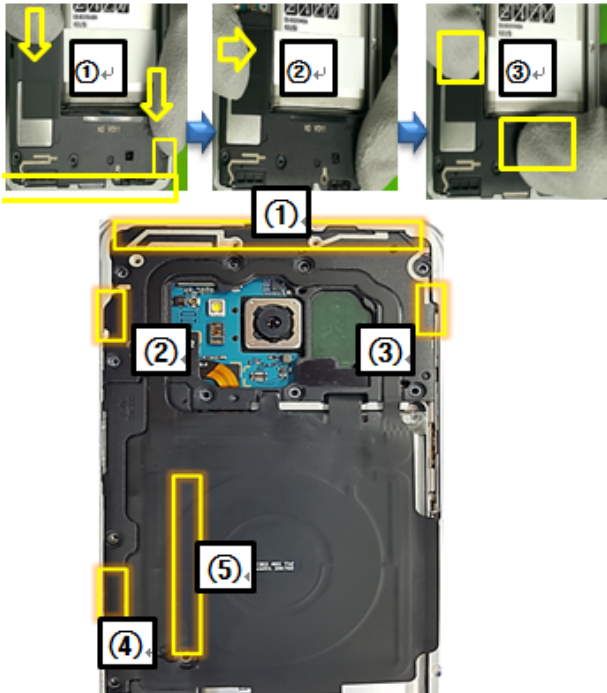
1) Be care of CAM Lens from finger print.

※ Caution

1) Be care of connector damage.
2) The Battery connector is the last attach.

7

Assemble the REAR in sequence.
Lower → Upper Rear.



8

Screw 15 Point and then insert SIM Tray on device. ※ Torque :1.3 Kgf-cm



※ Caution

1) Be care of scratch and REAR damage.

※ Caution

1) Be care of scratch and REAR damage.

7. Level 2 Repair

9

Attach Finger print sensor on PBA.



10

Attach finger print sensor tape on the back.
Attach inner and outside tape on the rear case.
And assemble the back glass



※ Caution

1) Be care of scratch and REAR damage.

※ Caution

1) Be care of scratch and tilt.

11

Press Back Glass.
Pressing force: 1N / Pressing time: 1m



※ Caution

1) Be care of scratch.

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5. MAIN Electrical Parts List

| Parts Code | Design LOC | Description |
|-------------|---------------------|----------------|
| 0404-001250 | D7003,D801 | DIODE-SCHOTTKY |
| 0406-001465 | ZD805,ZD808 | DIODE-TVS |
| 0406-001506 | ZD101,ZD102,ZD203 | DIODE-TVS |
| 0406-001506 | ZD204,ZD205,ZD918 | DIODE-TVS |
| 0406-001506 | ZD920,ZD921,ZD922 | DIODE-TVS |
| 0406-001506 | ZD924 | DIODE-TVS |
| 0406-001592 | ZD301,ZD317,ZD318 | DIODE-TVS |
| 0406-001592 | ZD319,ZD321,ZD905 | DIODE-TVS |
| 0406-001592 | ZD906,ZD907,ZD908 | DIODE-TVS |
| 0406-001592 | ZD909 | DIODE-TVS |
| 0406-001596 | ZD806,ZD807 | DIODE-TVS |
| 0406-001675 | D7002 | DIODE-TVS |
| 0406-001709 | ZD7003,ZD803 | DIODE-TVS |
| 0406-001715 | ZD316,ZD320,ZD7000 | DIODE-TVS |
| 0406-001715 | ZD802,ZD804,ZD919 | DIODE-TVS |
| 0406-001729 | ZD7001,ZD7002,ZD809 | DIODE-TVS |
| 0406-001729 | ZD810 | DIODE-TVS |
| 0406-001743 | ZD910 | DIODE-TVS |
| 0406-001762 | ZD310,ZD311,ZD312 | DIODE-TVS |
| 0406-001762 | ZD313,ZD314,ZD315 | DIODE-TVS |
| 0406-001763 | ZD302,ZD303,ZD304 | DIODE-TVS |
| 0406-001763 | ZD305,ZD306,ZD307 | DIODE-TVS |
| 0406-001763 | ZD308,ZD309,ZD323 | DIODE-TVS |
| 0406-001763 | ZD324,ZD325 | DIODE-TVS |
| 0505-001883 | Q801 | FET-SILICON |
| 0505-003234 | TR7001 | FET-SILICON |
| 0505-003564 | Q900 | FET-SILICON |
| 0601-003629 | LED900 | LED |
| 0801-003435 | U904 | IC |
| 1001-001755 | U806 | IC |
| 1001-001911 | U203 | IC |
| 1001-001992 | U101 | IC |
| 1001-002036 | U7023 | IC |
| 1009-001066 | U411 | IC |
| 1201-003735 | U407 | IC |
| 1201-004027 | U800 | IC |
| 1201-004112 | PAM102 | IC |
| 1201-004114 | PAM101 | IC |

5. MAIN Electrical Parts List

| | | |
|-------------|----------------------|------------|
| 1201-004115 | PAM103 | IC |
| 1201-004130 | PAM100 | IC |
| 1202-001120 | U902 | IC |
| 1203-008250 | U405 | IC |
| 1203-008472 | U901 | IC |
| 1203-008603 | U905 | IC |
| 1203-008704 | U900 | IC |
| 1203-008729 | U300 | IC |
| 1203-008811 | U803 | IC |
| 1203-008830 | U805 | IC |
| 1203-008882 | U7020 | IC |
| 1203-008941 | U7018 | IC |
| 1204-003686 | U903 | IC |
| 1204-003694 | U100 | IC |
| 1205-005496 | U402 | IC |
| 1205-005729 | U808 | IC |
| 1205-005782 | U418 | IC |
| 1209-002401 | U409 | IC |
| 1209-002428 | U406 | IC |
| 1209-002442 | U412 | IC |
| 1209-002450 | U408 | IC |
| 1404-001724 | TH300,TH5001,TH7000 | THERMISTOR |
| 1405-001183 | V800,V801 | VARISTOR |
| 1405-001395 | V200,V201,V204,V206 | VARISTOR |
| 1405-001395 | V208,V210,V401,V402 | VARISTOR |
| 1405-001395 | V6000,V6002,V6003 | VARISTOR |
| 1405-001395 | V6004,V6005,V6007 | VARISTOR |
| 1405-001395 | V6008,V6009 | VARISTOR |
| 1405-001403 | VR301,VR302,VR303 | VARISTOR |
| 1405-001403 | VR304 | VARISTOR |
| 1405-001404 | V100,V205,V6001 | VARISTOR |
| 1405-001404 | V6006 | VARISTOR |
| 1405-001420 | V207,V405,V406,V7001 | VARISTOR |
| 1405-001420 | V7002 | VARISTOR |
| 1405-001421 | V202 | VARISTOR |
| 1405-001422 | V404 | VARISTOR |
| 1405-001425 | C294,V203 | VARISTOR |
| 2007-003015 | R868,R873,R875,R876 | R-CHIP |
| 2007-007142 | R862,R864 | R-CHIP |

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5. MAIN Electrical Parts List

| | | |
|-------------|----------------------|--------|
| 2007-007193 | R879,R880 | R-CHIP |
| 2007-007310 | R5001,R5040,R5093 | R-CHIP |
| 2007-007314 | R425,R439 | R-CHIP |
| 2007-007517 | R859,R860 | R-CHIP |
| 2007-007741 | R300,R303,R304,R311 | R-CHIP |
| 2007-007741 | R325,R329,R400,R401 | R-CHIP |
| 2007-007741 | R402,R403,R5066 | R-CHIP |
| 2007-007741 | R5069,R5072,R5073 | R-CHIP |
| 2007-007741 | R5078,R5080,R5088 | R-CHIP |
| 2007-007741 | R5096,R5111,R5113 | R-CHIP |
| 2007-007741 | R5116,R5118,R7021 | R-CHIP |
| 2007-007741 | R7049,R801,R840,R842 | R-CHIP |
| 2007-007741 | R850,R906 | R-CHIP |
| 2007-007942 | R5043 | R-CHIP |
| 2007-007946 | R5046 | R-CHIP |
| 2007-008043 | C208,R7054 | R-CHIP |
| 2007-008045 | R331,R332,R333 | R-CHIP |
| 2007-008211 | R204,R915,R921 | R-CHIP |
| 2007-008296 | R900 | R-CHIP |
| 2007-008403 | R7018 | R-CHIP |
| 2007-008531 | R305,R322,R324,R5044 | R-CHIP |
| 2007-008531 | R861,R923 | R-CHIP |
| 2007-008774 | R319,R320 | R-CHIP |
| 2007-008785 | C279,L215,R330 | R-CHIP |
| 2007-009111 | R321 | R-CHIP |
| 2007-009157 | R315,R5041,R5045 | R-CHIP |
| 2007-009157 | R5047,R7019,R7036 | R-CHIP |
| 2007-009157 | R7041,R812,R817,R818 | R-CHIP |
| 2007-009157 | R821,R836,R837,R865 | R-CHIP |
| 2007-009157 | R871,R901,R913 | R-CHIP |
| 2007-009201 | R804,R823,R847 | R-CHIP |
| 2007-009212 | R328,R5021,R5022 | R-CHIP |
| 2007-009212 | R5030,R5031,R7014 | R-CHIP |
| 2007-009212 | R7053,R802,R851,R852 | R-CHIP |
| 2007-009314 | R308 | R-CHIP |
| 2007-009352 | R907 | R-CHIP |
| 2007-009361 | R100,R101 | R-CHIP |
| 2007-009801 | R903 | R-CHIP |
| 2007-009805 | C476,C483 | R-CHIP |

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5. MAIN Electrical Parts List

| | | |
|-------------|----------------------|----------------|
| 2007-009866 | R7006,R7016,R813 | R-CHIP |
| 2007-009866 | R902,R904,R905 | R-CHIP |
| 2007-009920 | R834,R877 | R-CHIP |
| 2007-009924 | R809,R811,R815,R816 | R-CHIP |
| 2007-009969 | R803 | R-CHIP |
| 2007-010202 | R309,R310,R312,R313 | R-CHIP |
| 2007-010202 | R822 | R-CHIP |
| 2007-011043 | R5009,R5010 | R-CHIP |
| 2007-011532 | R800 | R-CHIP |
| 2007-011546 | R5121,R5122,R5123 | R-CHIP |
| 2007-011546 | R5124,R5125,R5126 | R-CHIP |
| 2007-011546 | R5127,R5128 | R-CHIP |
| 2007-011591 | R404,R405,R416,R5006 | R-CHIP |
| 2007-011591 | R5007,R5011,R5012 | R-CHIP |
| 2007-011591 | R5013,R5014,R5017 | R-CHIP |
| 2007-011591 | R5018,R5019,R5020 | R-CHIP |
| 2007-011591 | R5023,R5024,R5025 | R-CHIP |
| 2007-011591 | R5026,R5032,R5033 | R-CHIP |
| 2007-011591 | R5036,R5037,R5038 | R-CHIP |
| 2007-011591 | R5039,R5081,R5082 | R-CHIP |
| 2007-011591 | R5119,R5120,R5131 | R-CHIP |
| 2007-011591 | R5132,R814 | R-CHIP |
| 2007-011605 | R7051 | R-CHIP |
| 2007-012033 | R102,R103 | R-CHIP |
| 2007-012202 | R870 | R-CHIP |
| 2203-000233 | C468,C473,C7103 | C-CERAMIC,CHIP |
| 2203-000489 | C7125 | C-CERAMIC,CHIP |
| 2203-000725 | C7202 | C-CERAMIC,CHIP |
| 2203-000854 | C470 | C-CERAMIC,CHIP |
| 2203-002285 | C7200,C868 | C-CERAMIC,CHIP |
| 2203-005053 | C471 | C-CERAMIC,CHIP |
| 2203-005682 | C319,C320,C329,C331 | C-CERAMIC,CHIP |
| 2203-005682 | C333,C342,C343,C345 | C-CERAMIC,CHIP |
| 2203-005682 | C346,C347,C348,C357 | C-CERAMIC,CHIP |
| 2203-005682 | C358,C359,C432,C433 | C-CERAMIC,CHIP |
| 2203-005682 | C837,C838,C871,C879 | C-CERAMIC,CHIP |
| 2203-005682 | C880,C942,C981,C982 | C-CERAMIC,CHIP |
| 2203-005682 | C983 | C-CERAMIC,CHIP |
| 2203-005719 | C973 | C-CERAMIC,CHIP |

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5. MAIN Electrical Parts List

| | | |
|-------------|----------------------|----------------|
| 2203-005725 | L203 | C-CERAMIC,CHIP |
| 2203-005726 | C855,C869,C876,C986 | C-CERAMIC,CHIP |
| 2203-005727 | C5007 | C-CERAMIC,CHIP |
| 2203-005729 | C968 | C-CERAMIC,CHIP |
| 2203-005731 | C295,C843,C844 | C-CERAMIC,CHIP |
| 2203-005732 | C133,C834,C841,C842 | C-CERAMIC,CHIP |
| 2203-005732 | C872 | C-CERAMIC,CHIP |
| 2203-005736 | C104,C105,C111,C117 | C-CERAMIC,CHIP |
| 2203-005736 | C120,C121,C123,C124 | C-CERAMIC,CHIP |
| 2203-005736 | C126,C127,C145,C148 | C-CERAMIC,CHIP |
| 2203-005736 | C149,C157,C158,C164 | C-CERAMIC,CHIP |
| 2203-005736 | C165,C184,C189,C199 | C-CERAMIC,CHIP |
| 2203-005736 | C201,C205,C220,C222 | C-CERAMIC,CHIP |
| 2203-005736 | C252,C271,C277,C278 | C-CERAMIC,CHIP |
| 2203-005736 | C285,C400,C453,C458 | C-CERAMIC,CHIP |
| 2203-005736 | C459,C474,C7130,C861 | C-CERAMIC,CHIP |
| 2203-005736 | C862,C969,C974,L119 | C-CERAMIC,CHIP |
| 2203-005736 | L121,L231,L244,L256 | C-CERAMIC,CHIP |
| 2203-005736 | L259 | C-CERAMIC,CHIP |
| 2203-005777 | C129,C141,C159,C166 | C-CERAMIC,CHIP |
| 2203-005777 | C192,C251 | C-CERAMIC,CHIP |
| 2203-005779 | C947,C991 | C-CERAMIC,CHIP |
| 2203-005789 | C115,C116,C118,C139 | C-CERAMIC,CHIP |
| 2203-005789 | L127 | C-CERAMIC,CHIP |
| 2203-005792 | C185,C436 | C-CERAMIC,CHIP |
| 2203-005806 | C455 | C-CERAMIC,CHIP |
| 2203-006048 | C132,C995,C996 | C-CERAMIC,CHIP |
| 2203-006121 | C870 | C-CERAMIC,CHIP |
| 2203-006194 | C180,C181,C183,C225 | C-CERAMIC,CHIP |
| 2203-006194 | C256,C258,C259,C261 | C-CERAMIC,CHIP |
| 2203-006194 | C266,C268,C270,C290 | C-CERAMIC,CHIP |
| 2203-006194 | C293,C327,C328,C415 | C-CERAMIC,CHIP |
| 2203-006194 | C445 | C-CERAMIC,CHIP |
| 2203-006260 | C125 | C-CERAMIC,CHIP |
| 2203-006318 | C498 | C-CERAMIC,CHIP |
| 2203-006400 | C106,C122,C202,C217 | C-CERAMIC,CHIP |
| 2203-006400 | C245,C273,C341,C434 | C-CERAMIC,CHIP |
| 2203-006400 | C467,C478,C5005 | C-CERAMIC,CHIP |
| 2203-006400 | C5008,C7161,C840 | C-CERAMIC,CHIP |

5. MAIN Electrical Parts List

| | | |
|-------------|----------------------|----------------|
| 2203-006400 | R318,R327 | C-CERAMIC,CHIP |
| 2203-006423 | C479,C6151,C7159 | C-CERAMIC,CHIP |
| 2203-006423 | C816 | C-CERAMIC,CHIP |
| 2203-006426 | C172,C173 | C-CERAMIC,CHIP |
| 2203-006437 | C5000,C5001,C5002 | C-CERAMIC,CHIP |
| 2203-006556 | C406,L105,L114 | C-CERAMIC,CHIP |
| 2203-006562 | C168,C255,C7118 | C-CERAMIC,CHIP |
| 2203-006562 | C7131 | C-CERAMIC,CHIP |
| 2203-006604 | C335,L112 | C-CERAMIC,CHIP |
| 2203-006611 | C112,C188 | C-CERAMIC,CHIP |
| 2203-006648 | C349 | C-CERAMIC,CHIP |
| 2203-006668 | C325,C958 | C-CERAMIC,CHIP |
| 2203-006674 | C114 | C-CERAMIC,CHIP |
| 2203-006839 | C150,C151,C152,C153 | C-CERAMIC,CHIP |
| 2203-006839 | C155,C160,C169,C175 | C-CERAMIC,CHIP |
| 2203-006839 | C801,C809 | C-CERAMIC,CHIP |
| 2203-006872 | C822,C823 | C-CERAMIC,CHIP |
| 2203-006896 | C280,C281 | C-CERAMIC,CHIP |
| 2203-006979 | C460 | C-CERAMIC,CHIP |
| 2203-007143 | C847 | C-CERAMIC,CHIP |
| 2203-007210 | C301 | C-CERAMIC,CHIP |
| 2203-007269 | C909 | C-CERAMIC,CHIP |
| 2203-007271 | C7155,C874 | C-CERAMIC,CHIP |
| 2203-007279 | C154 | C-CERAMIC,CHIP |
| 2203-007317 | C289,C6086,C6112 | C-CERAMIC,CHIP |
| 2203-007317 | C7045,C7081,C7213 | C-CERAMIC,CHIP |
| 2203-007317 | C812,C817,C825,C826 | C-CERAMIC,CHIP |
| 2203-007317 | C827,C828,C829,C836 | C-CERAMIC,CHIP |
| 2203-007317 | C867,C911,C912 | C-CERAMIC,CHIP |
| 2203-007342 | C7137 | C-CERAMIC,CHIP |
| 2203-007391 | C246,C491,C494,C824 | C-CERAMIC,CHIP |
| 2203-007391 | C926 | C-CERAMIC,CHIP |
| 2203-007393 | C300,C332,C350,C354 | C-CERAMIC,CHIP |
| 2203-007393 | C355,C444,C6119 | C-CERAMIC,CHIP |
| 2203-007393 | C7019,C853,C924,C935 | C-CERAMIC,CHIP |
| 2203-007425 | C7099 | C-CERAMIC,CHIP |
| 2203-007449 | C102,C119,C142,C143 | C-CERAMIC,CHIP |
| 2203-007449 | C174,C187,C224,C257 | C-CERAMIC,CHIP |
| 2203-007449 | C263,C264,C265,C267 | C-CERAMIC,CHIP |

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5. MAIN Electrical Parts List

| | | |
|-------------|---------------------|----------------|
| 2203-007449 | C275,C304,C316,C407 | C-CERAMIC,CHIP |
| 2203-007449 | C410,C411,C412,C413 | C-CERAMIC,CHIP |
| 2203-007449 | C414,C421,C422,C448 | C-CERAMIC,CHIP |
| 2203-007449 | C449,C450,C456,C493 | C-CERAMIC,CHIP |
| 2203-007449 | C6008,C6014,C6015 | C-CERAMIC,CHIP |
| 2203-007449 | C6019,C6020,C6021 | C-CERAMIC,CHIP |
| 2203-007449 | C6022,C6023,C6024 | C-CERAMIC,CHIP |
| 2203-007449 | C6025,C6026,C6034 | C-CERAMIC,CHIP |
| 2203-007449 | C6035,C6036,C6037 | C-CERAMIC,CHIP |
| 2203-007449 | C6038,C6039,C6040 | C-CERAMIC,CHIP |
| 2203-007449 | C6041,C6042,C6043 | C-CERAMIC,CHIP |
| 2203-007449 | C6044,C6045,C6046 | C-CERAMIC,CHIP |
| 2203-007449 | C6047,C6048,C6049 | C-CERAMIC,CHIP |
| 2203-007449 | C6050,C6051,C6052 | C-CERAMIC,CHIP |
| 2203-007449 | C6053,C6054,C6055 | C-CERAMIC,CHIP |
| 2203-007449 | C6057,C6058,C6059 | C-CERAMIC,CHIP |
| 2203-007449 | C6060,C6061,C6062 | C-CERAMIC,CHIP |
| 2203-007449 | C6063,C6064,C6068 | C-CERAMIC,CHIP |
| 2203-007449 | C6069,C6070,C6071 | C-CERAMIC,CHIP |
| 2203-007449 | C6073,C6074,C6075 | C-CERAMIC,CHIP |
| 2203-007449 | C6076,C6077,C6080 | C-CERAMIC,CHIP |
| 2203-007449 | C6081,C6082,C6083 | C-CERAMIC,CHIP |
| 2203-007449 | C6084,C6085,C6087 | C-CERAMIC,CHIP |
| 2203-007449 | C6088,C6089,C6090 | C-CERAMIC,CHIP |
| 2203-007449 | C6091,C6092,C6093 | C-CERAMIC,CHIP |
| 2203-007449 | C6094,C6095,C6098 | C-CERAMIC,CHIP |
| 2203-007449 | C6099,C6100,C6101 | C-CERAMIC,CHIP |
| 2203-007449 | C6103,C6106,C6107 | C-CERAMIC,CHIP |
| 2203-007449 | C6109,C6110,C6111 | C-CERAMIC,CHIP |
| 2203-007449 | C6113,C6114,C6125 | C-CERAMIC,CHIP |
| 2203-007449 | C6126,C6129,C6131 | C-CERAMIC,CHIP |
| 2203-007449 | C6133,C6134,C6135 | C-CERAMIC,CHIP |
| 2203-007449 | C6139,C6140,C6141 | C-CERAMIC,CHIP |
| 2203-007449 | C6142,C6144,C6146 | C-CERAMIC,CHIP |
| 2203-007449 | C6148,C6150,C6152 | C-CERAMIC,CHIP |
| 2203-007449 | C7005,C7006,C7007 | C-CERAMIC,CHIP |
| 2203-007449 | C7009,C7010,C7011 | C-CERAMIC,CHIP |
| 2203-007449 | C7012,C7013,C7014 | C-CERAMIC,CHIP |
| 2203-007449 | C7015,C7027,C7061 | C-CERAMIC,CHIP |

5. MAIN Electrical Parts List

| | | |
|-------------|----------------------|----------------|
| 2203-007449 | C7066,C7070,C7071 | C-CERAMIC,CHIP |
| 2203-007449 | C7111,C7151,C7209 | C-CERAMIC,CHIP |
| 2203-007449 | C7210,C800,C804,C813 | C-CERAMIC,CHIP |
| 2203-007449 | C814,C818,C819,C830 | C-CERAMIC,CHIP |
| 2203-007449 | C833,C839,C933,C959 | C-CERAMIC,CHIP |
| 2203-007449 | C972,C990 | C-CERAMIC,CHIP |
| 2203-007456 | C859 | C-CERAMIC,CHIP |
| 2203-007544 | C7113,C7114,C7119 | C-CERAMIC,CHIP |
| 2203-007544 | C7120,C7133,C7134 | C-CERAMIC,CHIP |
| 2203-007621 | C203,C218,C282,C302 | C-CERAMIC,CHIP |
| 2203-007621 | C330,C352,C427,C428 | C-CERAMIC,CHIP |
| 2203-007621 | C429,C438,C440,C441 | C-CERAMIC,CHIP |
| 2203-007621 | C454,C5003,C5004 | C-CERAMIC,CHIP |
| 2203-007621 | C6117,C6118,C6128 | C-CERAMIC,CHIP |
| 2203-007621 | C7016,C7025,C7030 | C-CERAMIC,CHIP |
| 2203-007621 | C7215,C7216,C803 | C-CERAMIC,CHIP |
| 2203-007621 | C835,C848,C849,C850 | C-CERAMIC,CHIP |
| 2203-007621 | C851,C865,C866,C956 | C-CERAMIC,CHIP |
| 2203-007634 | C860 | C-CERAMIC,CHIP |
| 2203-007781 | C7207,C852 | C-CERAMIC,CHIP |
| 2203-007795 | C260,C262,C269,C312 | C-CERAMIC,CHIP |
| 2203-007795 | C461,C961,C962,C999 | C-CERAMIC,CHIP |
| 2203-008095 | C6145,C6147 | C-CERAMIC,CHIP |
| 2203-008097 | C7004,C7112,C7122 | C-CERAMIC,CHIP |
| 2203-008097 | C7165,C806 | C-CERAMIC,CHIP |
| 2203-008158 | C7146,C7148,C7150 | C-CERAMIC,CHIP |
| 2203-008158 | C7156 | C-CERAMIC,CHIP |
| 2203-008242 | C303,C311,C315,C417 | C-CERAMIC,CHIP |
| 2203-008242 | C490,C6009,C6072 | C-CERAMIC,CHIP |
| 2203-008242 | C6096,C6132,C6137 | C-CERAMIC,CHIP |
| 2203-008242 | C6138,C6149,C7008 | C-CERAMIC,CHIP |
| 2203-008242 | C7037,C7038,C7043 | C-CERAMIC,CHIP |
| 2203-008242 | C7044,C7046,C7047 | C-CERAMIC,CHIP |
| 2203-008242 | C7048,C7049,C7050 | C-CERAMIC,CHIP |
| 2203-008242 | C7051,C7054,C7055 | C-CERAMIC,CHIP |
| 2203-008242 | C7060,C7062,C7063 | C-CERAMIC,CHIP |
| 2203-008242 | C7064,C7067,C7068 | C-CERAMIC,CHIP |
| 2203-008242 | C7069,C7072,C7073 | C-CERAMIC,CHIP |
| 2203-008242 | C7080,C7082,C7084 | C-CERAMIC,CHIP |

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5. MAIN Electrical Parts List

| | | |
|-------------|----------------------|----------------|
| 2203-008242 | C7085,C7086,C7087 | C-CERAMIC,CHIP |
| 2203-008242 | C7088,C7089,C7091 | C-CERAMIC,CHIP |
| 2203-008242 | C7092,C7093,C7094 | C-CERAMIC,CHIP |
| 2203-008242 | C7153,C7206,C7214 | C-CERAMIC,CHIP |
| 2203-008242 | C805,C831,C900,C903 | C-CERAMIC,CHIP |
| 2203-008242 | C916,C917,C918,C920 | C-CERAMIC,CHIP |
| 2203-008242 | C921,C923,C925,C930 | C-CERAMIC,CHIP |
| 2203-008242 | C931,C936,C937,C938 | C-CERAMIC,CHIP |
| 2203-008242 | C939,C948,C949,C950 | C-CERAMIC,CHIP |
| 2203-008242 | C952,C953,C954,C957 | C-CERAMIC,CHIP |
| 2203-008242 | C963,C964,C966,C967 | C-CERAMIC,CHIP |
| 2203-008242 | C976,C977,C978,C980 | C-CERAMIC,CHIP |
| 2203-008242 | C987,C988,C989,C992 | C-CERAMIC,CHIP |
| 2203-008242 | C993,C994 | C-CERAMIC,CHIP |
| 2203-008394 | L149 | C-CERAMIC,CHIP |
| 2203-008529 | C103,C135,C408,C416 | C-CERAMIC,CHIP |
| 2203-008529 | C418,C419,C857 | C-CERAMIC,CHIP |
| 2203-008572 | C7104,C807 | C-CERAMIC,CHIP |
| 2203-008795 | C802,C858 | C-CERAMIC,CHIP |
| 2203-008844 | C7000,C7017,C7021 | C-CERAMIC,CHIP |
| 2203-008844 | C7023,C7026,C7028 | C-CERAMIC,CHIP |
| 2203-008844 | C7032,C7035,C7036 | C-CERAMIC,CHIP |
| 2203-008844 | C7039,C7040,C7042 | C-CERAMIC,CHIP |
| 2203-008844 | C7056,C7057,C7058 | C-CERAMIC,CHIP |
| 2203-008844 | C7059,C901,C902,C905 | C-CERAMIC,CHIP |
| 2203-008844 | C906,C927 | C-CERAMIC,CHIP |
| 2203-008860 | C162,C7022,C7135 | C-CERAMIC,CHIP |
| 2203-008860 | C7212,C854,C932,C934 | C-CERAMIC,CHIP |
| 2203-008860 | C965,C970,C971 | C-CERAMIC,CHIP |
| 2203-008960 | C7128,C7129,C7172 | C-CERAMIC,CHIP |
| 2203-009064 | C6004,C6005,C6006 | C-CERAMIC,CHIP |
| 2203-009064 | C6007,C6017 | C-CERAMIC,CHIP |
| 2203-009167 | C469,C472 | C-CERAMIC,CHIP |
| 2203-009328 | C7018,C7029,C7075 | C-CERAMIC,CHIP |
| 2203-009328 | C7079,C7211,C945 | C-CERAMIC,CHIP |
| 2203-009328 | C955 | C-CERAMIC,CHIP |
| 2203-009444 | C170,C7102 | C-CERAMIC,CHIP |
| 2203-009537 | C308,C309,C6027 | C-CERAMIC,CHIP |
| 2203-009537 | C6078,C7002,C7003 | C-CERAMIC,CHIP |

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5. MAIN Electrical Parts List

| | | |
|-------------|----------------------|----------------|
| 2203-009537 | C7052,C7053,C7074 | C-CERAMIC,CHIP |
| 2203-009537 | C7076,C7077,C7078 | C-CERAMIC,CHIP |
| 2203-009537 | C908,C922,C940,C946 | C-CERAMIC,CHIP |
| 2203-009537 | C979 | C-CERAMIC,CHIP |
| 2203-009618 | C156,C875,C910,C914 | C-CERAMIC,CHIP |
| 2203-009733 | C306,C310,C7201,C941 | C-CERAMIC,CHIP |
| 2203-009735 | C6000,C6001,C6002 | C-CERAMIC,CHIP |
| 2203-009735 | C6003,C6013,C6065 | C-CERAMIC,CHIP |
| 2203-009735 | C6136 | C-CERAMIC,CHIP |
| 2203-009812 | C7105 | C-CERAMIC,CHIP |
| 2203-009858 | C465,C7001,C7020 | C-CERAMIC,CHIP |
| 2203-009858 | C7108,C7109,C7110 | C-CERAMIC,CHIP |
| 2203-009858 | C7164,C907,C913 | C-CERAMIC,CHIP |
| 2203-009859 | C928,C929 | C-CERAMIC,CHIP |
| 2409-001365 | C464,C904 | CAPACITOR |
| 2409-001369 | TA7000,TA7001,TA7003 | CAPACITOR |
| 2409-001369 | TA7005 | CAPACITOR |
| 2409-001387 | TA7002,TA7004 | CAPACITOR |
| 2703-002903 | L306 | INDUCTOR |
| 2703-002907 | C284,L153,L402,L405 | INDUCTOR |
| 2703-002955 | L243 | INDUCTOR |
| 2703-002958 | L106,L208,L226,L245 | INDUCTOR |
| 2703-002958 | L425 | INDUCTOR |
| 2703-002959 | L913,R909 | INDUCTOR |
| 2703-002960 | C204,L401,L430 | INDUCTOR |
| 2703-002999 | L250,L815,L816,L821 | INDUCTOR |
| 2703-002999 | L822 | INDUCTOR |
| 2703-003754 | L7018 | INDUCTOR |
| 2703-004000 | L115 | INDUCTOR |
| 2703-004012 | L161,L164 | INDUCTOR |
| 2703-004013 | C167,C176,C219,C253 | INDUCTOR |
| 2703-004013 | L167,L168,L170 | INDUCTOR |
| 2703-004014 | C249,C402,C403 | INDUCTOR |
| 2703-004018 | L431 | INDUCTOR |
| 2703-004032 | L423 | INDUCTOR |
| 2703-004034 | C401,C404,L200 | INDUCTOR |
| 2703-004035 | L432 | INDUCTOR |
| 2703-004036 | L108,L154 | INDUCTOR |
| 2703-004037 | C190,C223,L150 | INDUCTOR |

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5. MAIN Electrical Parts List

| | | |
|-------------|---------------------|----------|
| 2703-004038 | C134,C221,C254,L103 | INDUCTOR |
| 2703-004038 | L124,L139,L140,L142 | INDUCTOR |
| 2703-004038 | L172,L173,L229,L232 | INDUCTOR |
| 2703-004038 | L253 | INDUCTOR |
| 2703-004193 | L426 | INDUCTOR |
| 2703-004286 | C163,L109,L137,L138 | INDUCTOR |
| 2703-004286 | L157,L160,L171,L235 | INDUCTOR |
| 2703-004286 | L239 | INDUCTOR |
| 2703-004289 | C130,C182,C195,L163 | INDUCTOR |
| 2703-004302 | C481 | INDUCTOR |
| 2703-004328 | C161 | INDUCTOR |
| 2703-004366 | C484,L206,L230,L403 | INDUCTOR |
| 2703-004366 | L404,L411,L412 | INDUCTOR |
| 2703-004368 | L102 | INDUCTOR |
| 2703-004862 | C250,L258 | INDUCTOR |
| 2703-005058 | C283,L159,L307 | INDUCTOR |
| 2703-005067 | L7000,L7002,L7004 | INDUCTOR |
| 2703-005067 | L7005,L7008,L7009 | INDUCTOR |
| 2703-005067 | L7010,L7011,L7012 | INDUCTOR |
| 2703-005067 | L7013,L7016,L7019 | INDUCTOR |
| 2703-005067 | L819,L901,L907 | INDUCTOR |
| 2703-005085 | L120,L122,L123,L169 | INDUCTOR |
| 2703-005085 | L174,L224 | INDUCTOR |
| 2703-005087 | C196,L131,L144 | INDUCTOR |
| 2703-005088 | L143 | INDUCTOR |
| 2703-005200 | L406 | INDUCTOR |
| 2703-005201 | L7006,L7017 | INDUCTOR |
| 2703-005225 | L300,L921 | INDUCTOR |
| 2703-005226 | L7001,L7003,L7007 | INDUCTOR |
| 2703-005233 | L7029,L7030,L800 | INDUCTOR |
| 2703-005233 | L802 | INDUCTOR |
| 2703-005418 | L902 | INDUCTOR |
| 2703-005419 | L919 | INDUCTOR |
| 2703-005428 | L920 | INDUCTOR |
| 2703-005430 | L133,L134 | INDUCTOR |
| 2703-005462 | L820,L823 | INDUCTOR |
| 2703-005505 | L801 | INDUCTOR |
| 2703-005514 | L906,L909 | INDUCTOR |
| 2703-005555 | L421,L422 | INDUCTOR |

5. MAIN Electrical Parts List

| | | |
|-------------|---------------------|---------------------|
| 2801-005393 | OSC7000 | CRYSTAL-UNIT |
| 2805-001118 | OSC400,TCX300 | OSCILLATOR |
| 2901-001690 | C313,C314,C6010 | FILTER-EMI SMD |
| 2901-001690 | C6011,C6012,C6016 | FILTER-EMI SMD |
| 2901-001690 | C6028,C6029,C6030 | FILTER-EMI SMD |
| 2901-001690 | C6031,C6143 | FILTER-EMI SMD |
| 2904-002161 | F104 | FILTER-SAW |
| 2904-002198 | F204 | FILTER-SAW |
| 2904-002210 | F101 | FILTER-SAW |
| 2904-002241 | F207 | FILTER-SAW |
| 2904-002253 | F102 | FILTER-SAW |
| 2904-002286 | F401 | FILTER-SAW |
| 2904-002323 | F400 | FILTER-SAW |
| 2904-002347 | F202 | FILTER-SAW |
| 2904-002356 | F402 | FILTER-SAW |
| 2911-000432 | F203 | FILTER |
| 2911-000433 | F201 | FILTER |
| 2911-000434 | F206 | FILTER |
| 3003-001244 | MIC800 | MIC-CONDENSOR |
| 3301-001885 | L803 | CORE-FERRITE BEAD |
| 3301-002223 | L914,L918 | CORE-FERRITE BEAD |
| 3301-002228 | L806 | CORE-FERRITE BEAD |
| 3301-002235 | L414,L415 | CORE-FERRITE BEAD |
| 3301-002236 | L912,L917,L922 | CORE-FERRITE BEAD |
| 3301-002237 | L113,L116,L118,L135 | CORE-FERRITE BEAD |
| 3301-002237 | L151,L212,L213,L214 | CORE-FERRITE BEAD |
| 3301-002237 | L220,L247,L248,L400 | CORE-FERRITE BEAD |
| 3301-002237 | L408,L409,L911 | CORE-FERRITE BEAD |
| 3301-002242 | L255 | CORE-FERRITE BEAD |
| 3301-002243 | L152 | CORE-FERRITE BEAD |
| 3301-002279 | L301,L807,L808 | CORE-FERRITE BEAD |
| 3301-002312 | L100,L101,L233,L234 | CORE-FERRITE BEAD |
| 3301-002312 | L236,L237,L302,L303 | CORE-FERRITE BEAD |
| 3301-002312 | L304,L900,L904,L905 | CORE-FERRITE BEAD |
| 3301-002312 | R432 | CORE-FERRITE BEAD |
| 3301-002331 | L7014,L7015,L809 | CORE-FERRITE BEAD |
| 3705-001937 | RFS100,RFS101 | CONNECTOR-COAXIAL |
| 3709-001892 | SIM100 | CONNECTOR-CARD EDGE |
| 3711-008593 | HDC900 | CONNECTOR-HEADER |

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5. MAIN Electrical Parts List

| | | |
|-------------|----------------------|------------------|
| 3711-008824 | HDC904 | CONNECTOR-HEADER |
| 3711-008847 | HDC7000 | CONNECTOR-HEADER |
| 3711-009058 | HDC7001 | CONNECTOR-HEADER |
| 3711-009066 | HDC901 | CONNECTOR-HEADER |
| 3711-009139 | HDC801,HDC902 | CONNECTOR-HEADER |
| 3712-001604 | ANT705,ANT706,ANT707 | CONNECTOR |
| 3712-001604 | ANT708,ANT709,ANT710 | CONNECTOR |
| 3712-001604 | ANT711,ANT802,ANT803 | CONNECTOR |
| 3712-001626 | ANT800,ANT801 | CONNECTOR |
| 3712-001634 | ANT301,ANT302,ANT303 | CONNECTOR |
| 3712-001634 | ANT304,ANT305,ANT306 | CONNECTOR |
| 3712-001634 | ANT700,ANT701 | CONNECTOR |
| 3712-001666 | ANT201,ANT206 | CONNECTOR |
| 3712-001666 | ANT6001 | CONNECTOR |
| 3712-001694 | ANT100,ANT200,ANT202 | CONNECTOR |
| 3712-001694 | ANT203,ANT204,ANT205 | CONNECTOR |
| 3712-001694 | ANT207,ANT208,ANT209 | CONNECTOR |
| 3712-001694 | ANT210,ANT401,ANT402 | CONNECTOR |
| 3712-001694 | ANT403,ANT404 | CONNECTOR |
| 4709-002196 | CPL200 | RF-MODULE |
| 4709-002226 | F100 | RF-MODULE |
| 4709-002549 | U401 | RF-MODULE |
| GH61-12118A | SUS6001 | SUS |
| GH62-00042A | GA200 | SMD GASKET |
| GH62-00043A | GA9000 | SMD GASKET |
| GH63-13745A | SC6001 | SHIELD CAN |
| GH63-13917A | SC6006 | SHIELD CAN |
| GH63-13918A | SC6007 | SHIELD CAN |
| GH63-14237A | SC401 | SHIELD CAN |
| GH98-41189A | SC6005 | SHIELD CAN |
| 2007-008420 | R808,R922 | R-CHIP |
| 1203-008944 | U7002 | IC |
| 2904-002362 | F103 | FILTER-SAW |
| 1205-005725 | U202 | IC |
| 1205-005748 | U804 | IC |
| 2904-002366 | F105,F205 | FILTER-SAW |
| GH02-14410A | SC6006SP | CU-NANO-SHEET |
| 1205-005792 | UCP500 | IC-MODEM |
| 0406-001553 | ZD7004 | DIODE-TVS |

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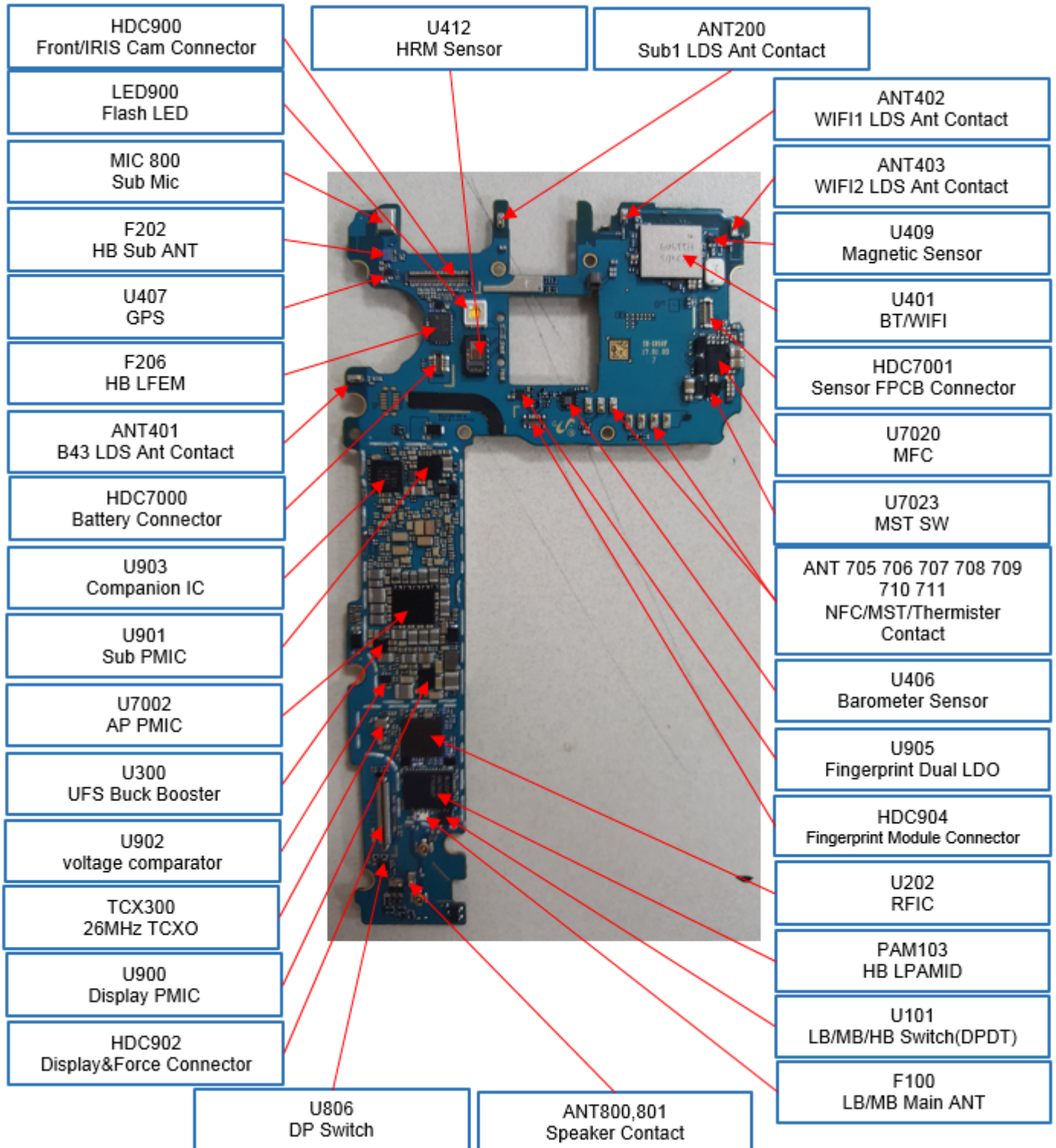
| | | |
|-------------|-----------|-----------------|
| 2203-007796 | C863,C915 | C-CERAMIC,CHIP |
| 1107-002536 | UME300 | IC-FLASH MEMORY |
| GH63-13949A | SC6004 | SHIELD CAN |

Please consult the GSPN website (Samsung Portal) for the most recent version of the product's part list.

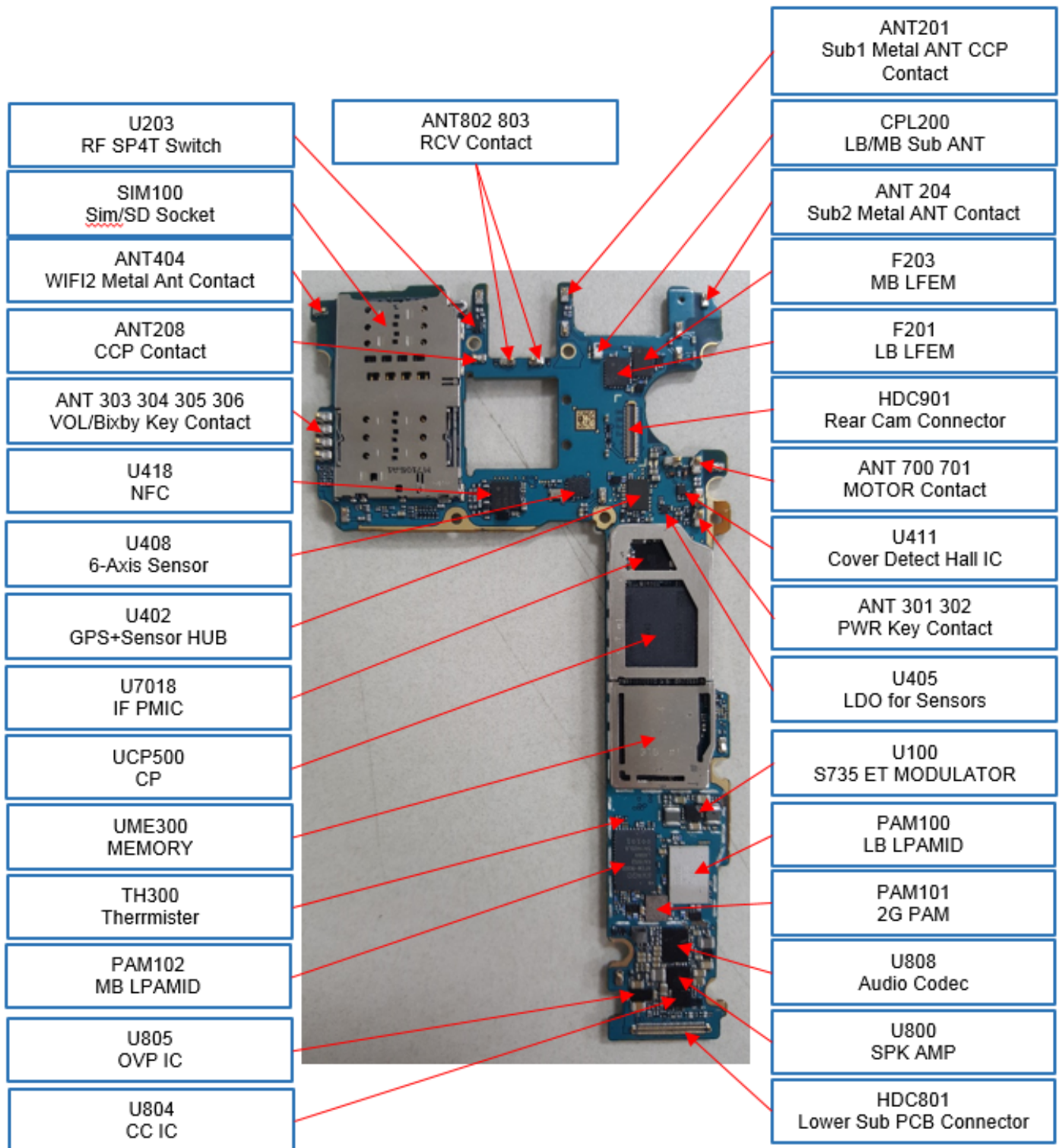
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8. Level 3 Repair

8-1. Components Layout



8. Level 3 Repair

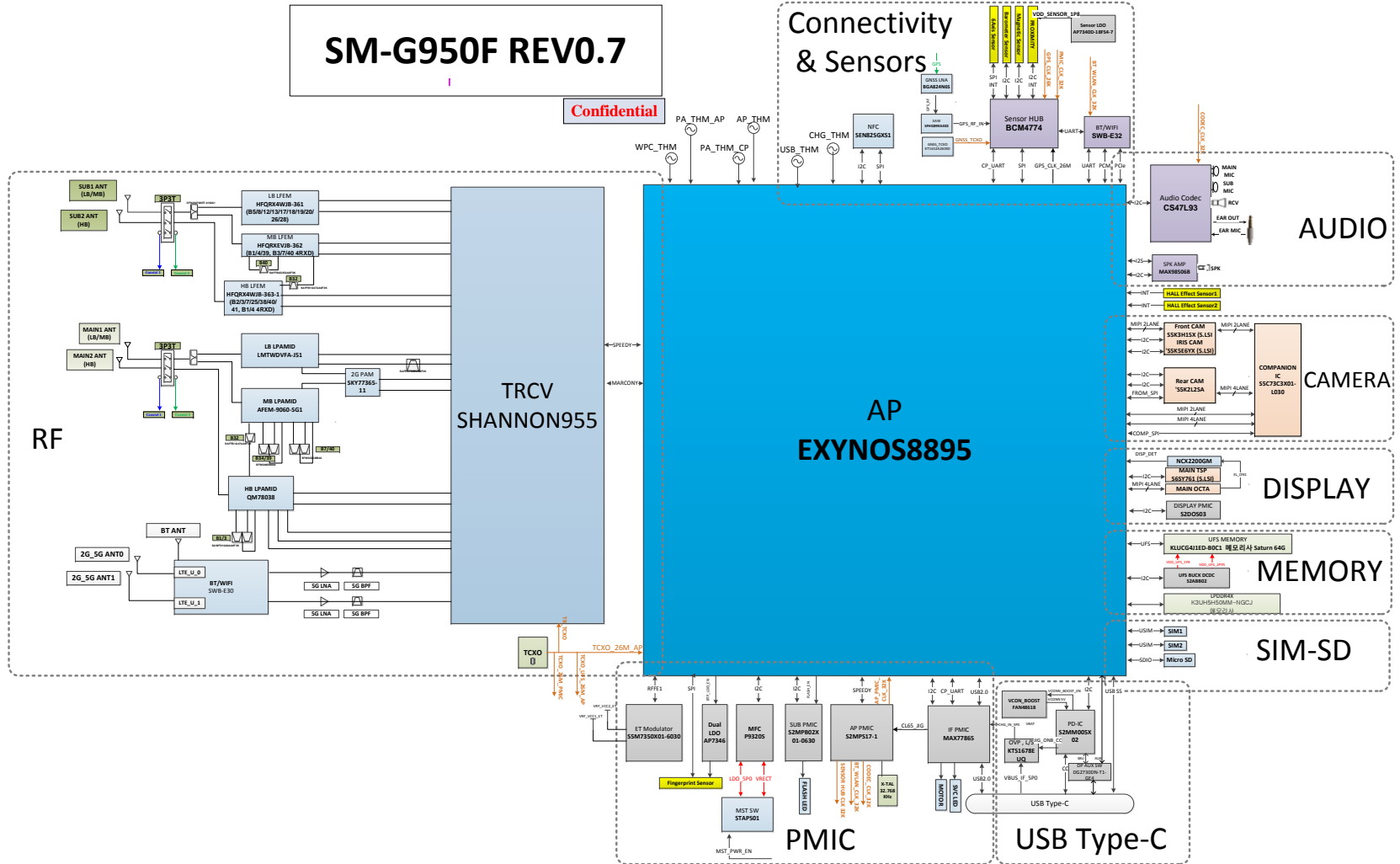


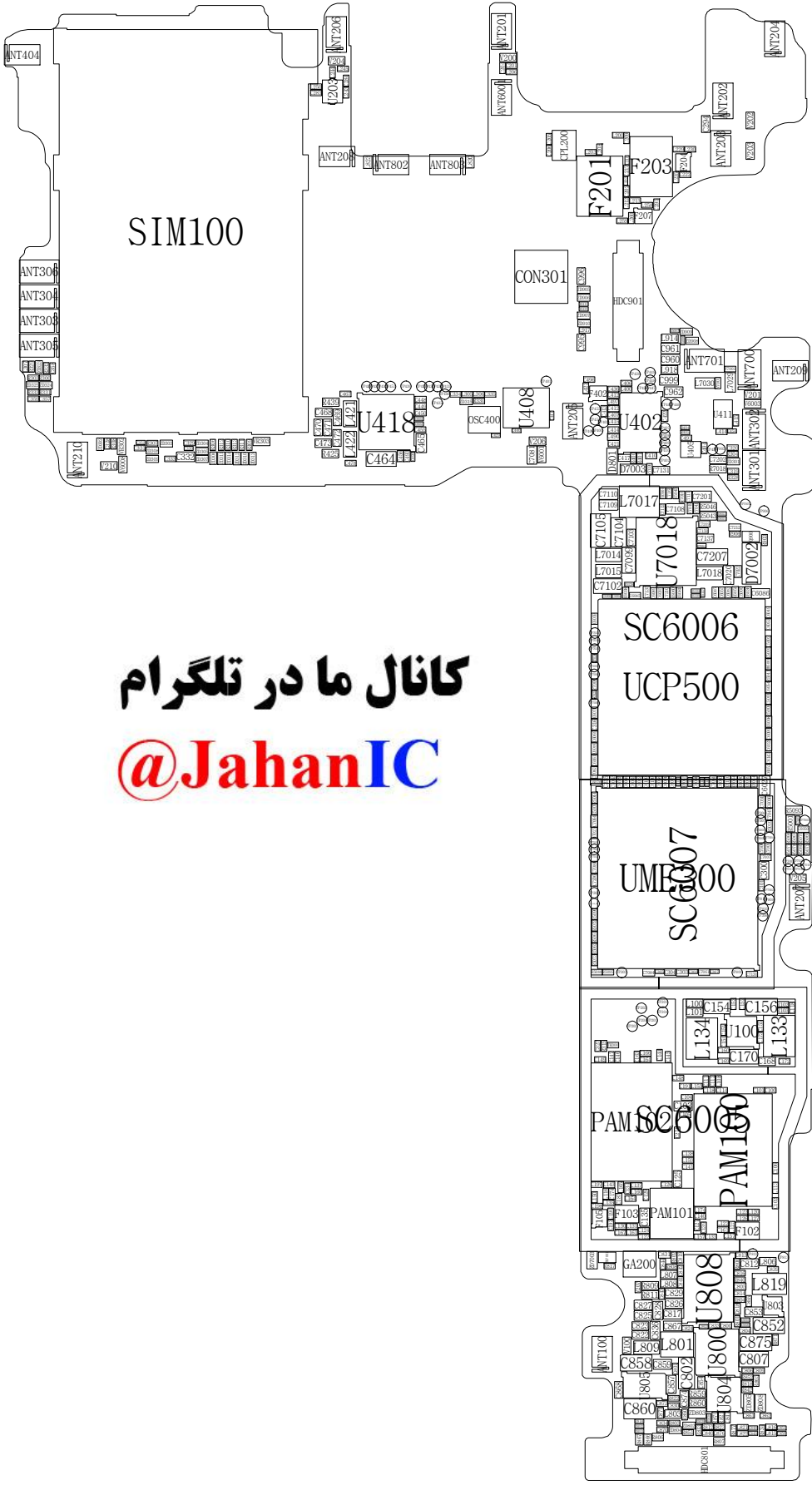
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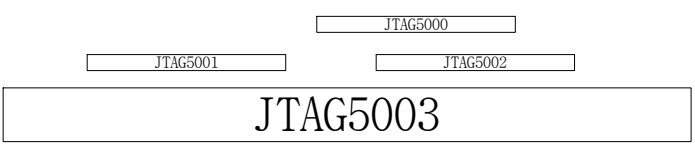
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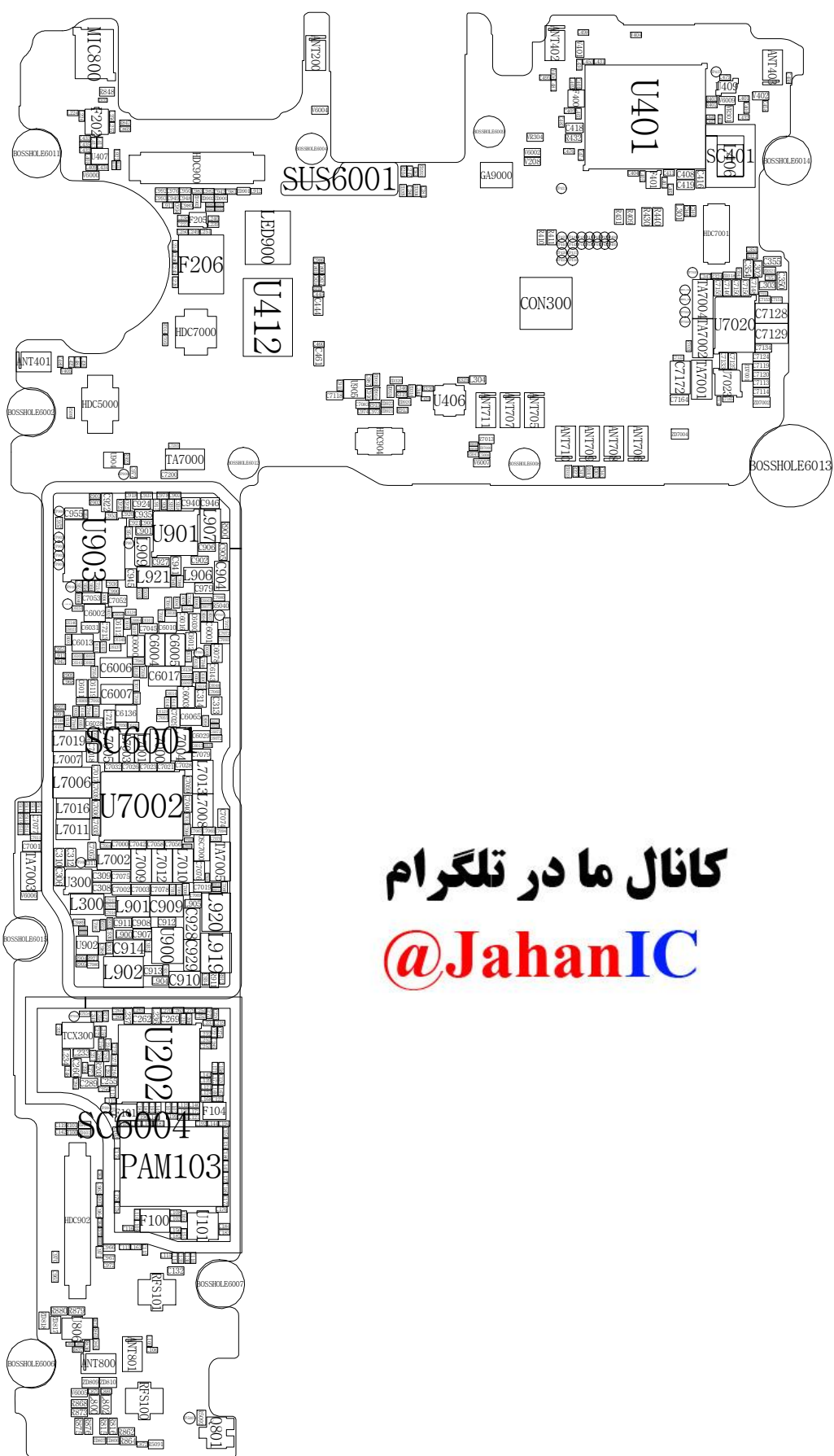
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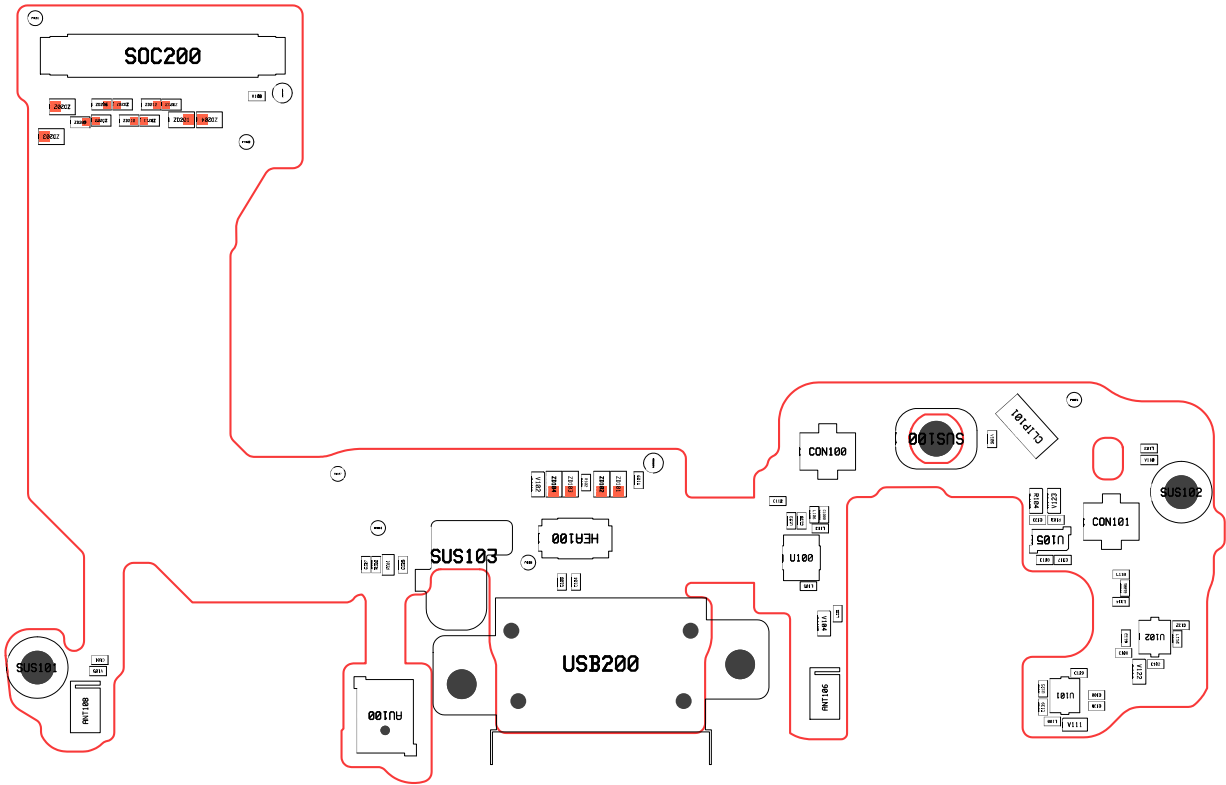


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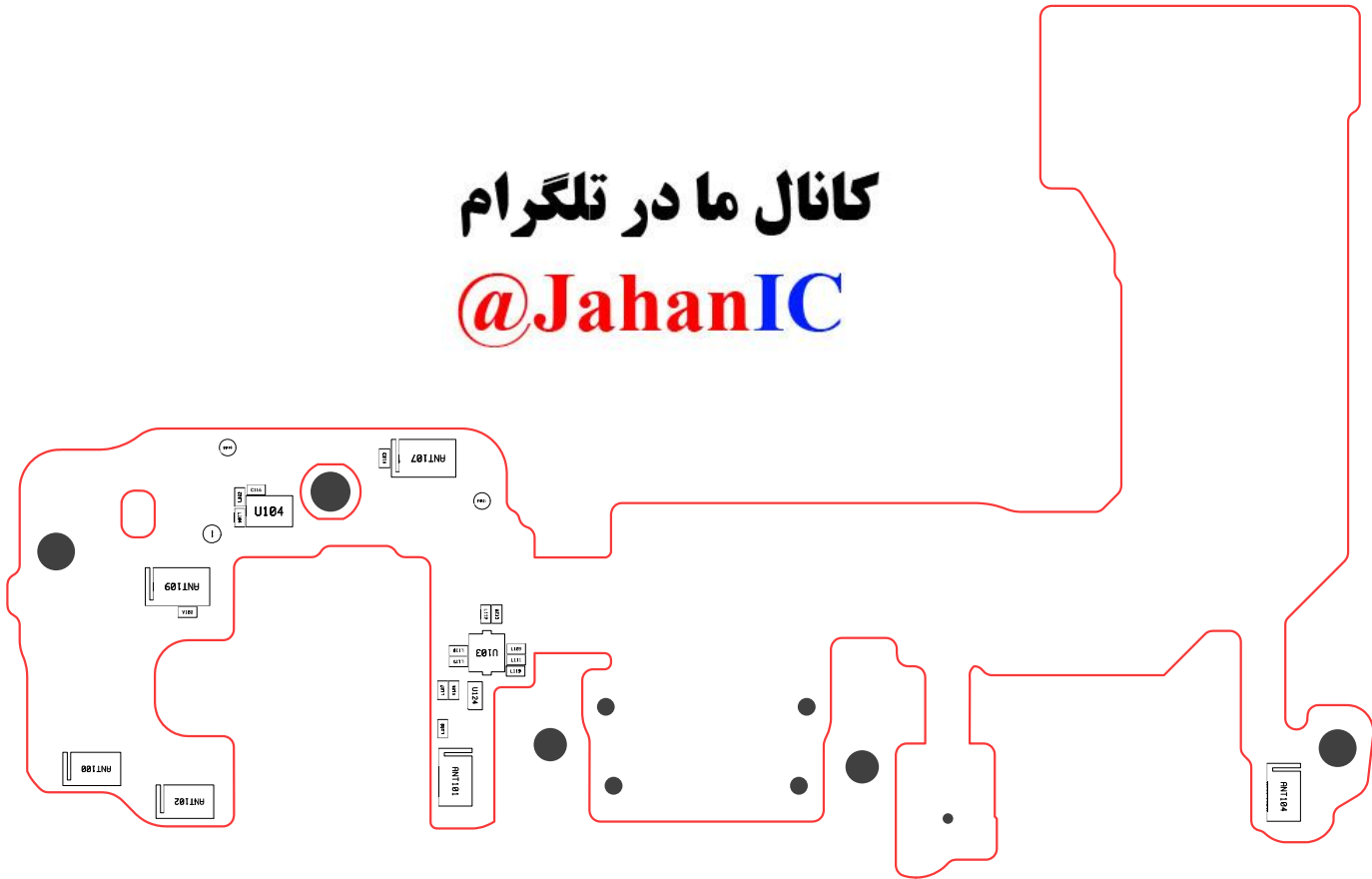


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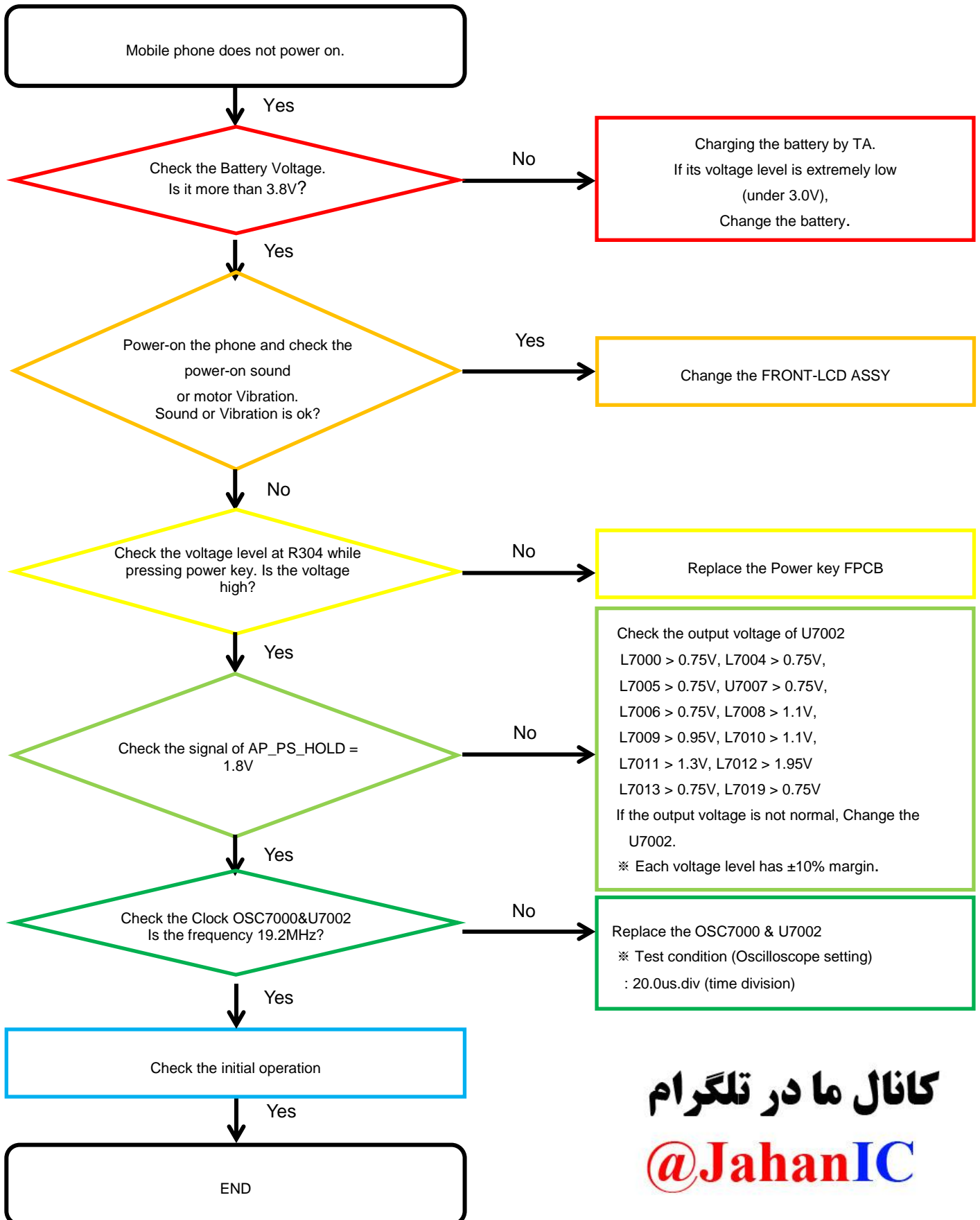
8. Level 3 Repair

8-3. Flow chart of Troubleshooting.

| | |
|---|--|
|  |  |
| <p>Oscilloscope</p> | <p>Digital Multimeter</p> |
|  |  |
| <p>Power Supply</p> | <p>+ driver, ESD Safe Tweezer</p> |
|  |  |
| <p>8960 & Spectrum Analyzer</p> | <p>Soldering iron</p> |

8. Level 3 Repair

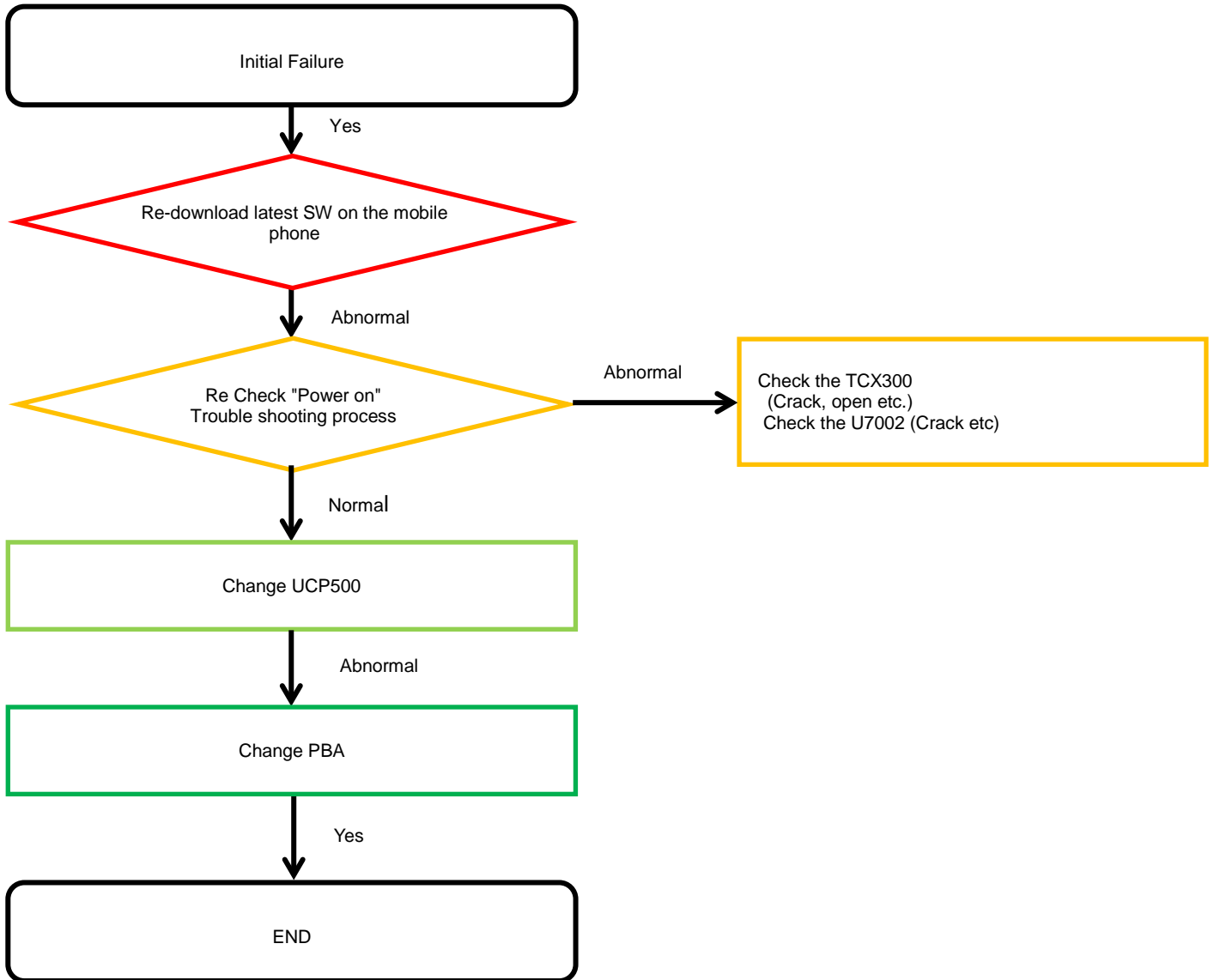
8-4-1. Power On



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8. Level 3 Repair

8-4-2. Initial

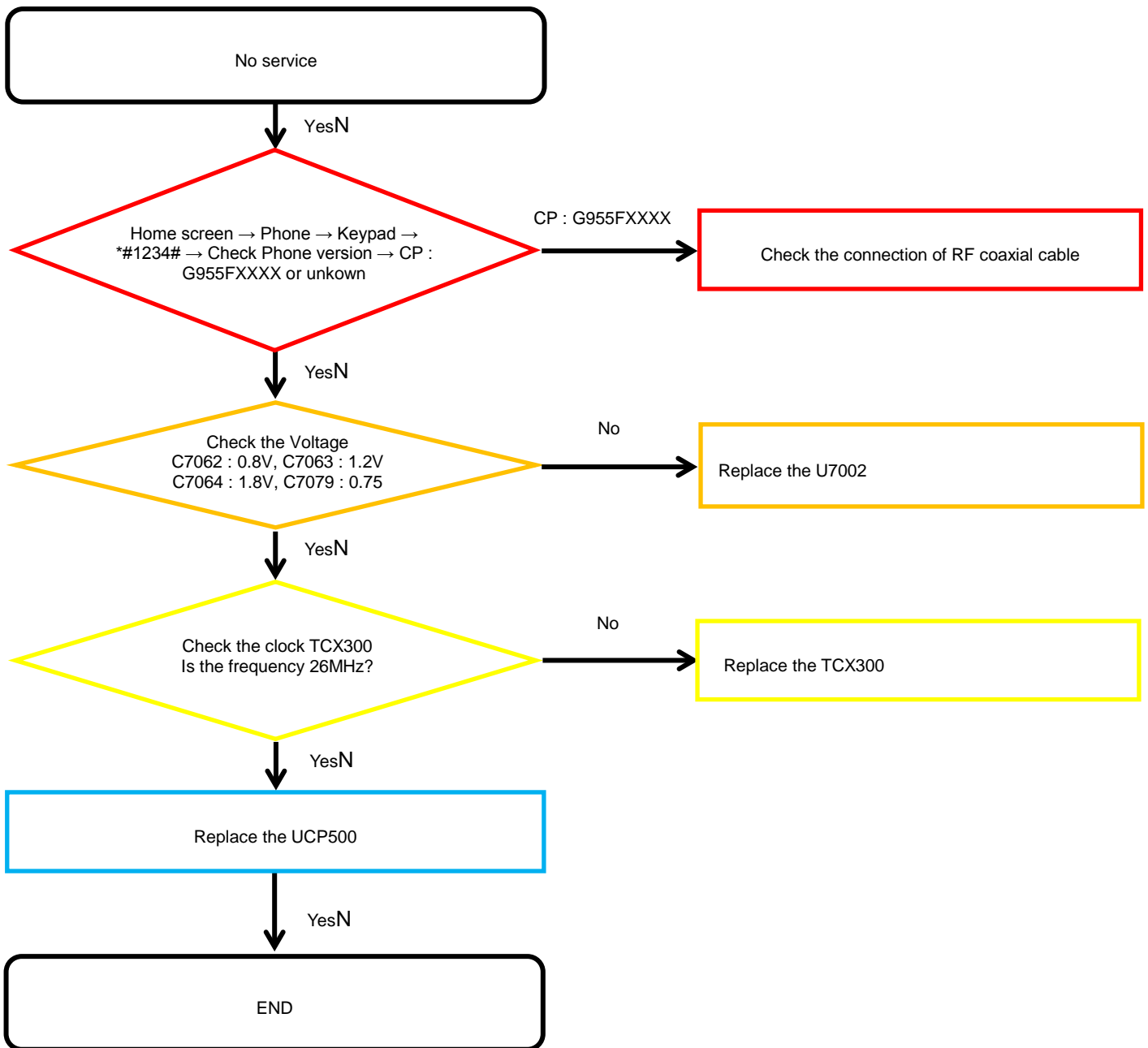


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8. Level 3 Repair

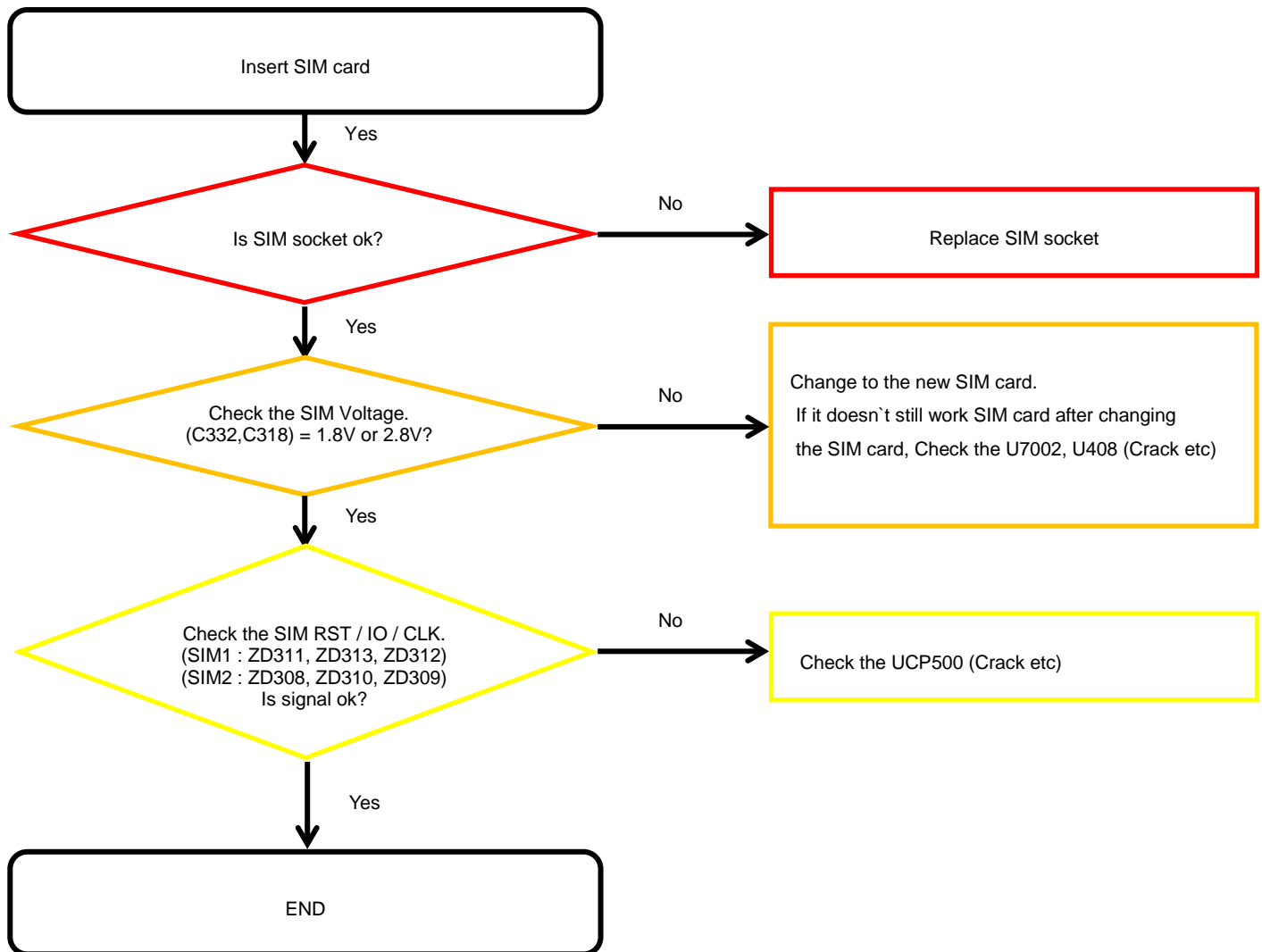
8-4-3. No Service



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8. Level 3 Repair

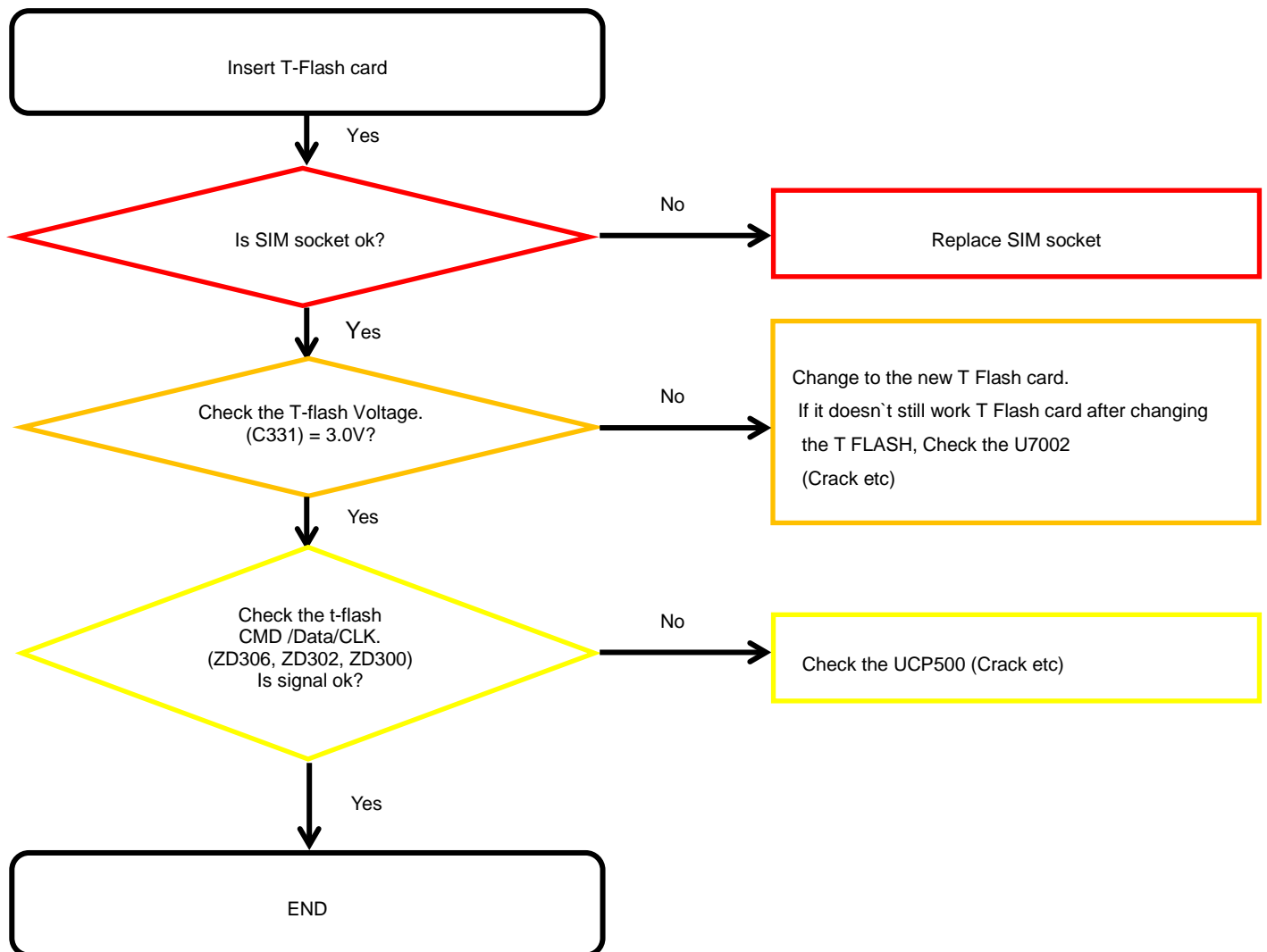
8-4-3. SIM Part



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8. Level 3 Repair

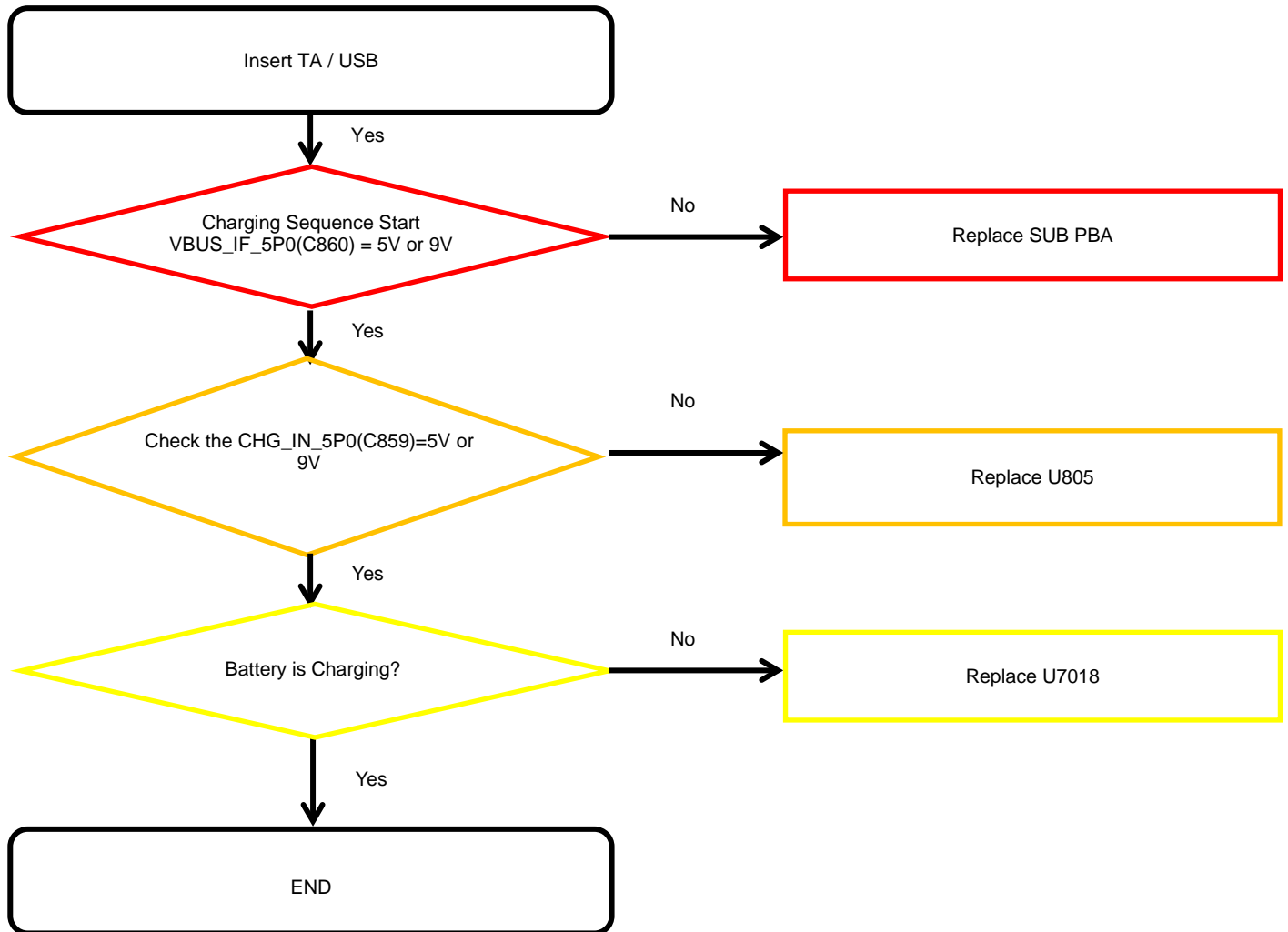
8-4-4. T-Flash Part



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8. Level 3 Repair

8-4-5-1. Cable Charging Part (Normal/Fast)

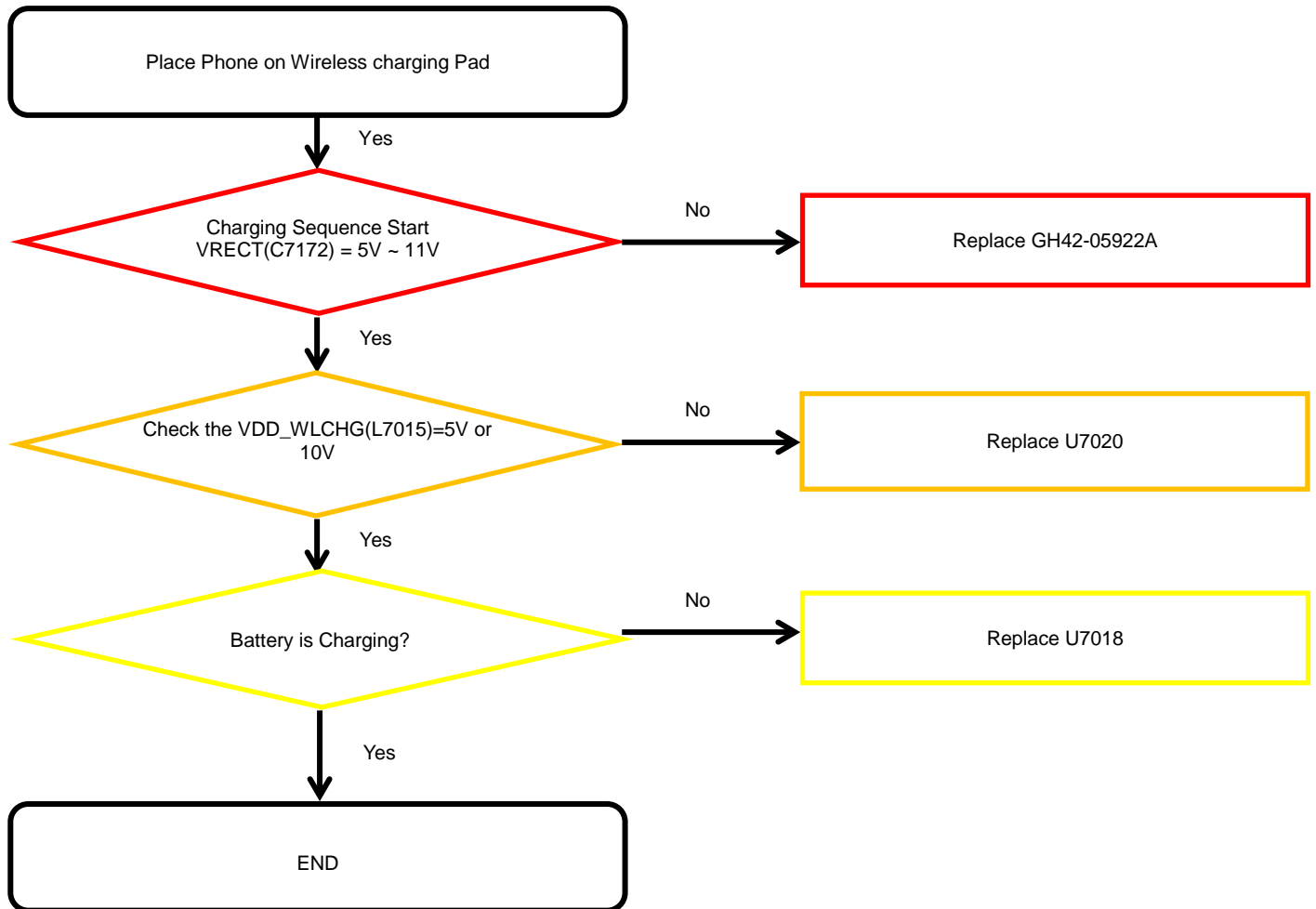


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8. Level 3 Repair

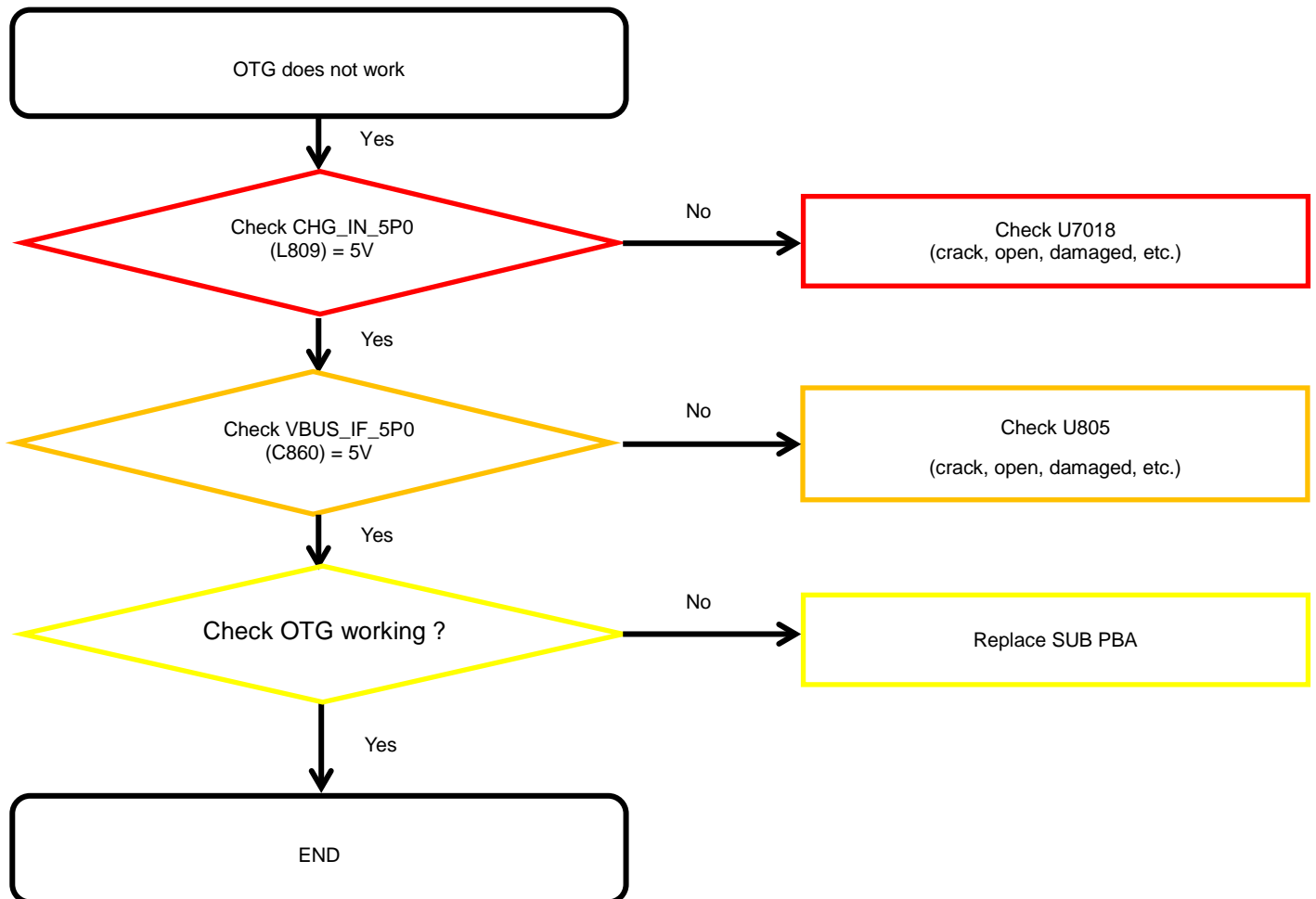
8-4-5-2. Wireless Charging Part (Normal/Fast)



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8. Level 3 Repair

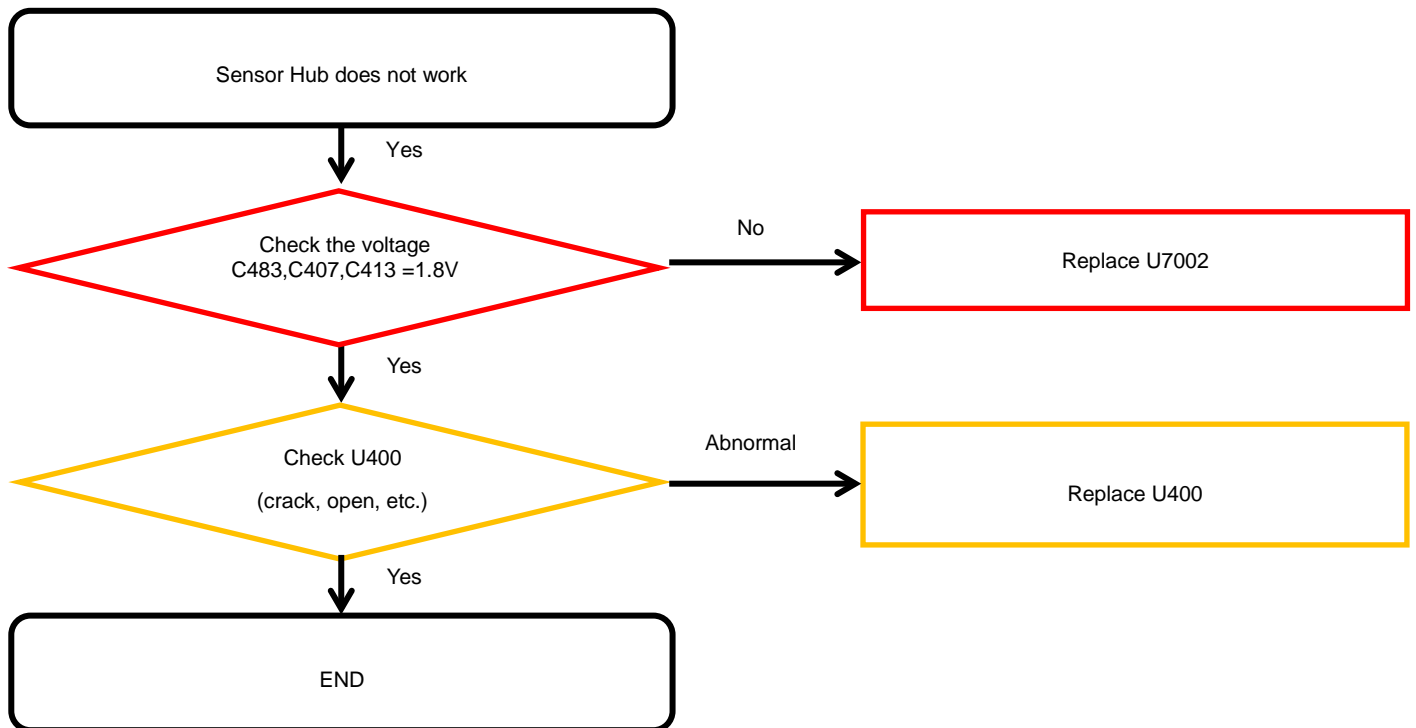
8-4-6. OTG



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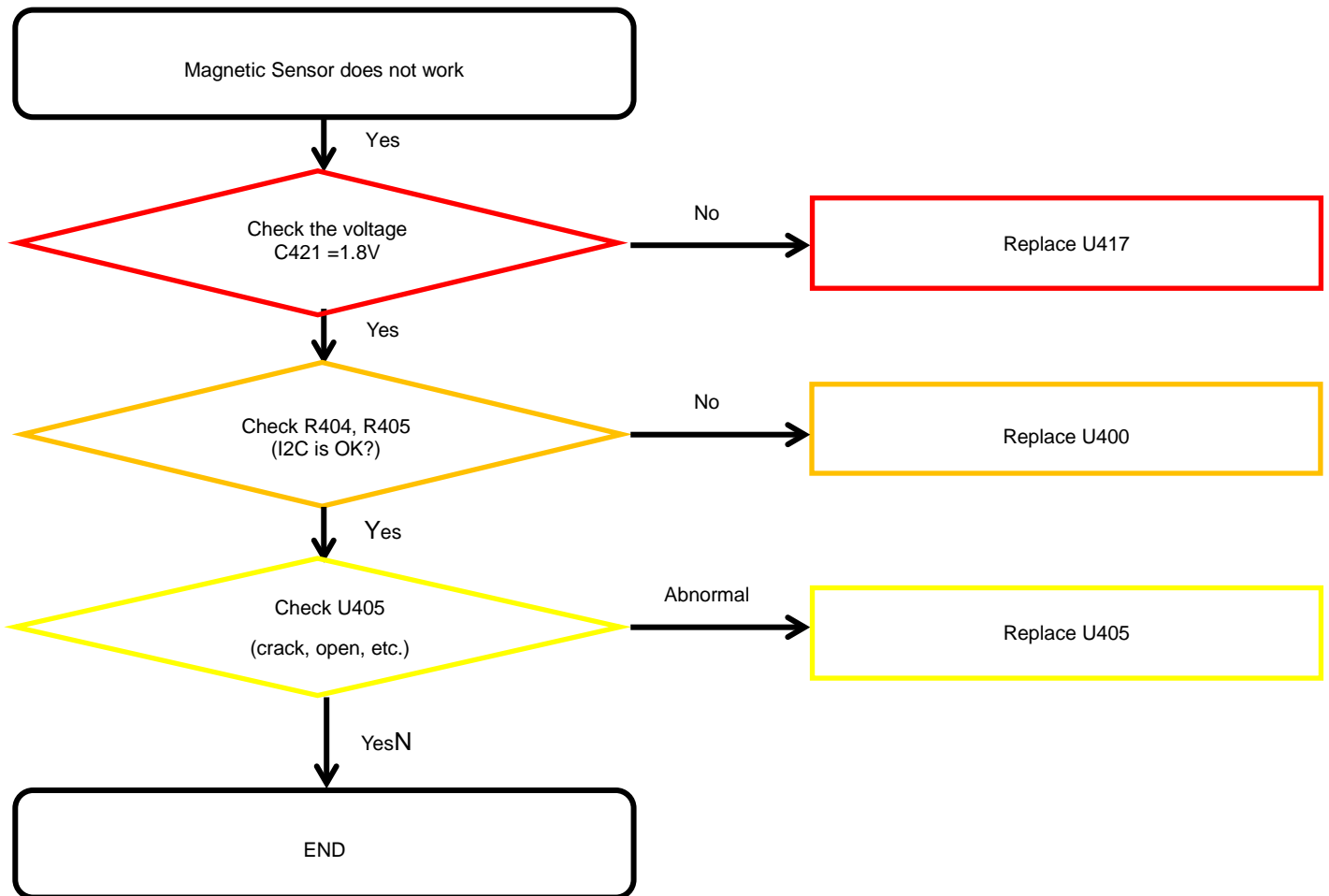
8. Level 3 Repair

8-4-7-1. Sensor Hub



8. Level 3 Repair

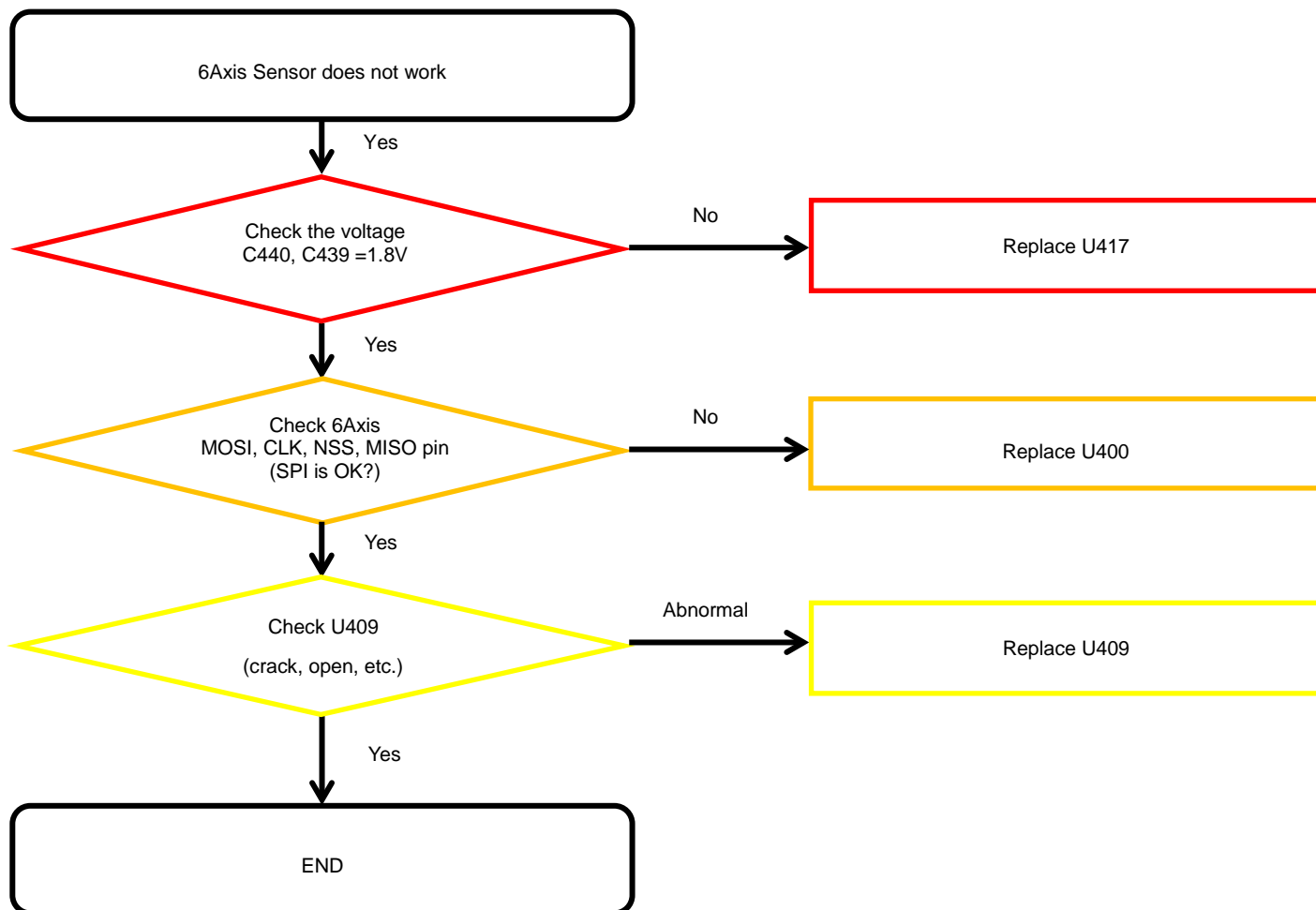
8-4-7-2. Magnetic Sensor



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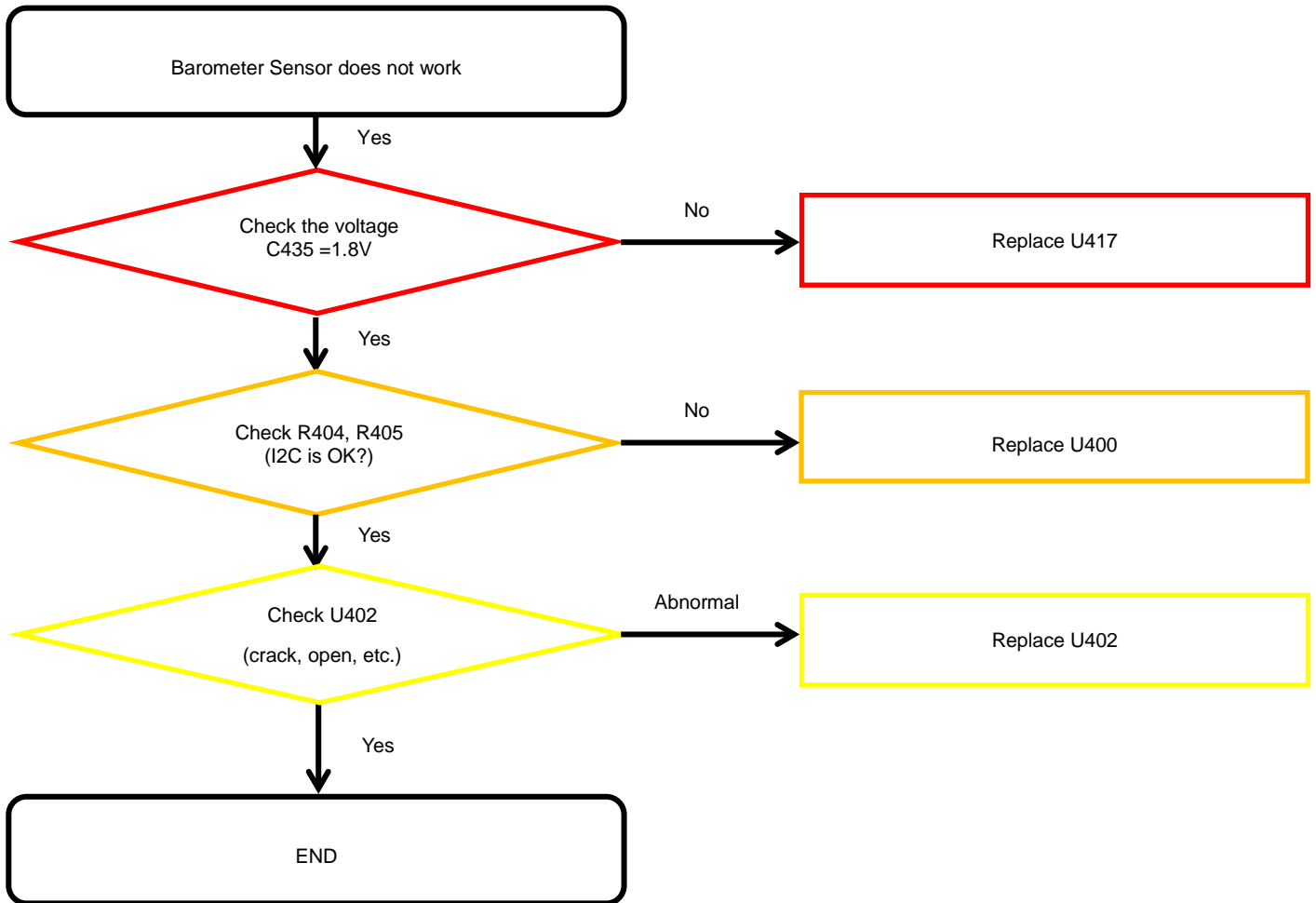
8. Level 3 Repair

8-4-7-3. 6Axis Sensor



8. Level 3 Repair

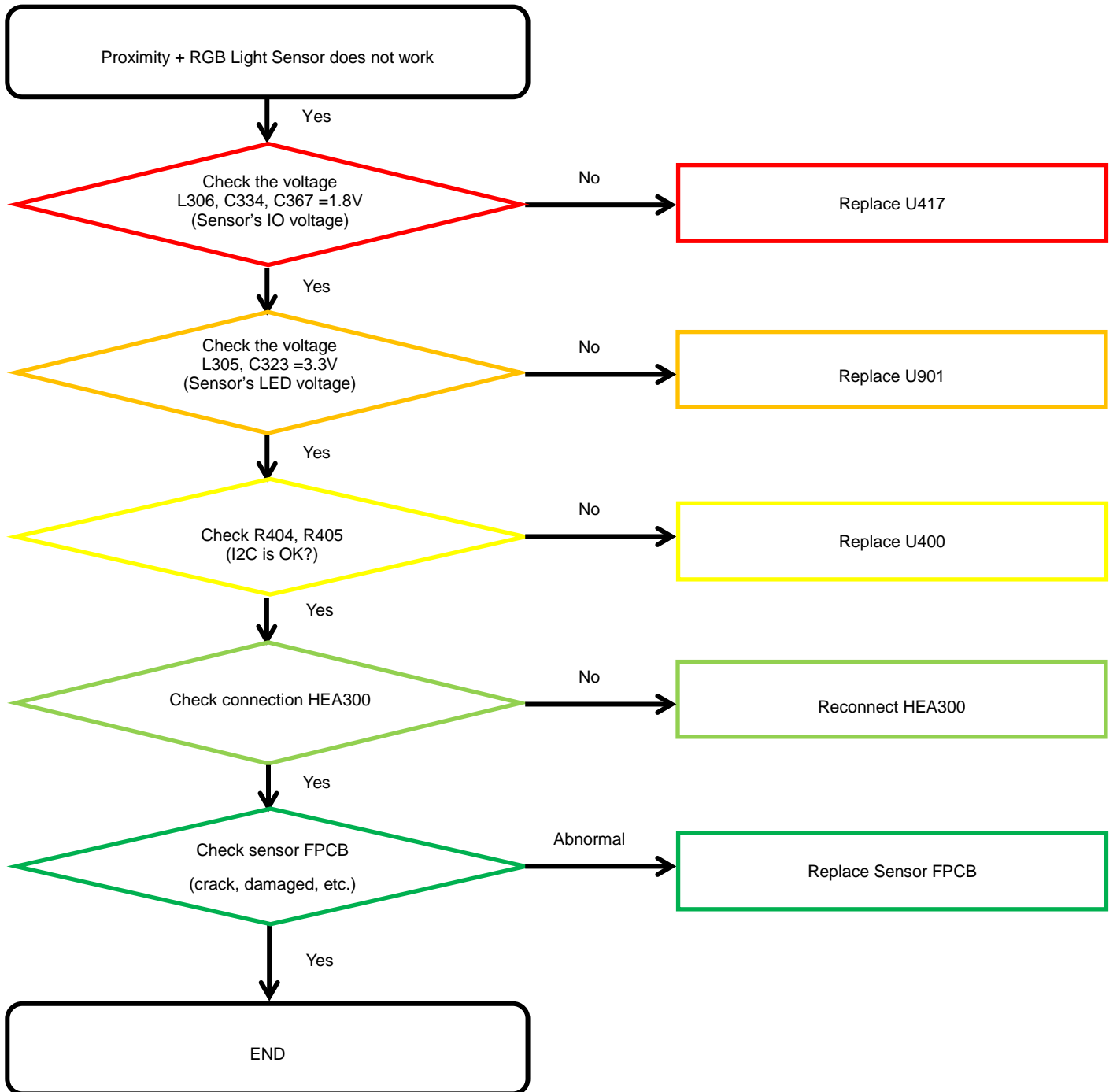
8-4-7-4. Barometer sensor



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8. Level 3 Repair

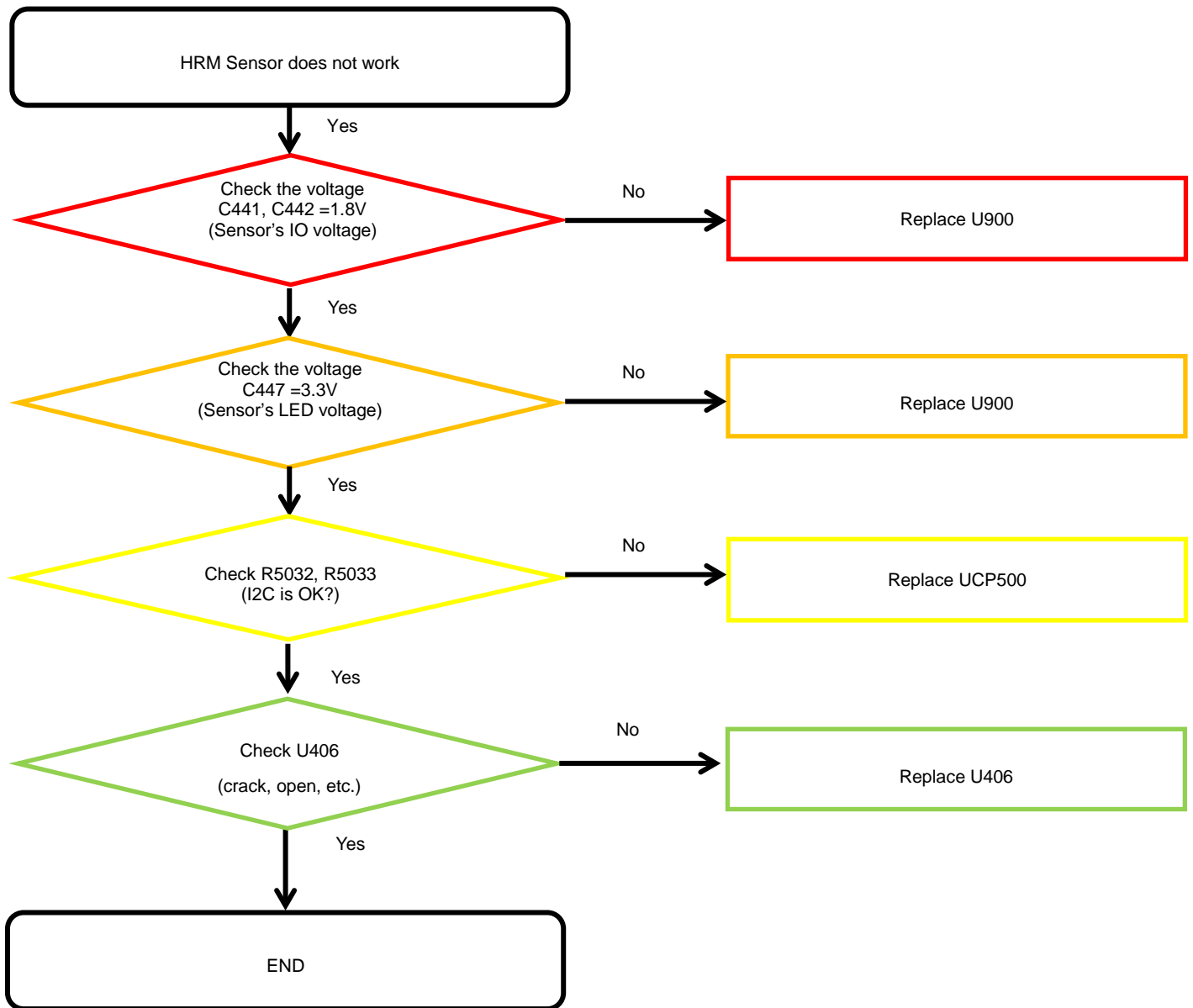
8-4-7-5. Proximity + RGB Light sensor



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8. Level 3 Repair

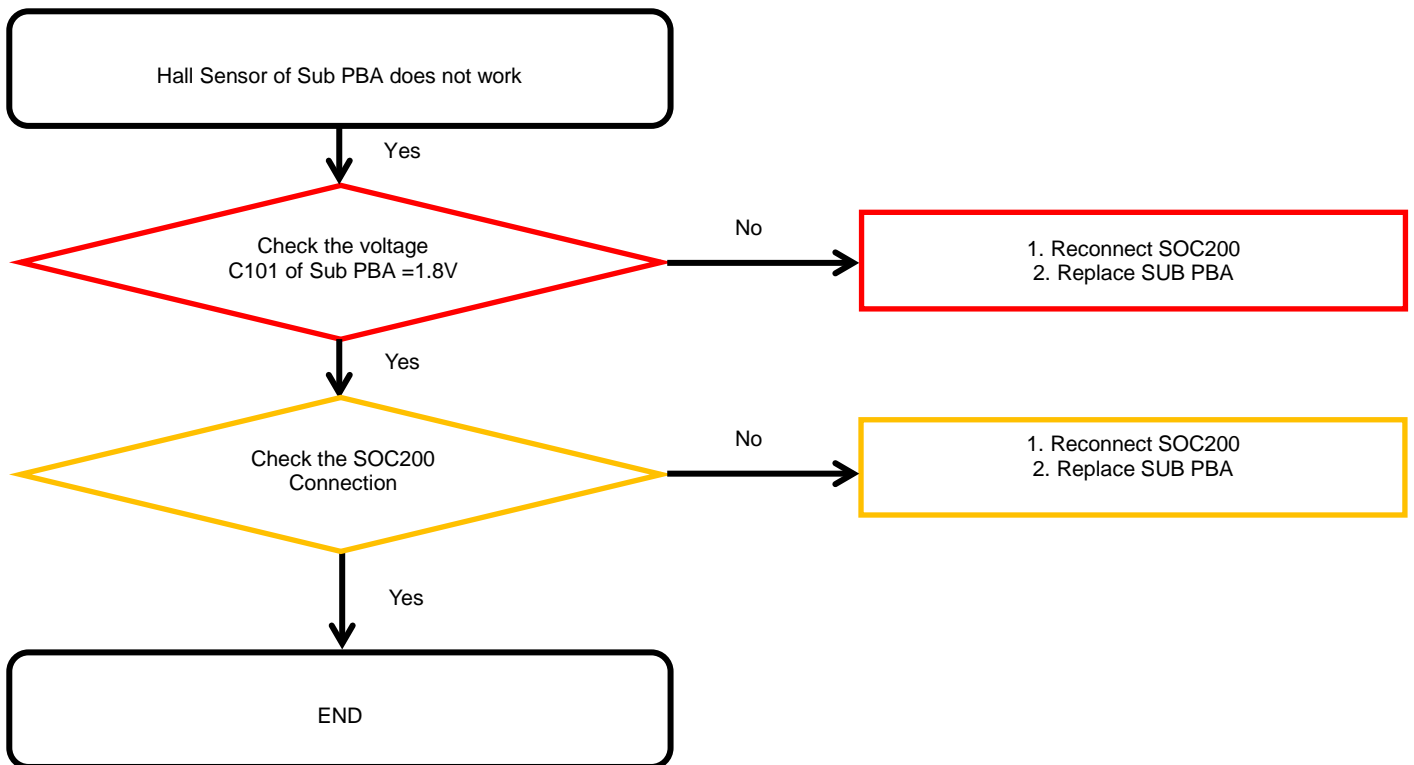
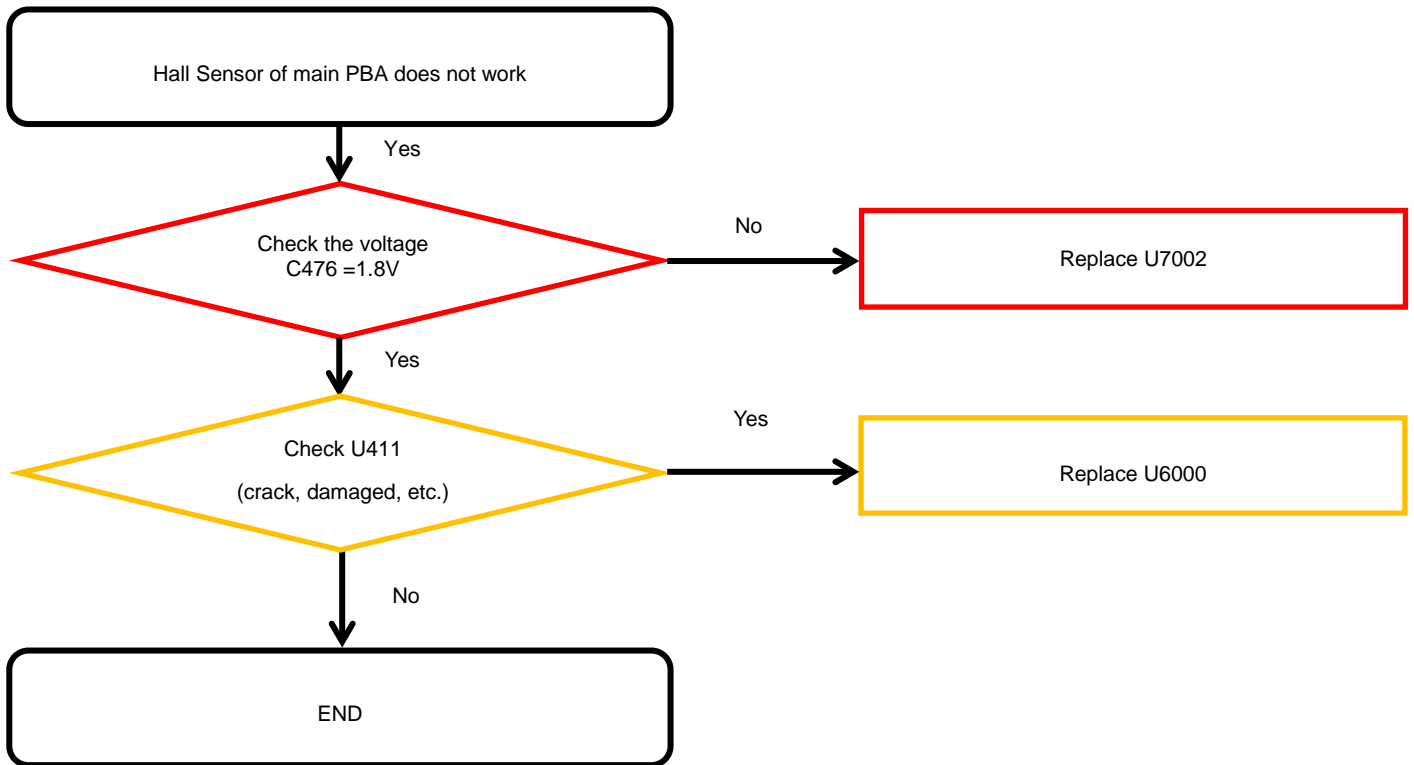
8-4-7-6. HRM Sensor



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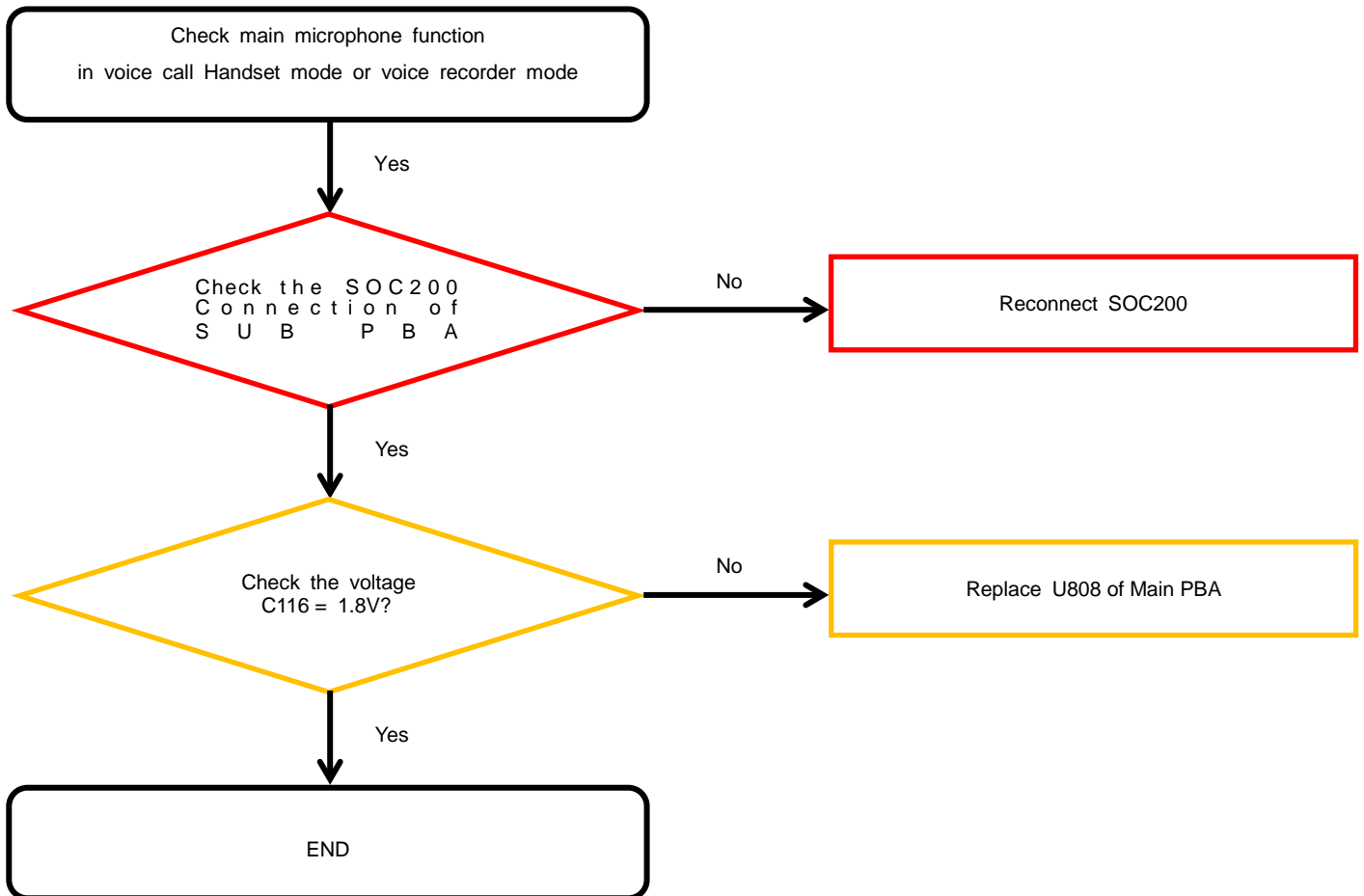
8. Level 3 Repair

8-4-7-7. Hall Sensor



8. Level 3 Repair

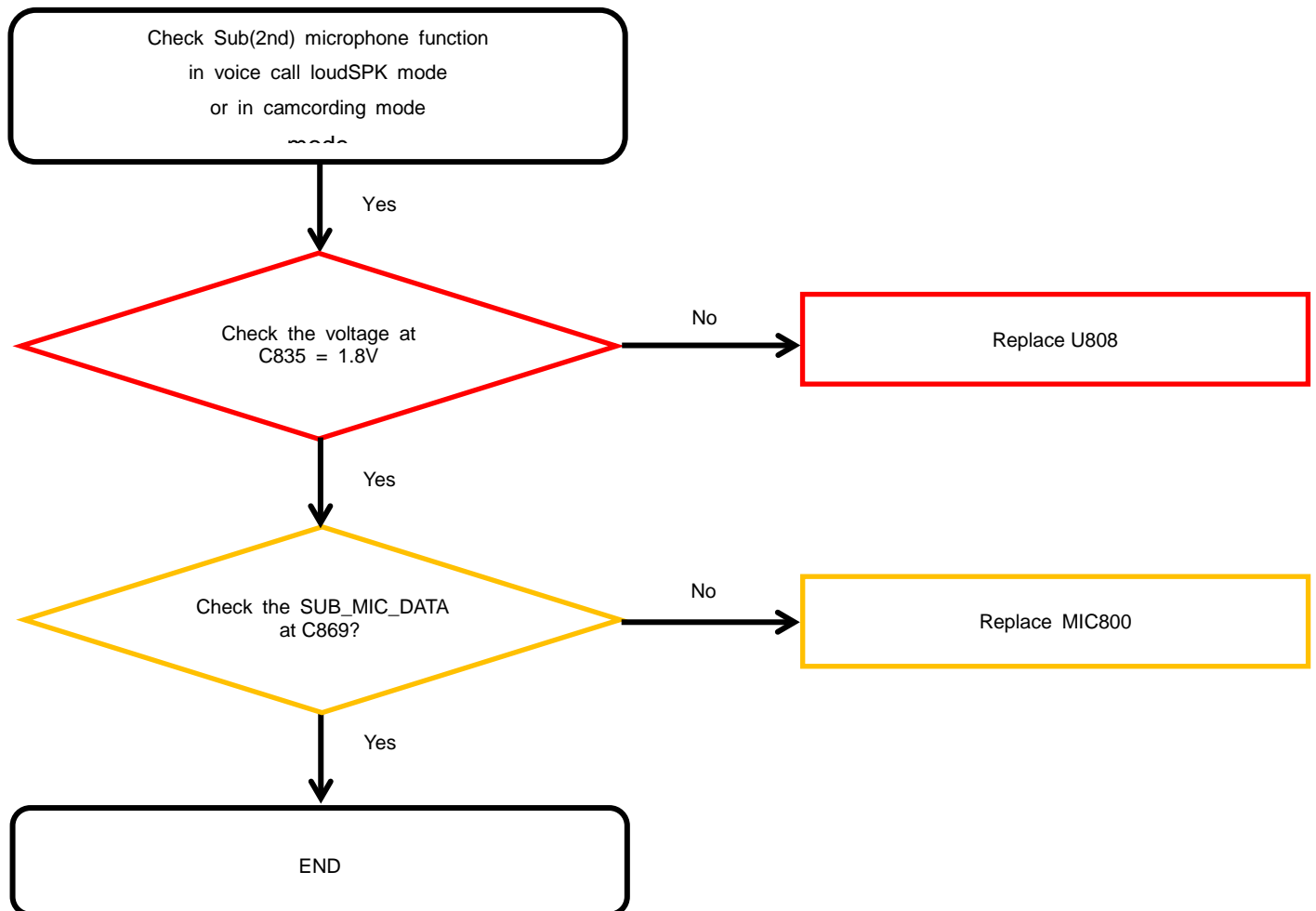
8-4-8-1. Microphone Part - Main MIC



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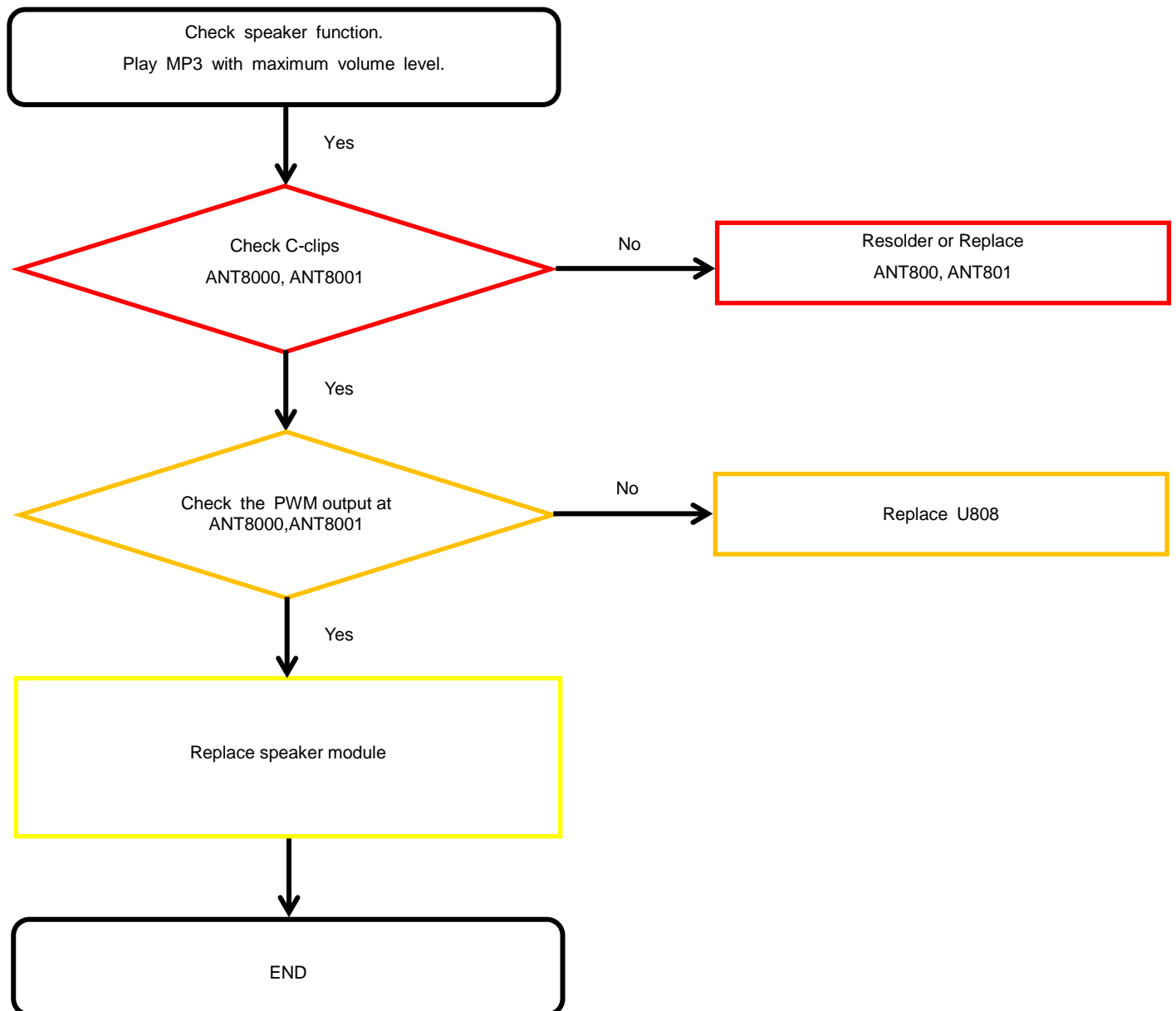
8. Level 3 Repair

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



8. Level 3 Repair

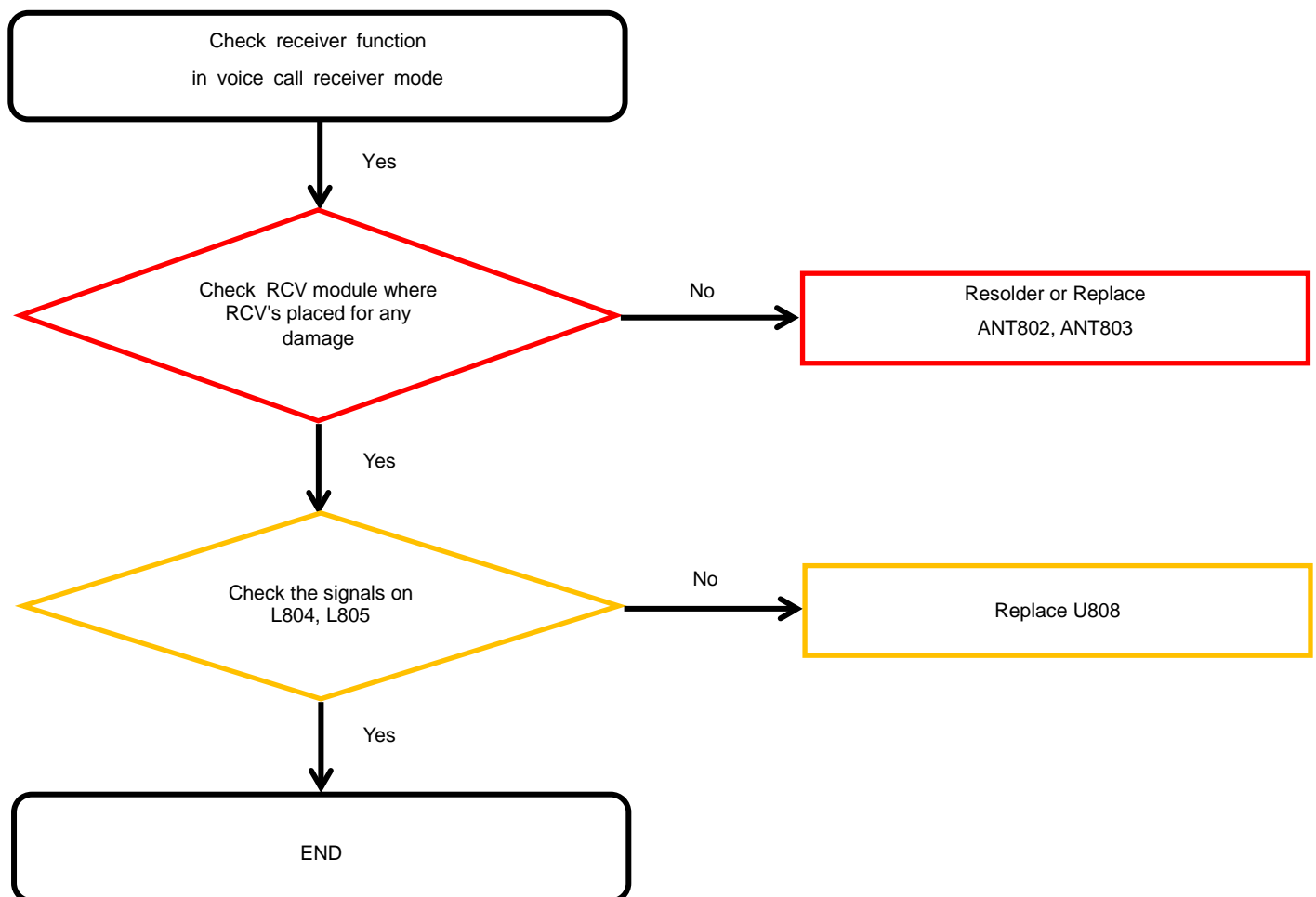
8-4-9. Speaker Part



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8. Level 3 Repair

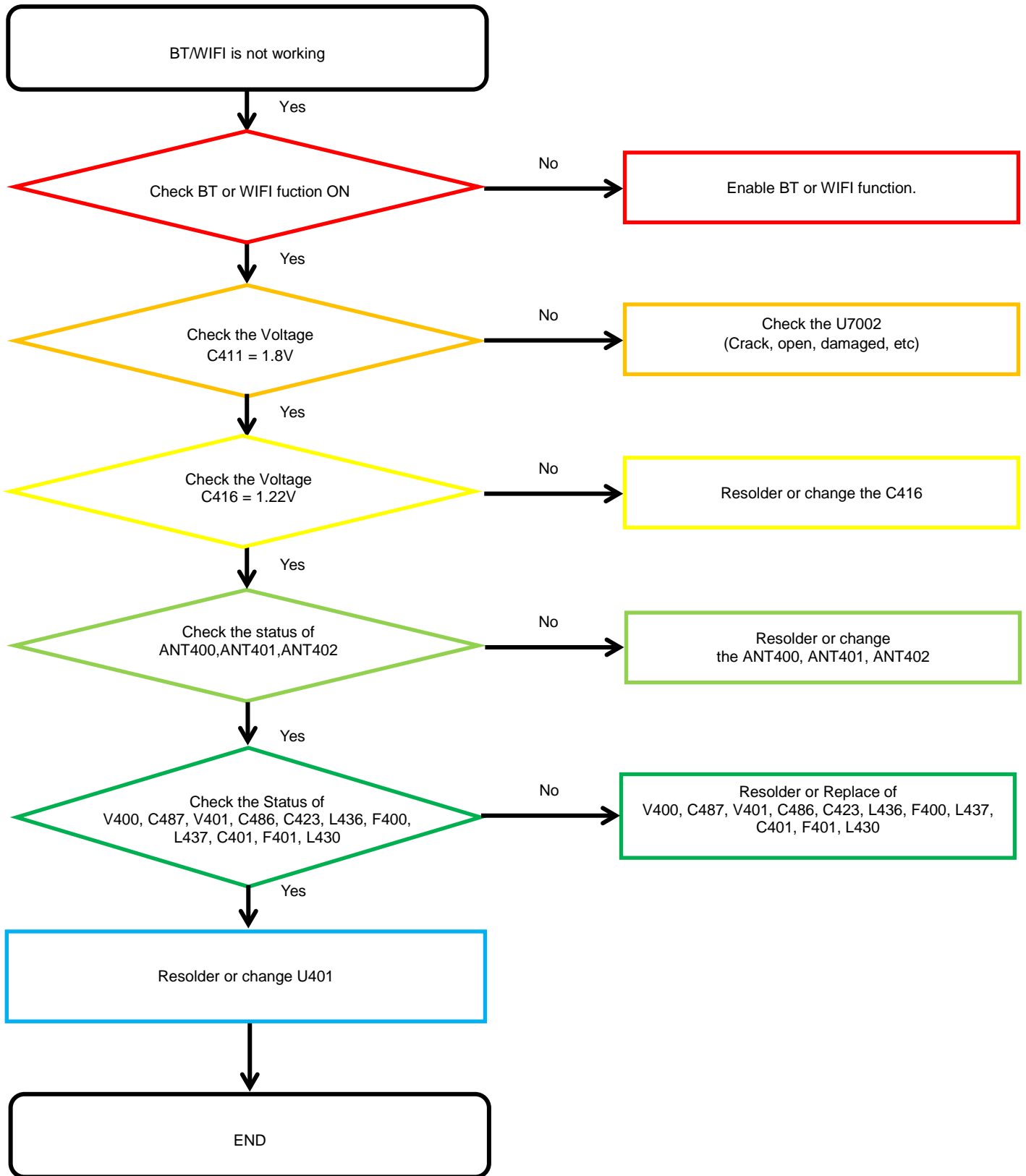
8-4-10. Receiver Part



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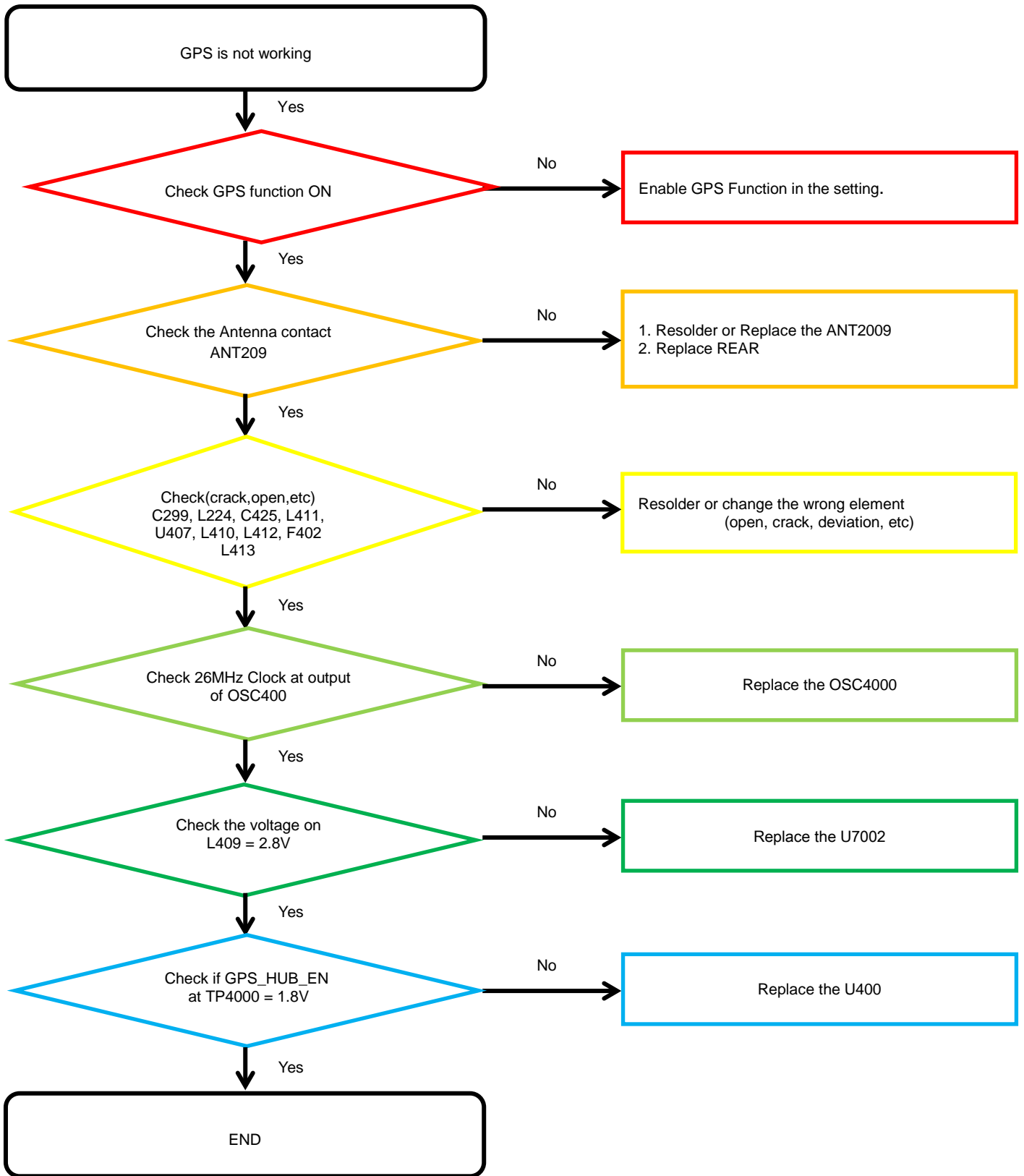
8. Level 3 Repair

8-4-11. BT/WIFI



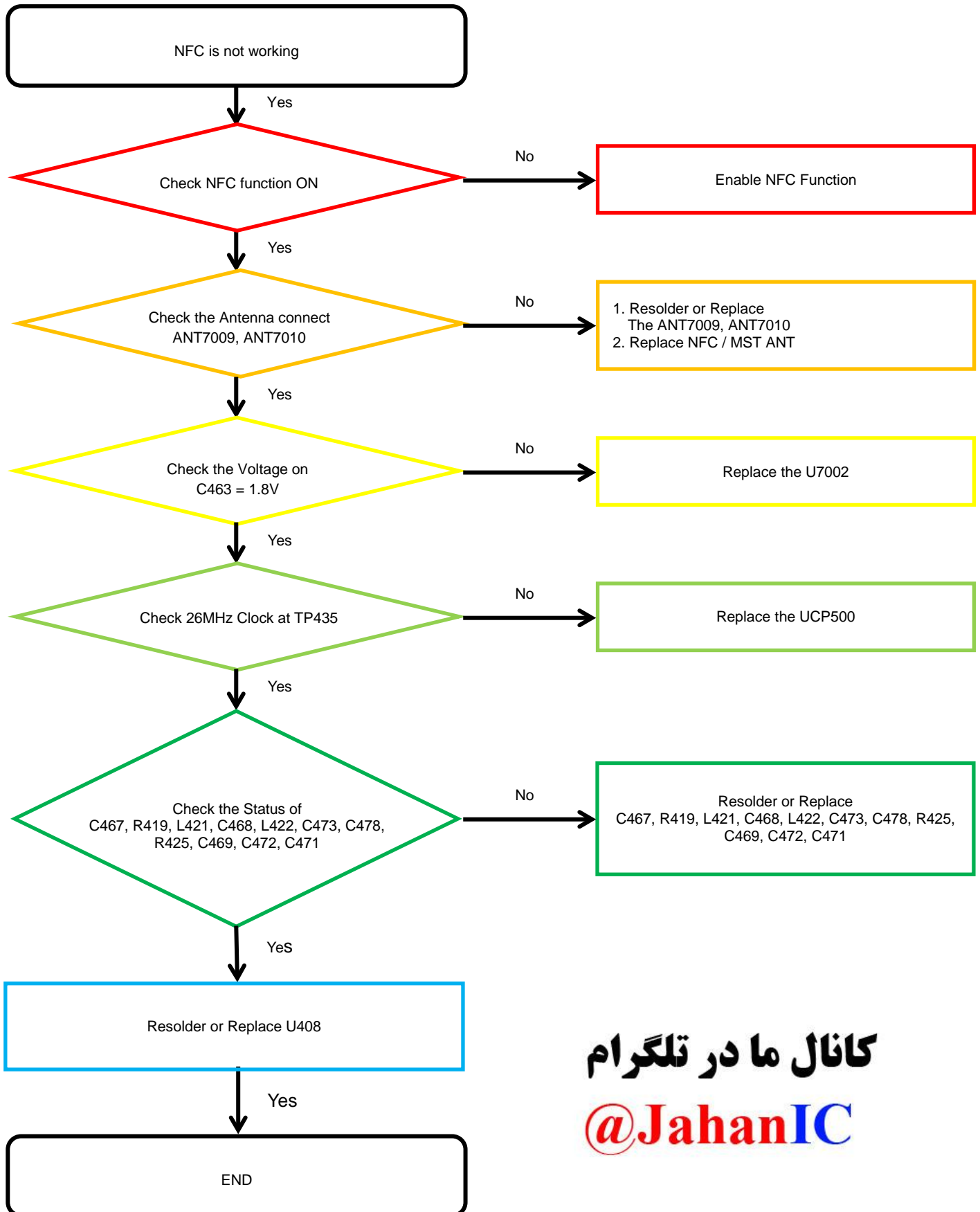
8. Level 3 Repair

8-4-12. GPS



8. Level 3 Repair

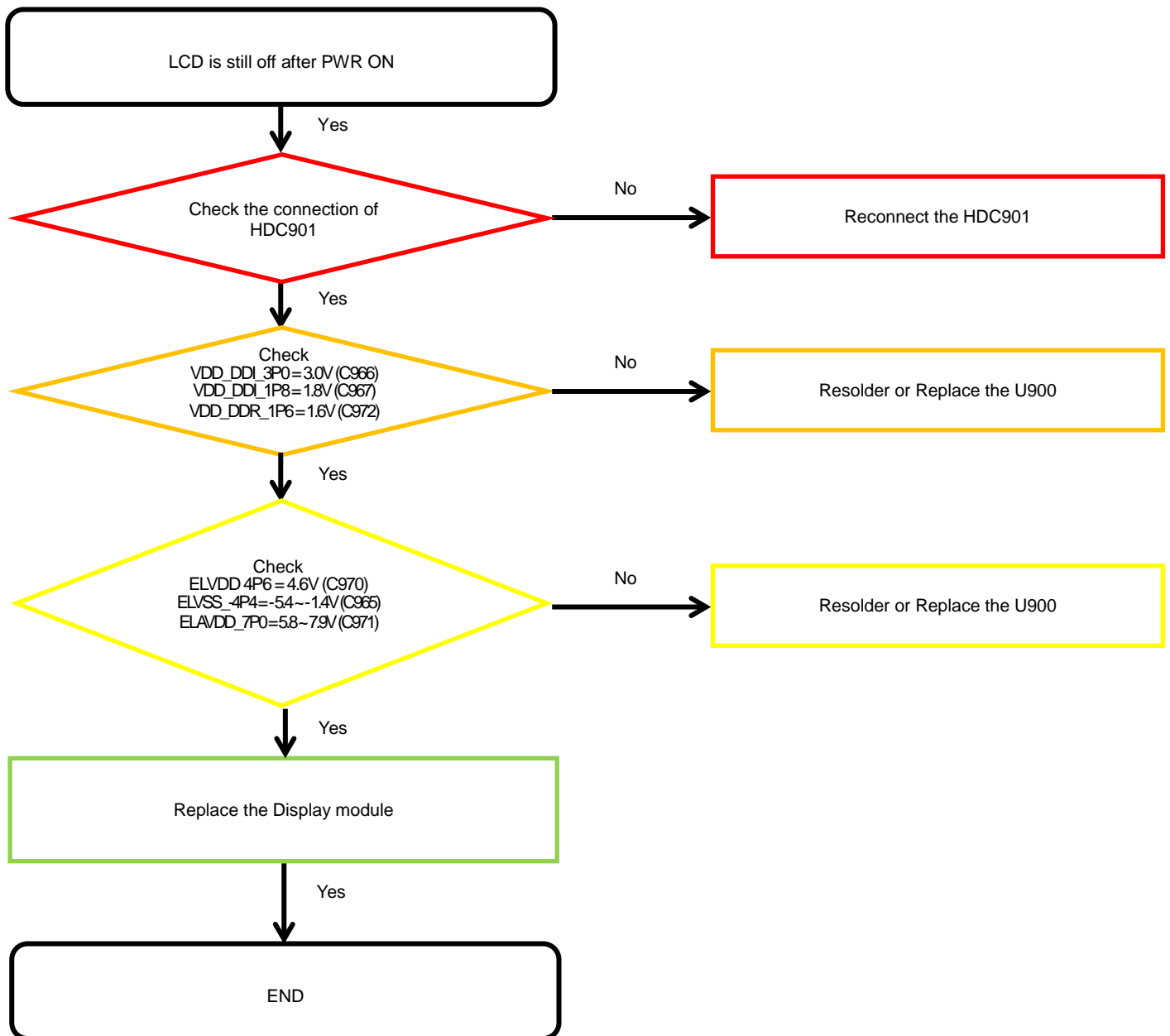
8-4-13. NFC



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8. Level 3 Repair

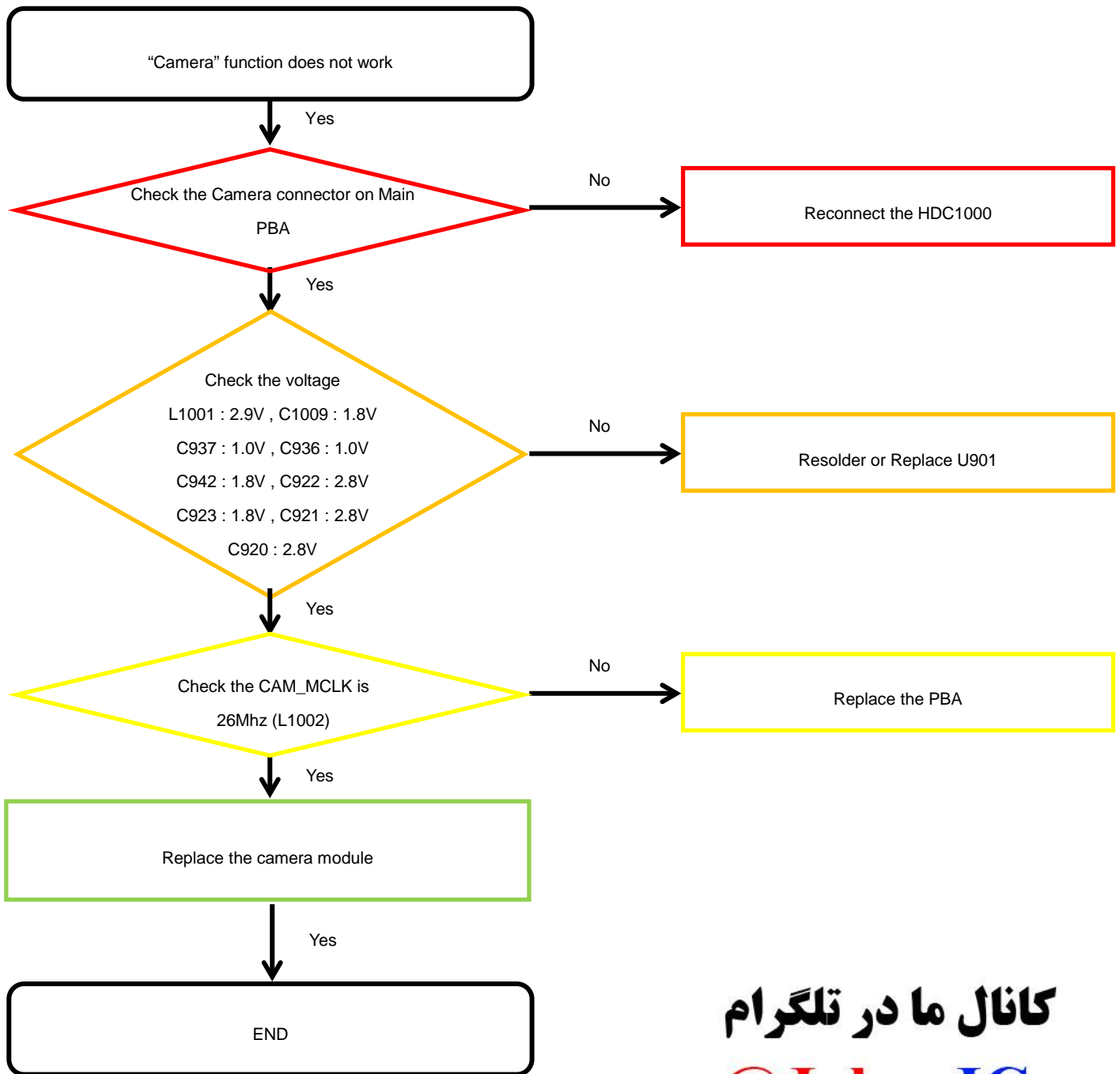
8-4-14. Display



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8. Level 3 Repair

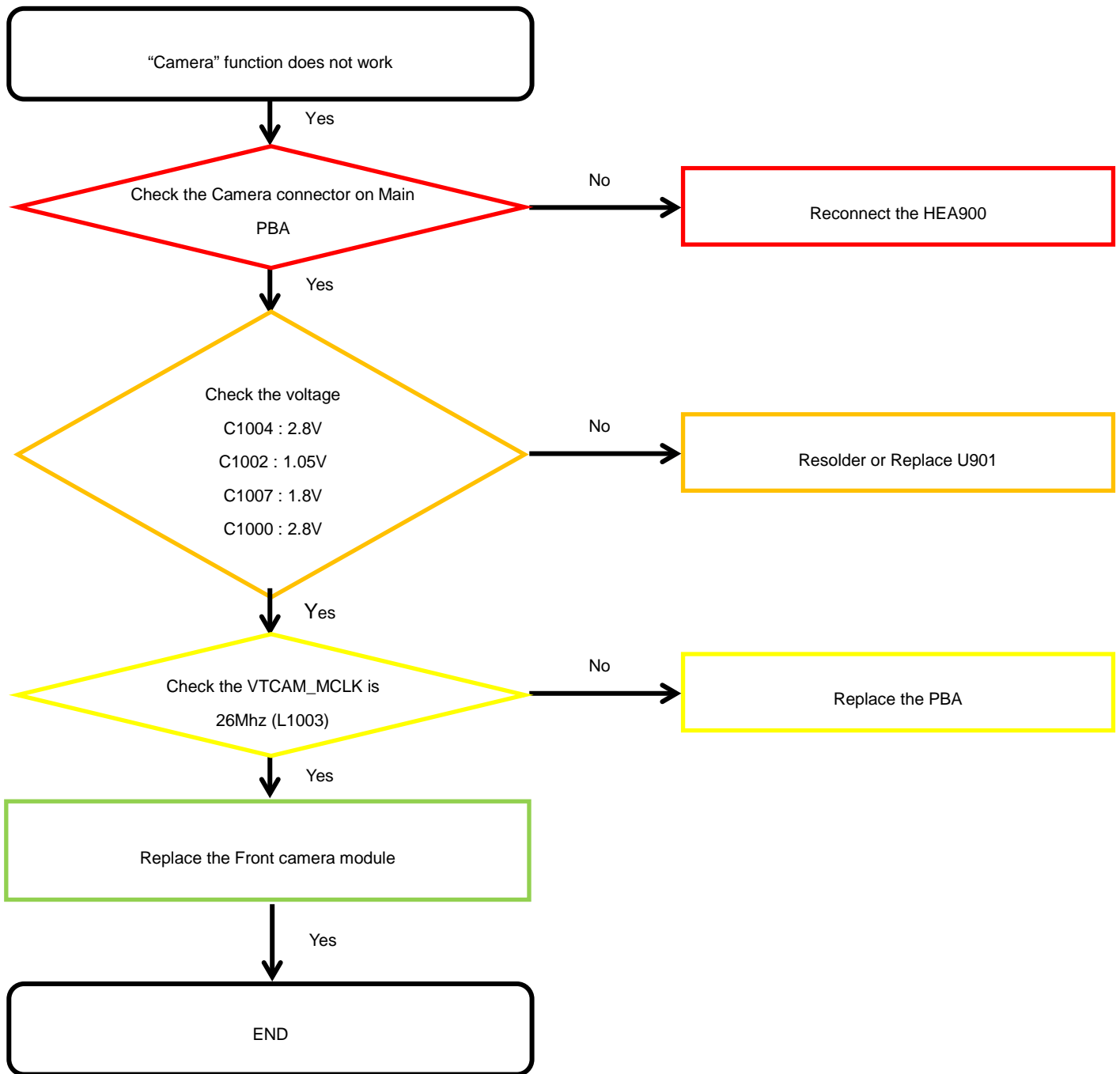
8-4-15. 12M CAMERA



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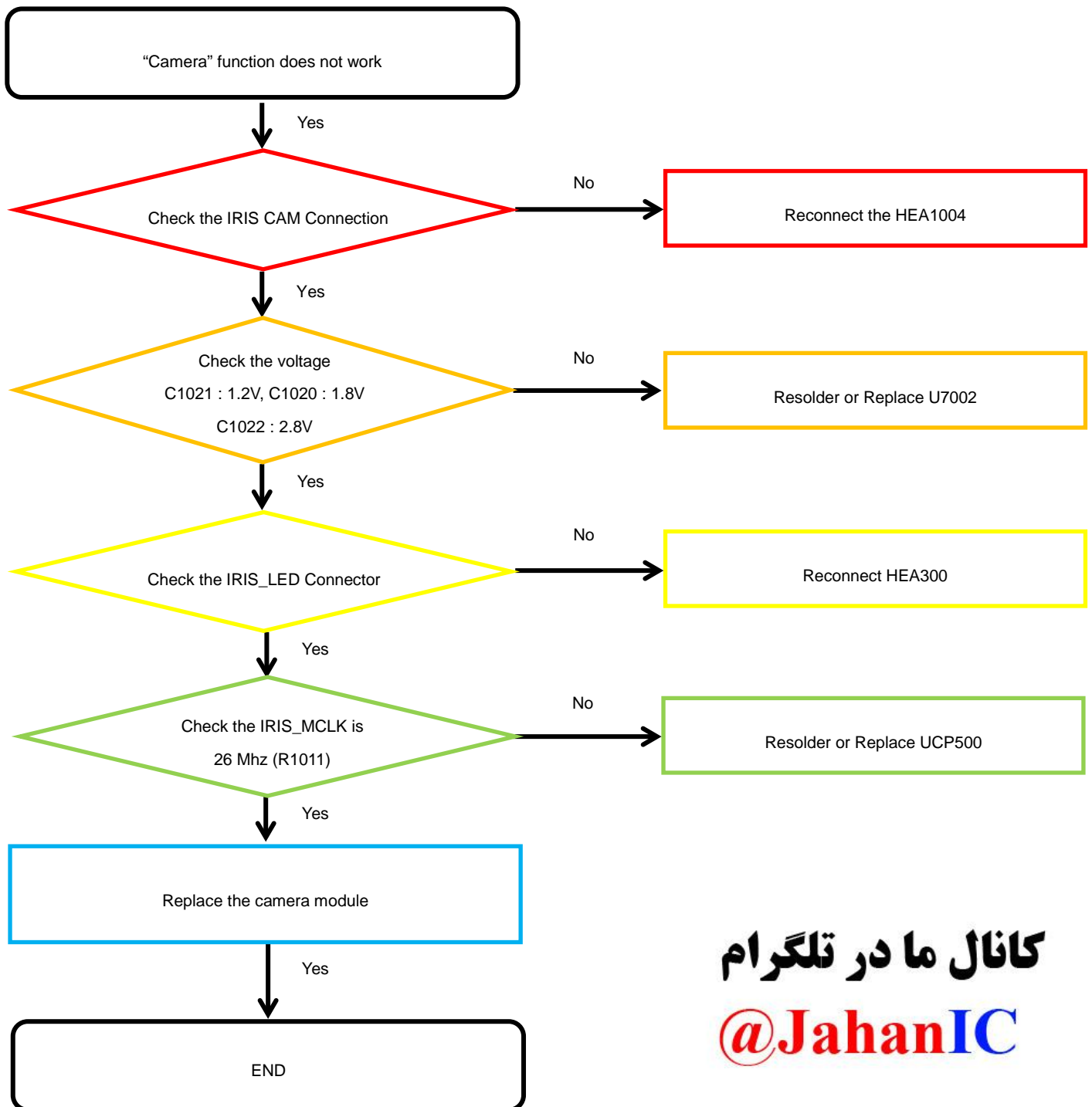
8. Level 3 Repair

8-4-16. 8M CAMERA



8. Level 3 Repair

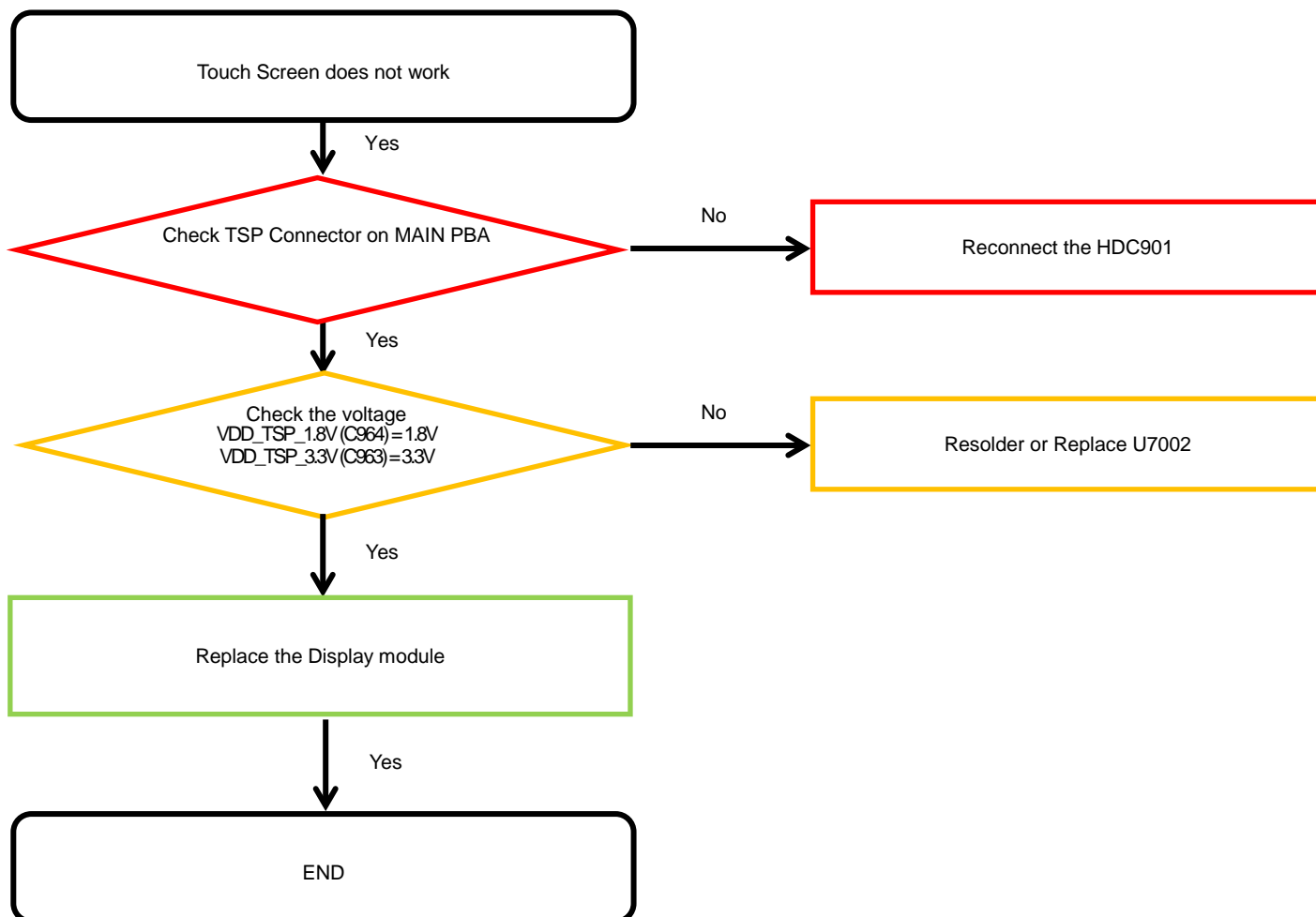
8-4-17. IRIS CAM



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8. Level 3 Repair

8-4-18. TSP

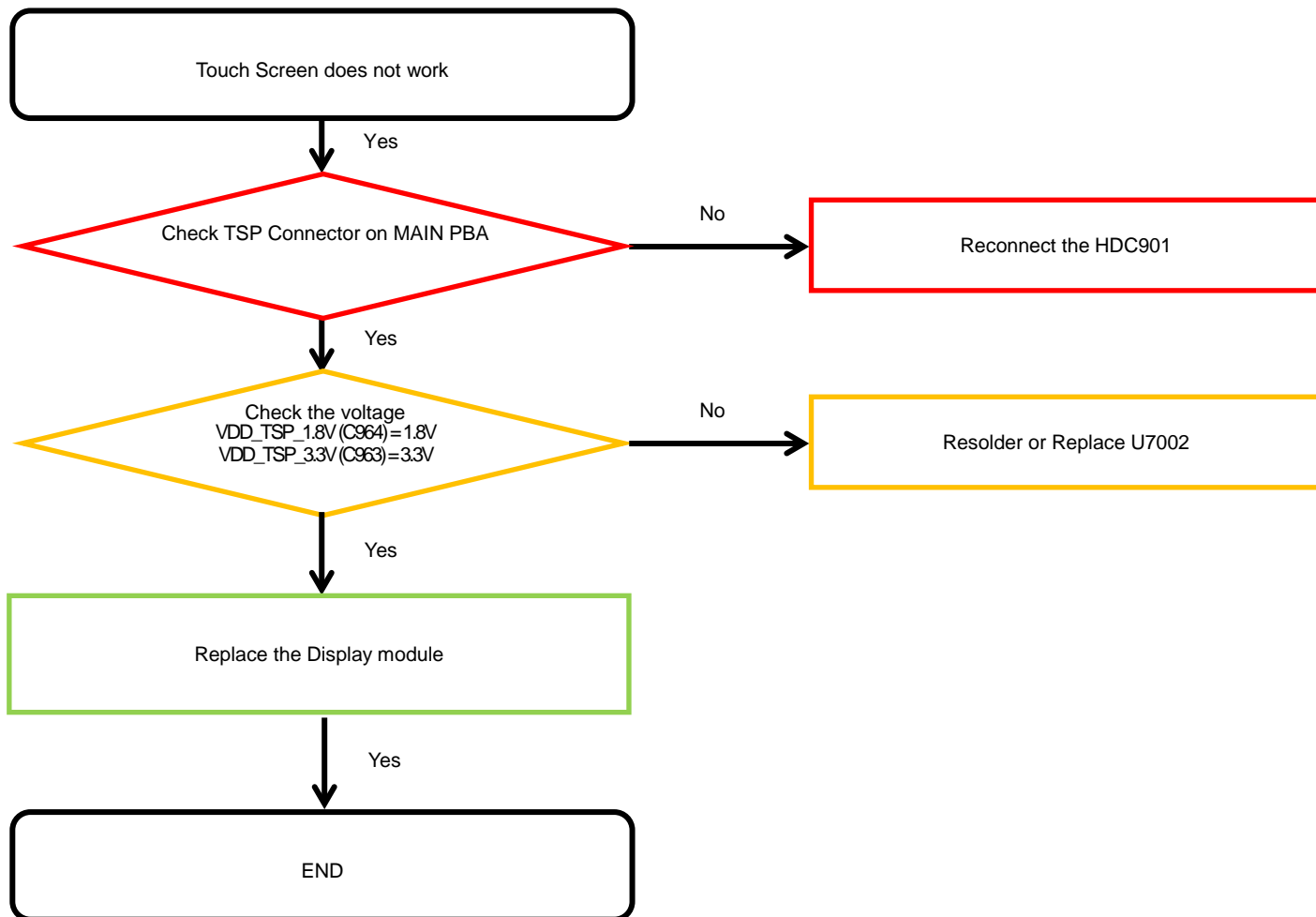


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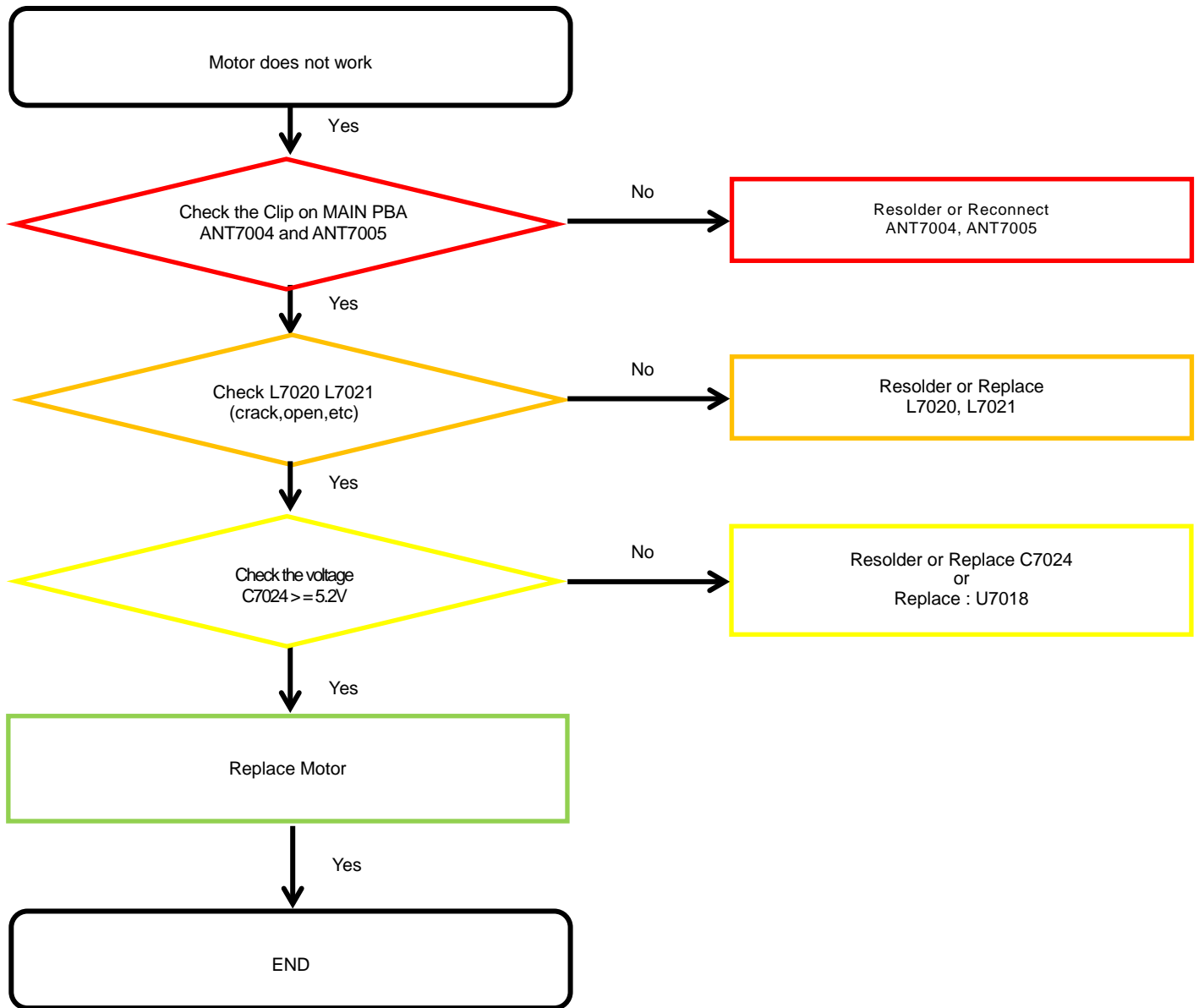
8. Level 3 Repair

8-4-19. Pressure Touch (Home Button function)



8. Level 3 Repair

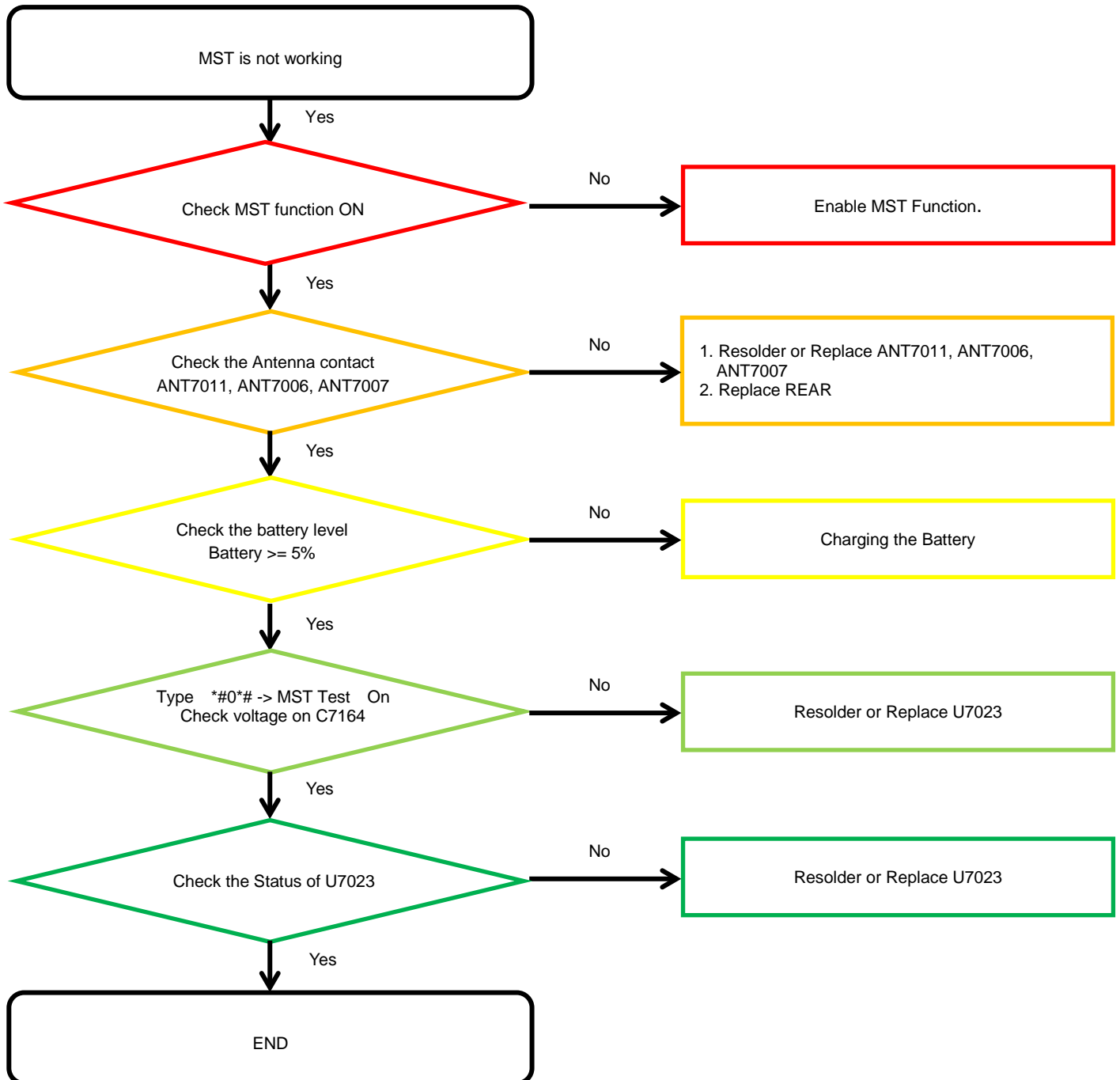
8-4-20. Motor



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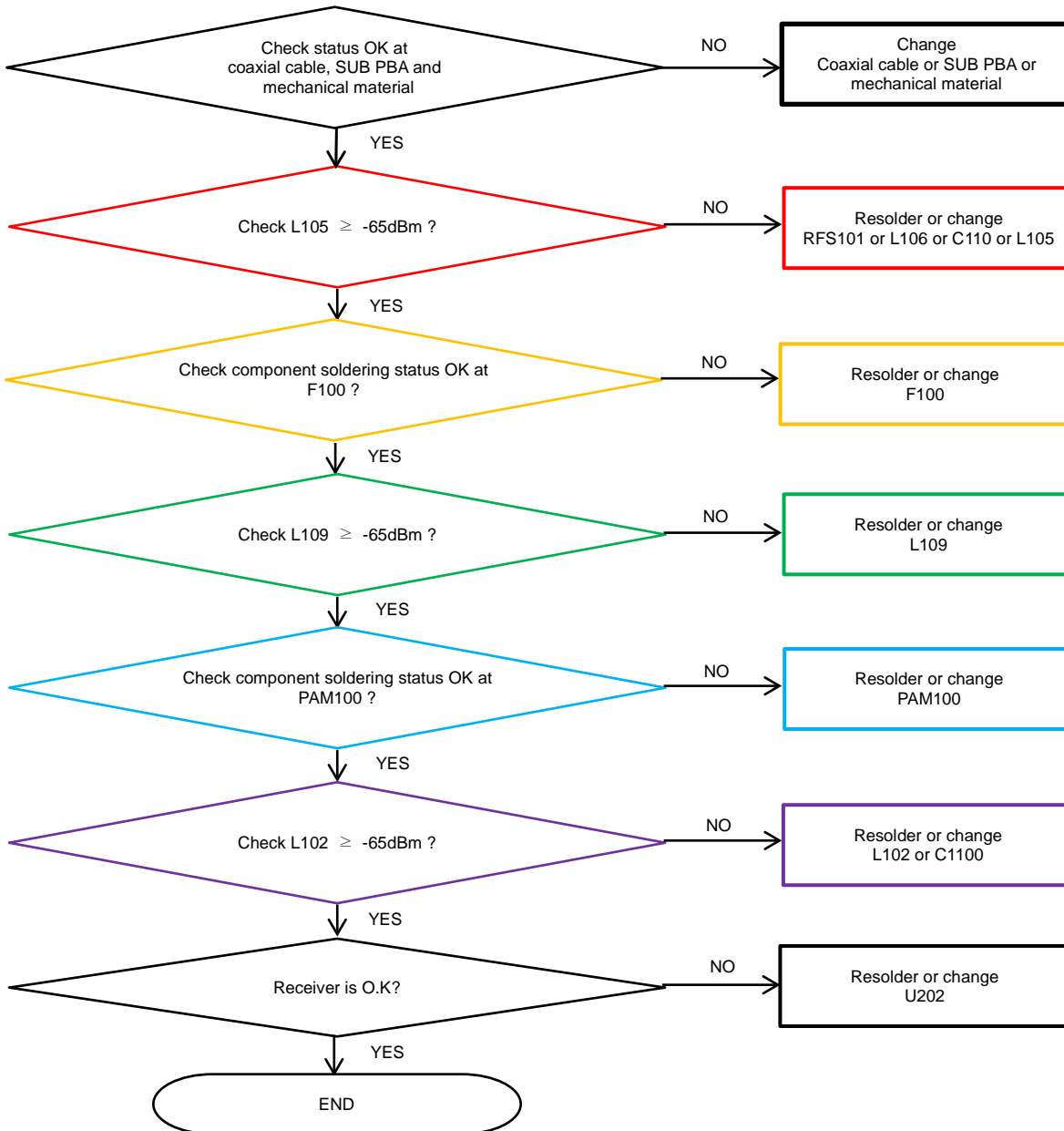
8. Level 3 Repair

8-4-21. MST



8. Level 3 Repair

8-4-22. GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 Rx

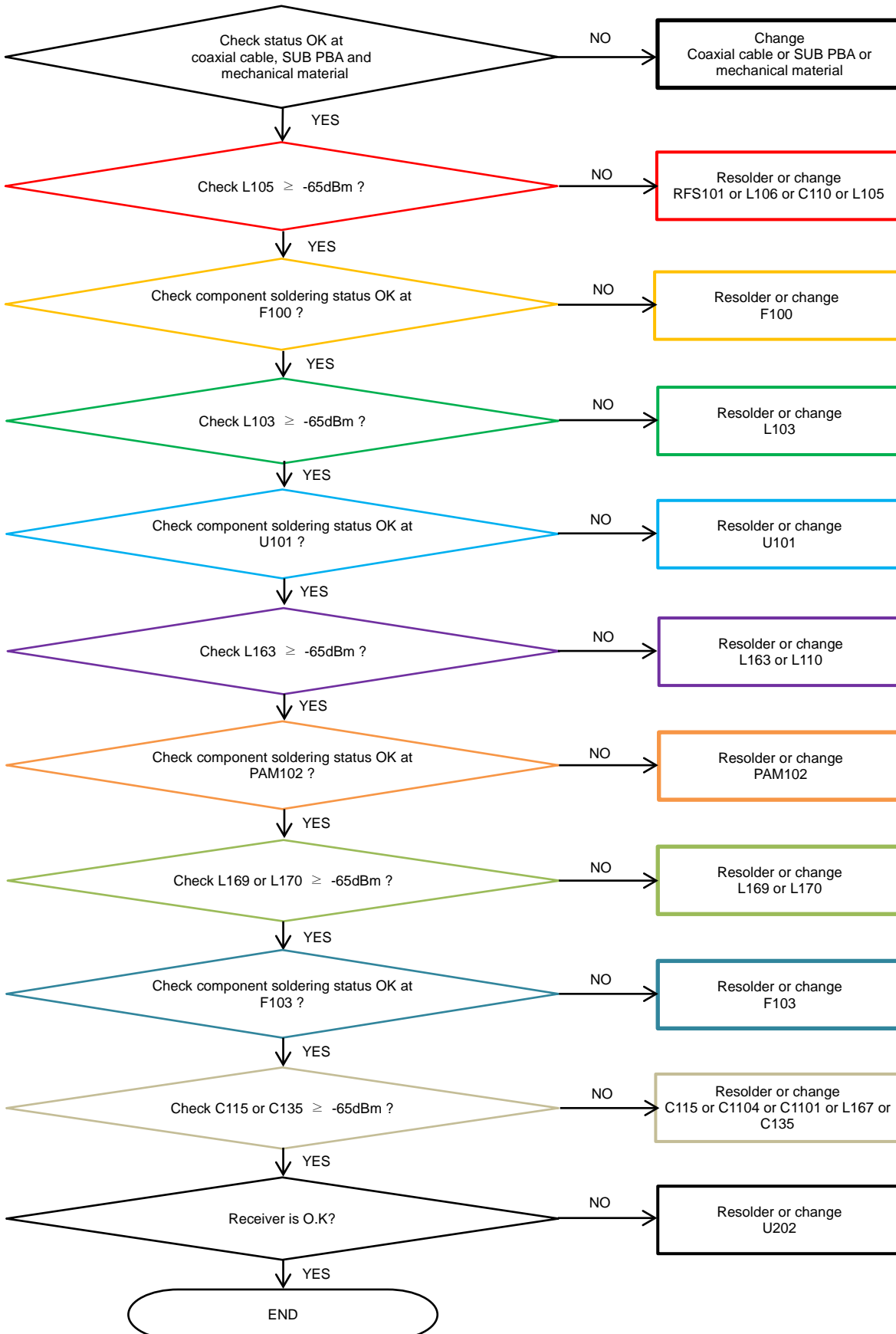


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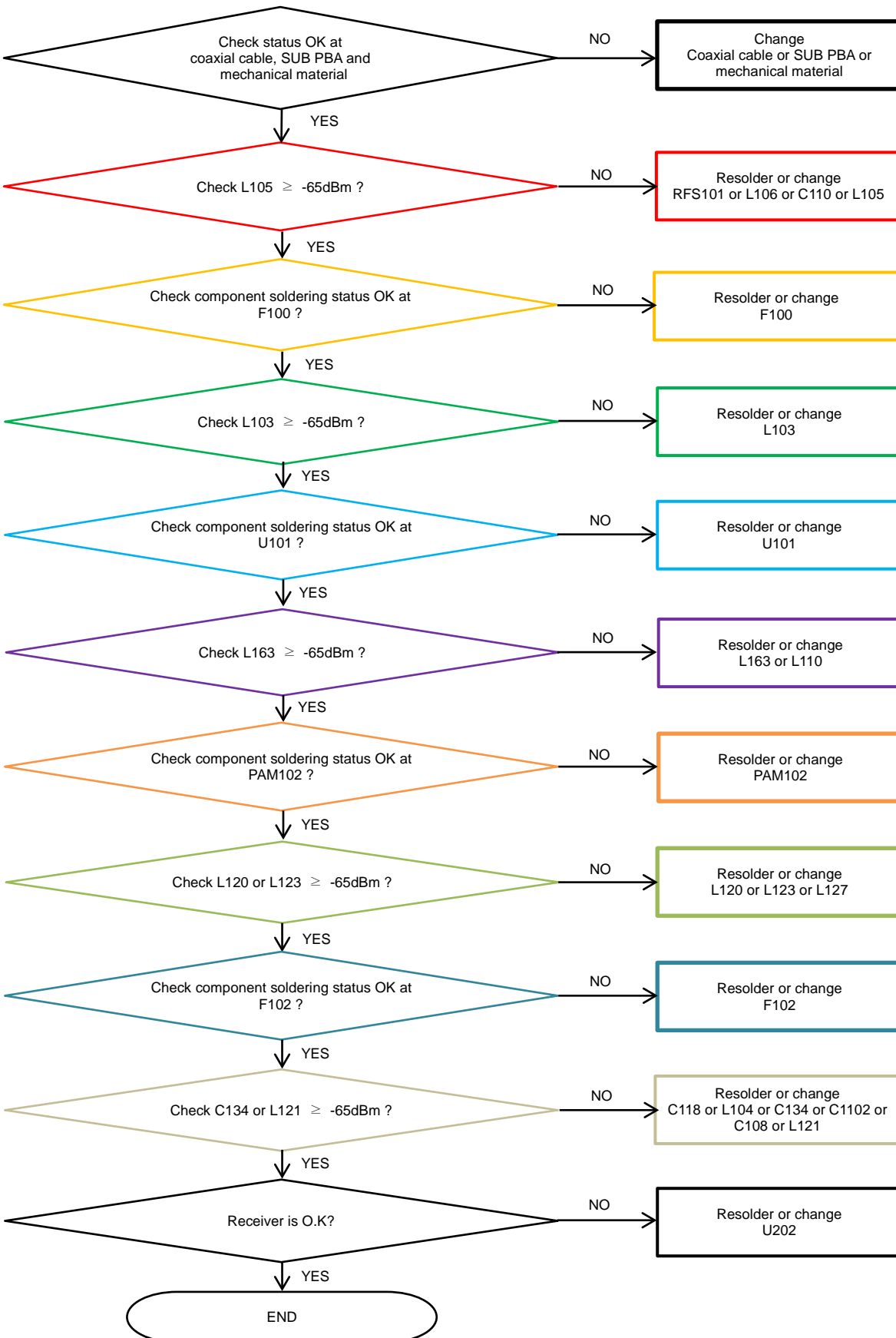
8. Level 3 Repair

8-4-23. LTE B7/40 4RxD



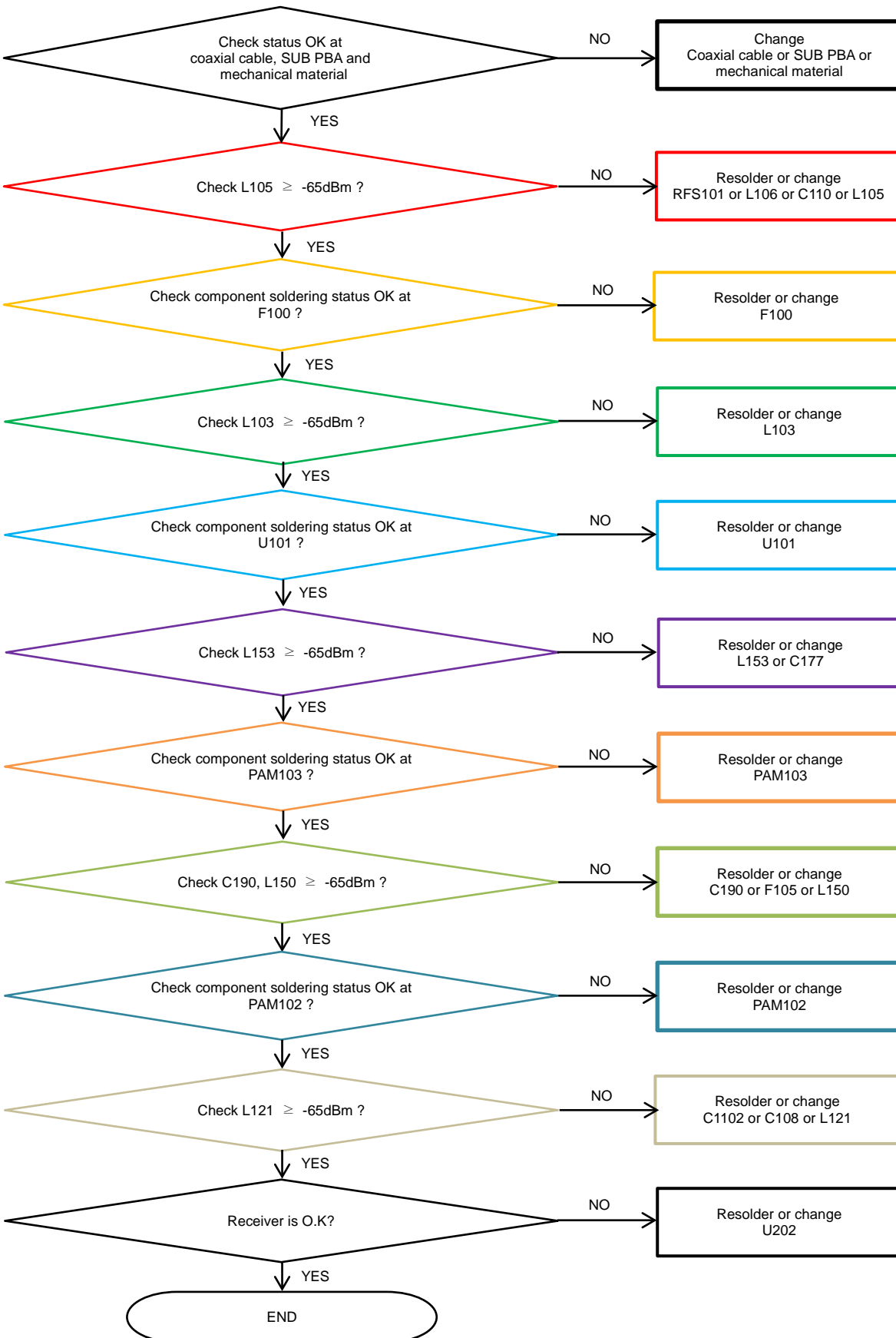
8. Level 3 Repair

8-4-24. WCDMA B1/4, TD-SCDMA B34/39, LTE B1/4/39/66 Rx



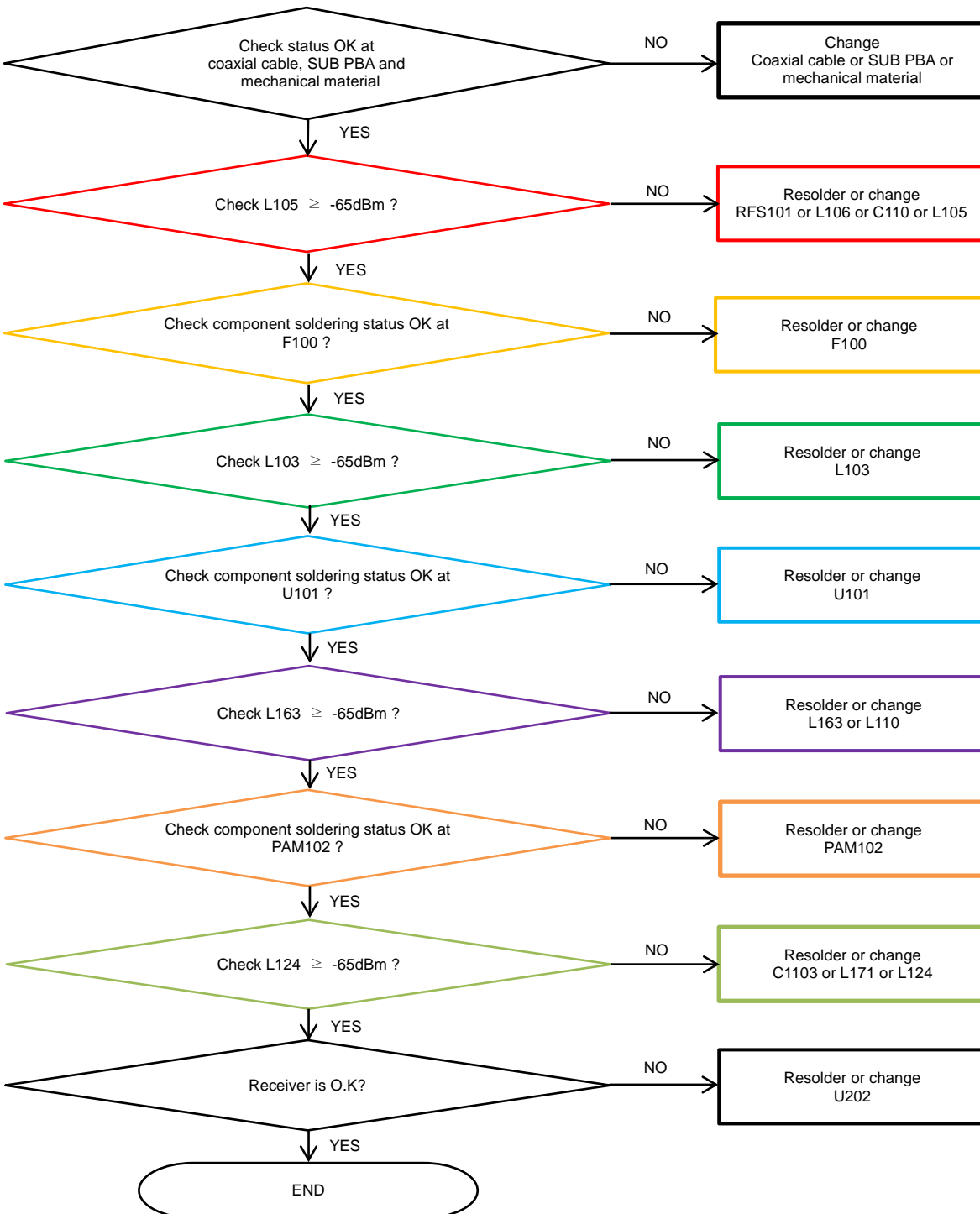
8. Level 3 Repair

8-4-25. LTE B32 Rx



8. Level 3 Repair

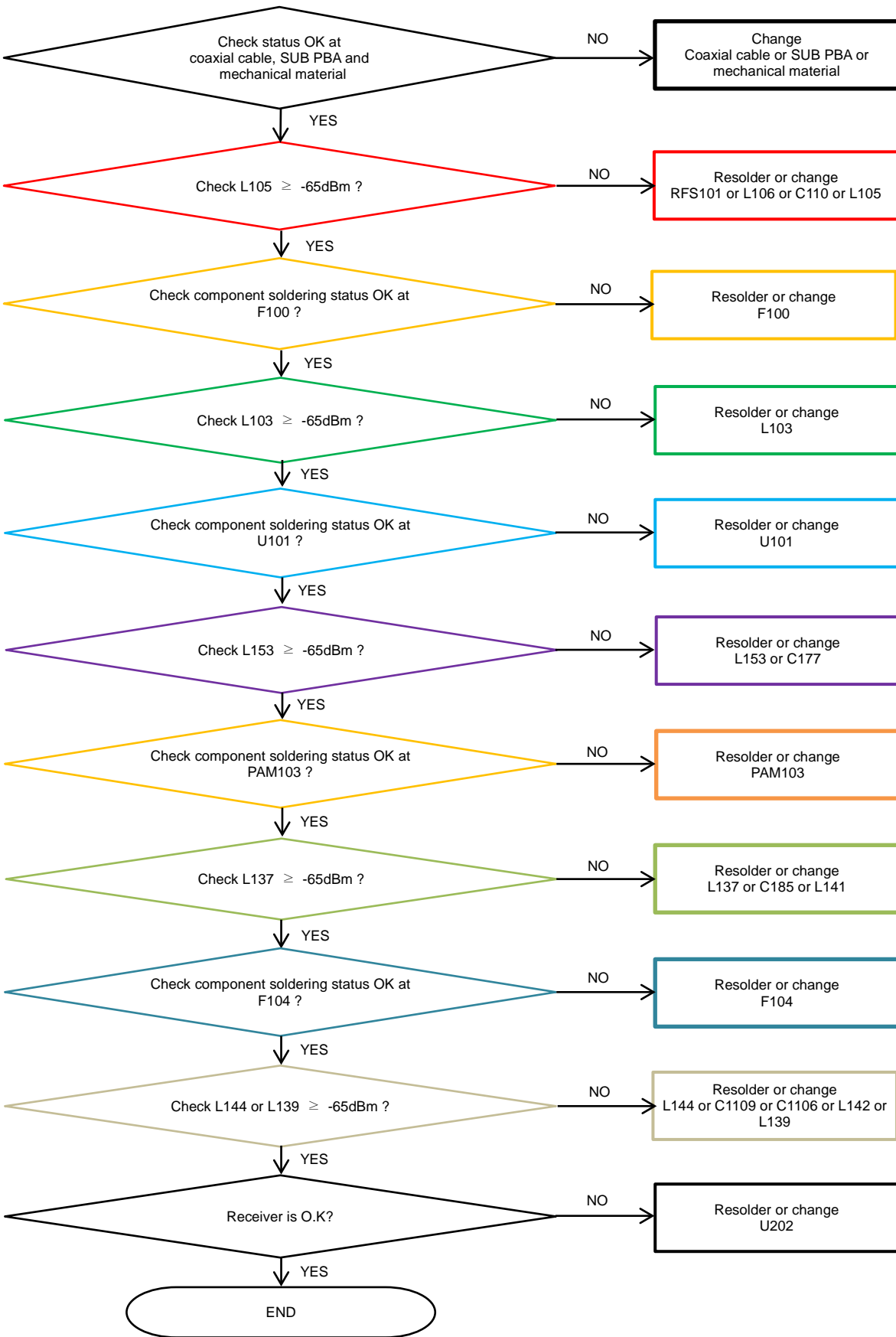
8-4-26. GSM1800/1900, WCDMA B2, LTE B2/3/25 Rx



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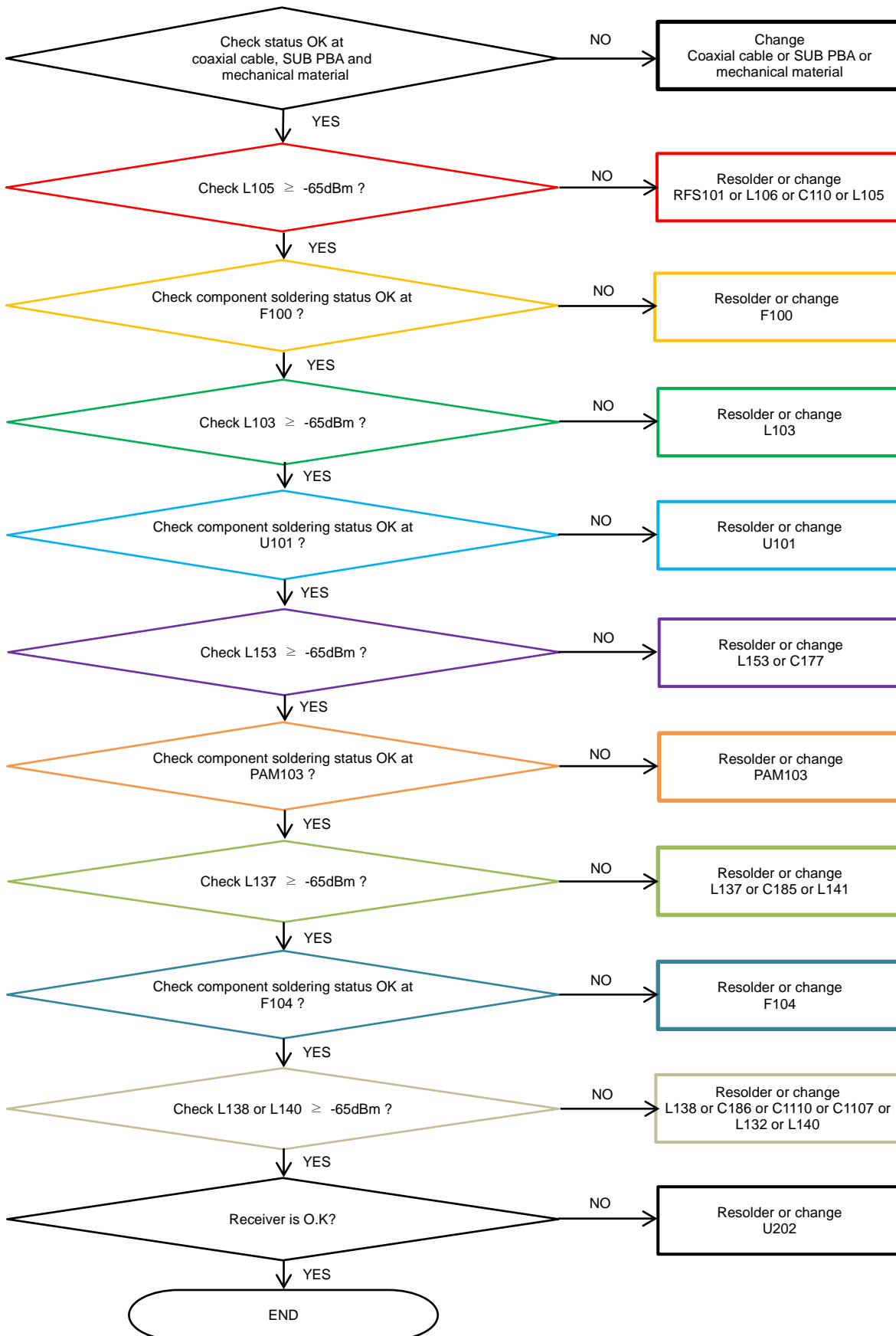
8. Level 3 Repair

8-4-27. LTE B3 4Rx D



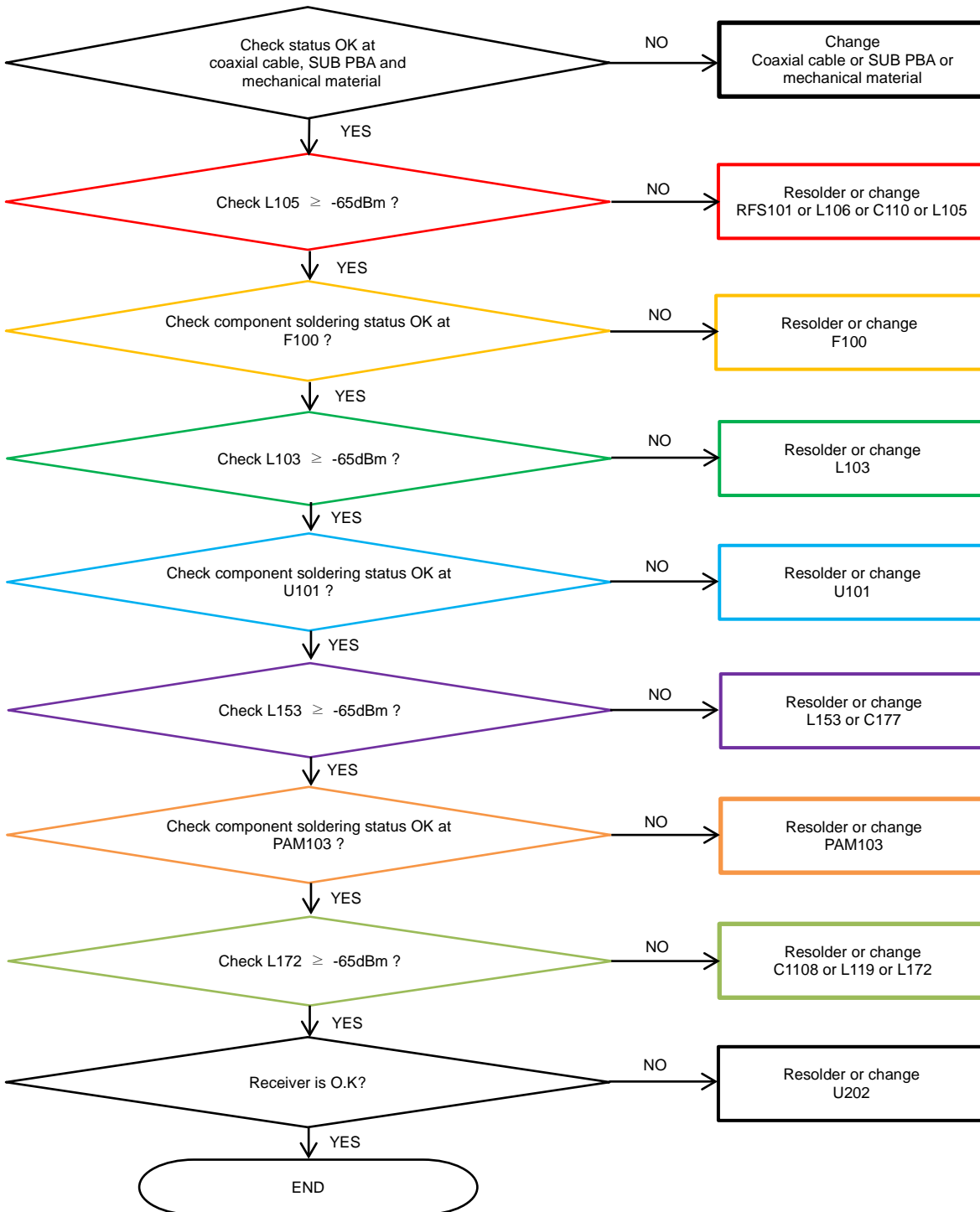
8. Level 3 Repair

8-4-28. LTE B1/4 4Rx



8. Level 3 Repair

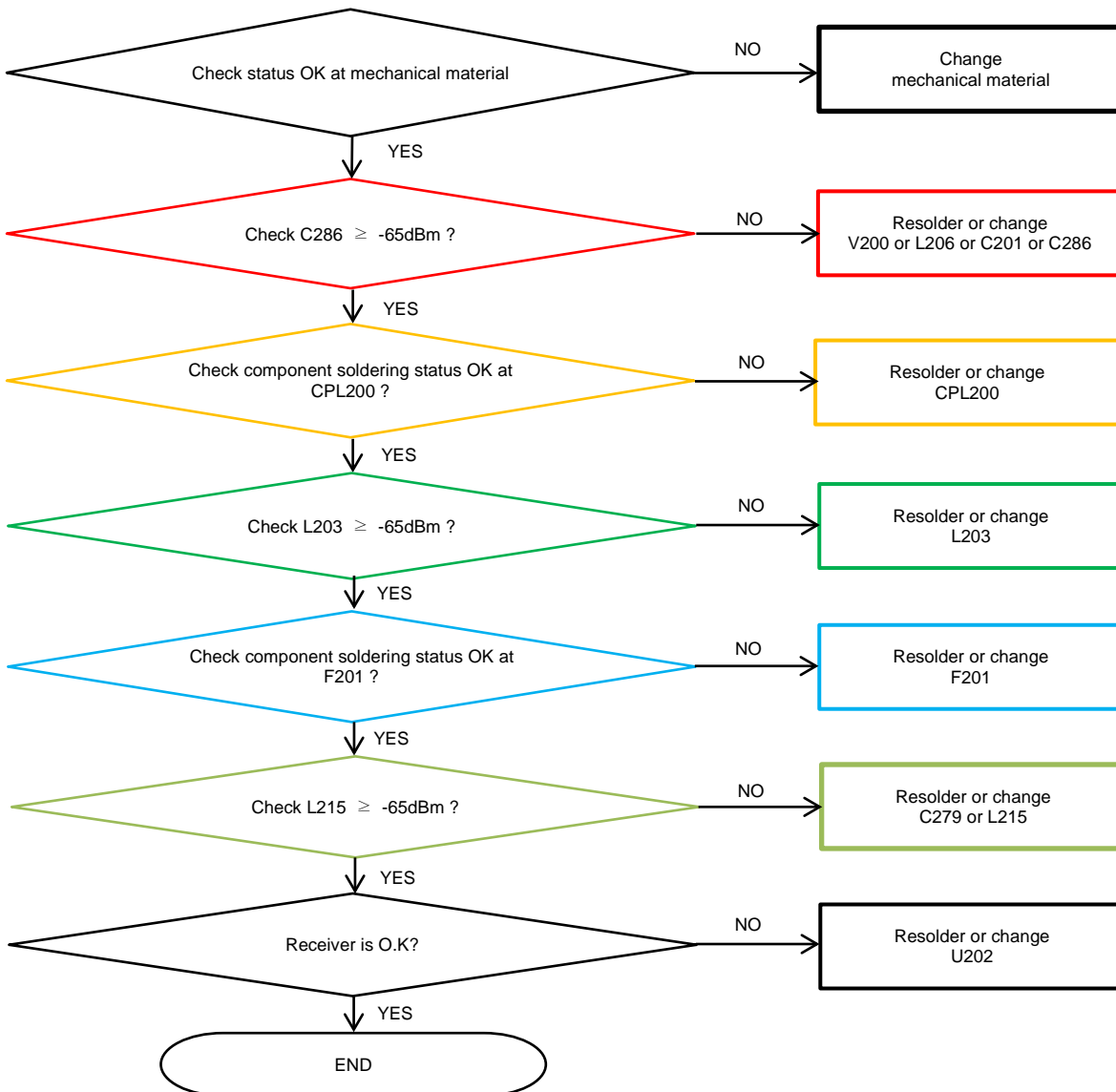
8-4-29. LTE B7/38/40/41 Rx



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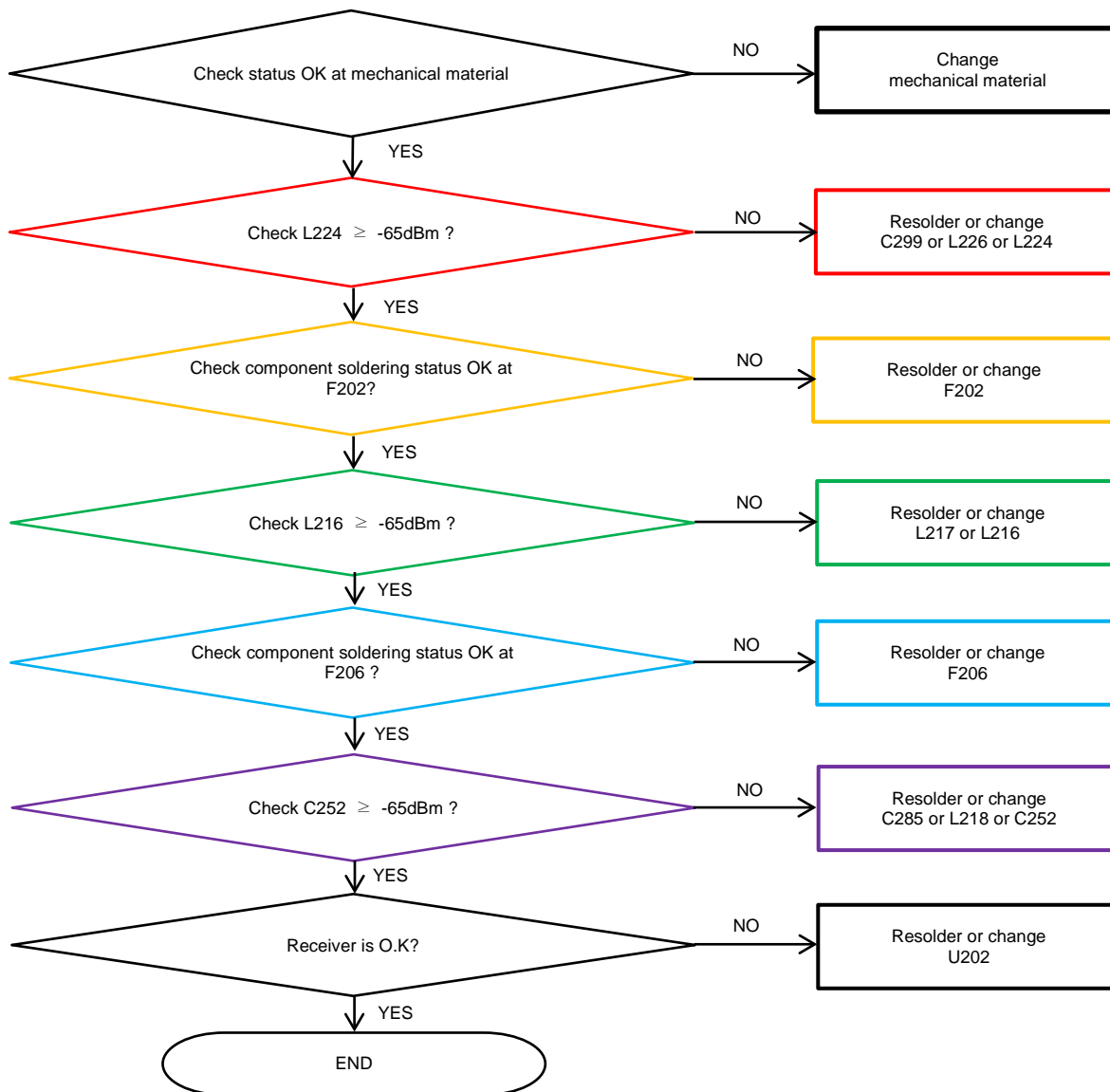
8. Level 3 Repair

8-4-30. LTE B5/8/12/13/17/18/19/20/26/28 , WCDMA B5/8 , GSM850/900 DRx



8. Level 3 Repair

8-4-31. LTE B1/4/7/38/40/41/66 , WCDMA B1/4 DRx

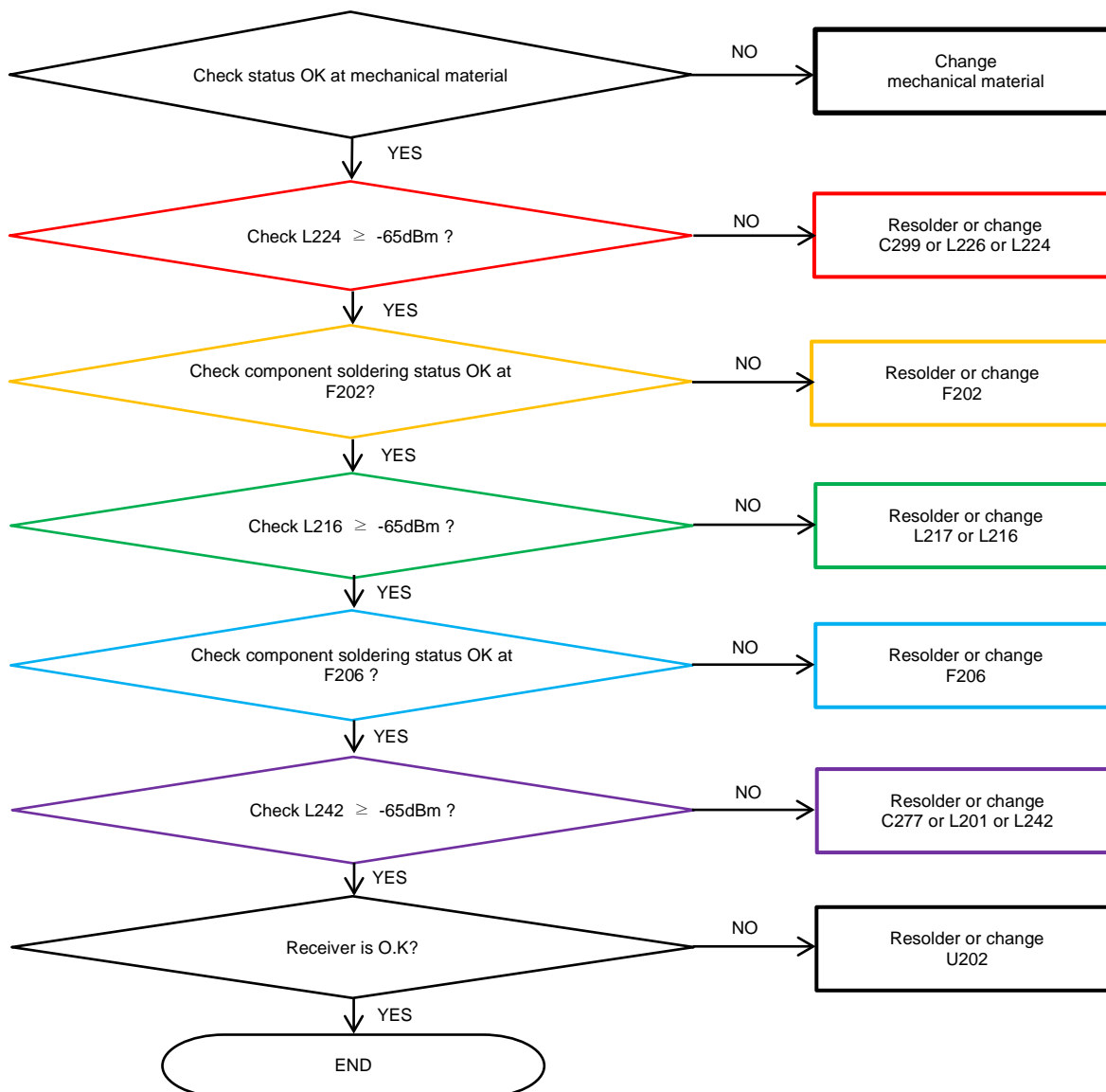


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8. Level 3 Repair

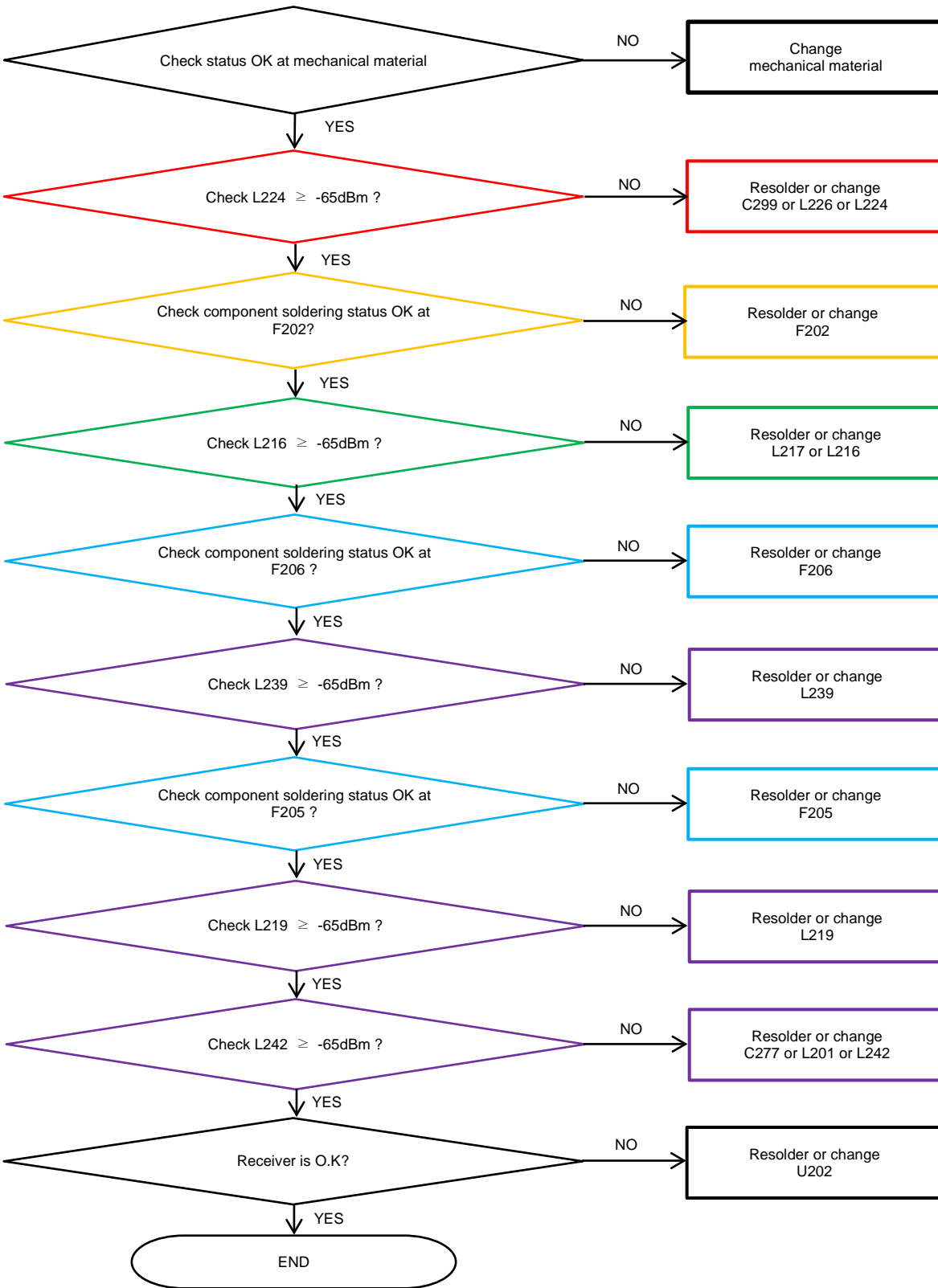
8-4-32. LTE B2/3/25 , WCDMA B2 , GSM1800/1900 DRx



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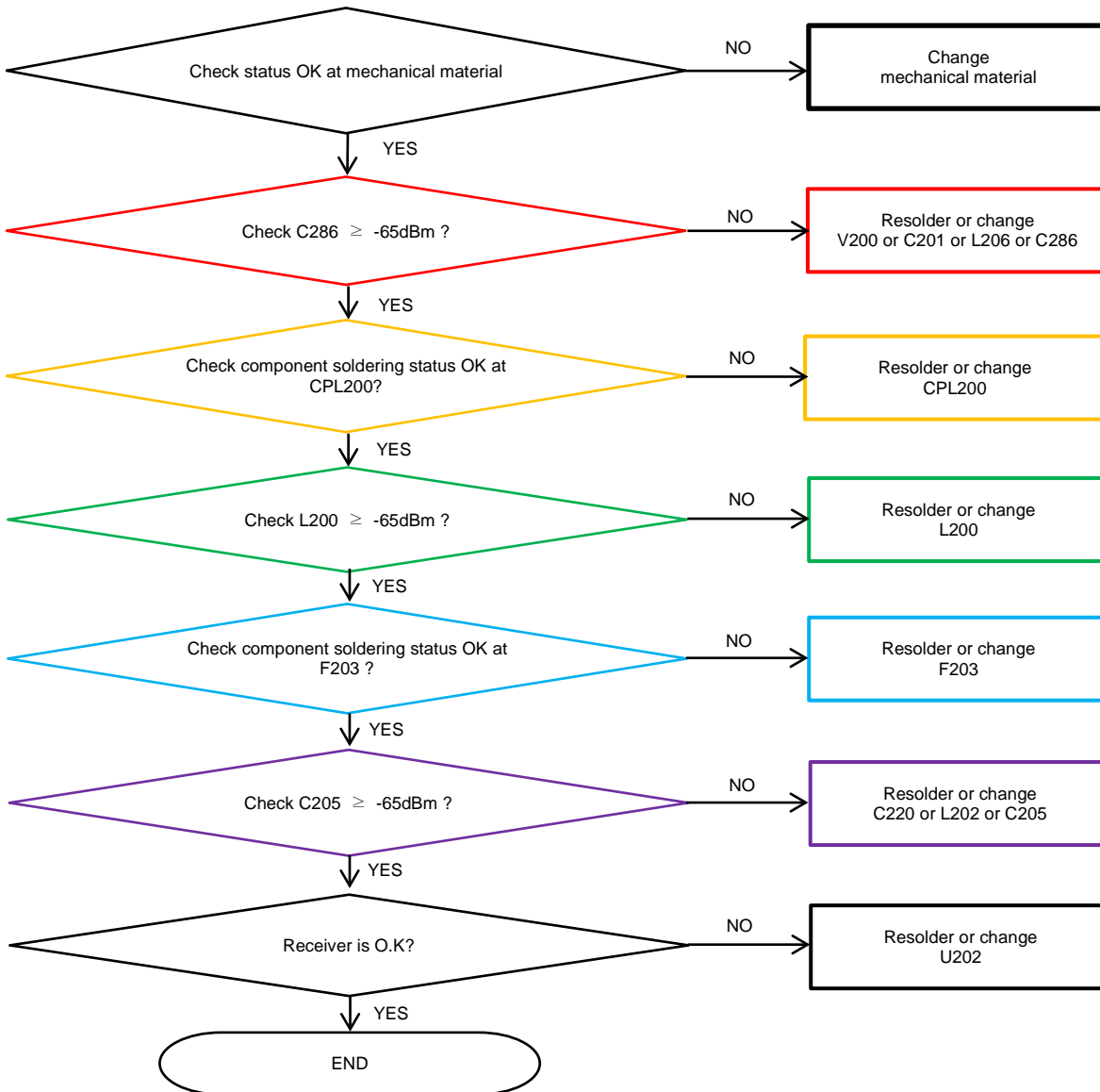
8. Level 3 Repair

8-4-33. LTE B32 DRx



8. Level 3 Repair

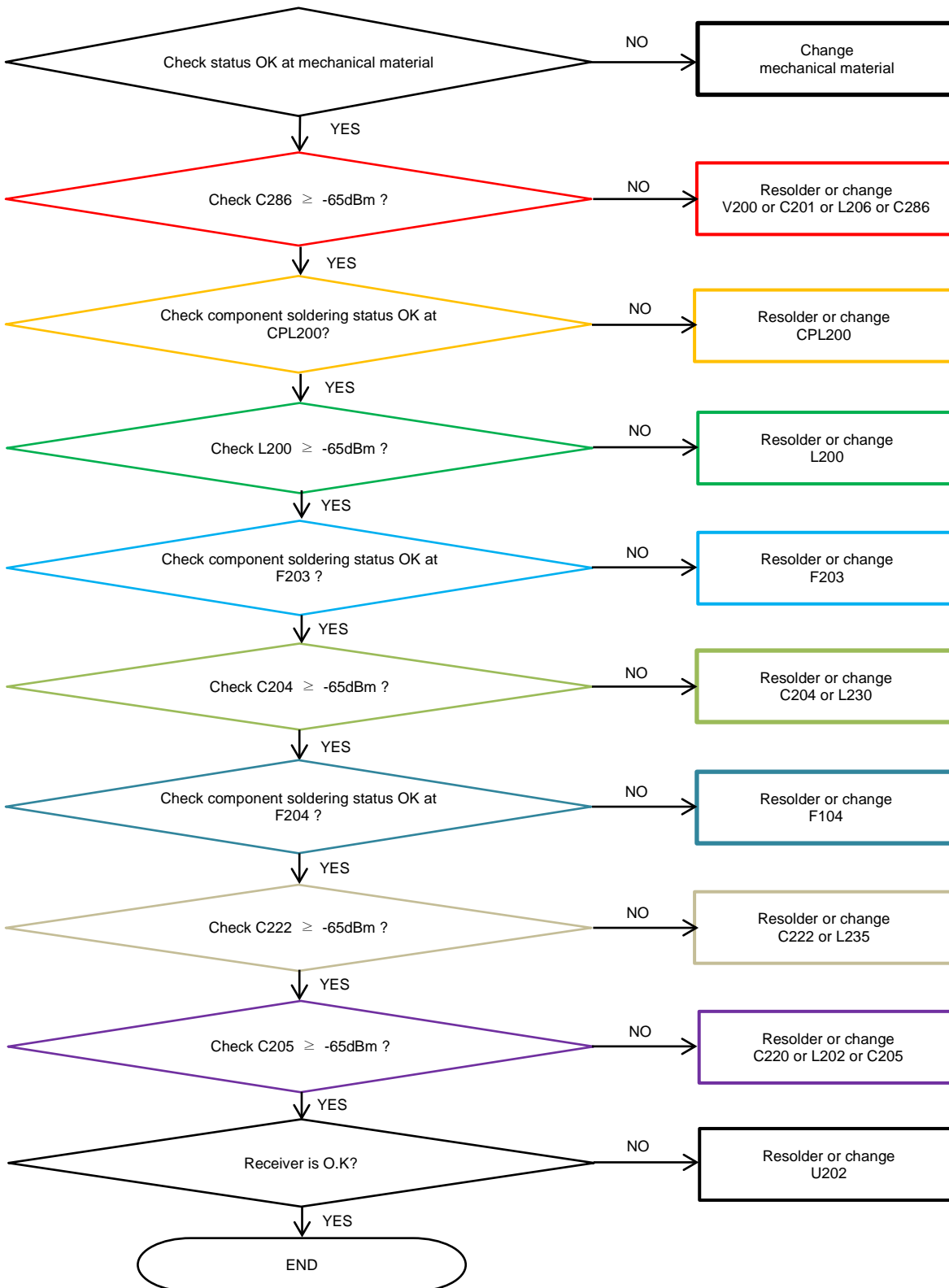
8-4-34. LTE B39 DRx , B1/4/7 4Rx(DRx2)



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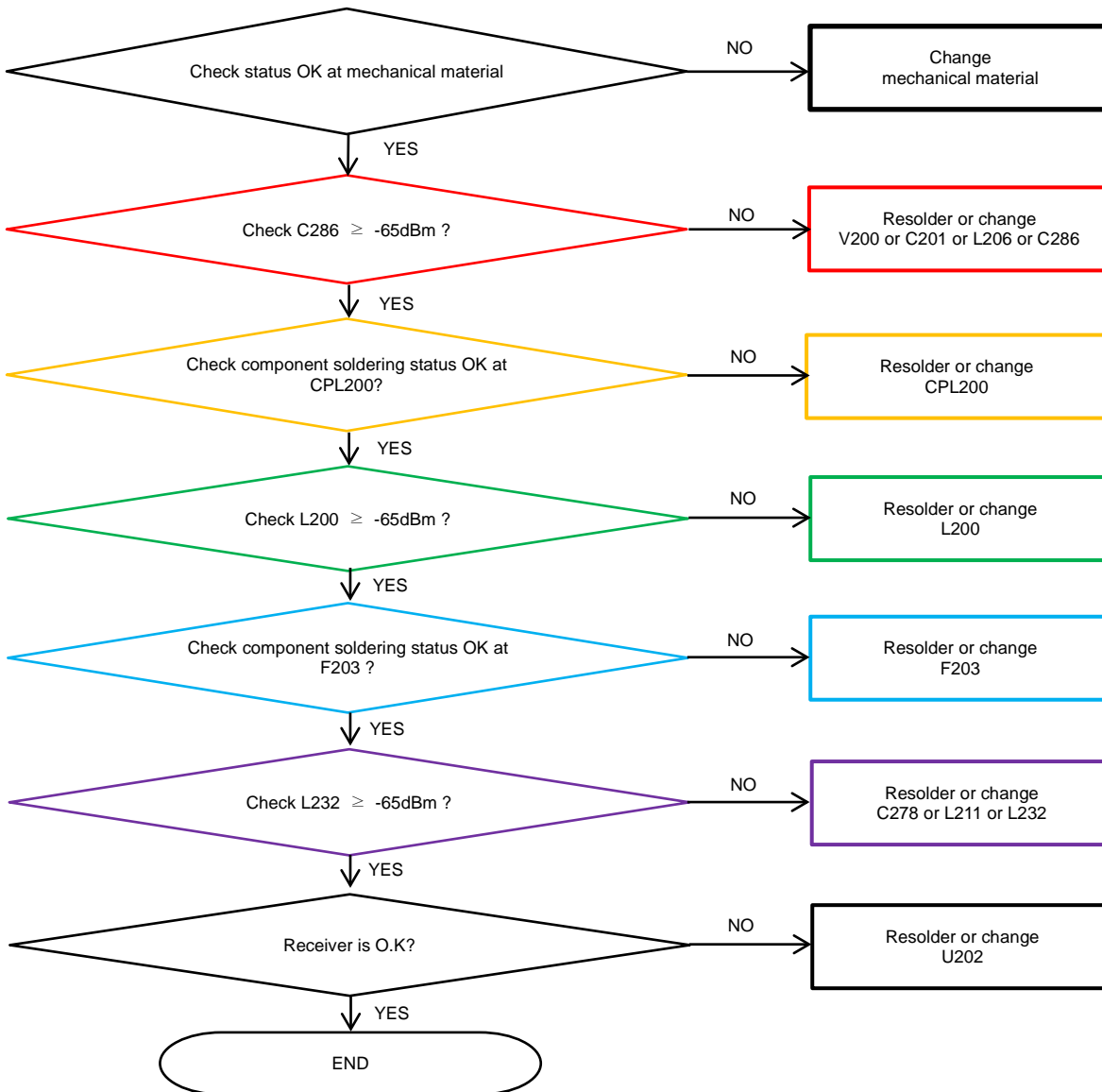
8. Level 3 Repair

8-4-35. LTE B40 4RxDRx2



8. Level 3 Repair

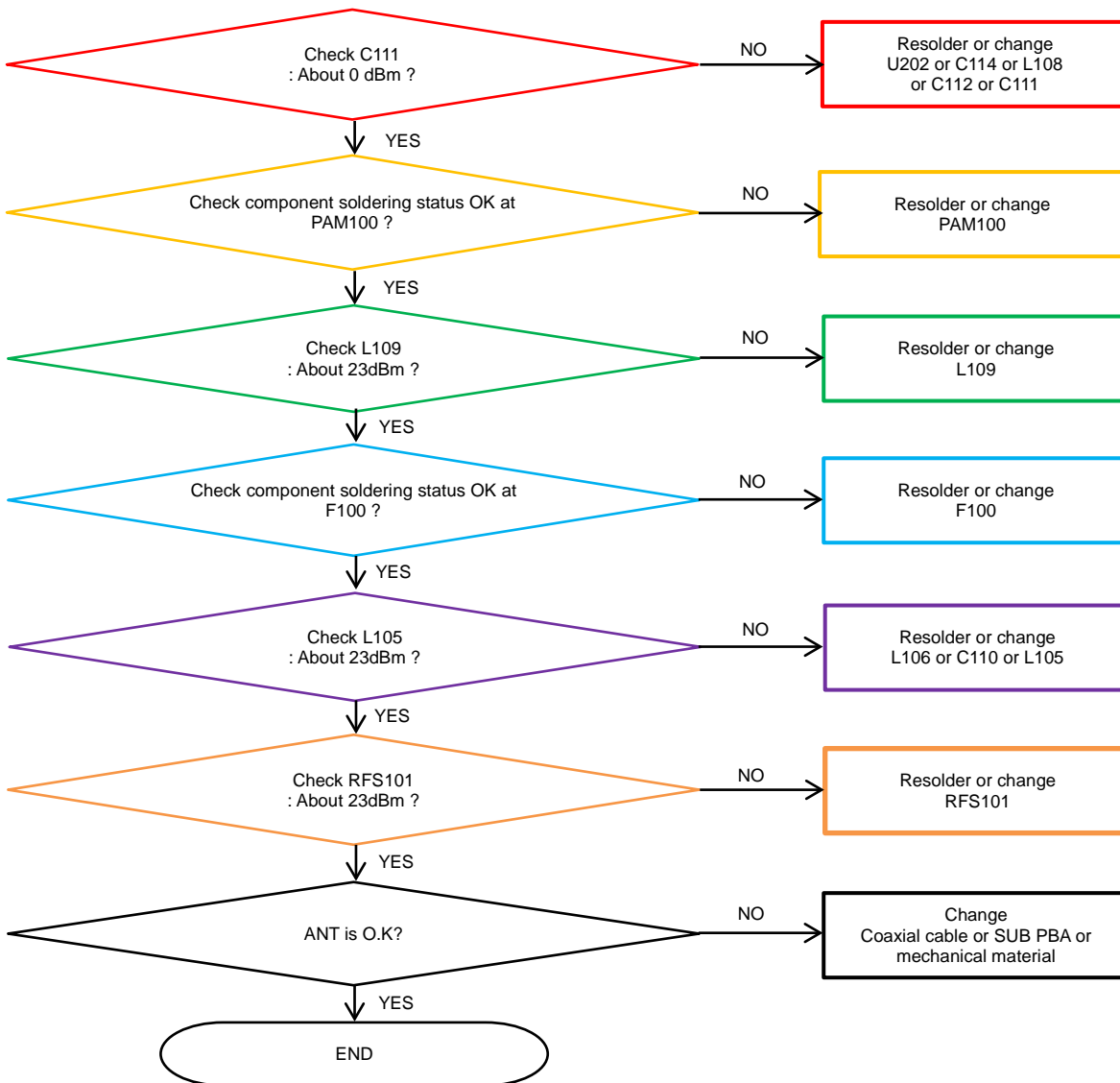
8-4-36. LTE B3 4RxDR(DRx2)



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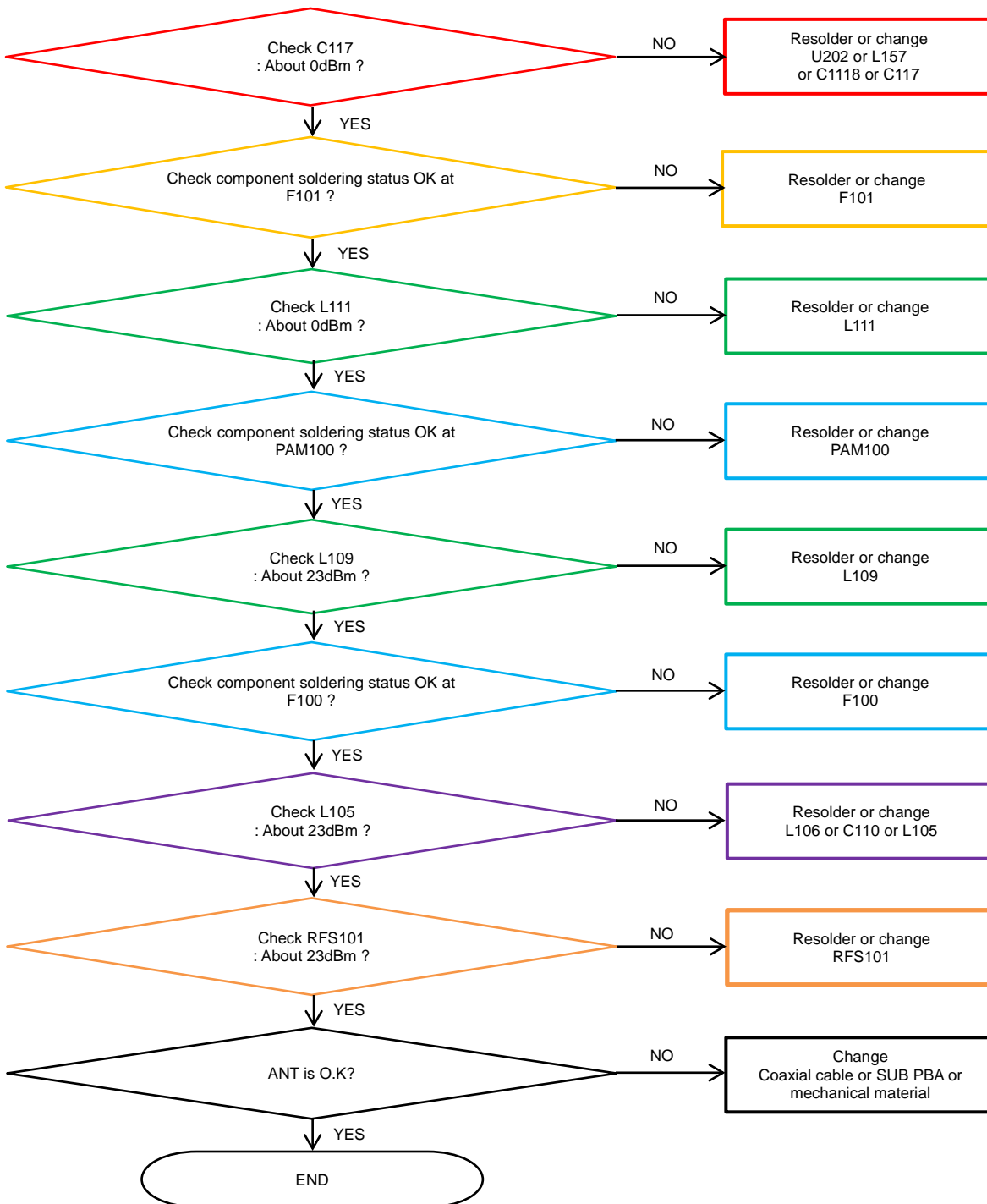
8. Level 3 Repair

8-4-37. WCDMA B5/8, LTE B5/8/12/17/18/19/20/26/28 Tx



8. Level 3 Repair

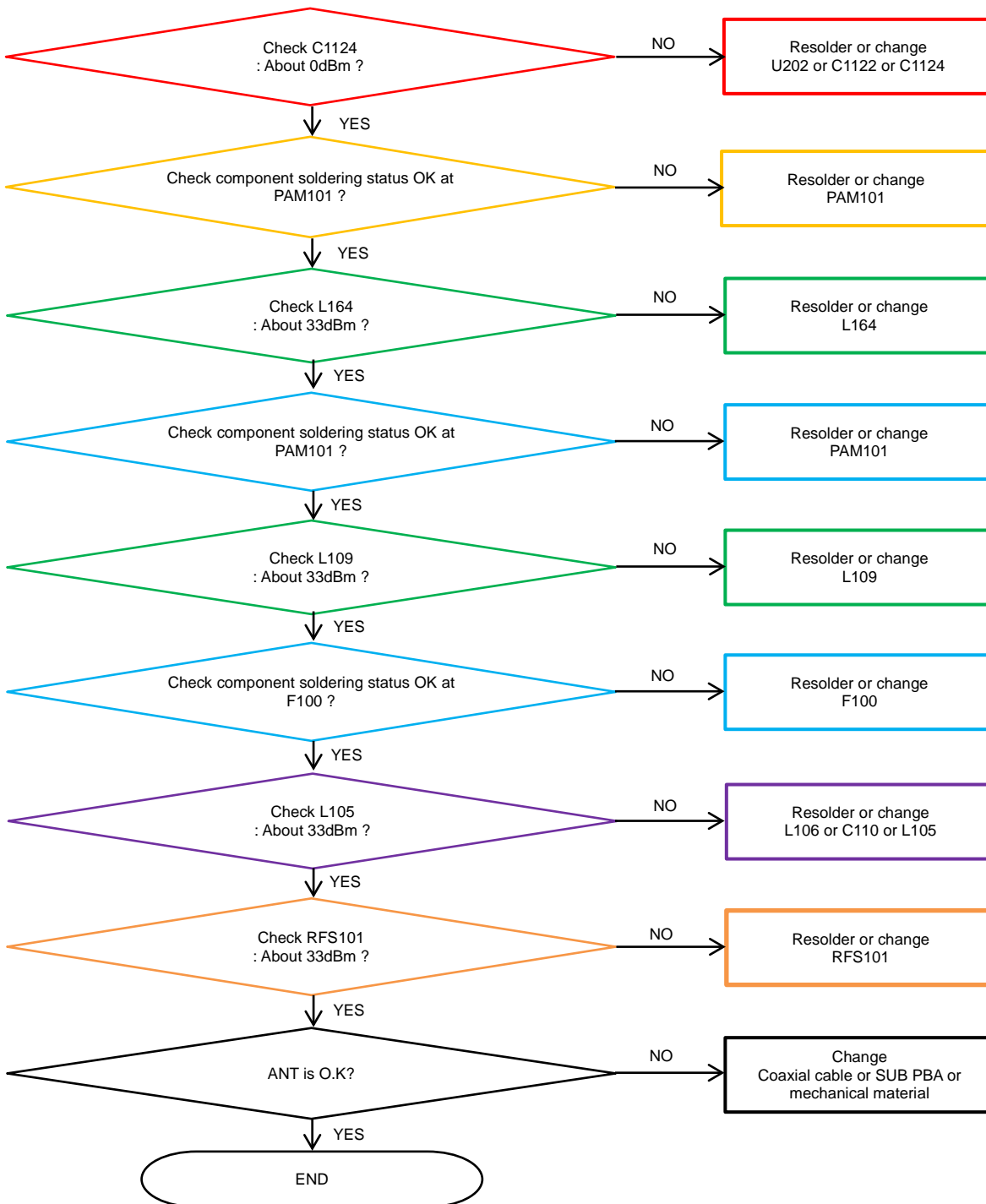
8-4-38. LTE B13 Tx



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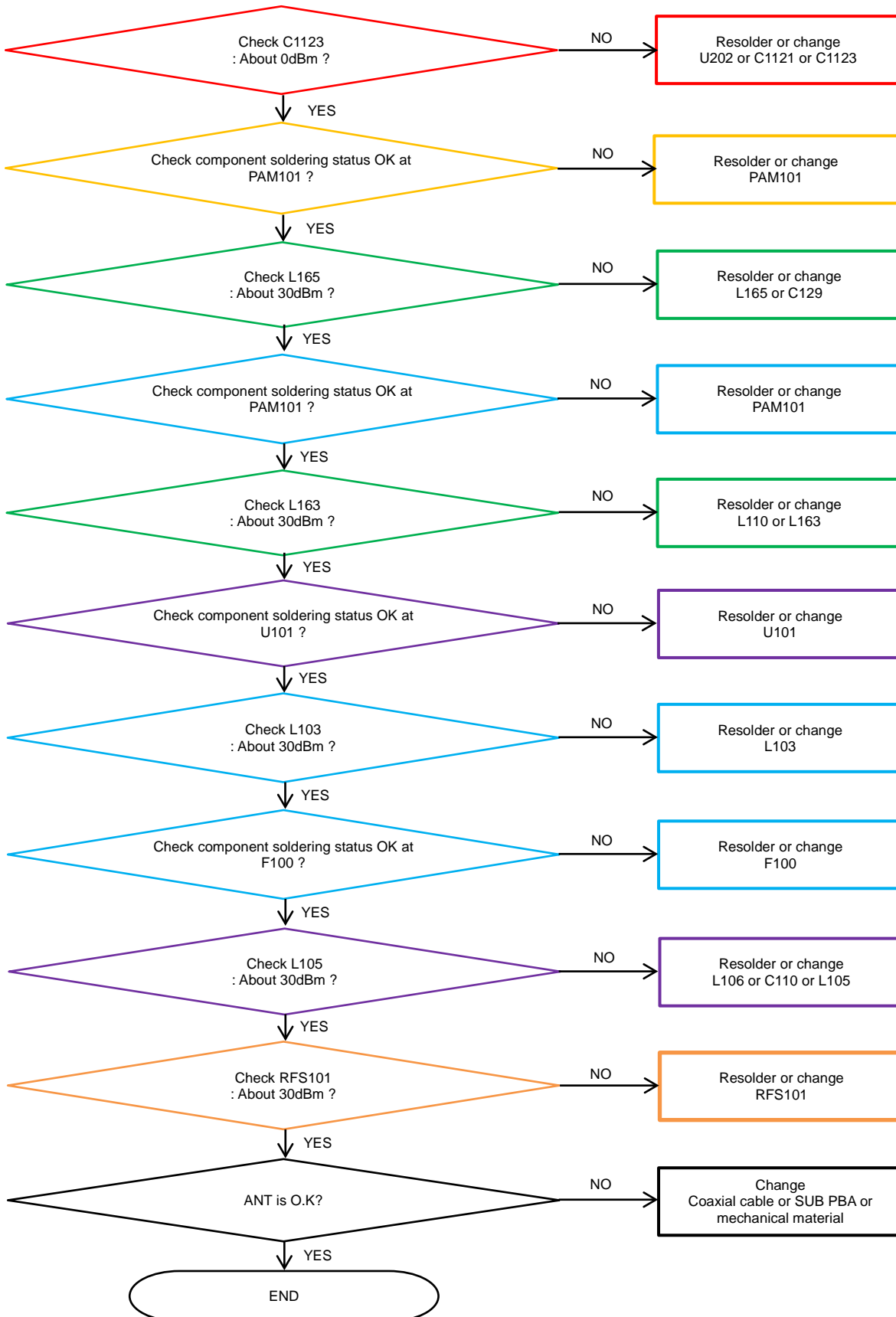
8. Level 3 Repair

8-4-39. GSM 850/900 Tx



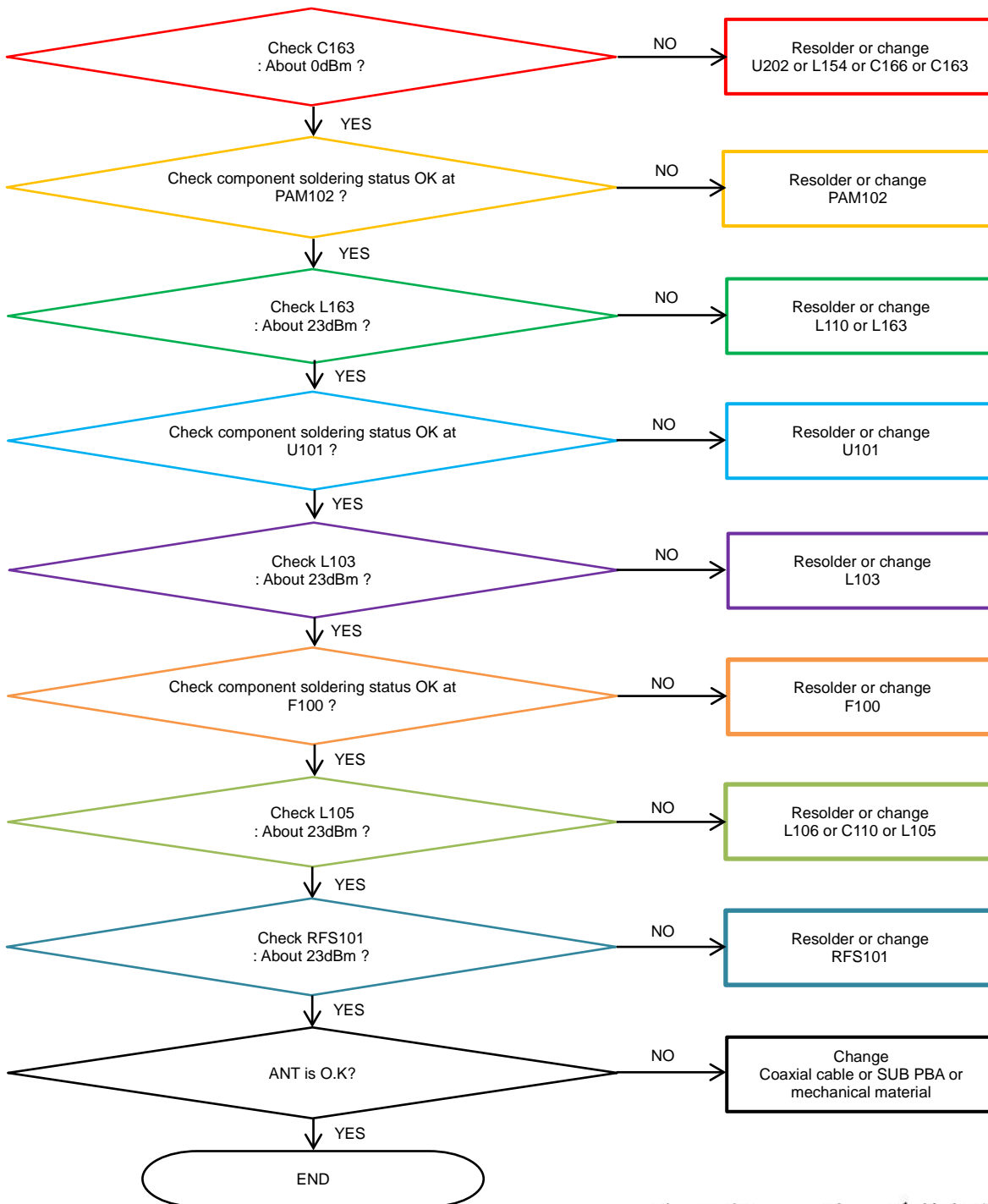
8. Level 3 Repair

8-4-40. GSM 1800/1900 Tx



8. Level 3 Repair

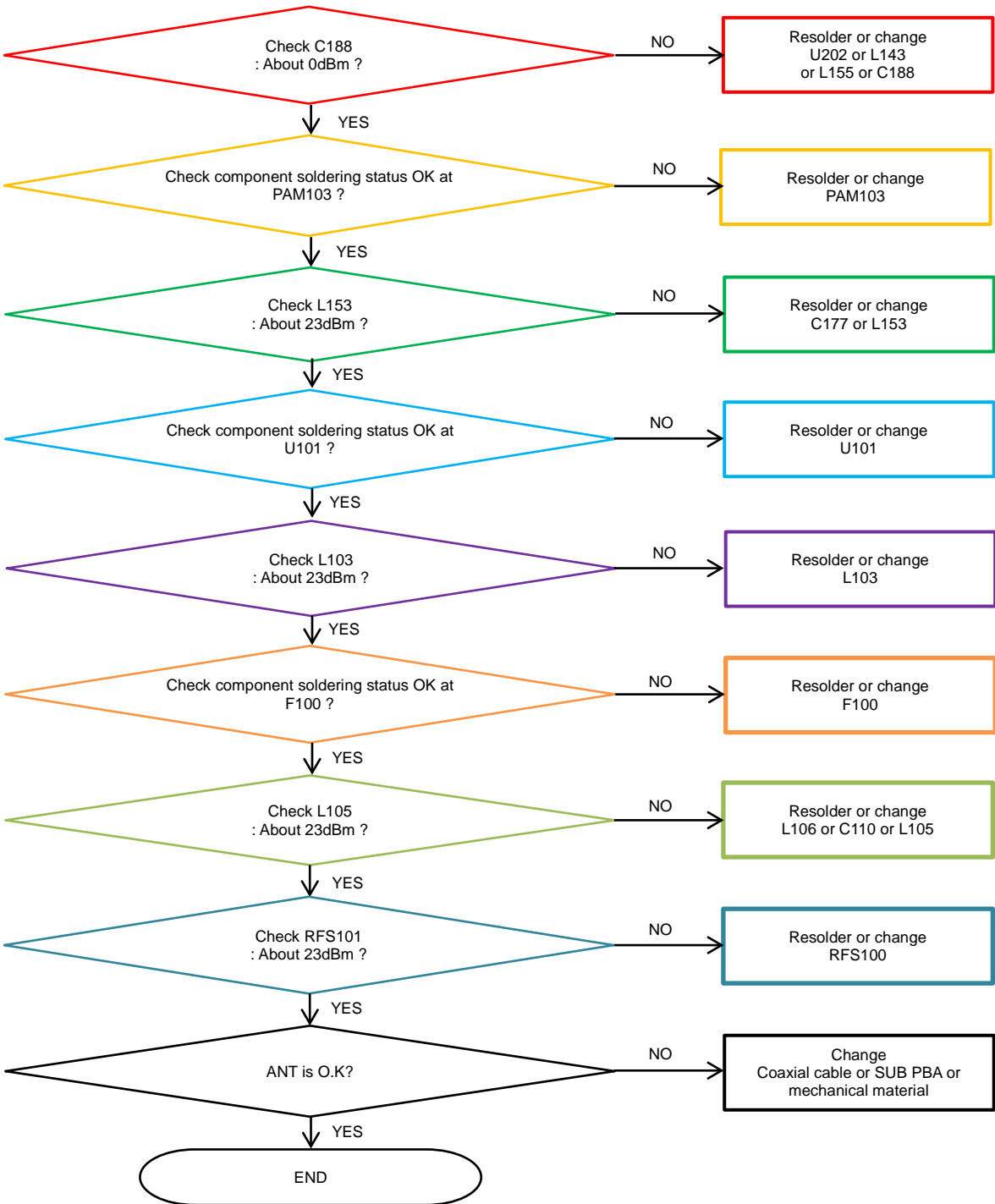
8-4-41. WCDMA B1/2/4, TD-SCDMA B34/39, LTE B1/2/3/4/25/39 Tx



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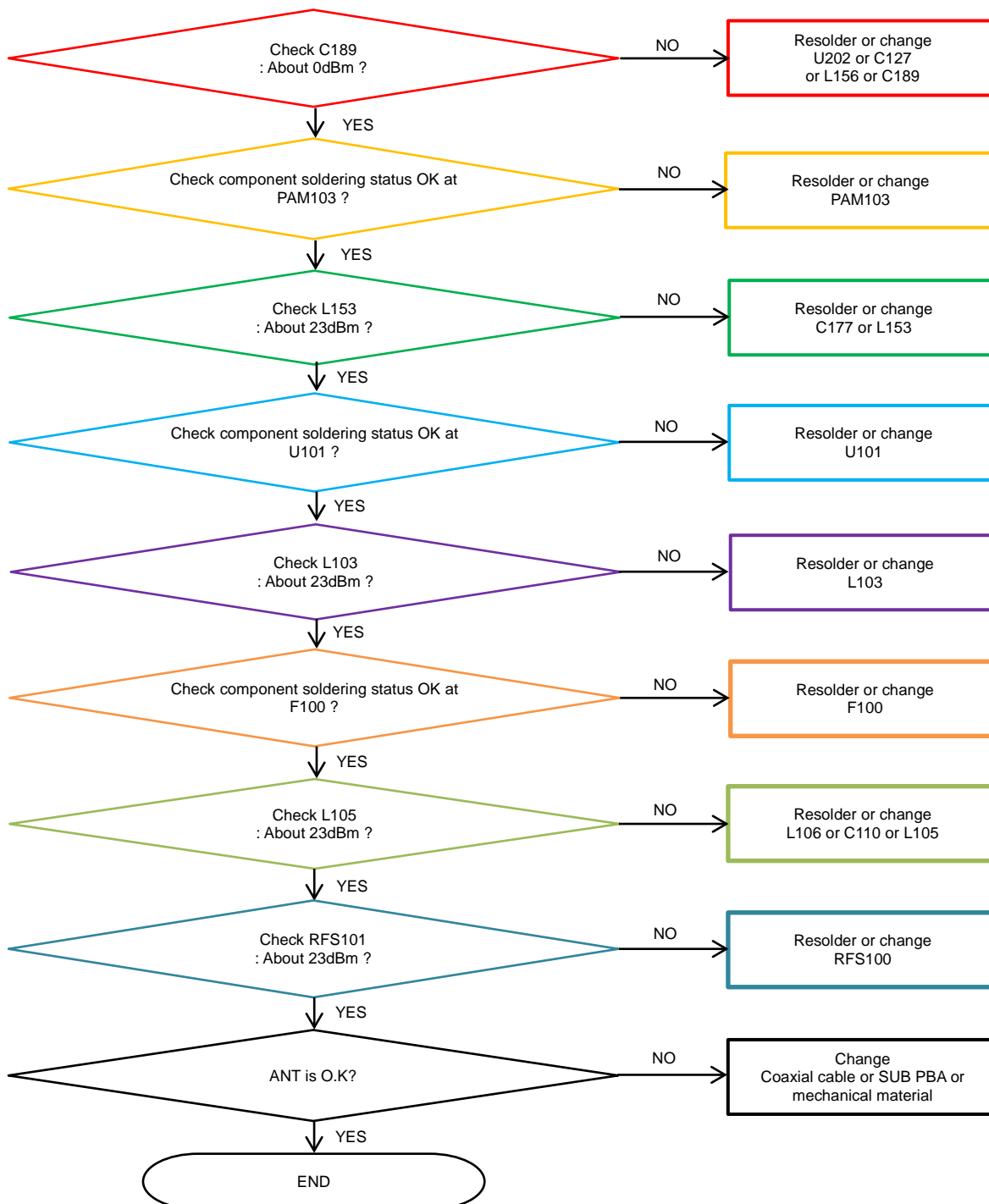
8. Level 3 Repair

8-4-42. LTE B7 Tx



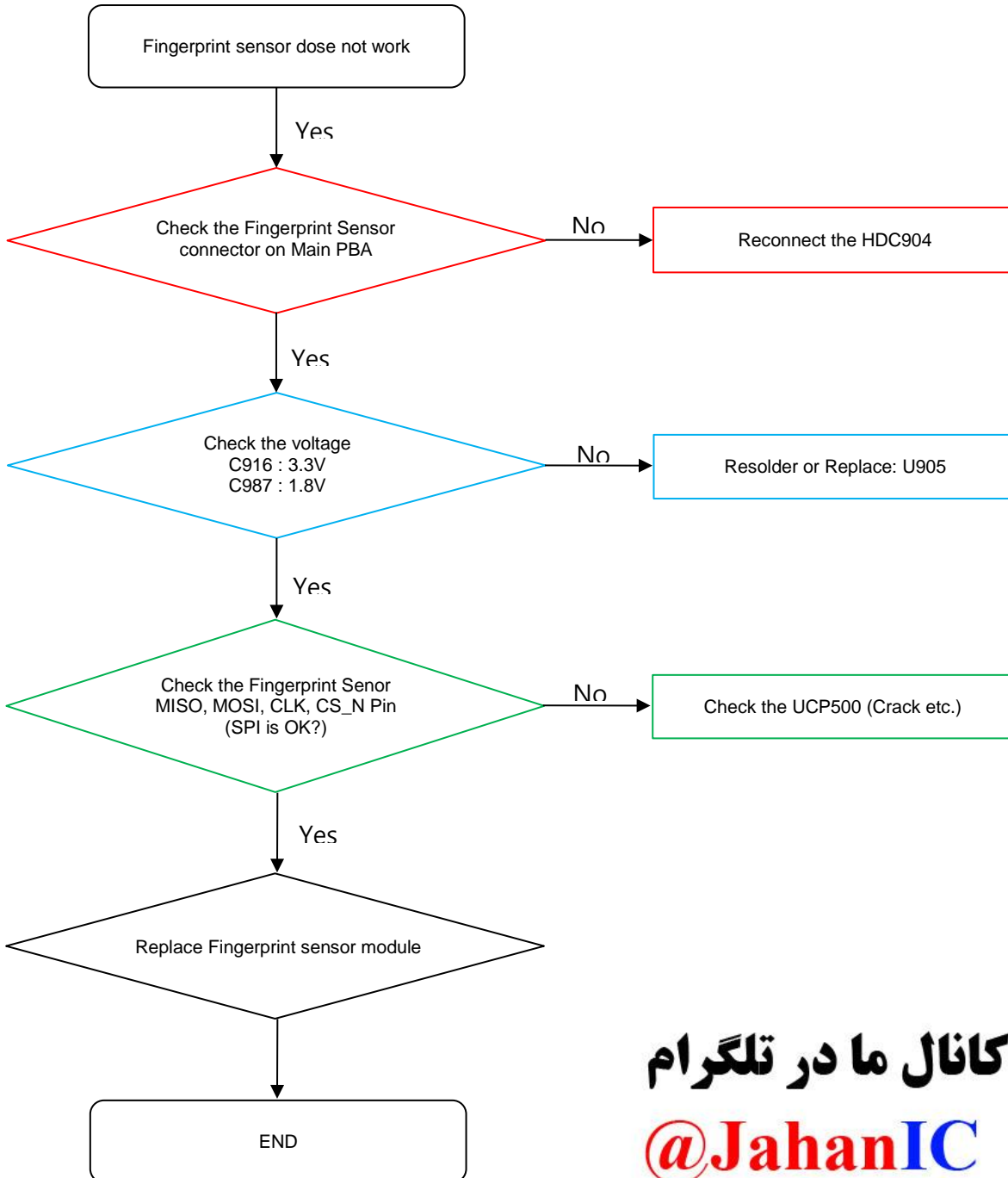
8. Level 3 Repair

8-4-43. LTE B38/40/41 Tx



8. Level 3 Repair

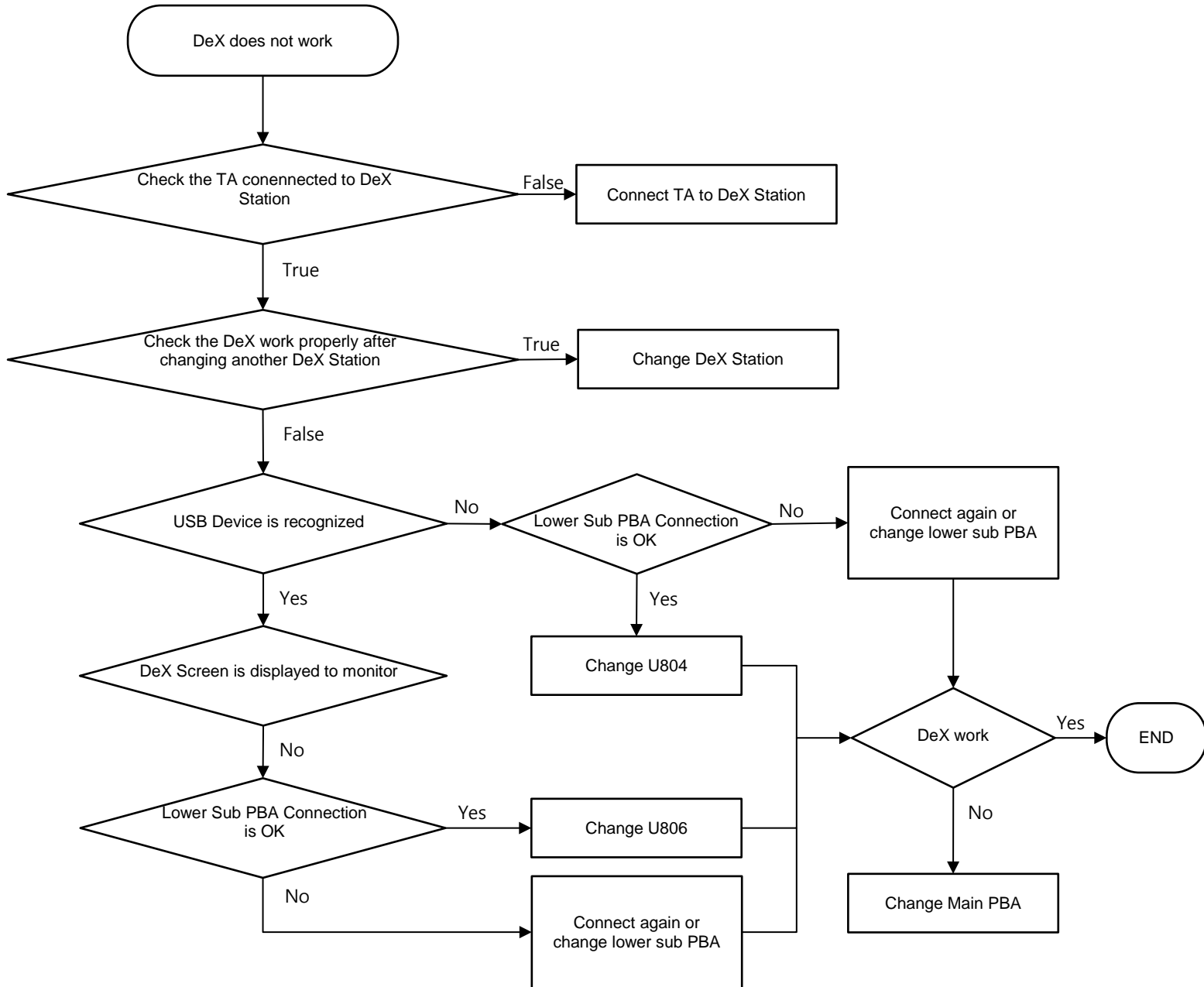
8-4-44. Fingerprint Sensor



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8. Level 3 Repair

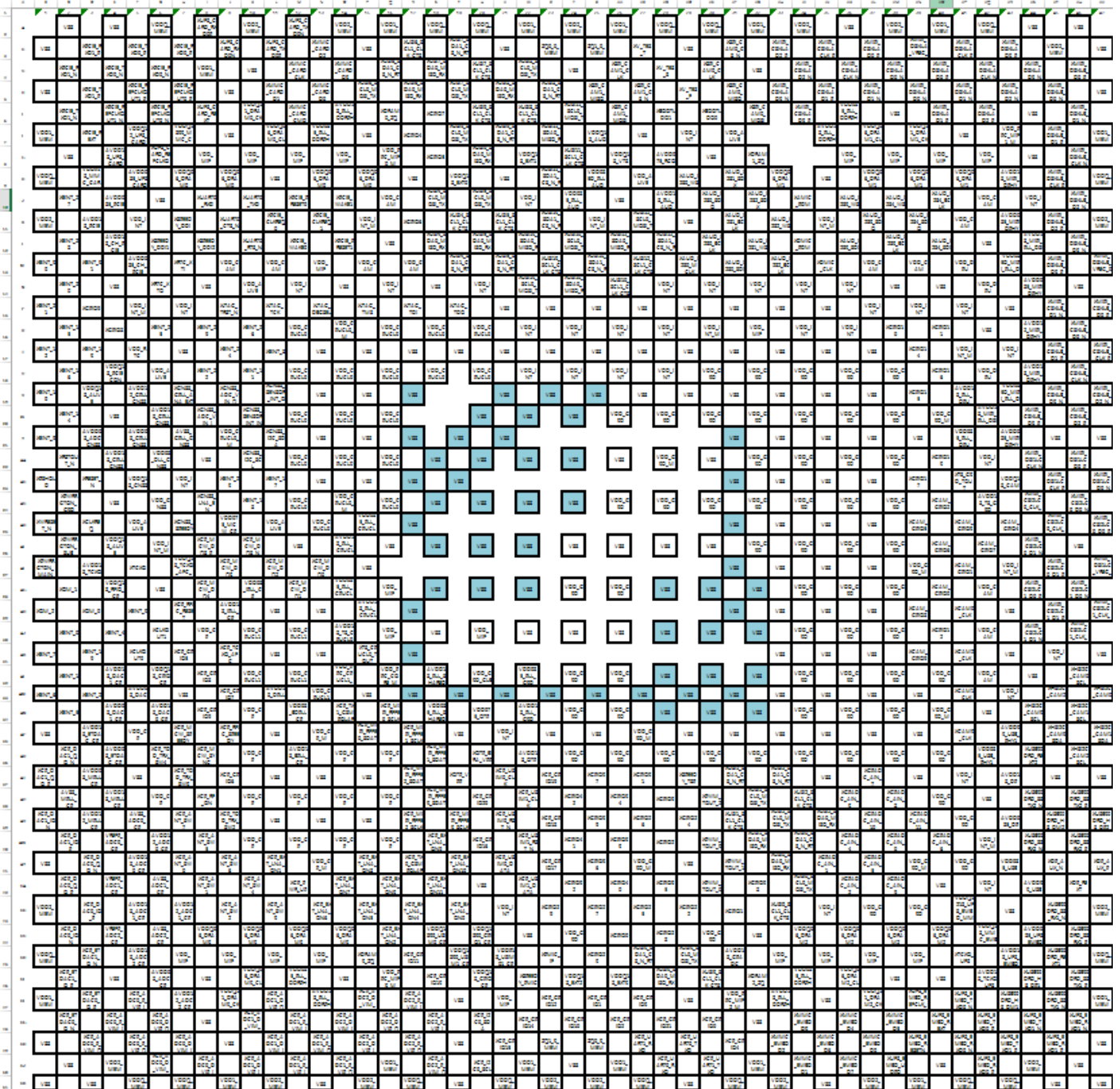
8-4-45. DeX Station



8. Level 3 Repair

8-5. Service Schematics

- NC Point(Top View)



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