

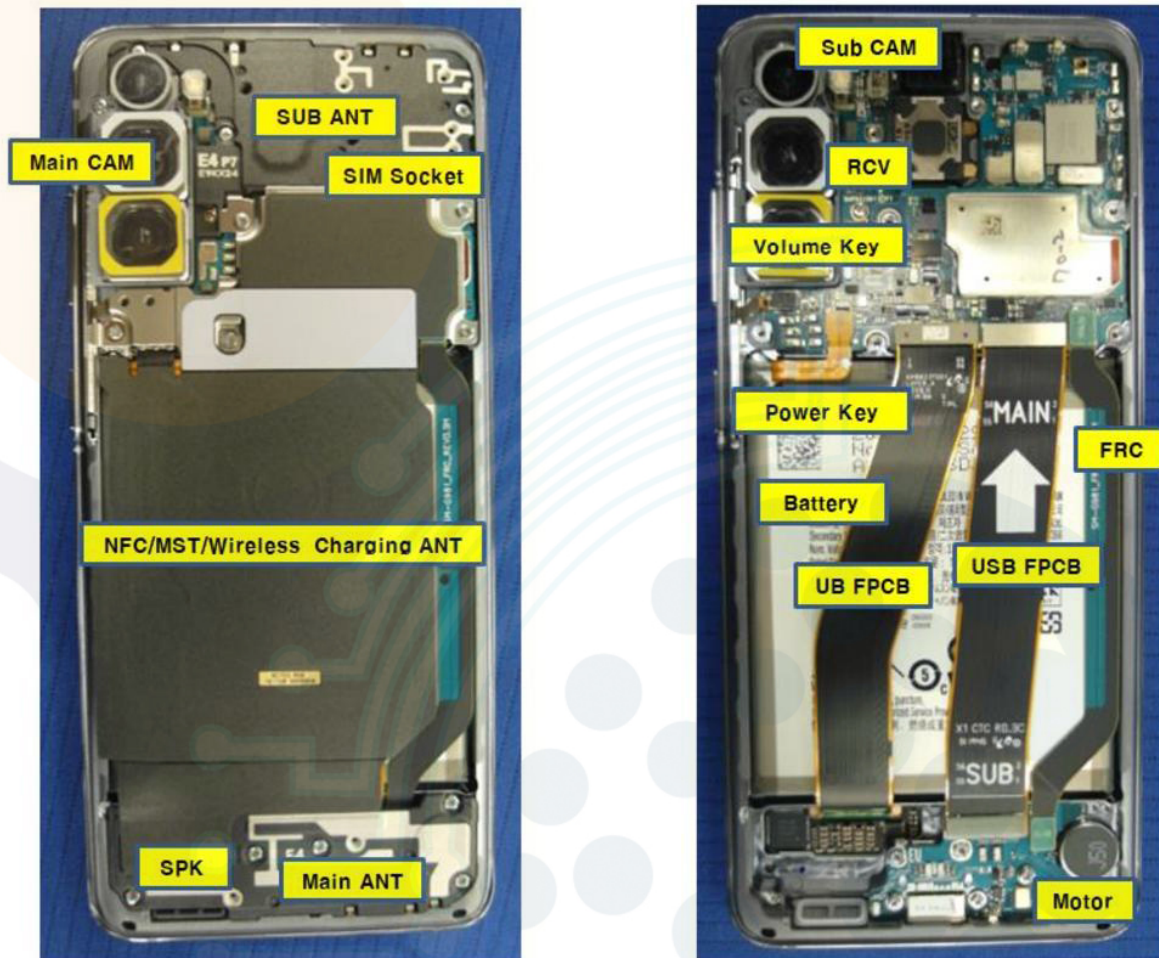
سرویس منوآل ، کالبدشکافی و شماتیک

گوشی سامسونگ s20



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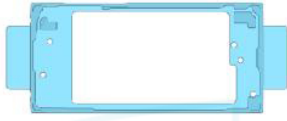


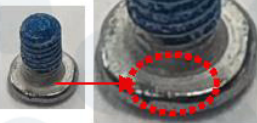
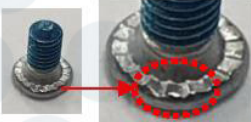
سرویس منوال گوشی S20



تهیه شده در مجموعه جهان ای سی

	
<p>Tweezers / Disass'y Stick / Screw Driver</p>	<p>Anti-static Gloves</p>
	
<p>Anti-static Mat</p>	<p>AOD</p>
	
<p>Ethyl Alcohol</p>	<p>Cotton Swab</p>

تهیه شده در مجموعه جهان ای سی

BOM description & part code	KIT Code	Image	Remarks
Backglass Outside tape [GH81-17257A]	GH82-20799A		Left items must be changed to the new one in case of disassemble the Back glass
Cam sealing tape [GH81-17296A]			
Mic sealing tap [GH02-07406A]			
Screws for PBA [6001-003360] 3.2mm Blue resin			
Screws for rear case [6001-003373] 3.5mm Blue resin			

تهیه شده در مجموعه جهان ای سی

1

1) Put the device in the AOD jig. Set the AOD condition
- SOC 68%↓: Upper 70°C/ Lower 60 °C 5min
- SOC 68%↑: Upper 60°C/ Lower 60 °C 5min
2) Disassemble the OCTA using the AOD.
(If use alcohol, happen window bubble effect).



2

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



※ Caution
Be care of scratch.

※ Caution
Be care of scratch.

3

Unscrew 15 Point and disassemble SIM Tray from device.



※ Caution
Be care of Rear damage.

4

Disassemble Rear mid ASSY.

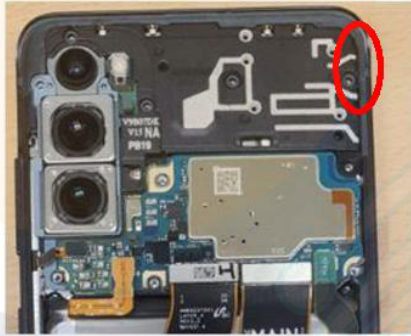


※ Caution
1) Be care of scratch.
2) Be care of Rear.

تهیه شده در مجموعه جهان ای سی

5

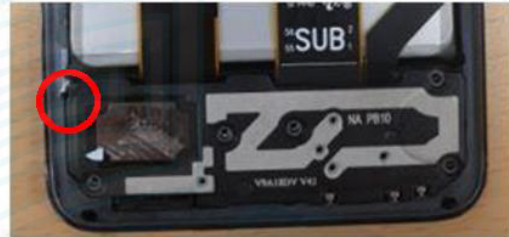
Disassemble Rear of top side.
(Use disassemble hole right side of Rear to detach it)



Rear Top disassemble hole.

6

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



Rear Bottom disassemble hole.

※ Caution

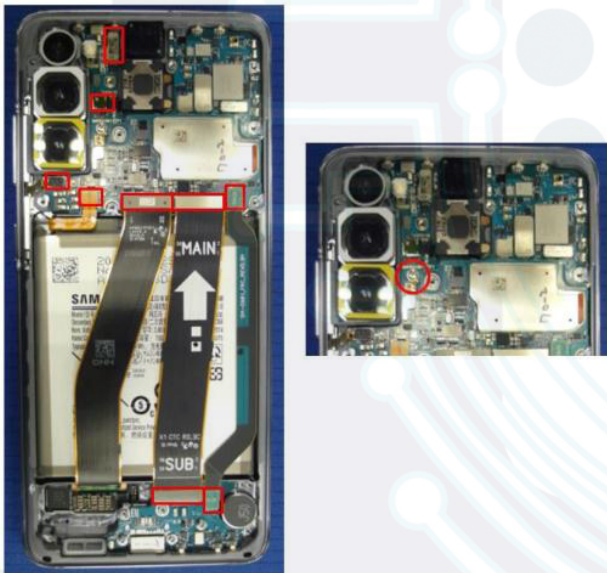
- 1) Be care of scratch.
- 2) Be care of Rear and connector damage.
- 3) Be careful not to damage the PBA.

※ Caution

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

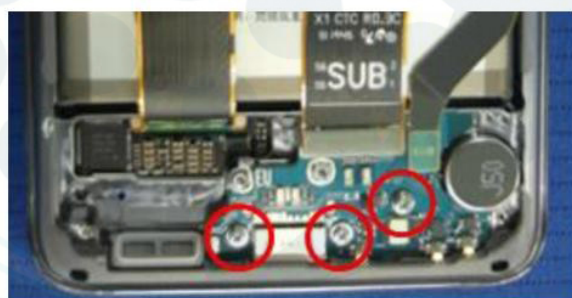
7

Disassemble 9 Point connector of PBA.
And unscrew 1 Point screw of Main PBA



8

Unscrew 3 Point in SUB PBA 3 Point



※ Caution

- 1) Be care of scratch.
- 2) Be care of connector/cable damage.

※ Caution

- 1) Be care of several kinds of damage.
- 2) Be care of SUB PBA damage.

تهیه شده در مجموعه جهان ای سی

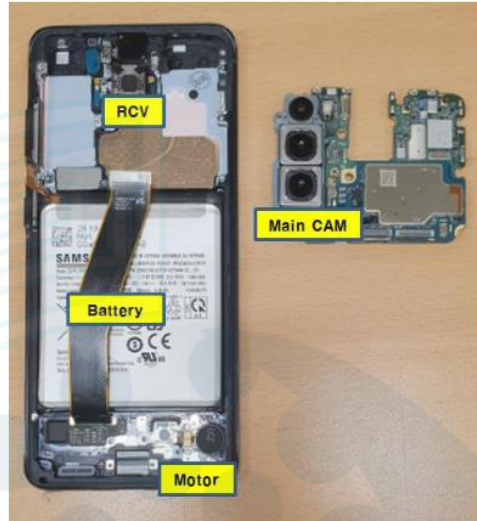
9

Detach Main and Sub PBA
(Before Detach main PBA disassemble first.)



10

Detach other components



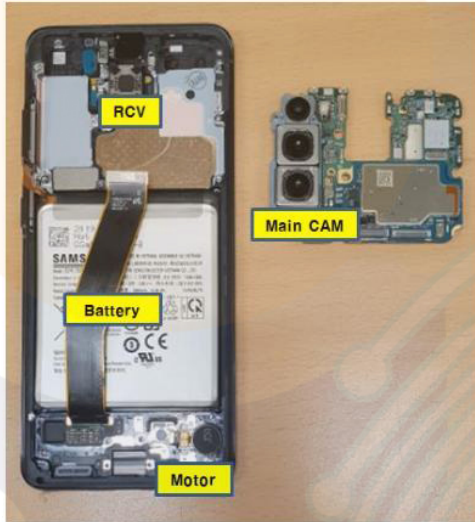
※ Caution
Be care of several kinds of damage.

※ Caution
Be care of several kinds of damage.

تهیه شده در مجموعه جهان ای سی

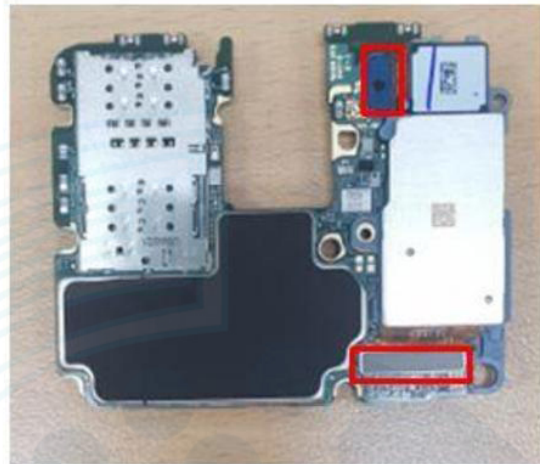
1

Attach components on Front.
(RCV module, Motor, Battery)



2

Attach Main CAM on PBA.



※ Caution

Be care of FPCB, components damage and tilt.

※ Caution

Be care of press power/time.

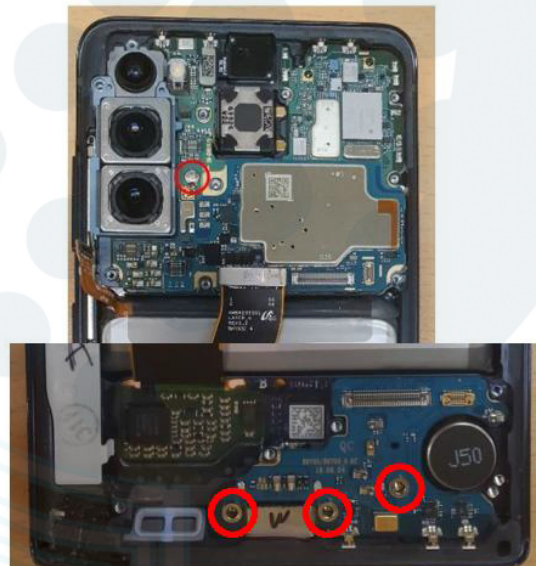
3

Assemble Main PBA and Sub PBA to Front case



4

Screw 3 points in SUB PBA (Torque :
1.4 Kgf-cm)
And screw 1 point in Main PBA (Torque :
1.4 Kgf-cm)



※ Caution

1) Be care of scratch and REAR damage.
2) Check for contact damage.(red area).

※ Caution

Be care of chip damage nearby screw point.

تهیه شده در مجموعه جهان ای سی

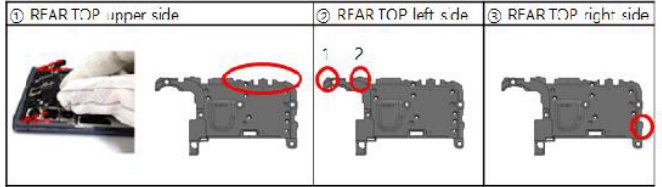
5

Assemble battery connect and the other connectors(9 Point). Also Front CAM



6

Assemble the TOP and BOTTOM REAR in sequence.



TOP REAR sequence



BOTTOM REAR sequence

※ Caution

Be care of press power/time.

※ Caution

Be care of scratch and REAR damage.

7

MID REAR ASSY assemble.



8

Screw insertion 15 Point (Torque : 1.4 Kgf.cm) And assembling SIM socket



※ Caution

1) Be care of scratch and REAR damage.
2) Be care of press power/time.

※ Caution

Be care of Rear damage.

تهیه شده در مجموعه جهان ای سی

9

Attach the back glass inner tape on the back glass.
- Gently press all adhesive parts of tape using disassembly stick or hands.



10

Attach the back glass on the REAR side.

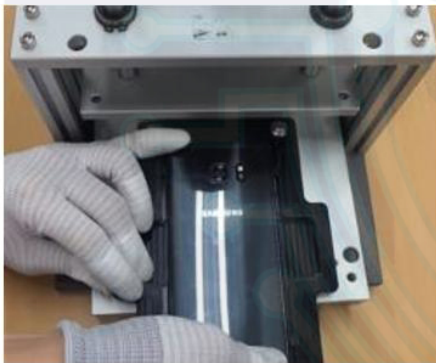


※ Caution
Be care of scratch and tilt.

※ Caution
Be care of scratch and tilt.

11

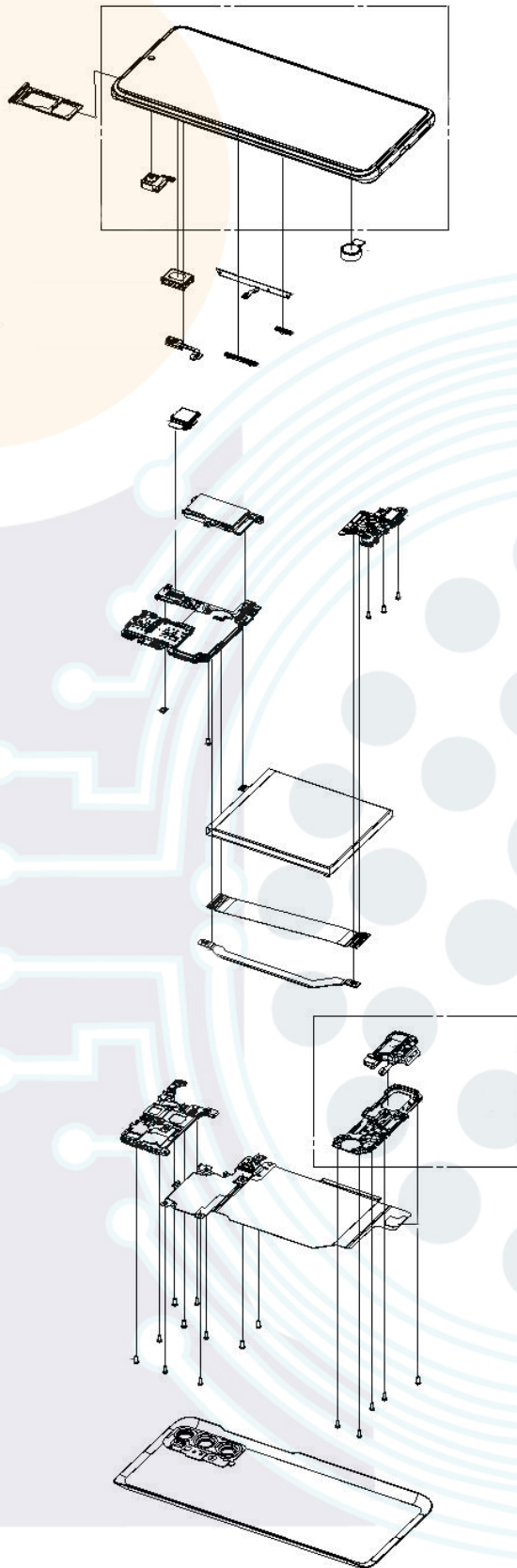
Press Back Glass.
Pressing force : $6.0\text{kgf/cm}^2 \pm 3\%$
1 Cycle Pressing time : $10\text{s} \pm 0.3\text{s}$
2 Cycle Pressing time : Each $8\text{s} \pm 0.3\text{s}$
SIM Tray must be separated before pressing the backglass or the OCTA
- Gently press all adhesive parts of tape using disassembly stick or hands.



※ Caution
Be care of scratch and tilt.

تهیه شده در مجموعه جهان ای سی

کالبد شکافی گوشی S20

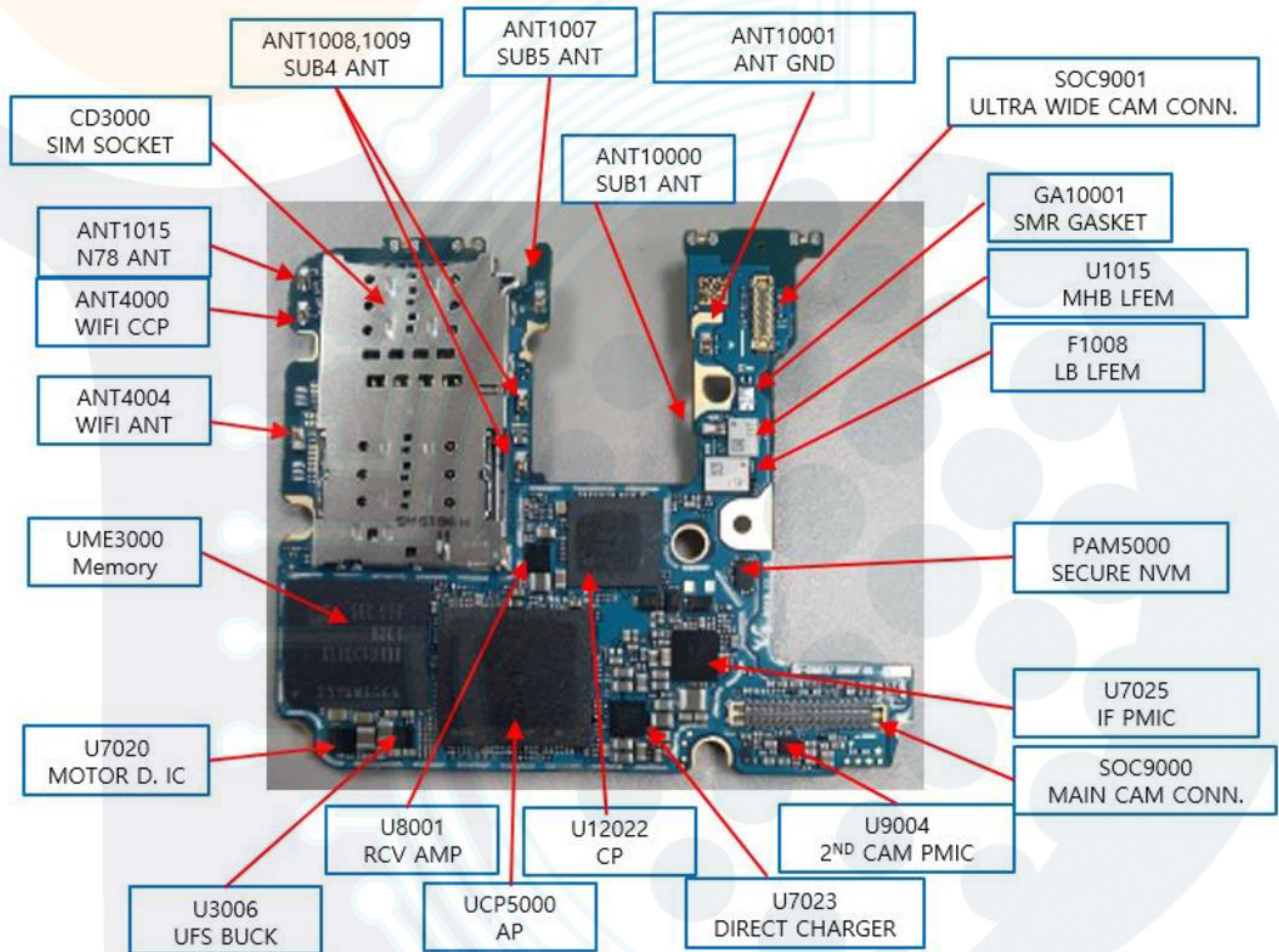


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تهیه شده در مجموعه جهان ای سی

8. Level 3 Repair

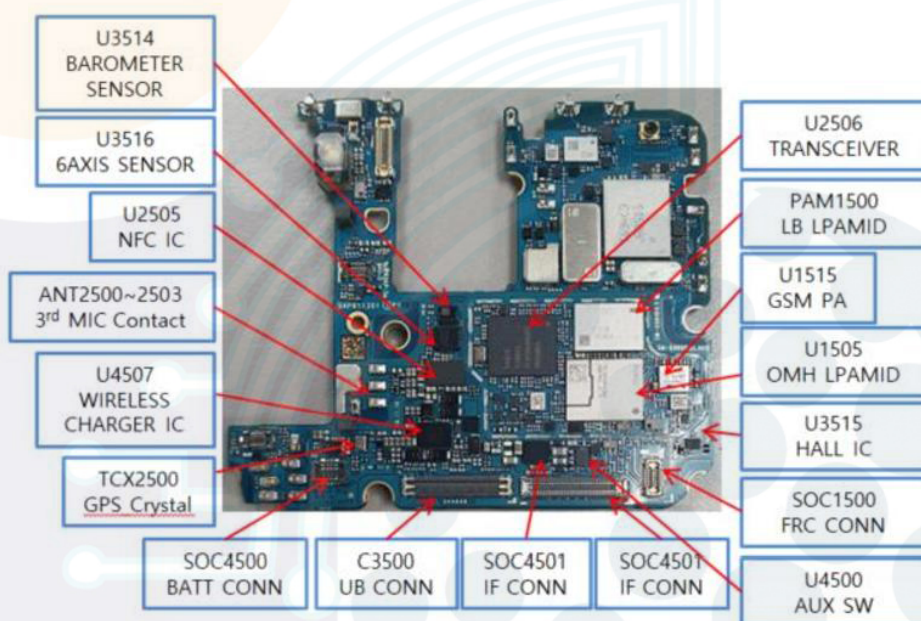
8-1. Components Layout



تهیه شده در مجموعه جهان ای سی

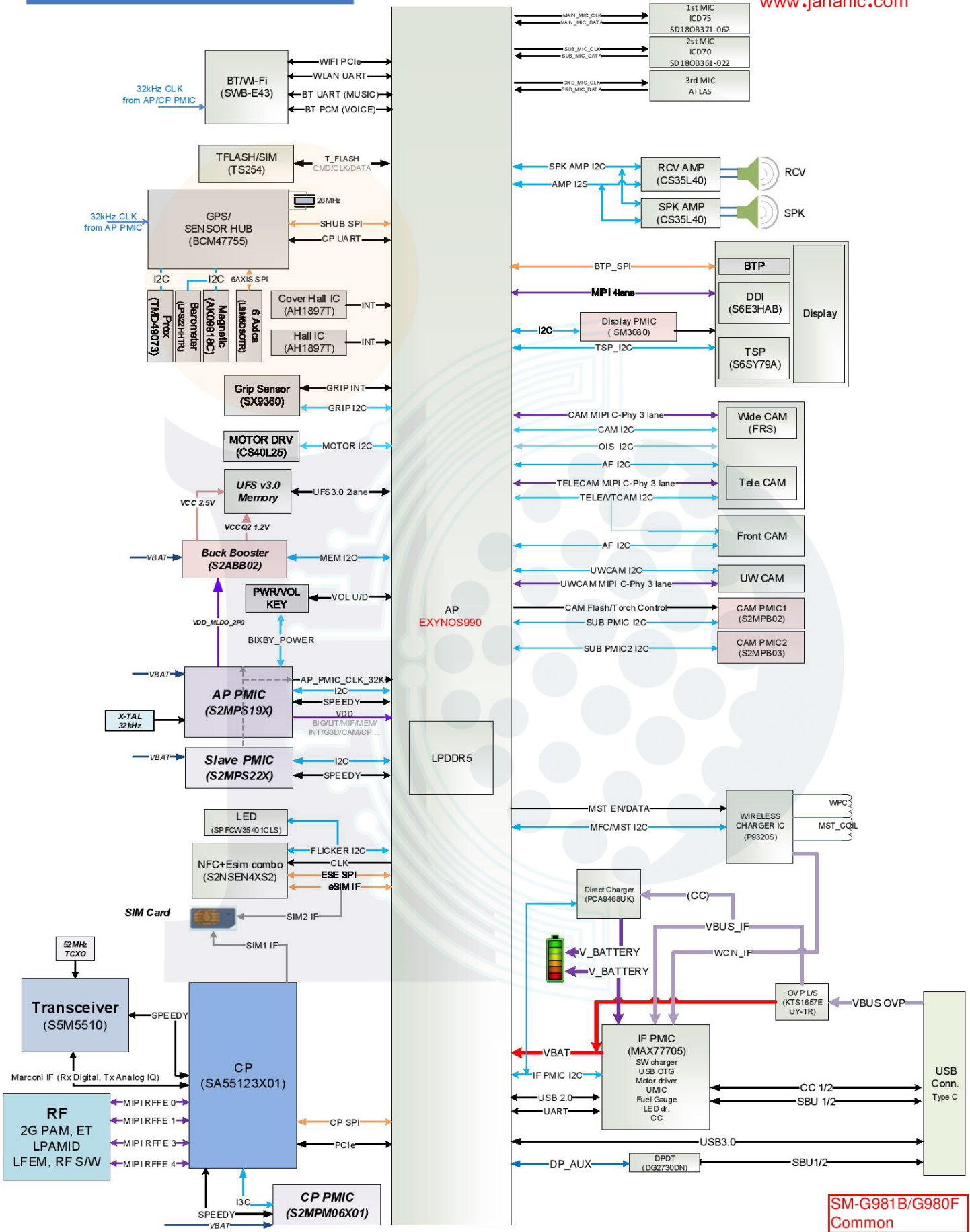
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8. Level 3 Repair



تهیه شده در مجموعه جهان ای سی

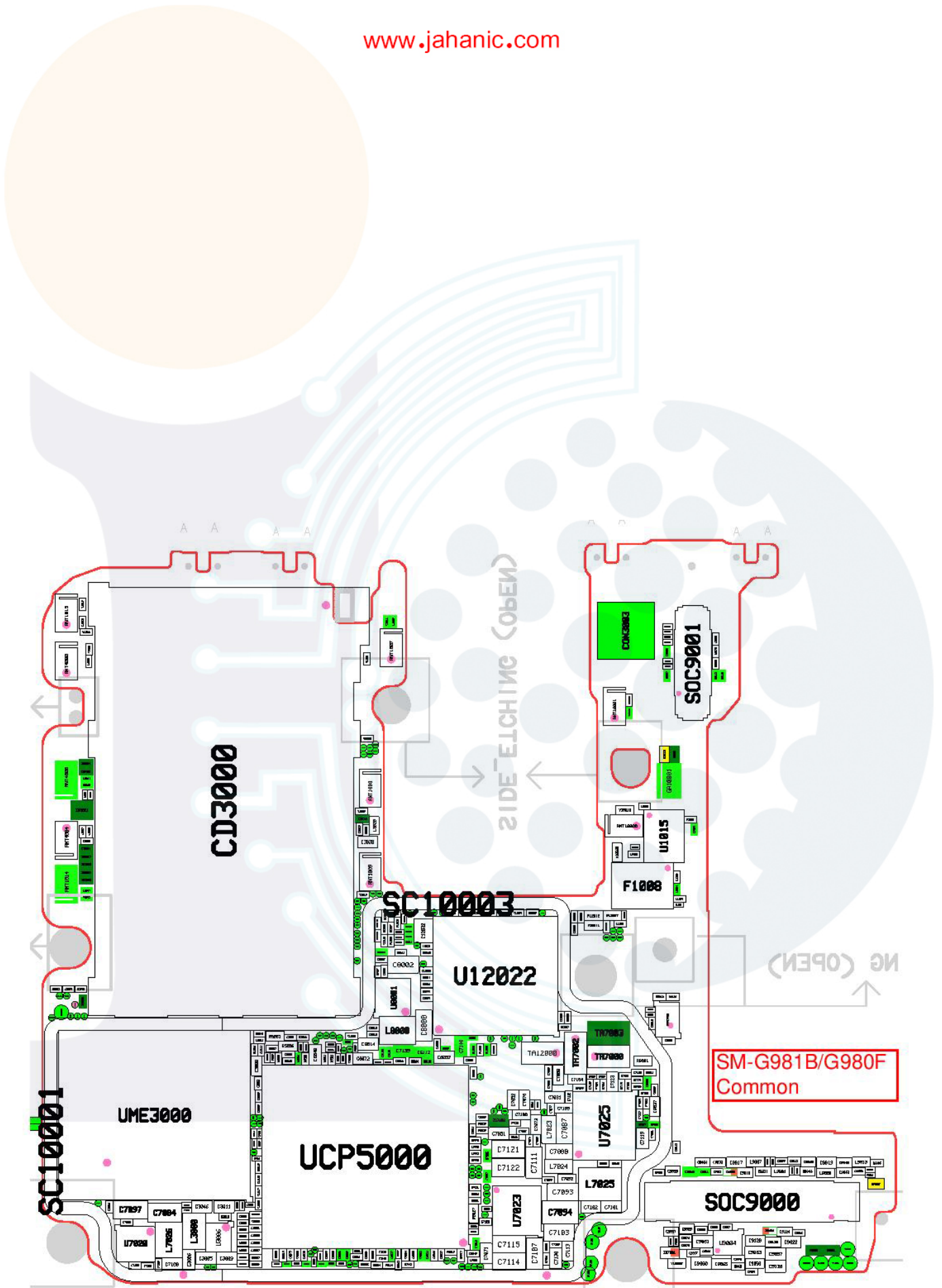
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SM-G981B/G980F
Common

تهیه شده در مجموعه جهان ای سی

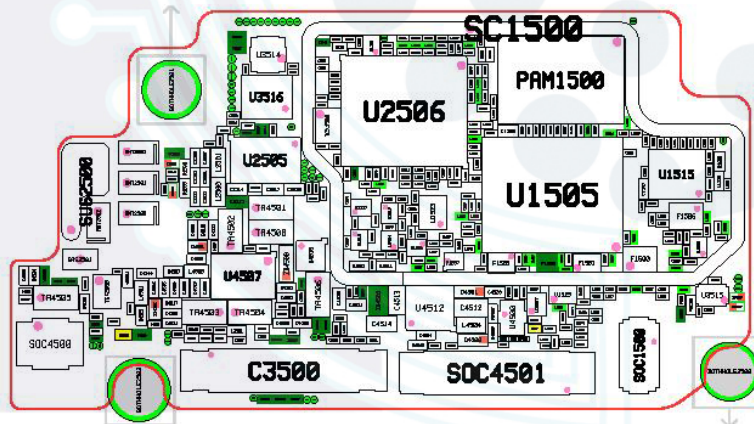
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تهیه شده در مجموعه جهان ای سی

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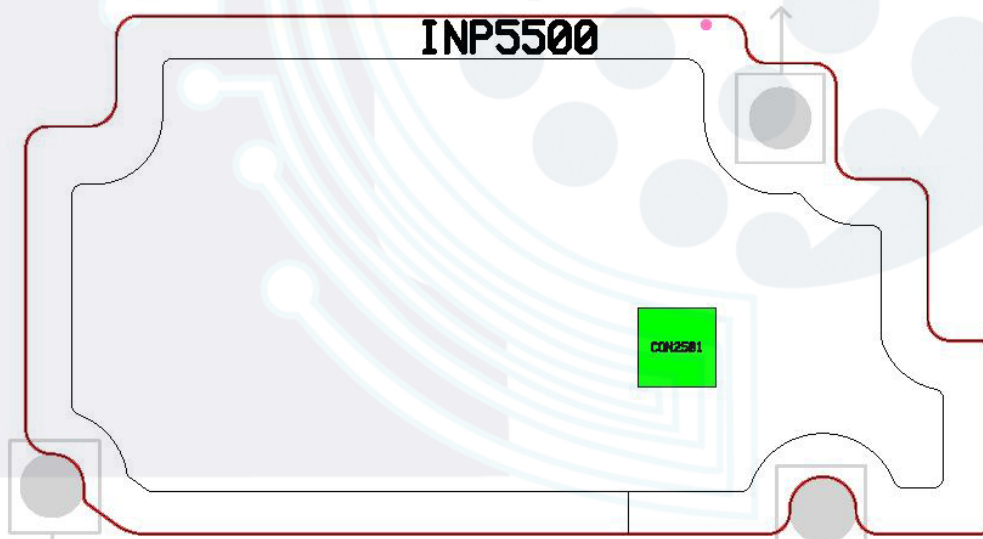
Model	SM-G981B_SLAVE
Revision	0.5
Manufacture Count	312
Charge	서부동
Contact	010-9677-2038
Date	12월 24일
Routing	○
Resin	○



تهیه شده در مجموعه جهان ای سی

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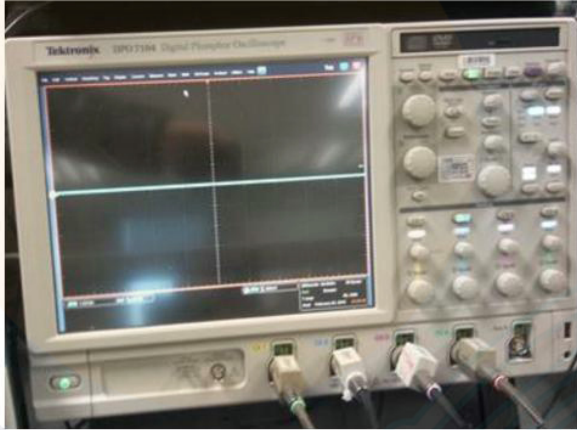
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Revision	0.5
Manufacture Count	312
Charge	서보유
Contact	010-9677-2038
Date	12월 24일
Routing	○
Resin	○



8. Level 3 Repair

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8-3. Flow chart of Troubleshooting.



Oscilloscope



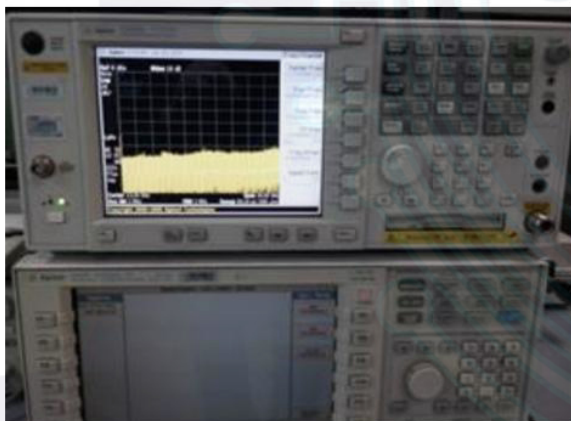
Digital Multimeter



Power Supply



+ driver, ESD Safe Tweezer



8960 & Spectrum Analyzer



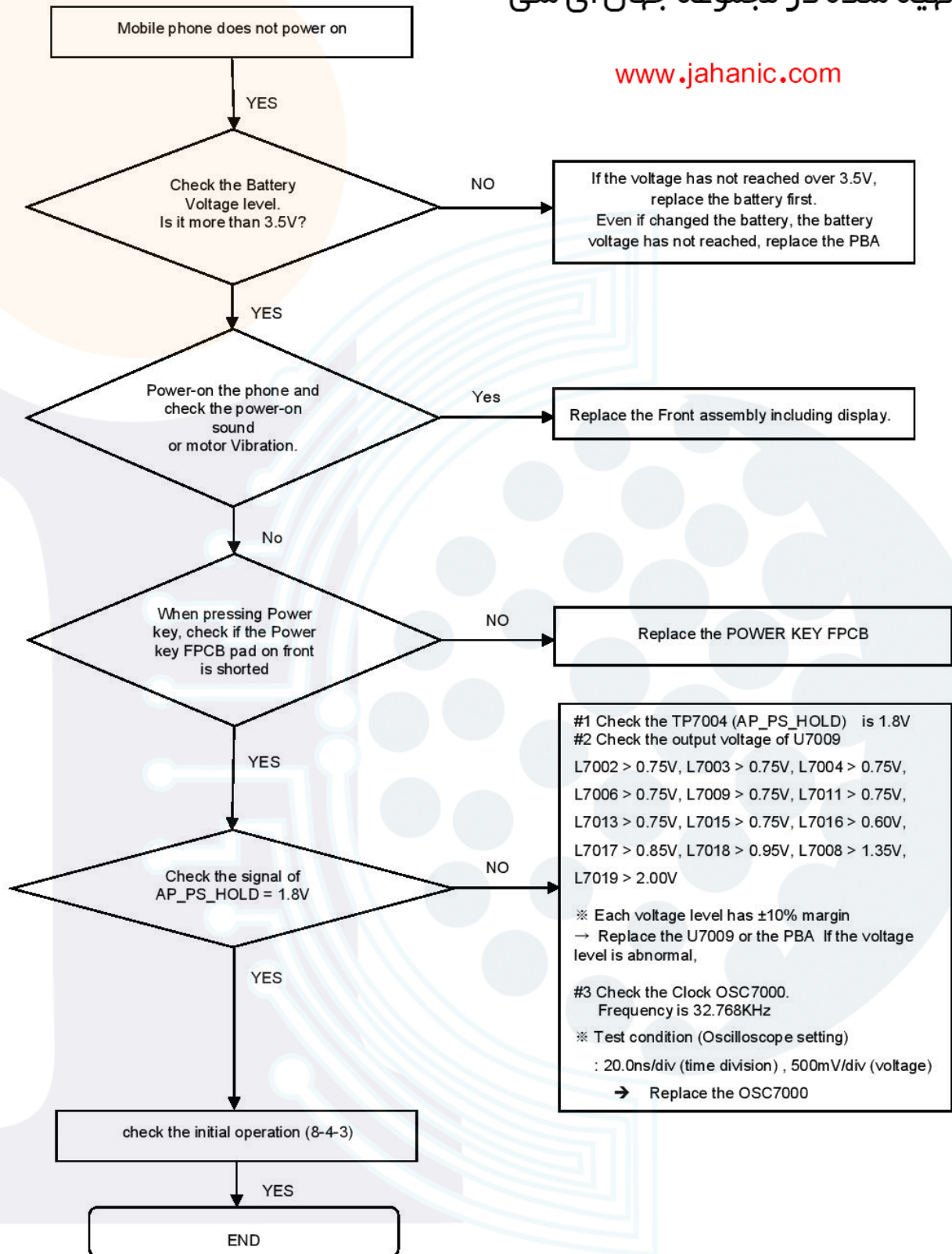
Soldering iron

8. Level 3 Repair

8-4-1. Power on

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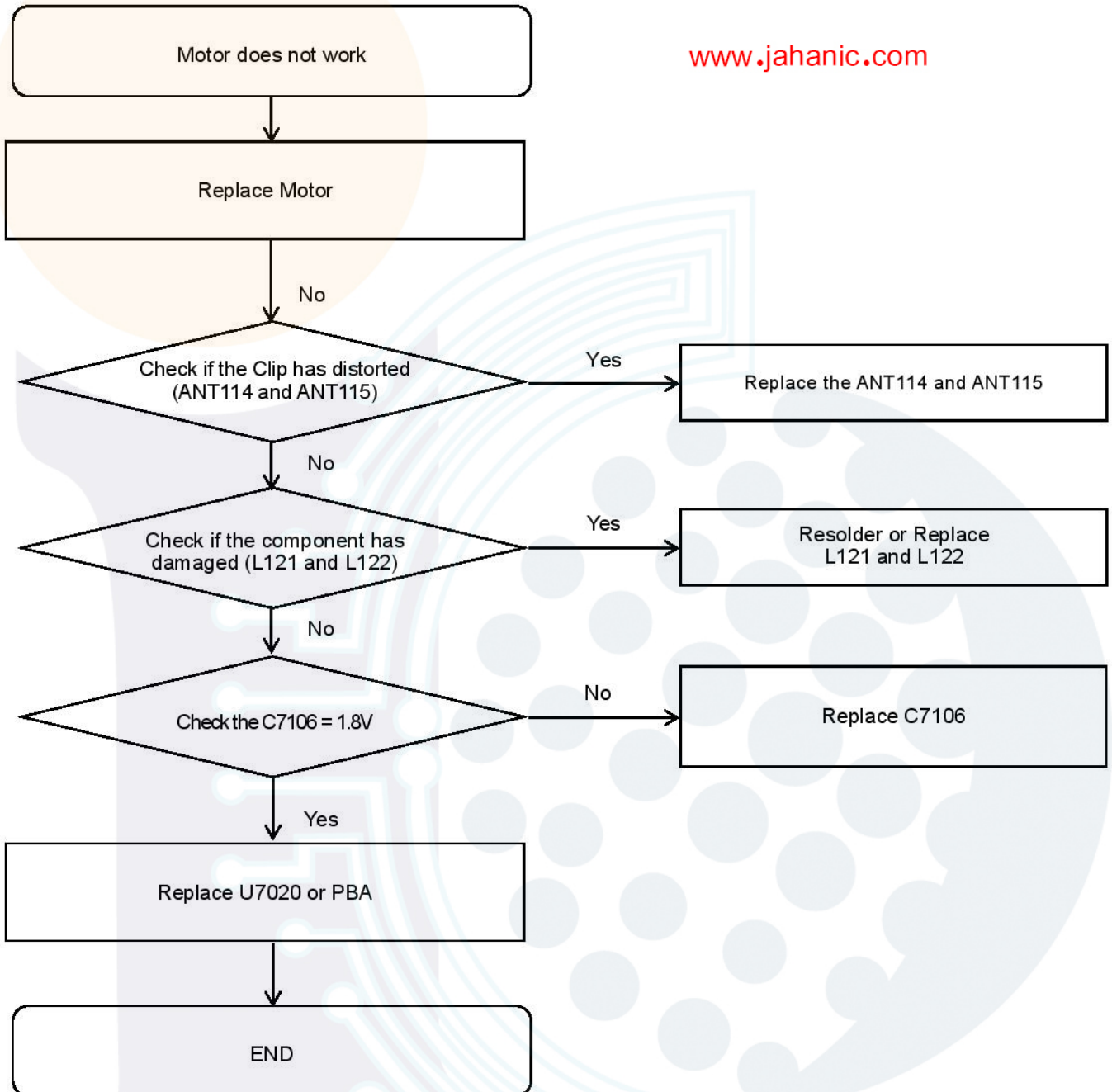


8. Level 3 Repair

8-4-2. Mot

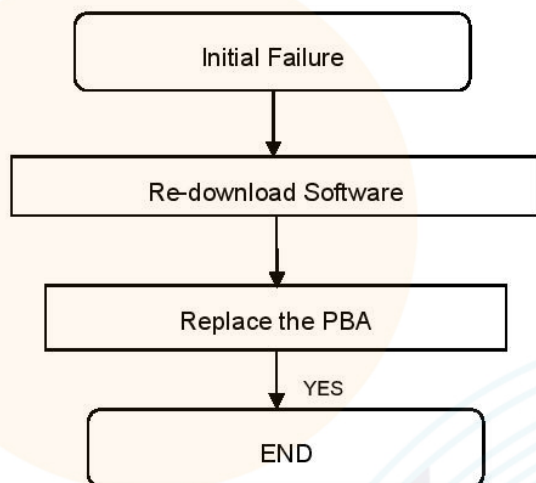
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8. Level 3 Repair

8-4-3. initial



تهیه شده در مجموعه جهان ای سی

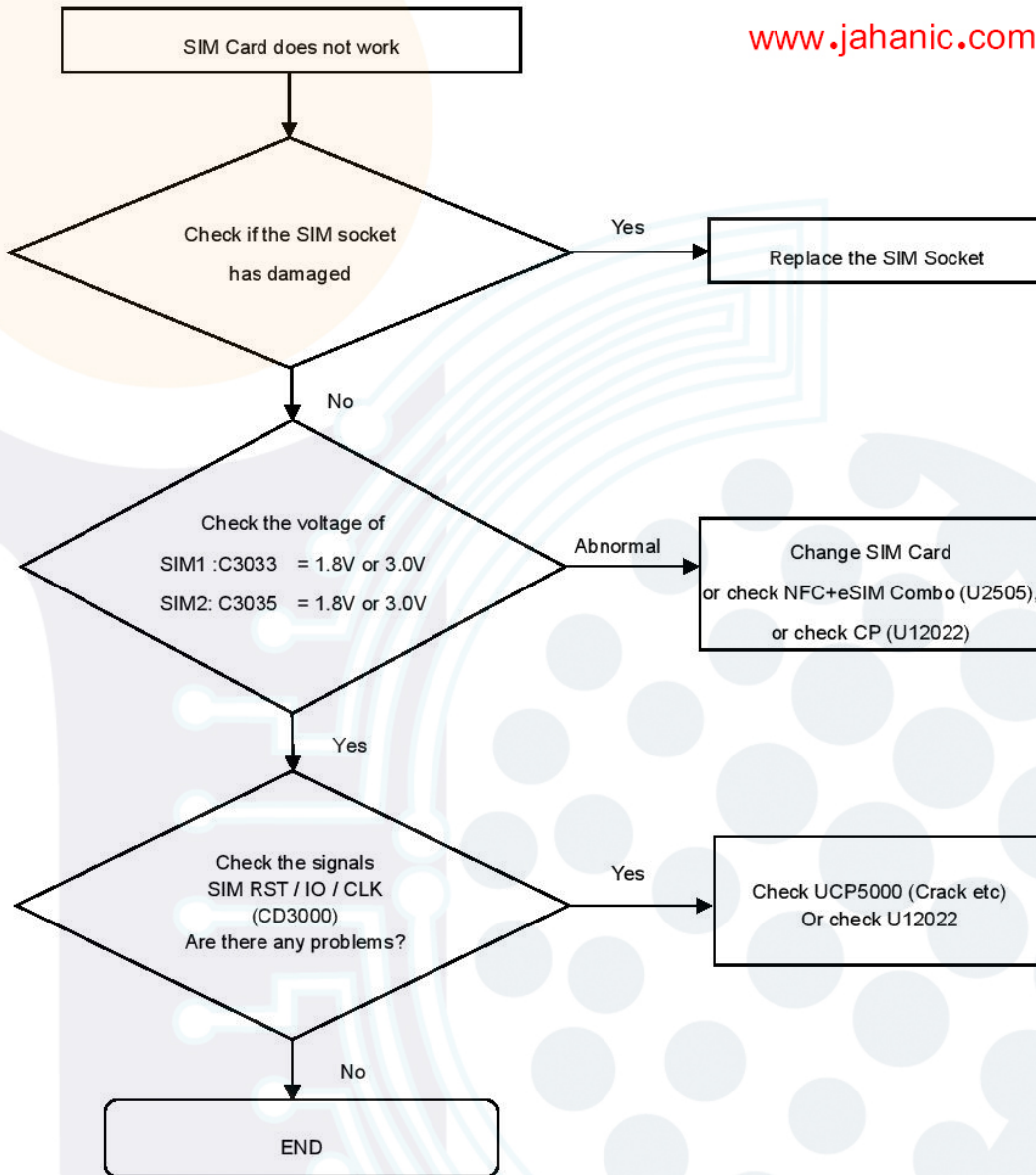
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8. Level 3 Repair

8-4-4. SIM PART

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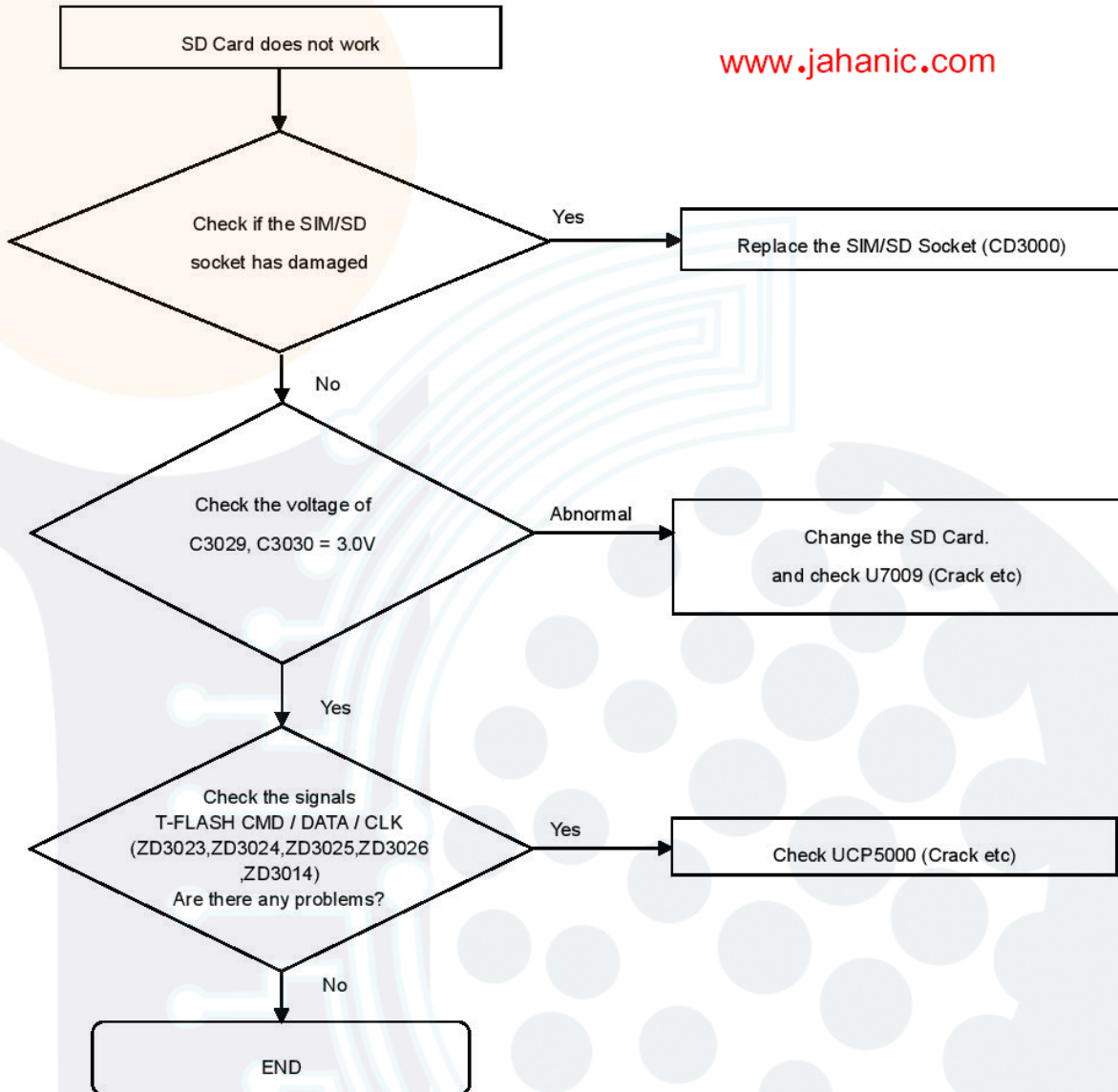


8. Level 3 Repair

8-4-5. SIM/SD PART

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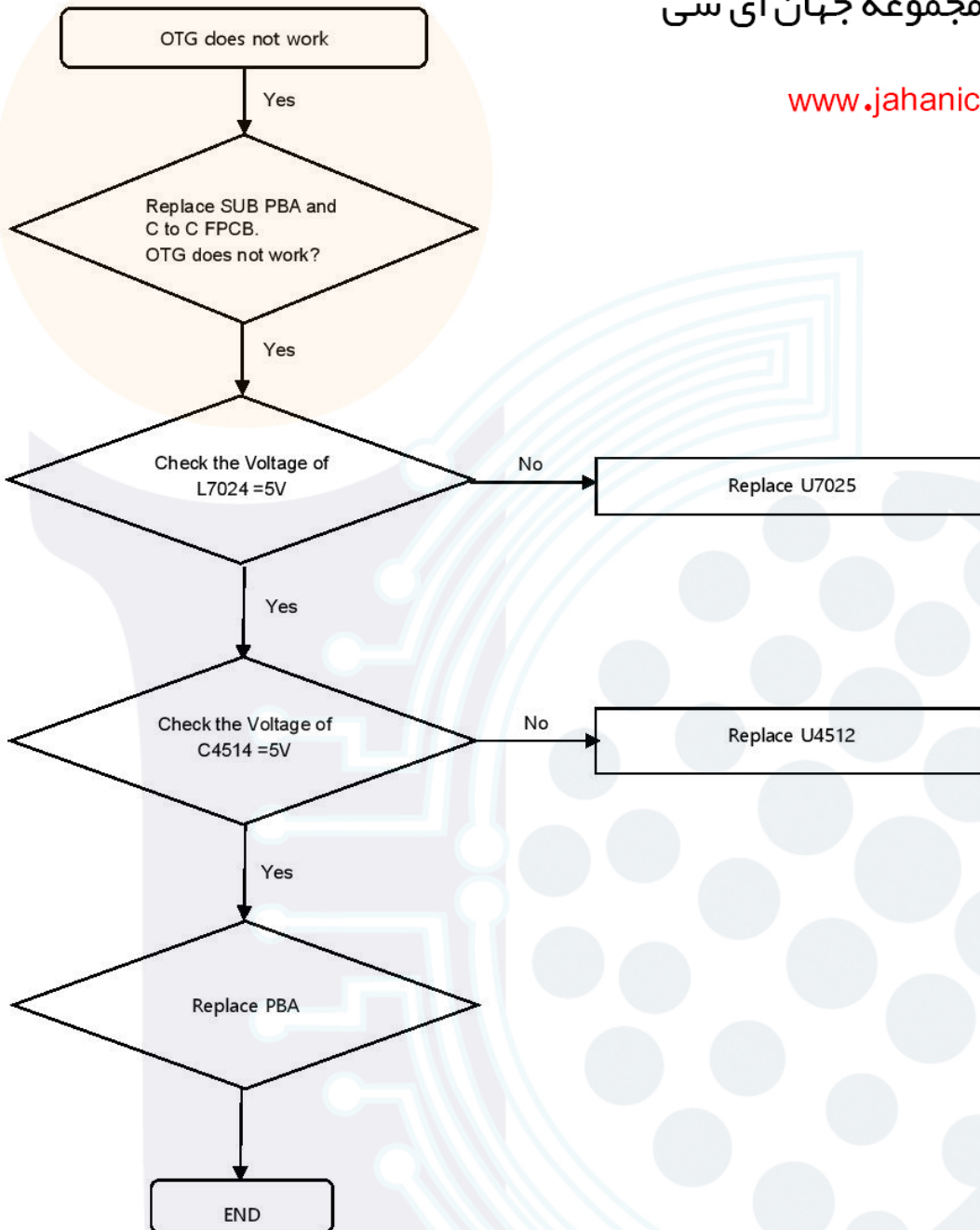


8. Level 3 Repair

8-4-6. OTG

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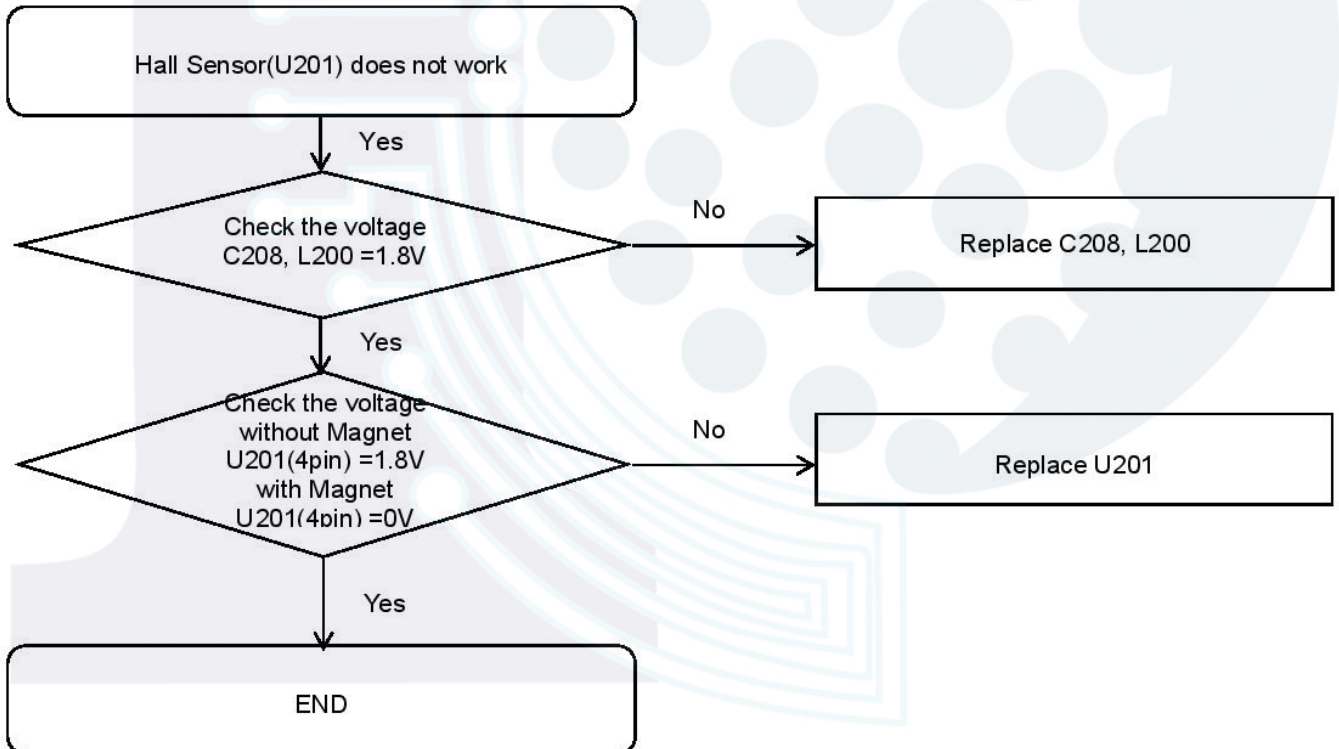
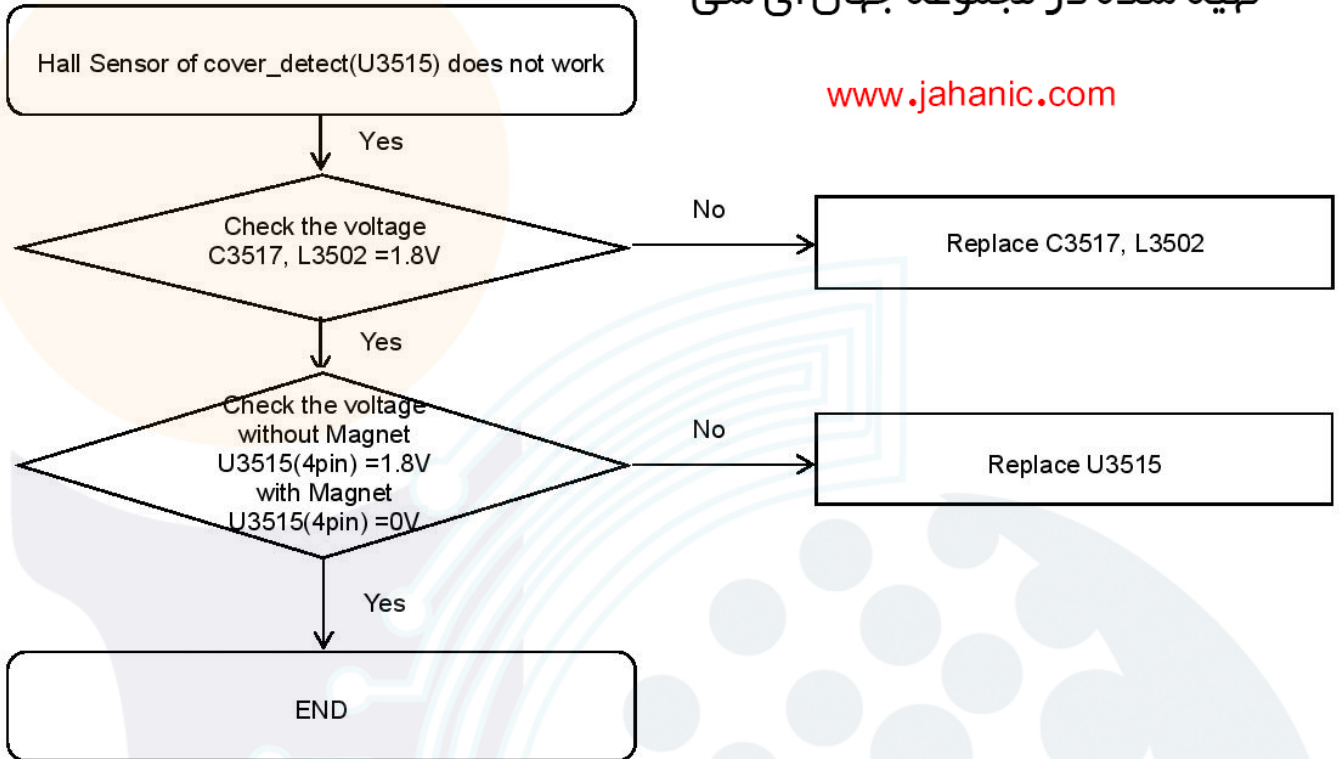


8. Level 3 Repair

8-4-7. Hall IC

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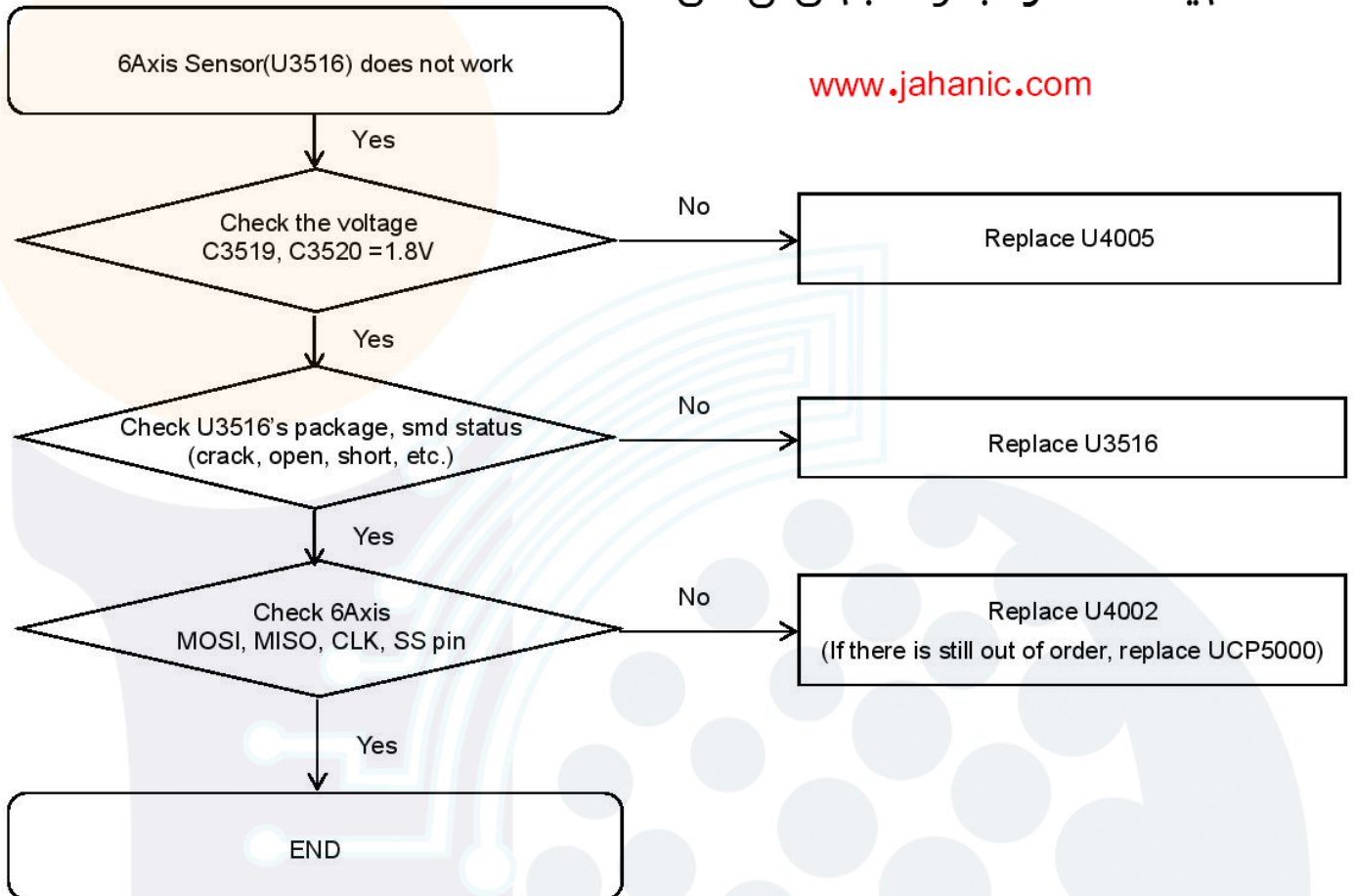


8. Level 3 Repair

8-4-8. 6Axis sensor

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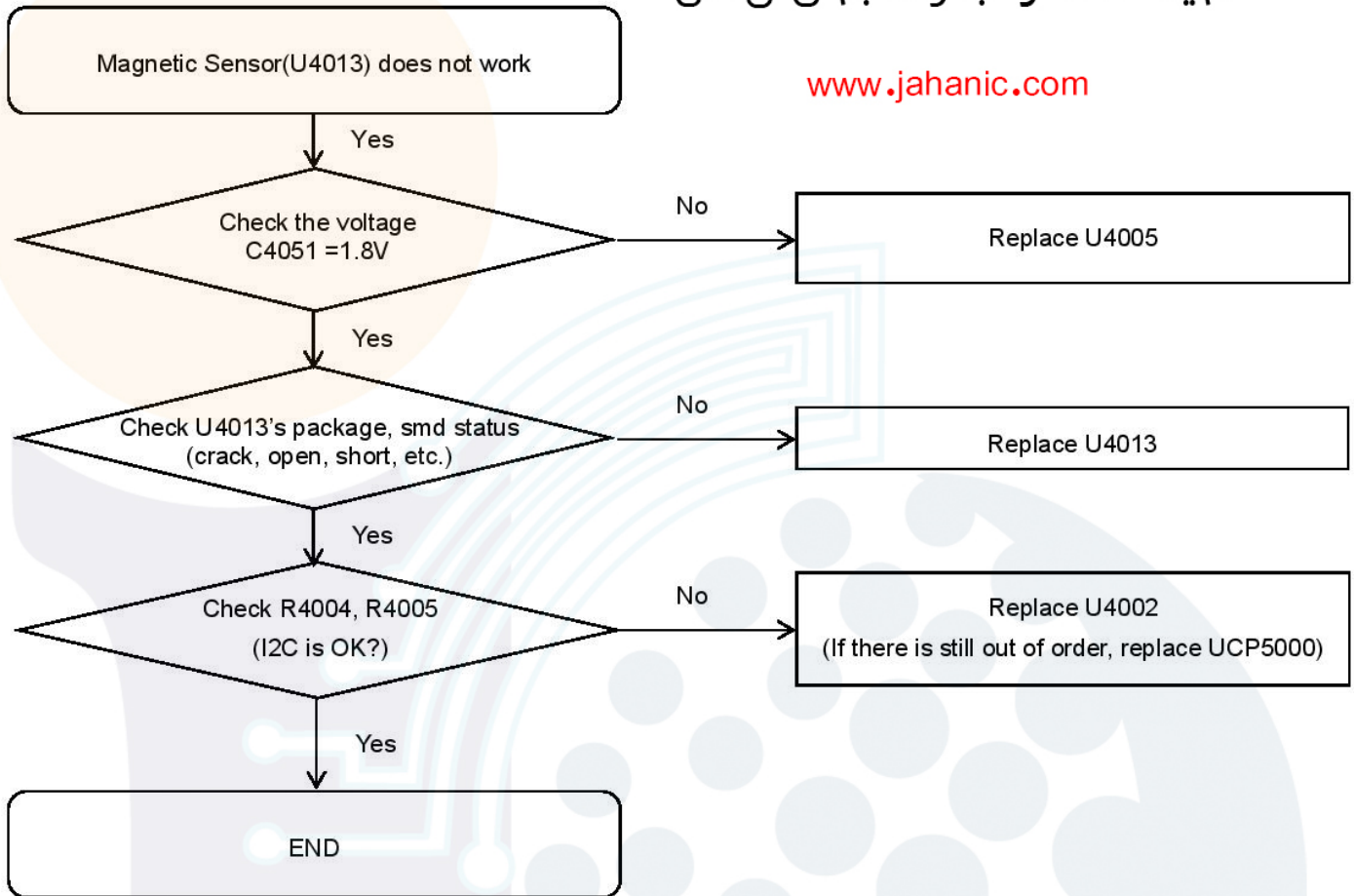


8. Level 3 Repair

8-4-9. Magnetic sensor

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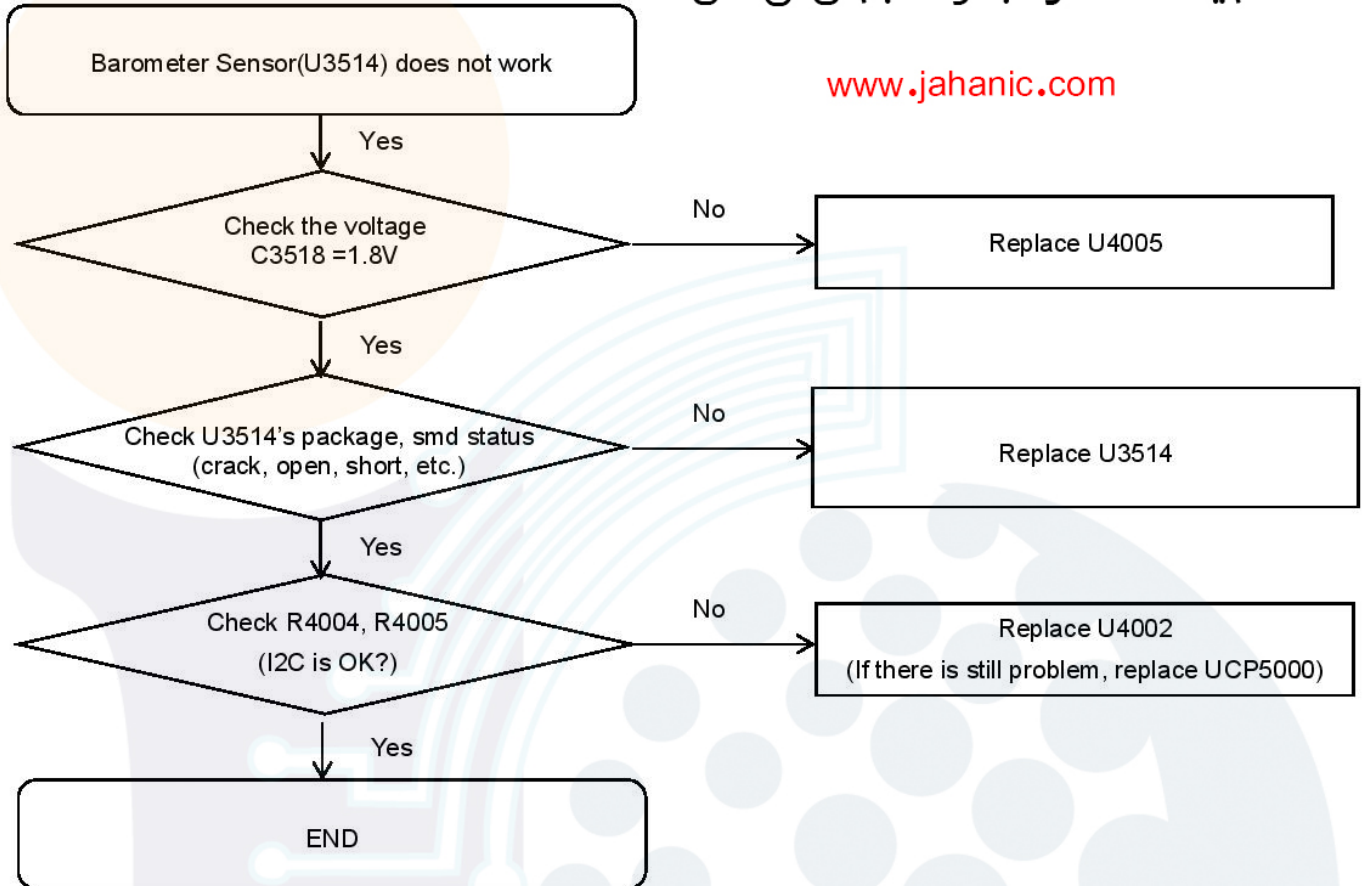


8. Level 3 Repair

8-4-10. Barometer sensor

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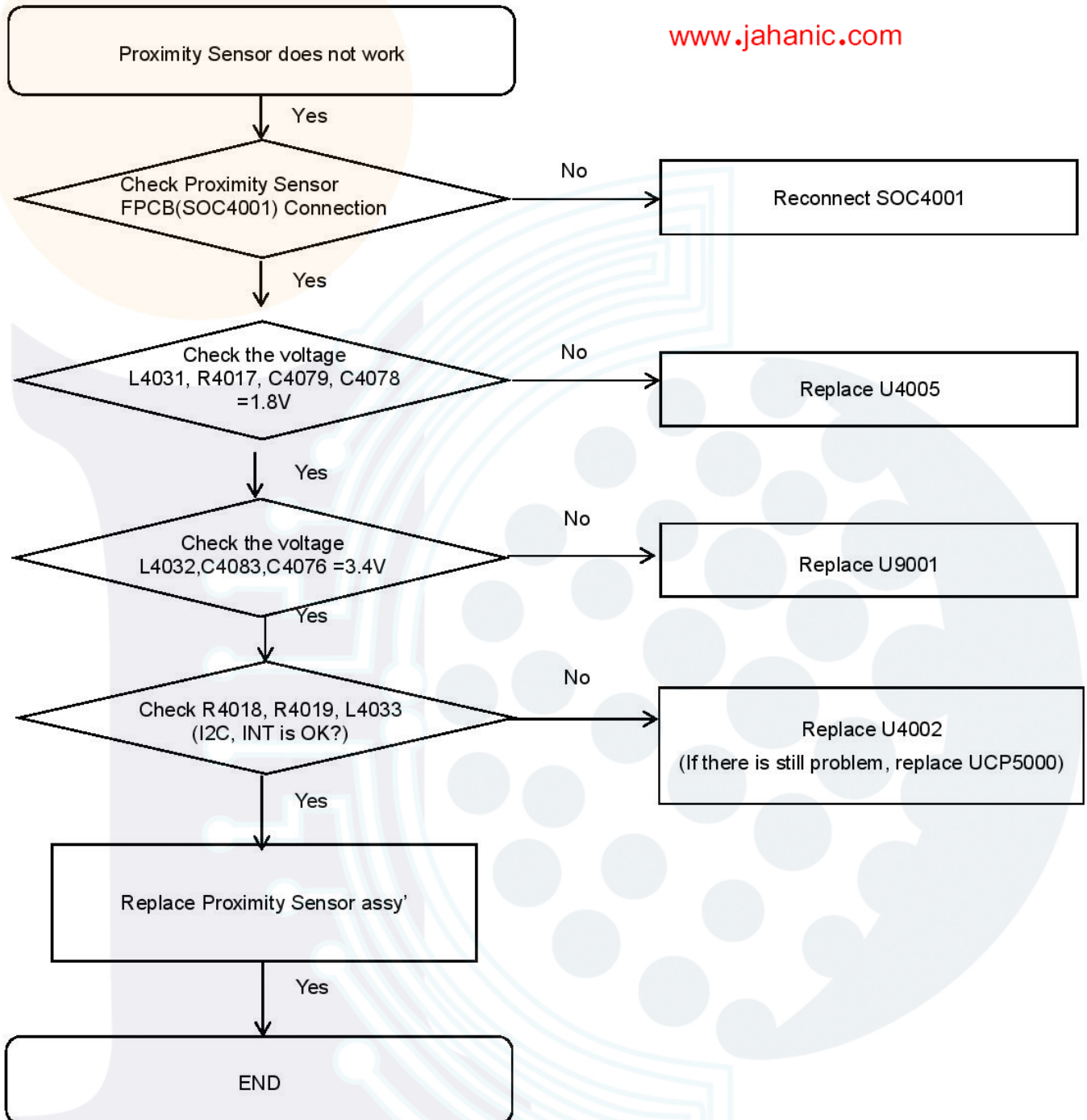


8. Level 3 Repair

8-4-11. Proximity Sensor

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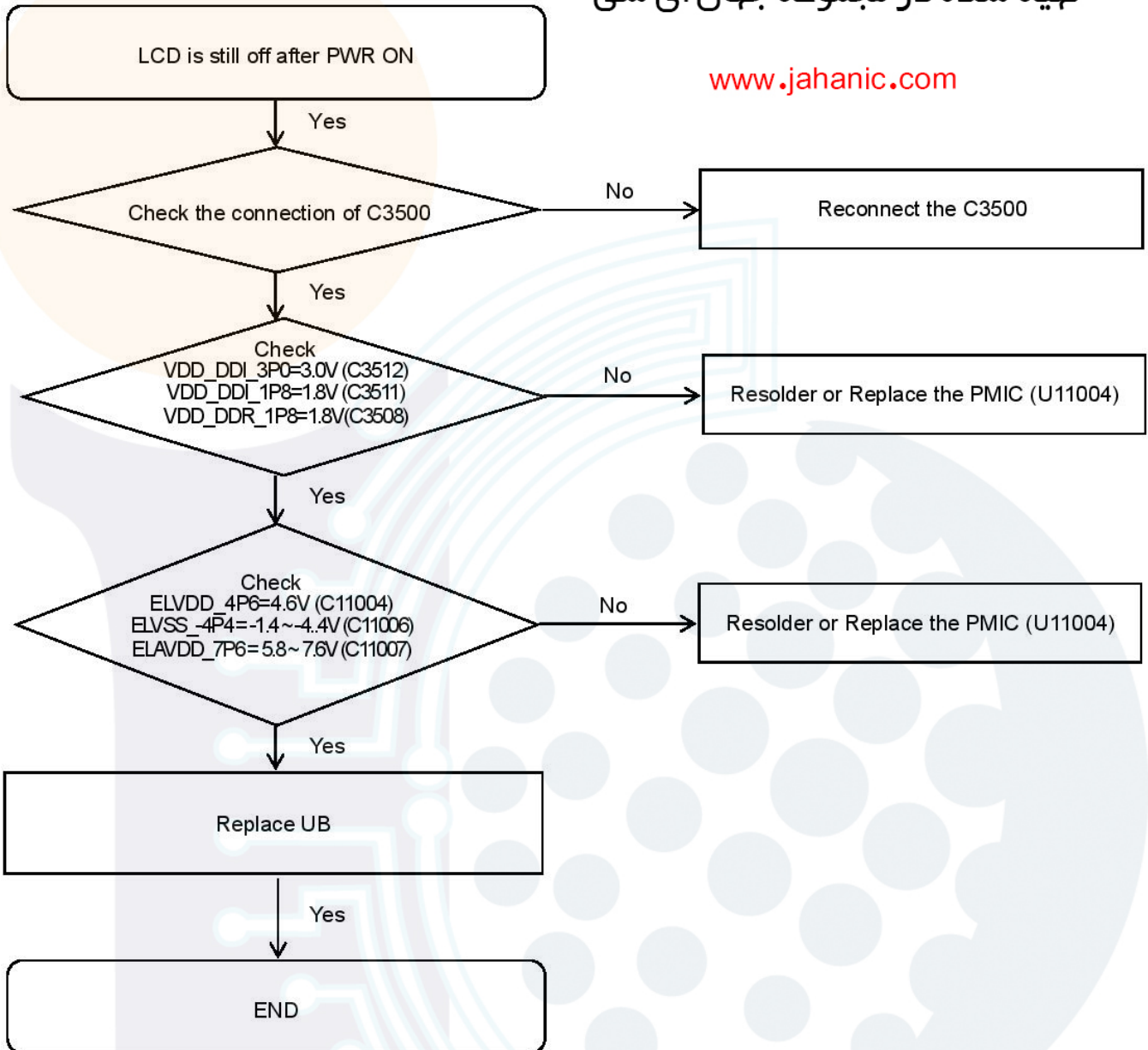


8. Level 3 Repair

8-4-12. Display

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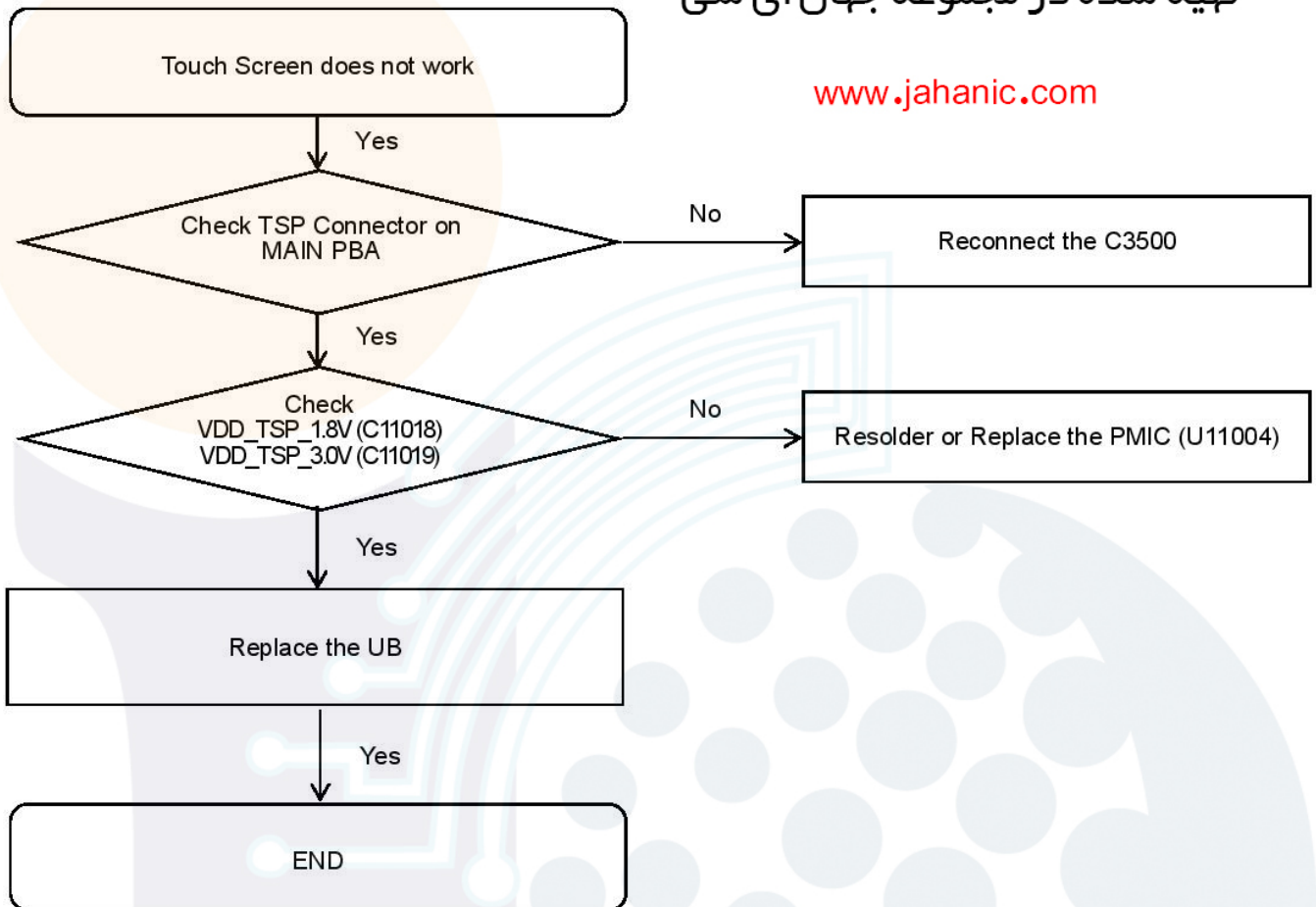


8. Level 3 Repair

8-4-13. TSP

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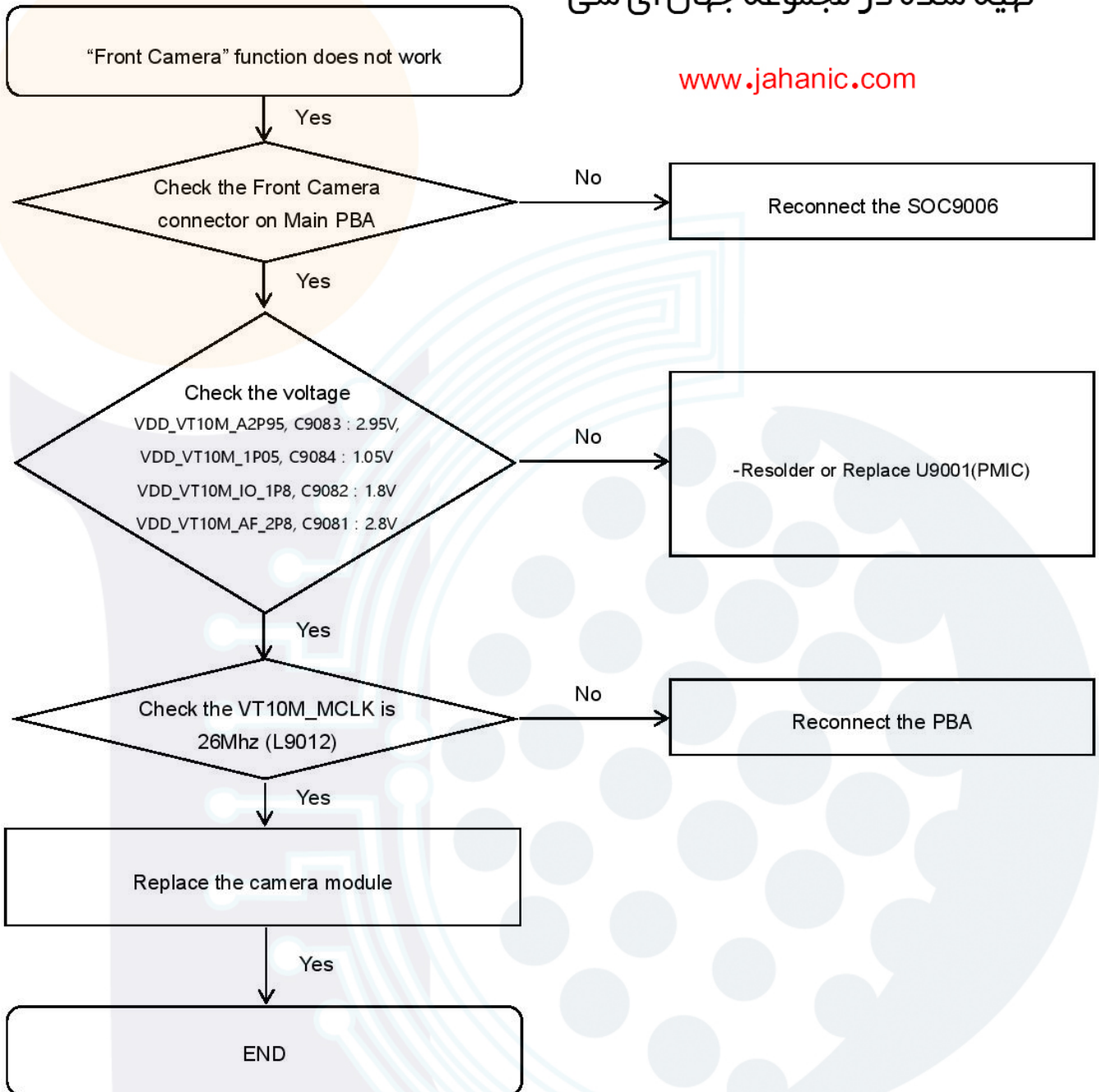


8. Level 3 Repair

8-4-14. VT CAMERA

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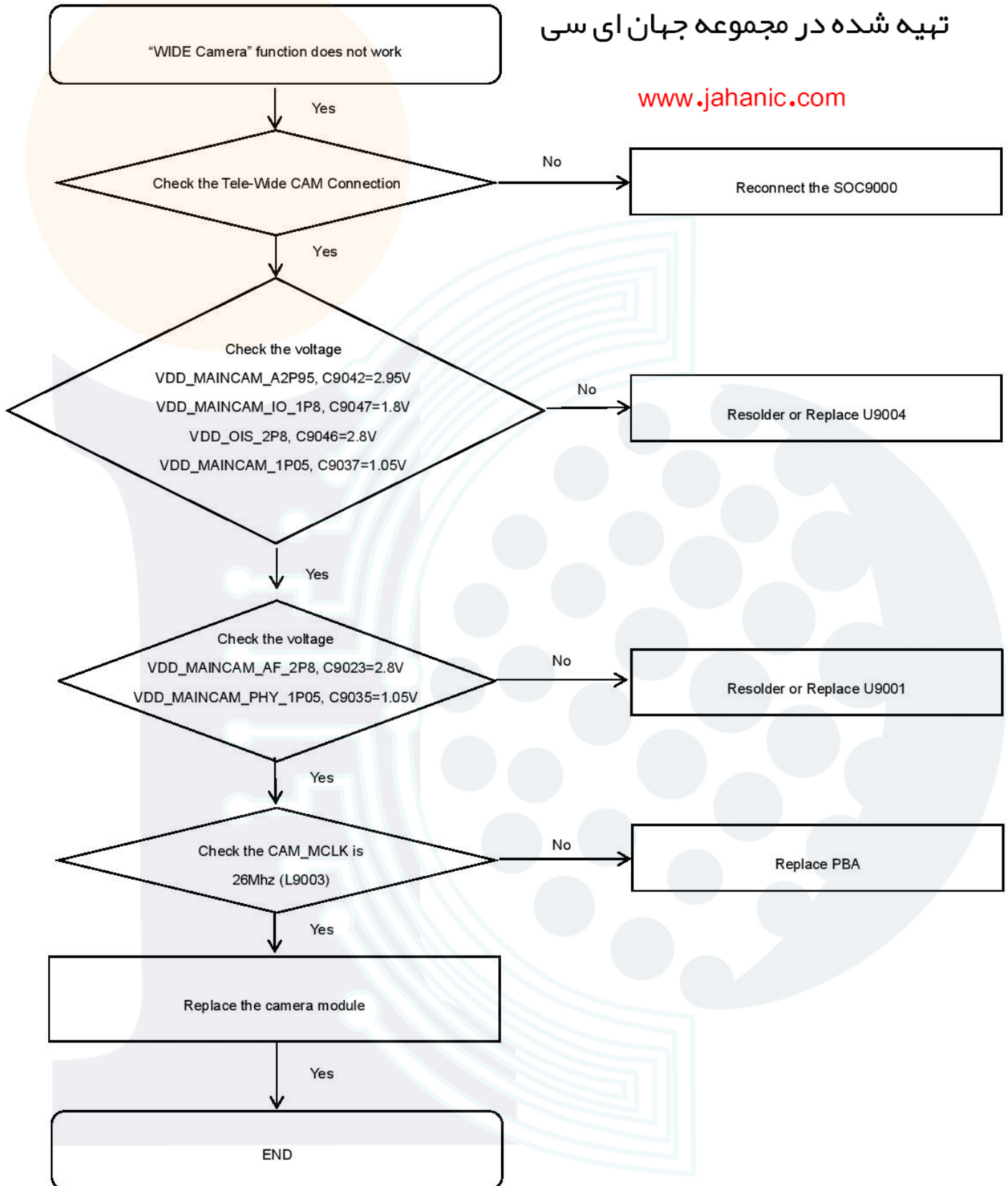


8. Level 3 Repair

8-4-15. WIDE CAMERA

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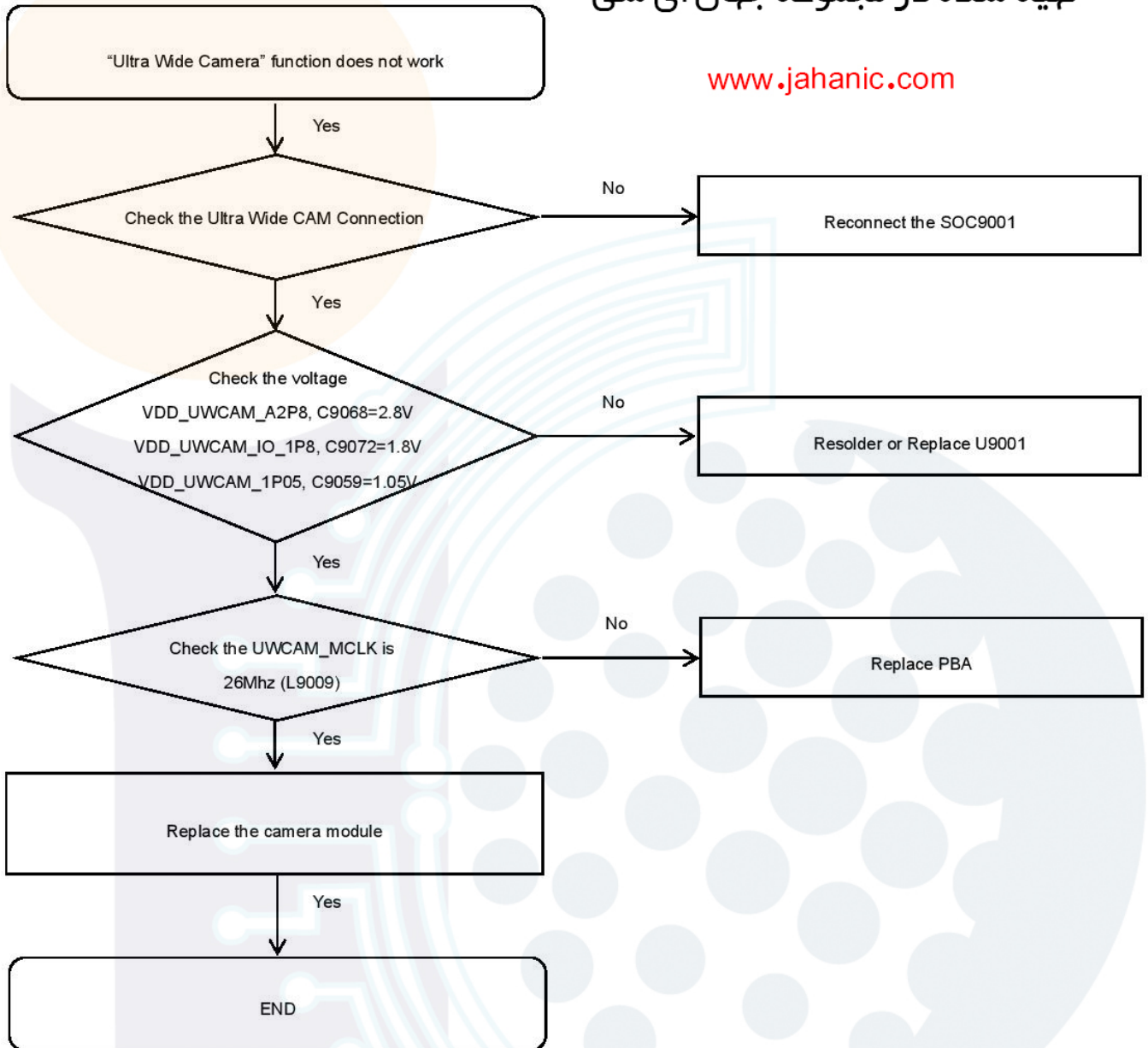
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8. Level 3 Repair

8-4-16. 12M ULTRA WIDE CAMERA

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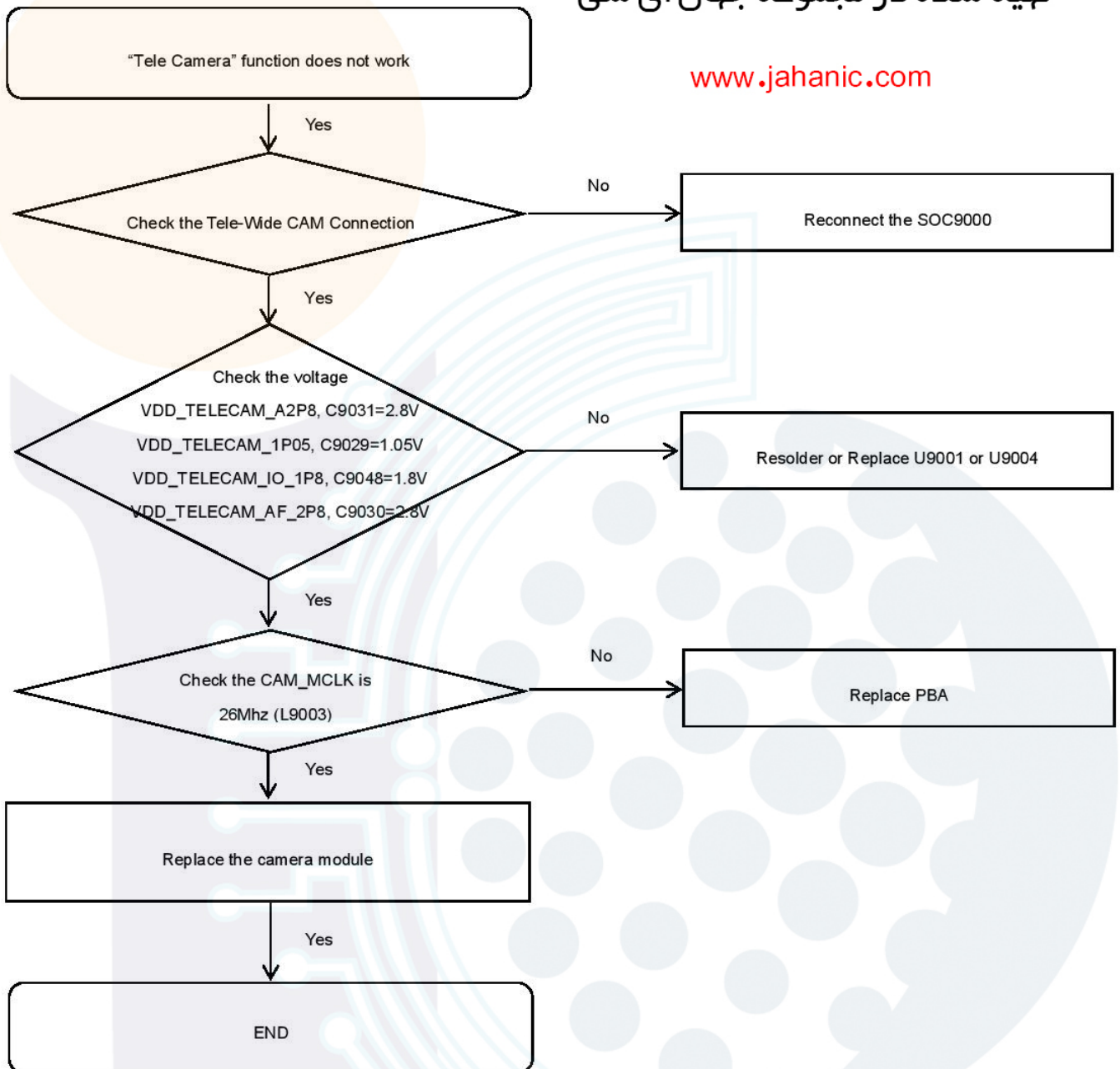


8. Level 3 Repair

8-4-17. 64M TELE CAMERA

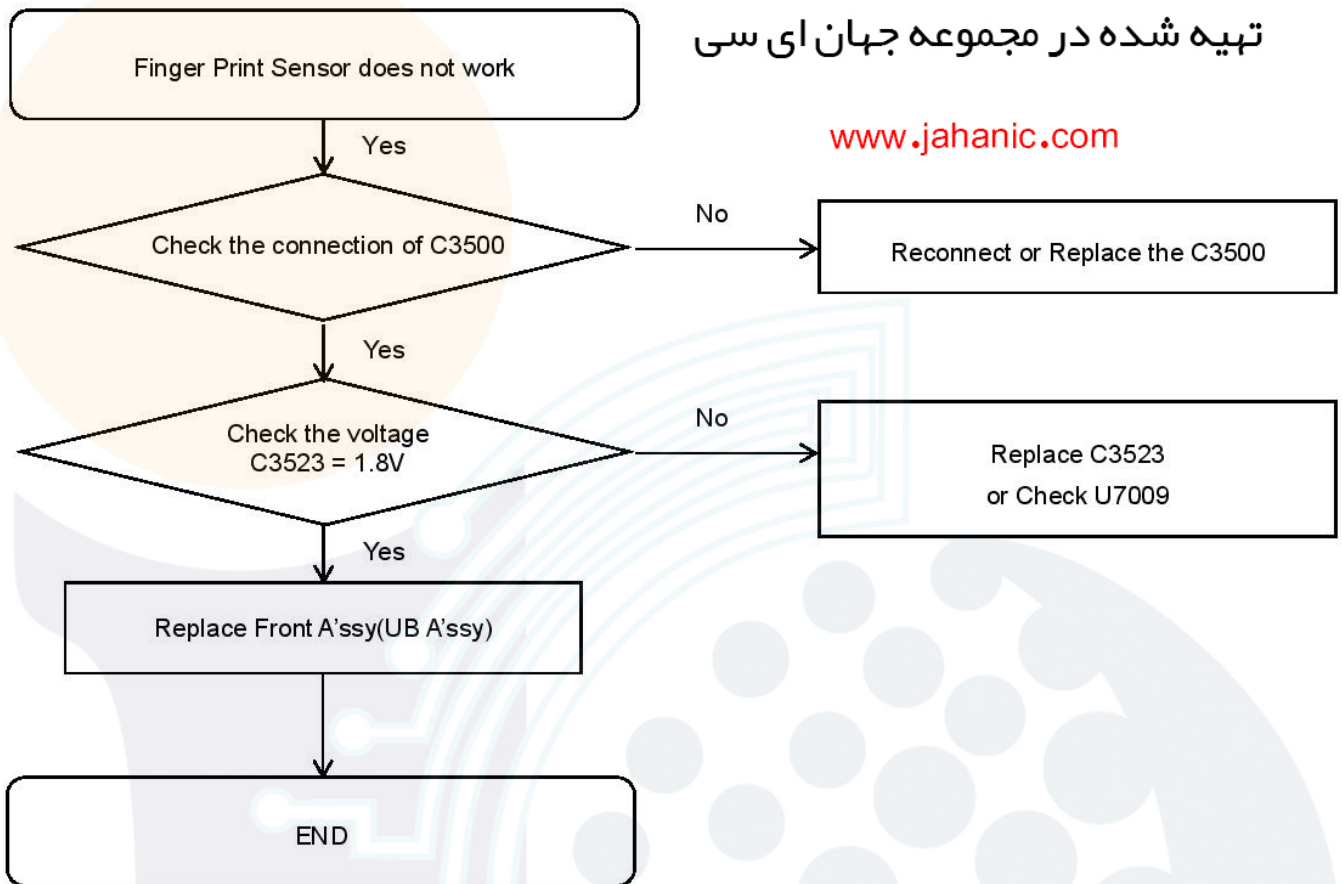
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8. Level 3 Repair

8-4-18. Finger Print

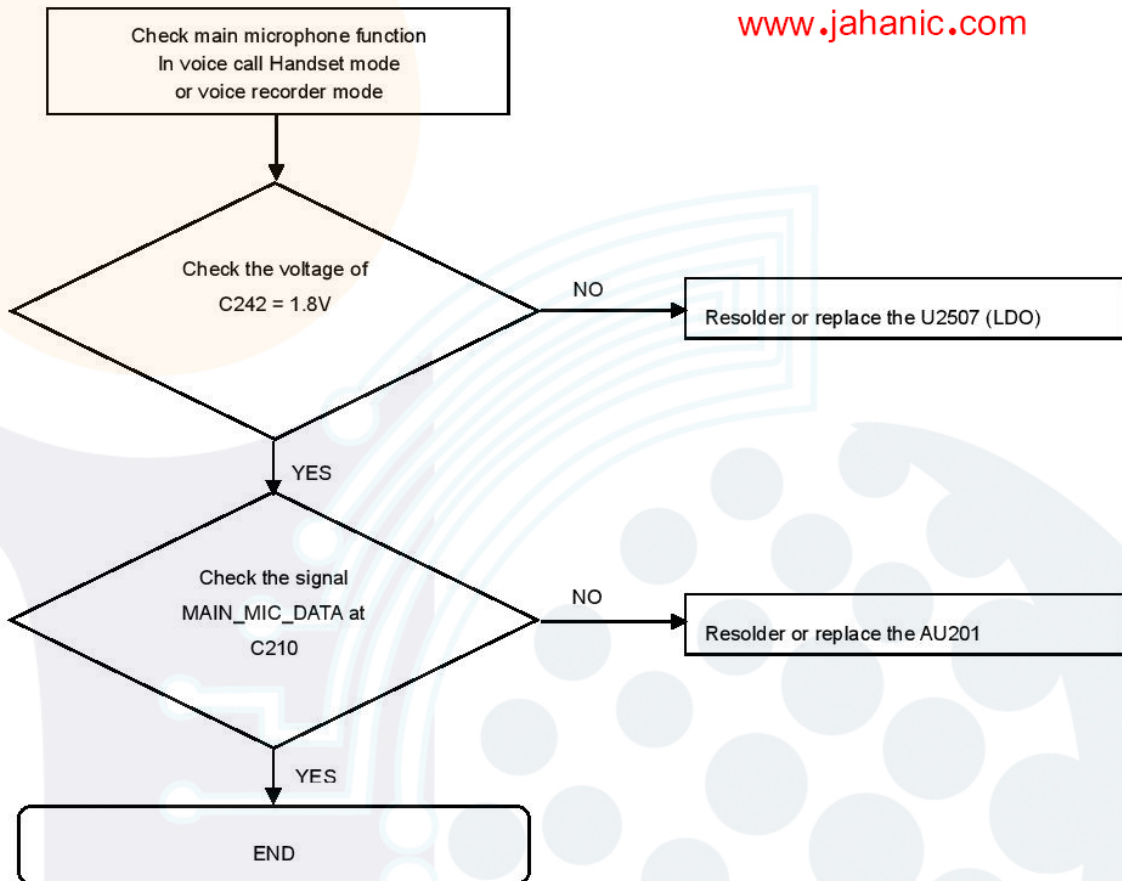


8. Level 3 Repair

8-4-19-1. Main MIC

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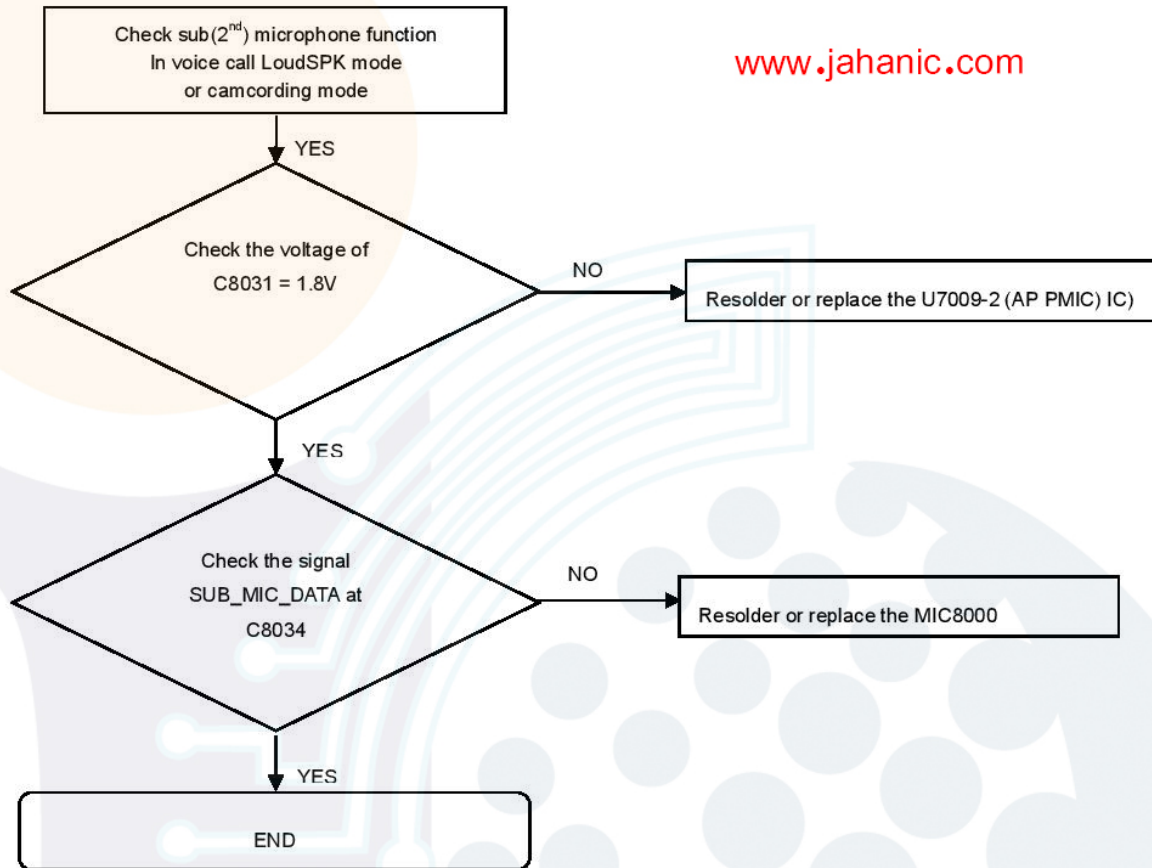


8. Level 3 Repair

8-4-19-2. Sub(2nd) MIC

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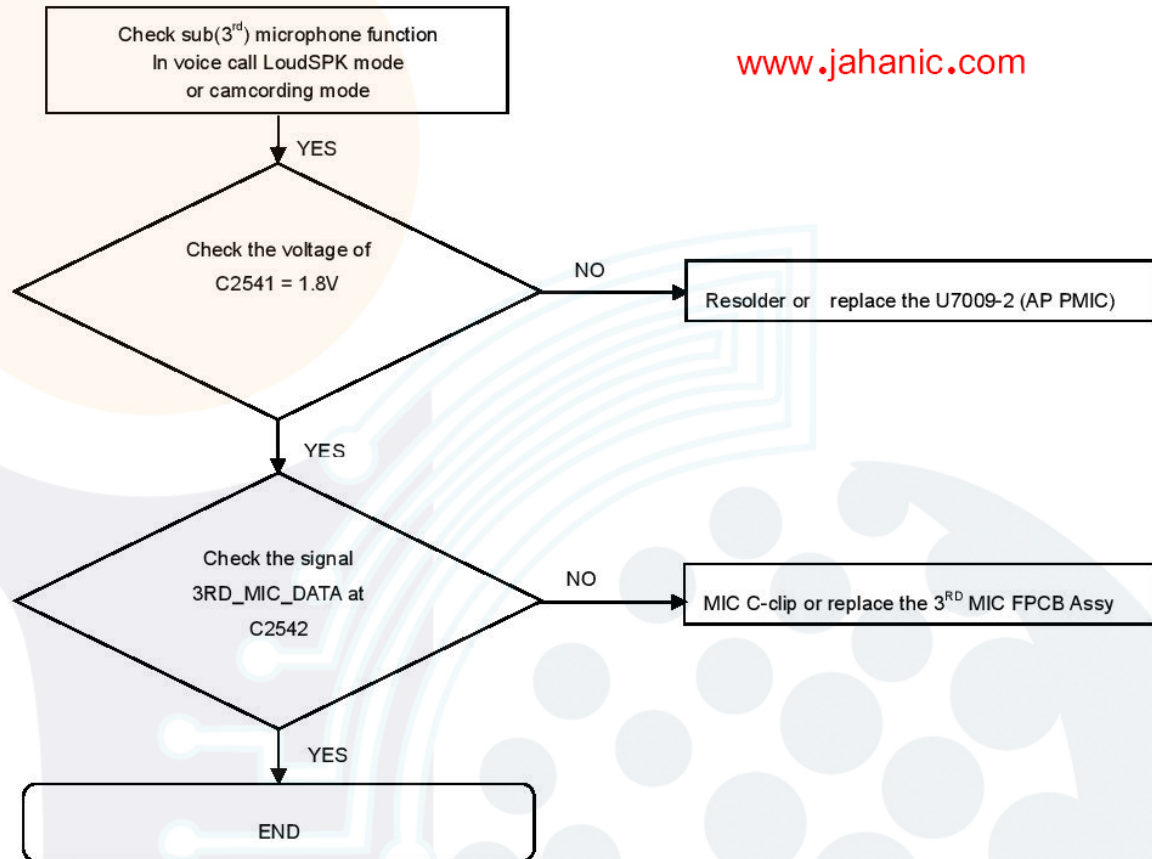


8. Level 3 Repair

8-4-19-3. Sub(3rd) MIC

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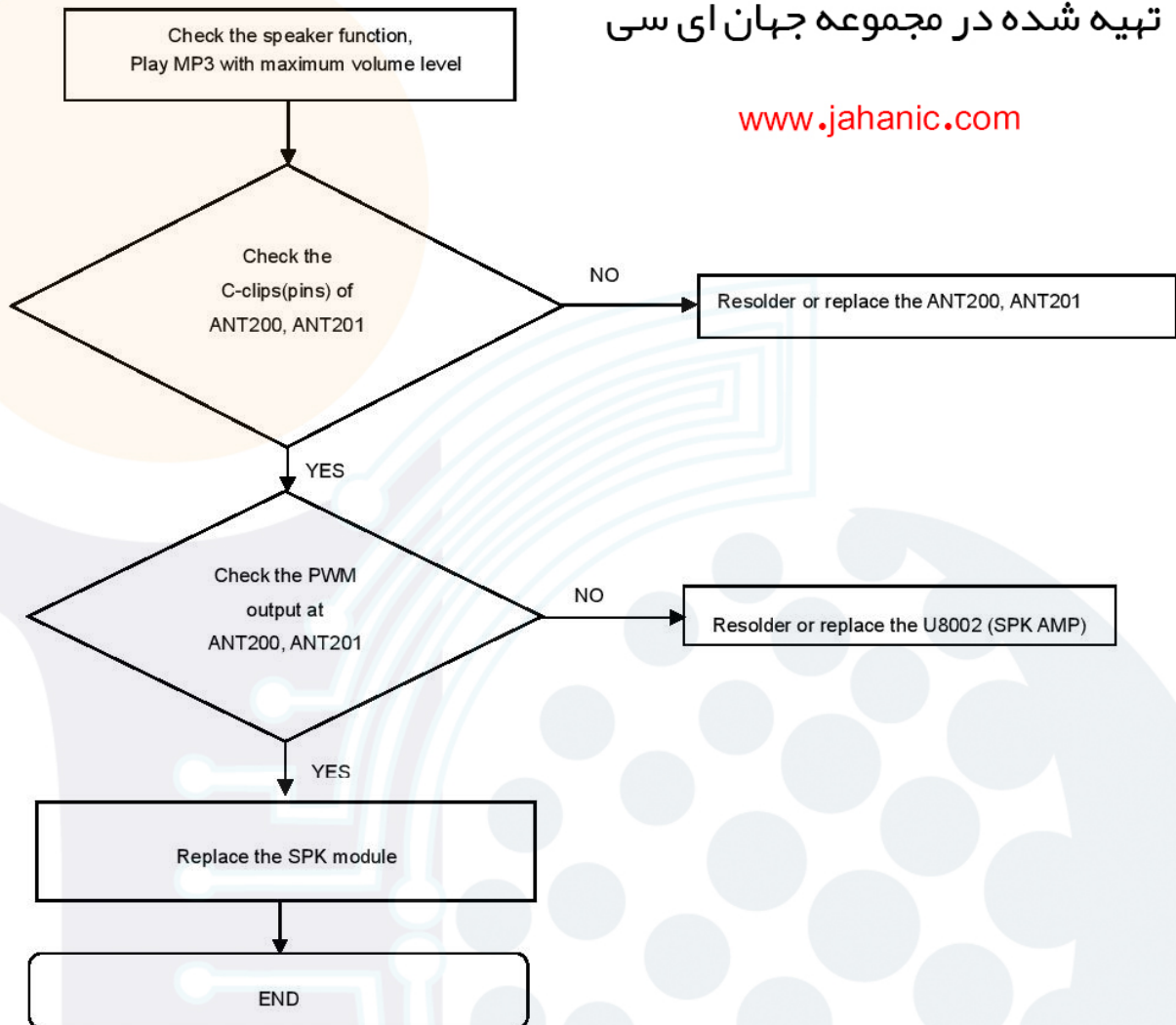


8. Level 3 Repair

8-4-20. Speaker part

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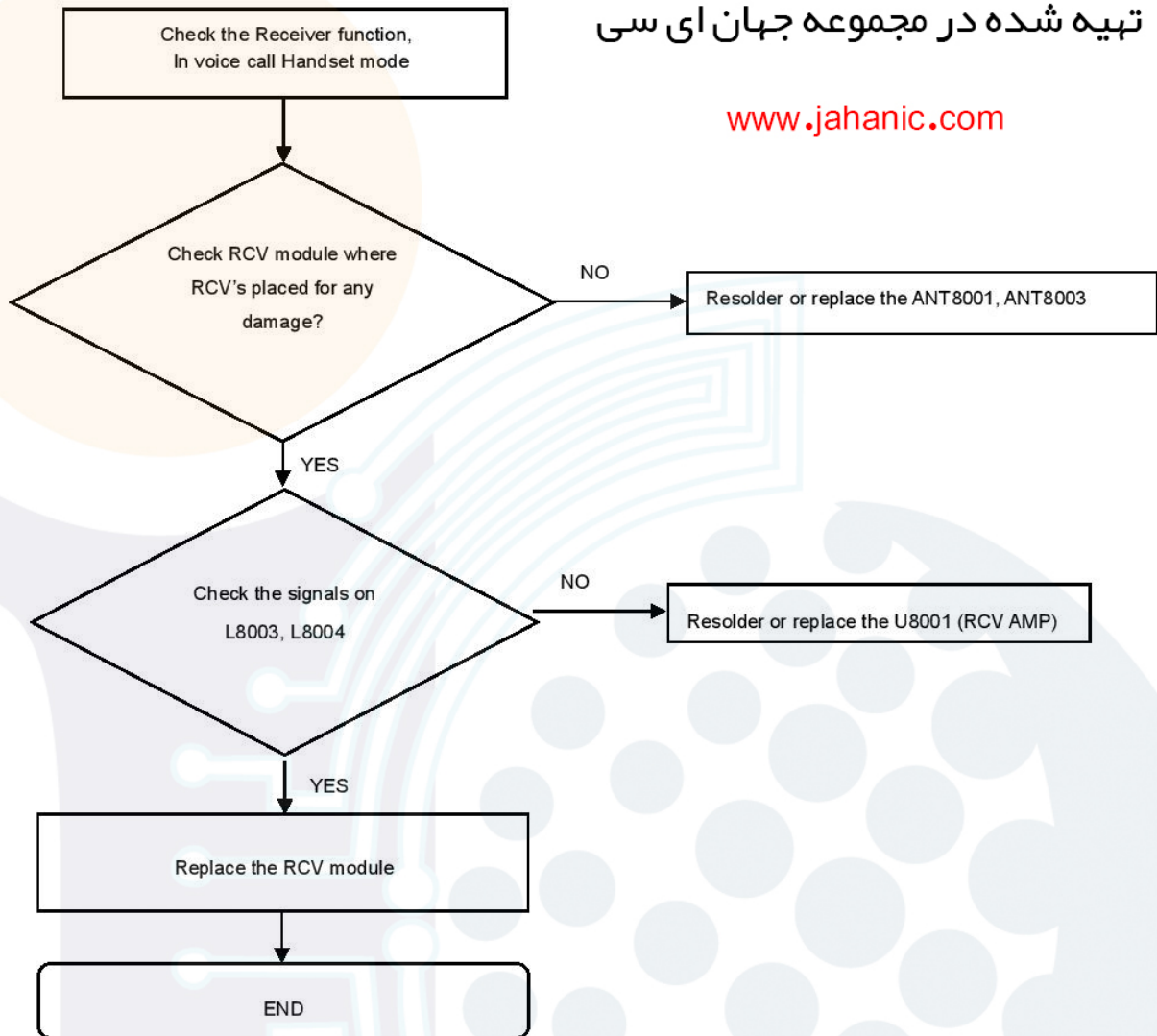


8. Level 3 Repair

8-4-21. Receiver part

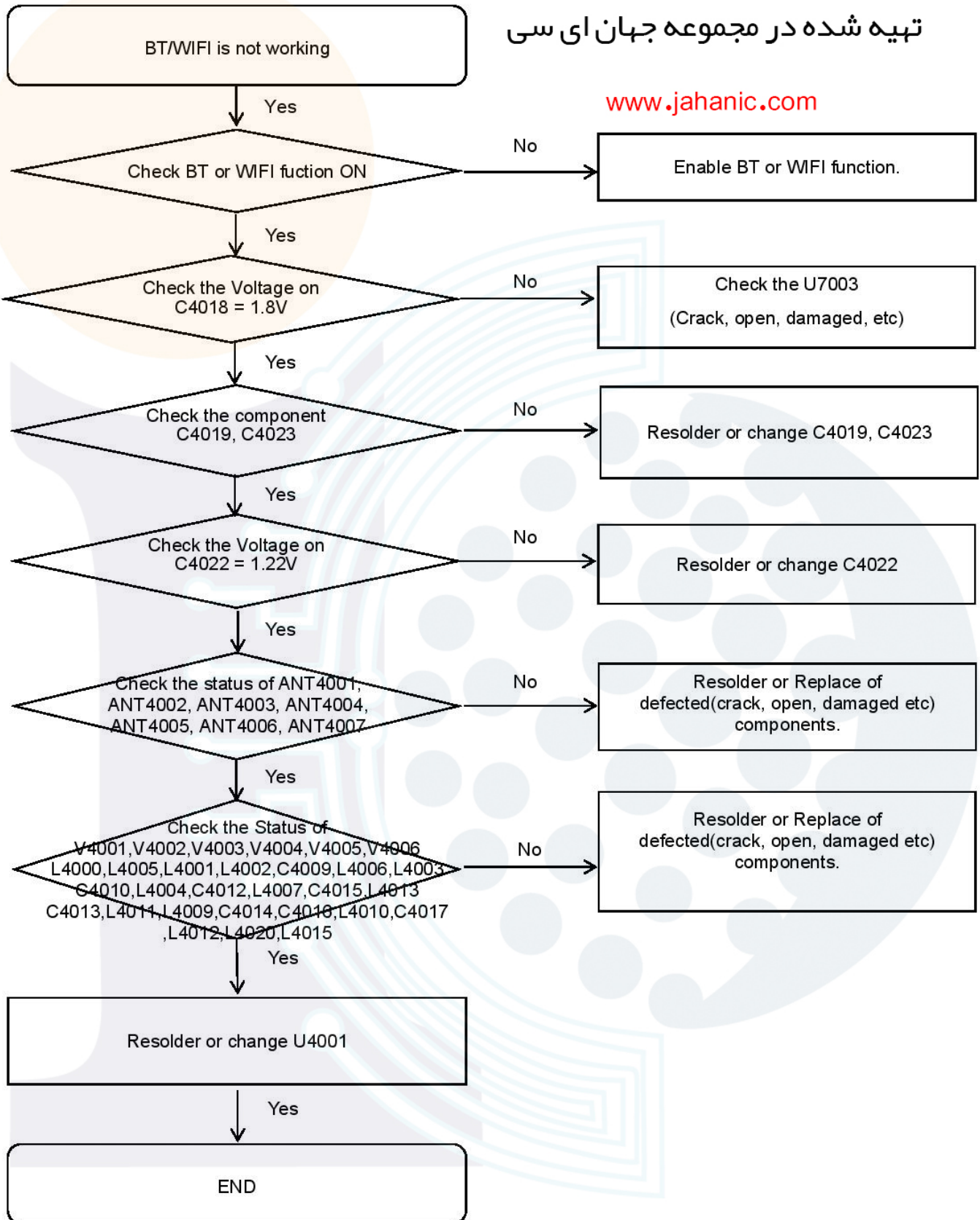
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8. Level 3 Repair

8-4-22. BT/WIFI



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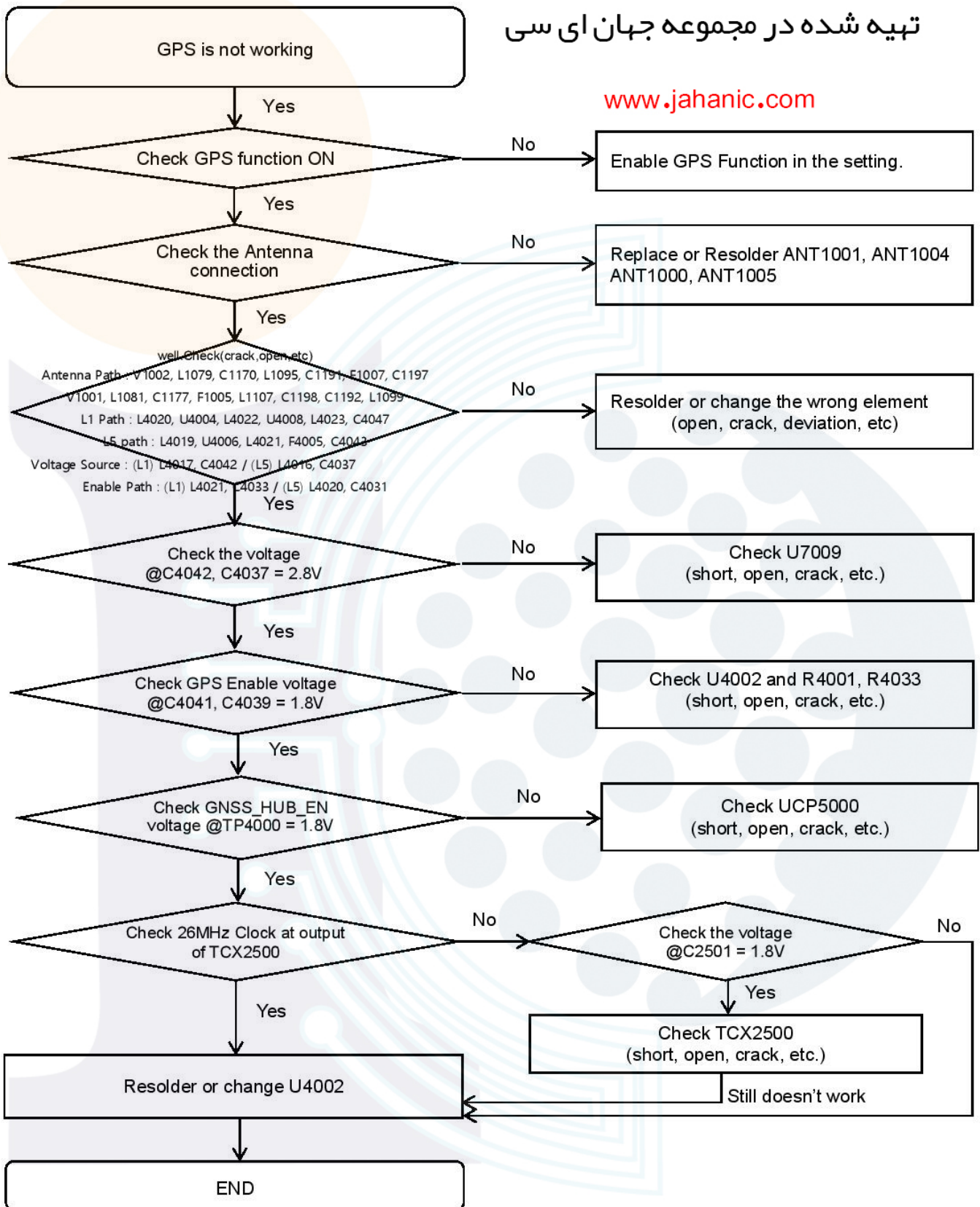
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8. Level 3 Repair

8-4-23. GPS

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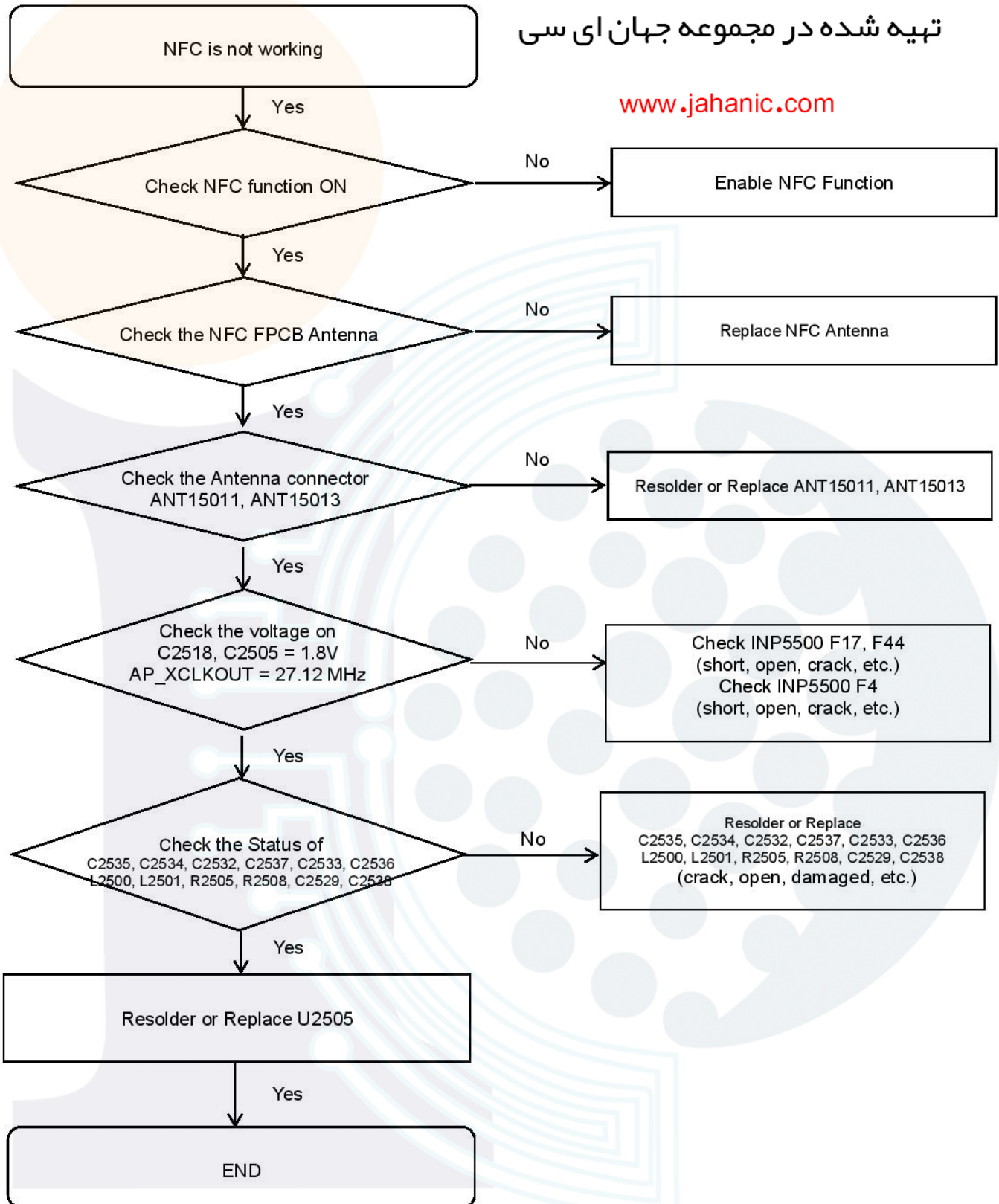


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8. Level 3 Repair

8-4-24. NFC

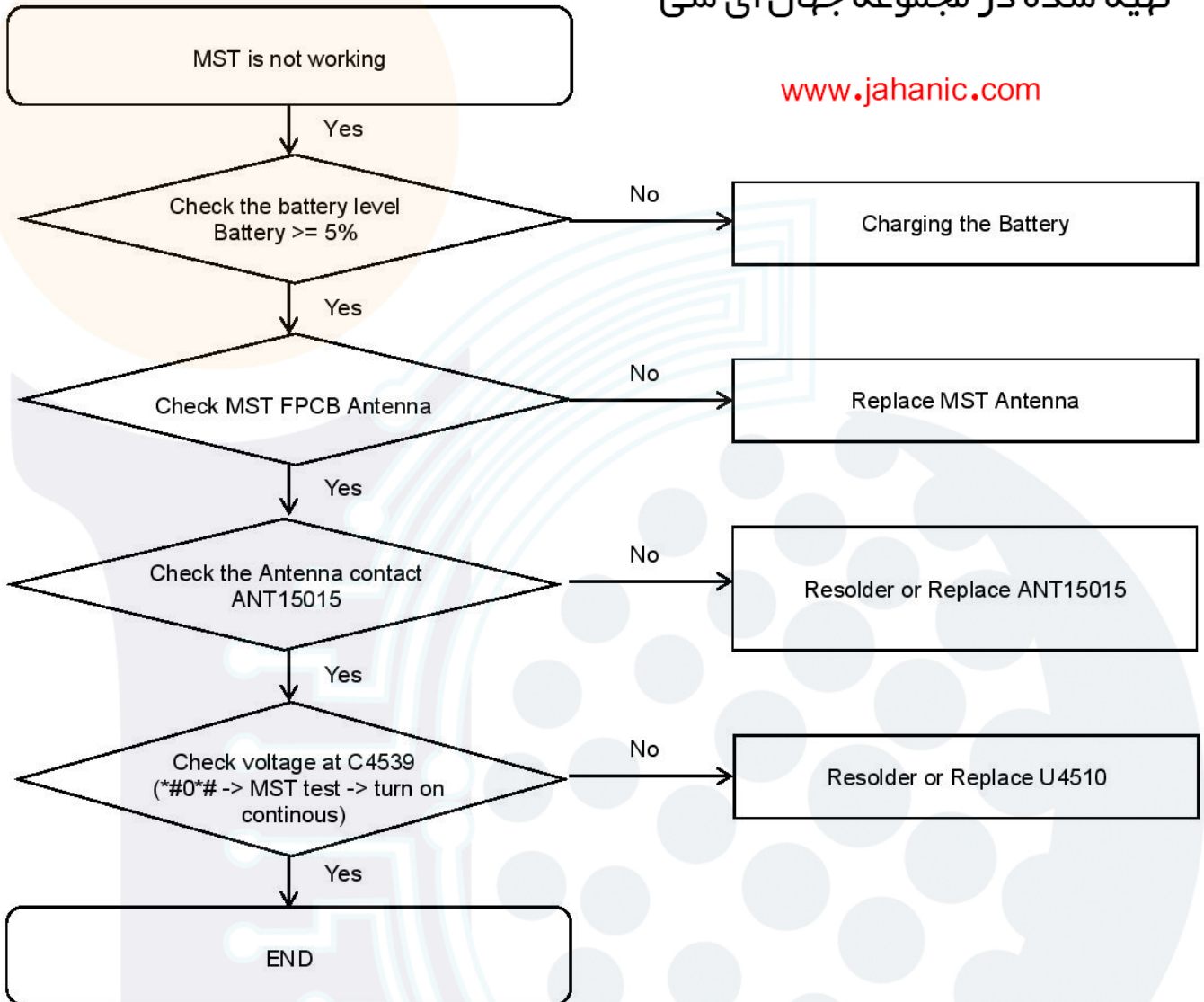


8. Level 3 Repair

8-4-25. MST

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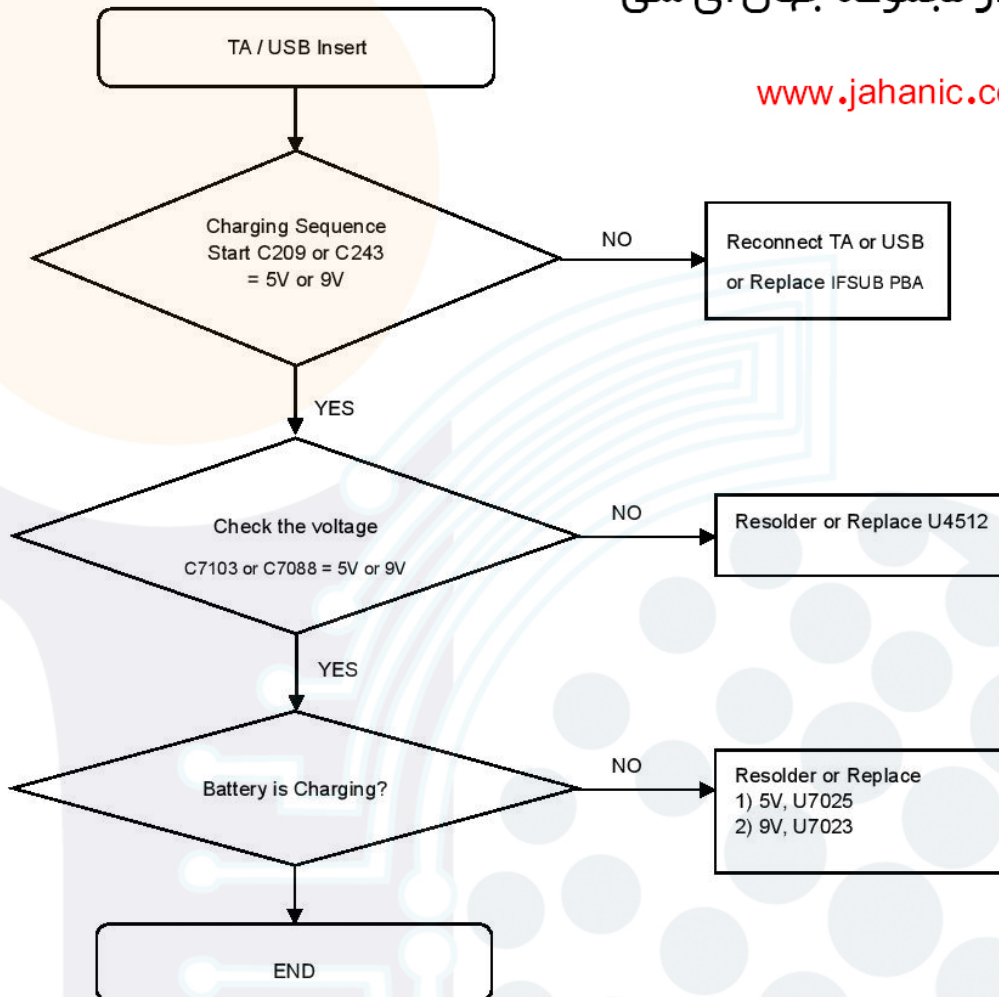


8. Level 3 Repair

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

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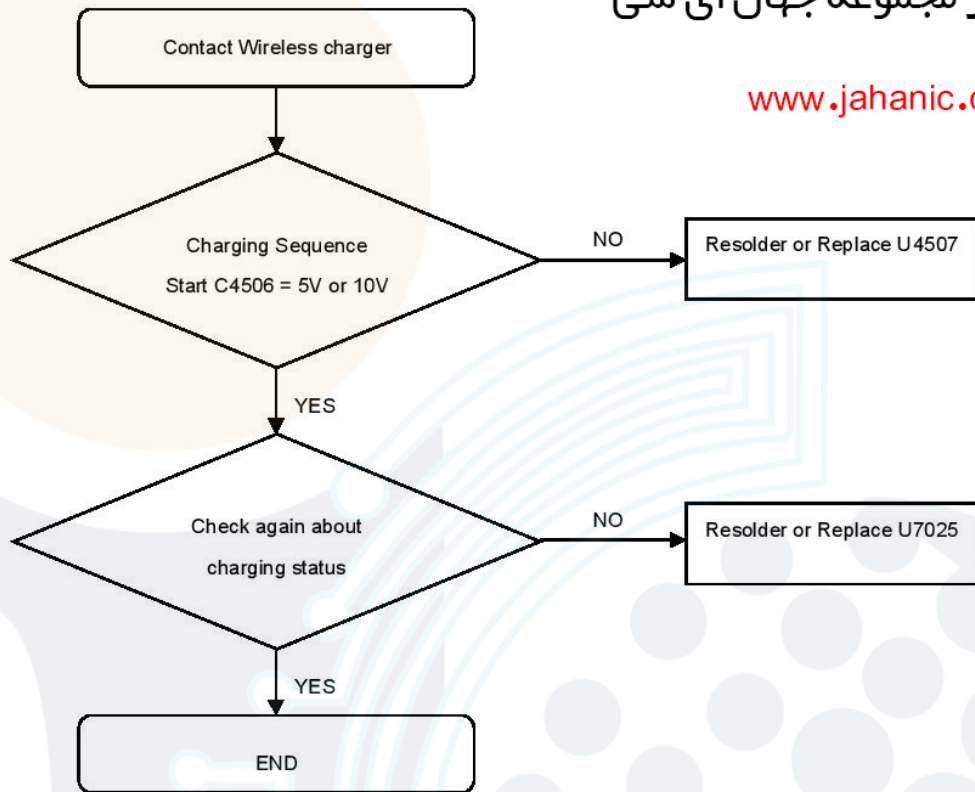


8. Level 3 Repair

8-4-27. Charging Part Wireless Charging (Normal/Fast)

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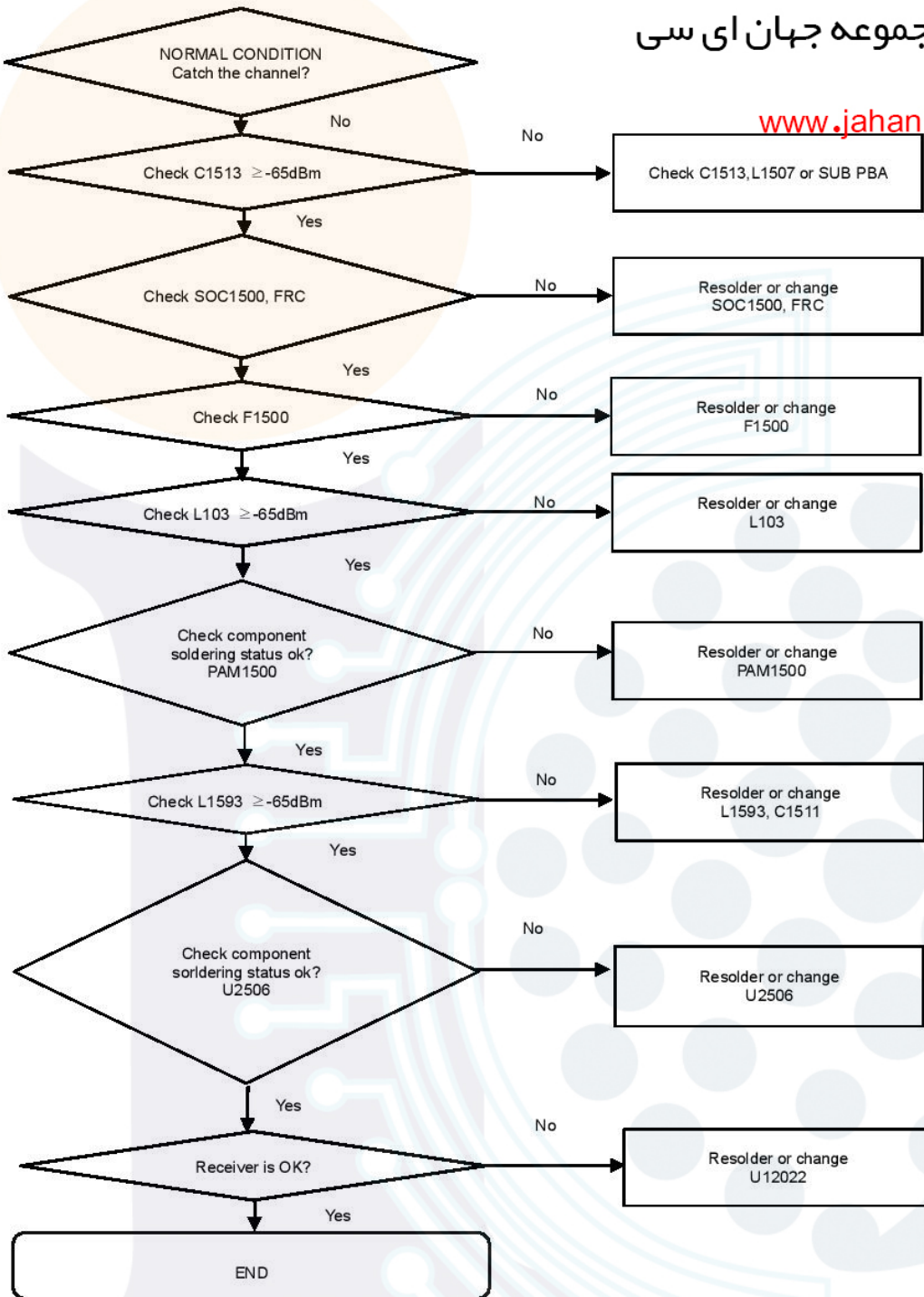


8. Level 3 Repair

8-4-28. GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/14/17/18/19/20/26/28 RX

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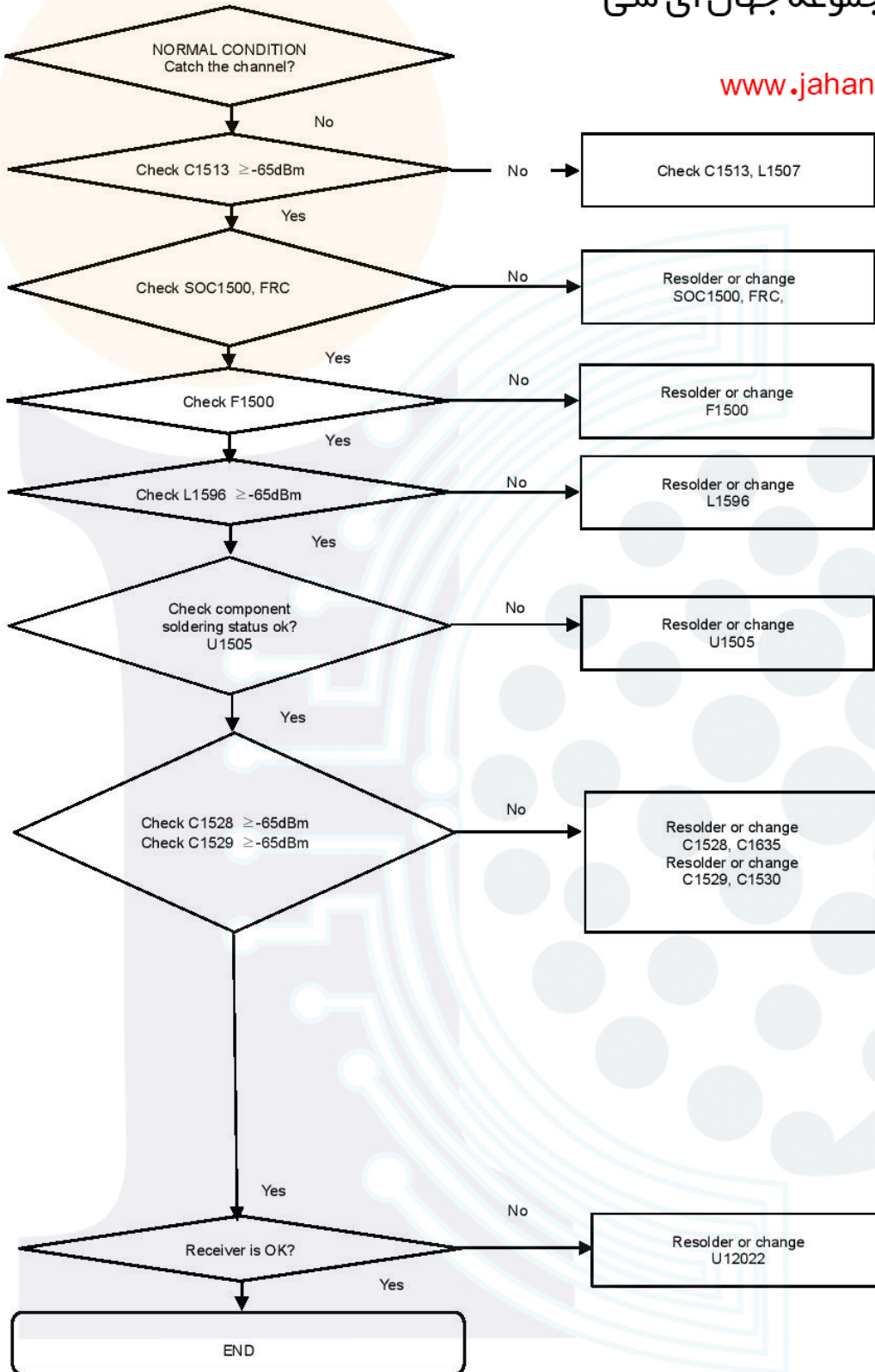


8. Level 3 Repair

8-4-29.GSM 1800/1900, WCDMA B1/2/4, TDSCDMA B34/39, LTE B1/2/3/4/25/39/66 RX

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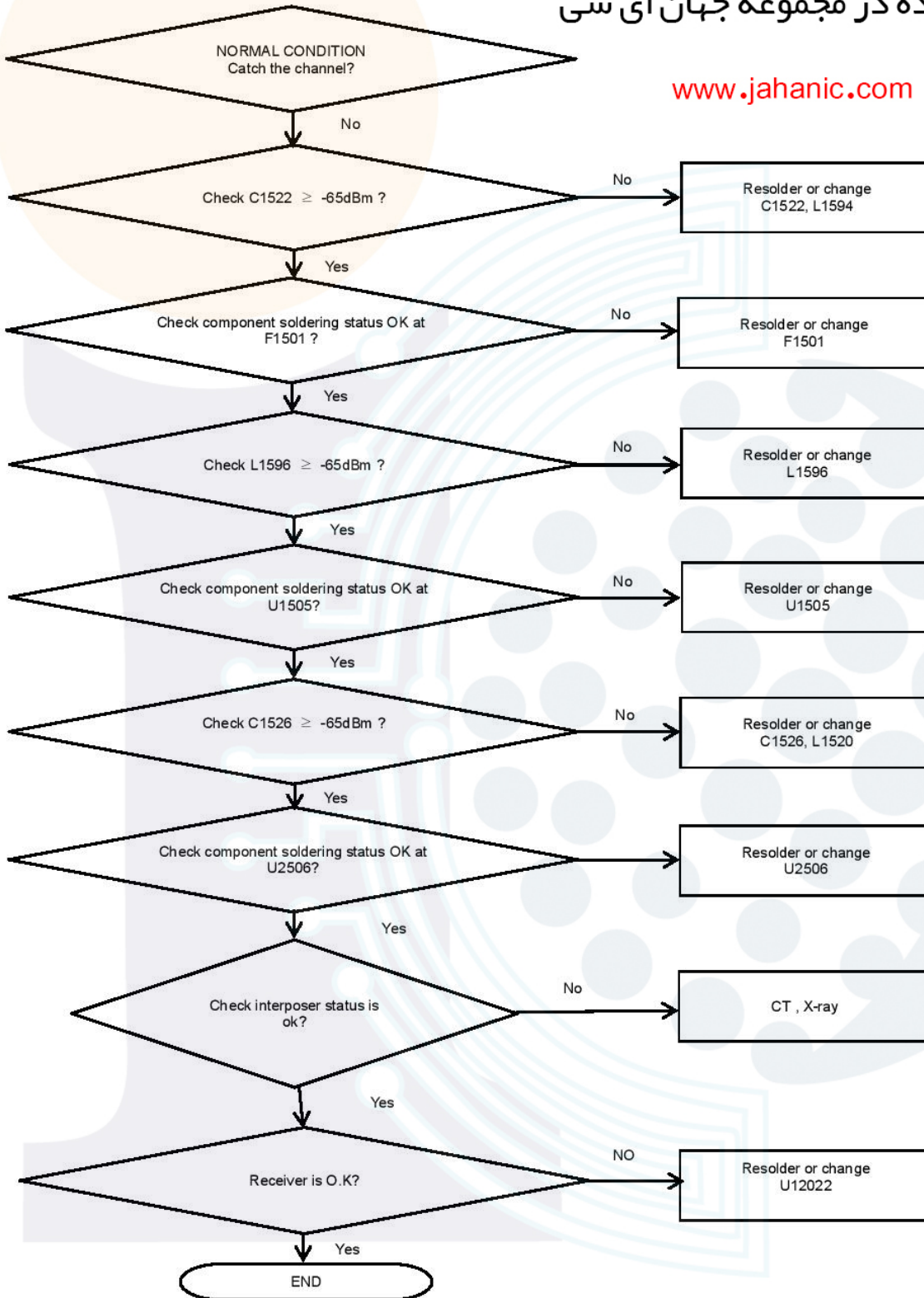
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8. Level 3 Repair

8-4-30. LTE B7/38/40/41 RX

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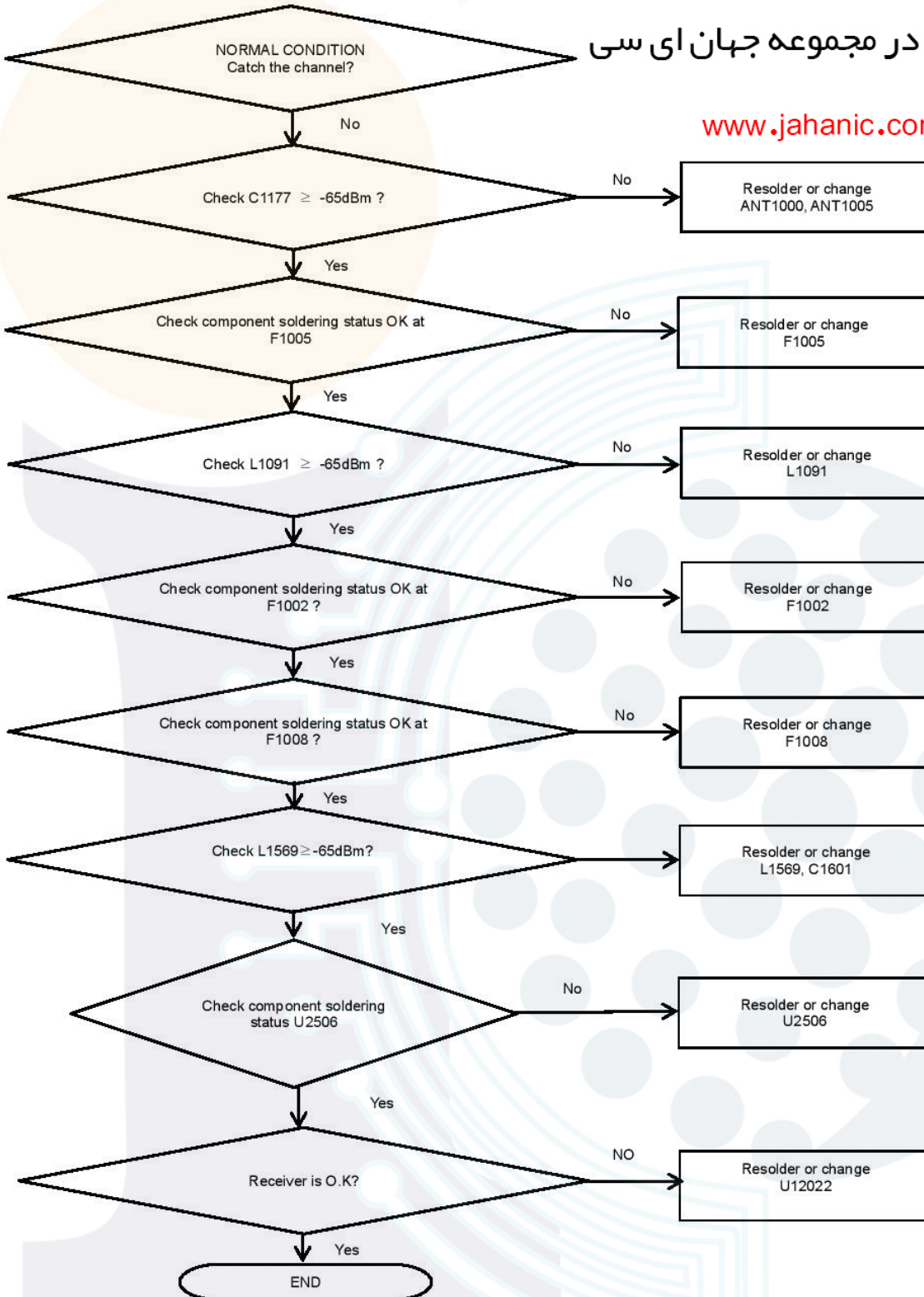
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8. Level 3 Repair

8-4-31. GSM 850/900, WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 DRX

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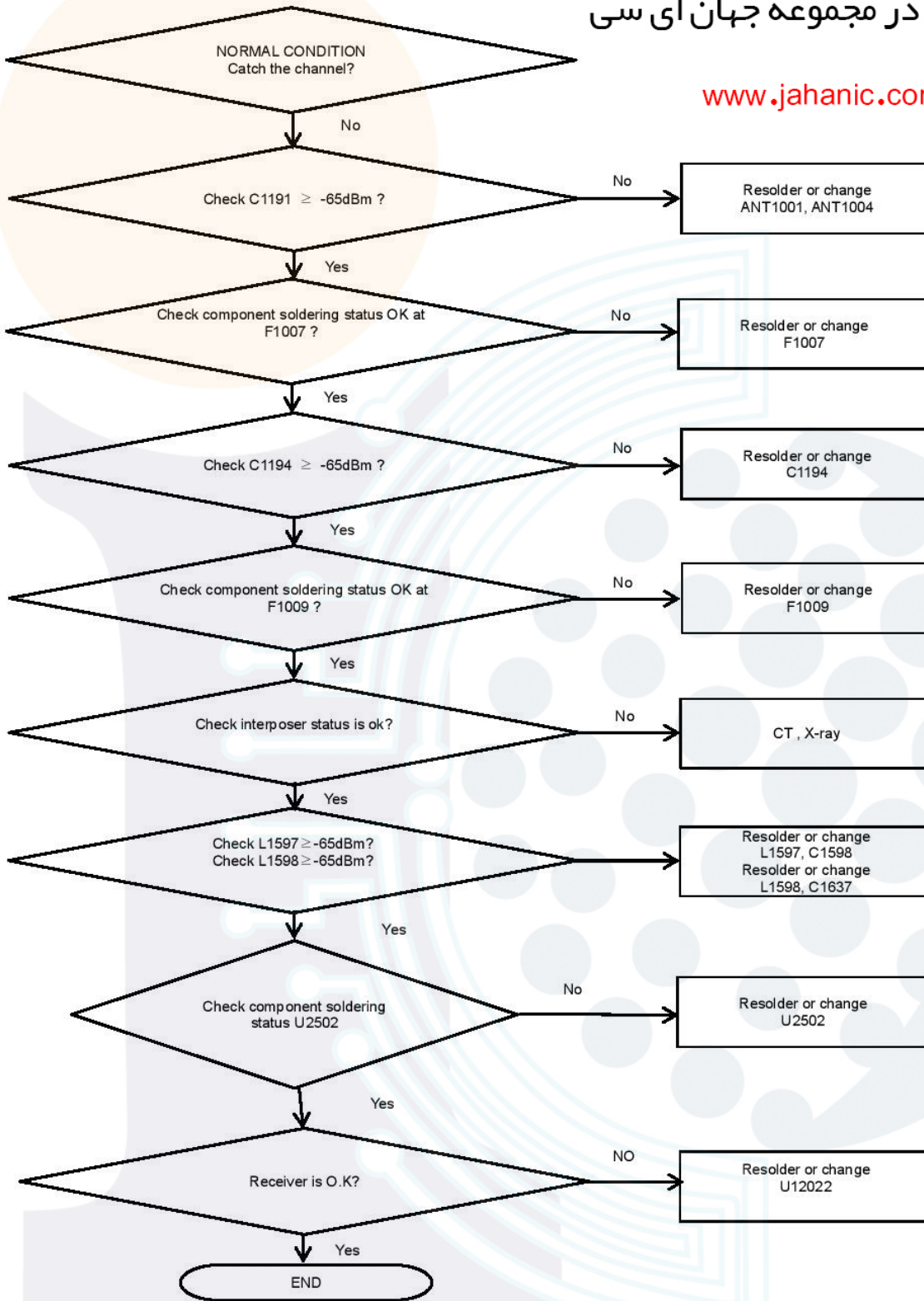


8. Level 3 Repair

8-4-32. GSM1800/1900, WCDMA 1/2/4, LTE B1/2/3/4/25/32/66 DRX

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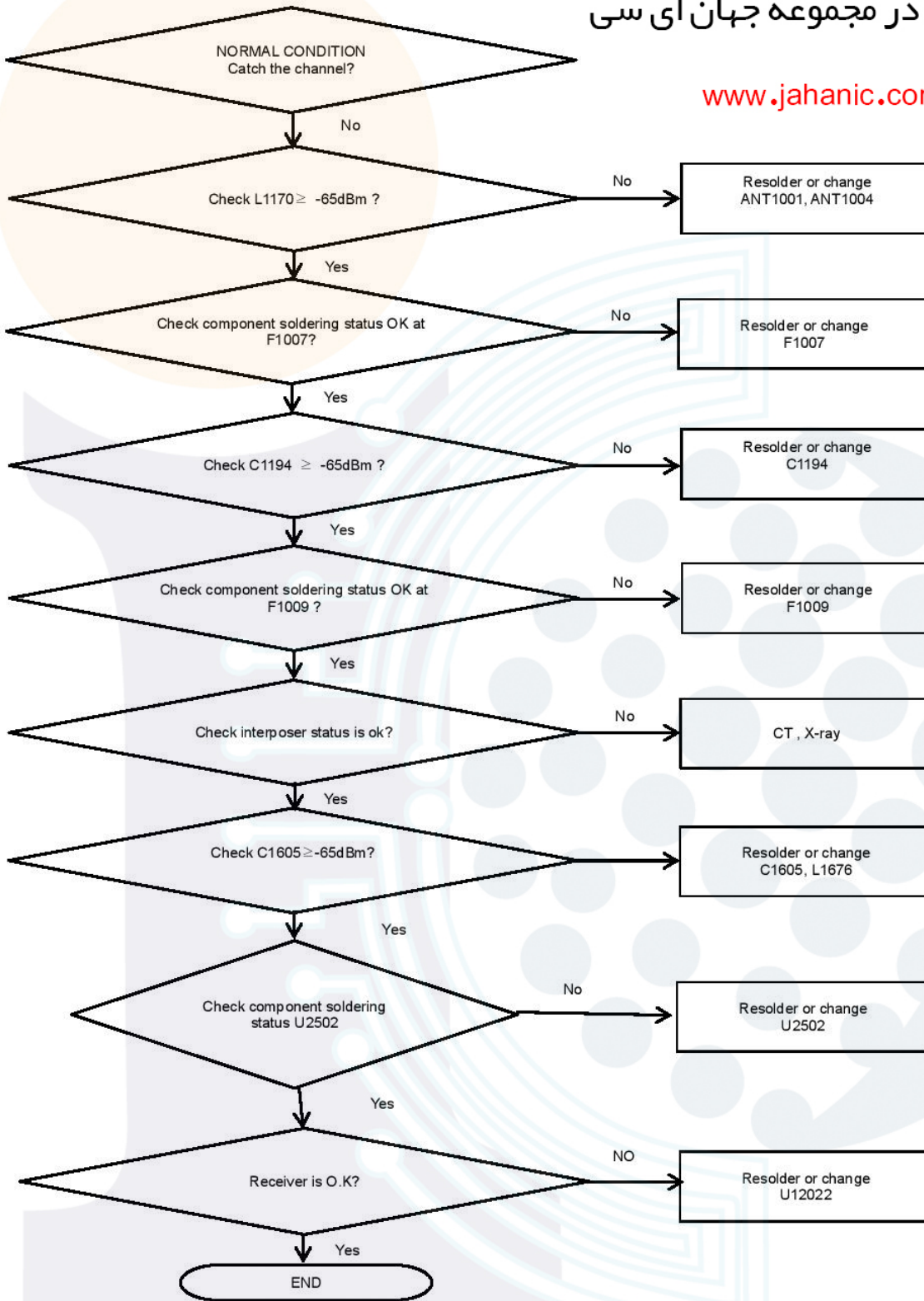
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8. Level 3 Repair

8-3-33. LTE 7/38/40/41 DRX

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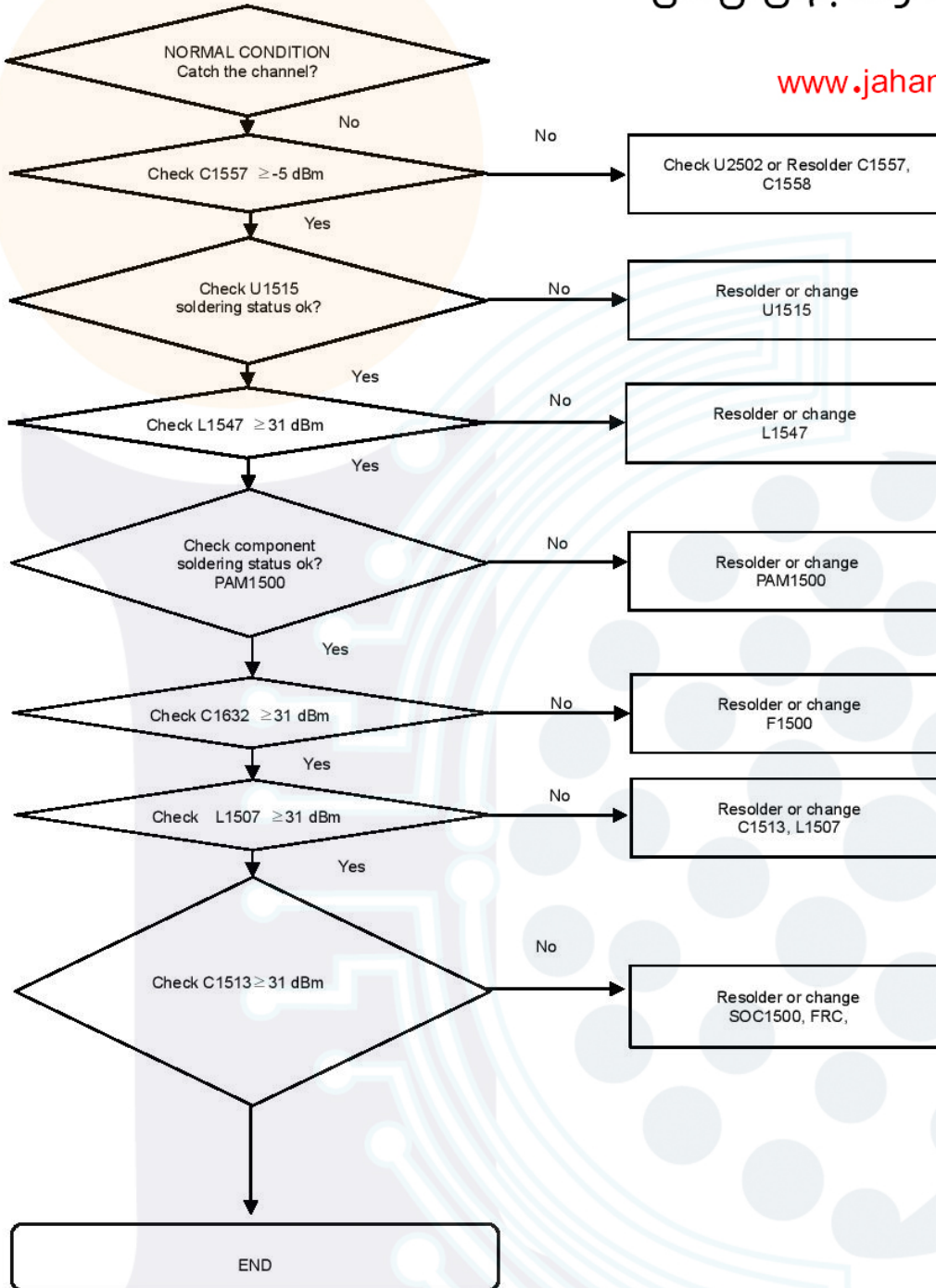
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8. Level 3 Repair

8-4-34. GSM 850/900 TX

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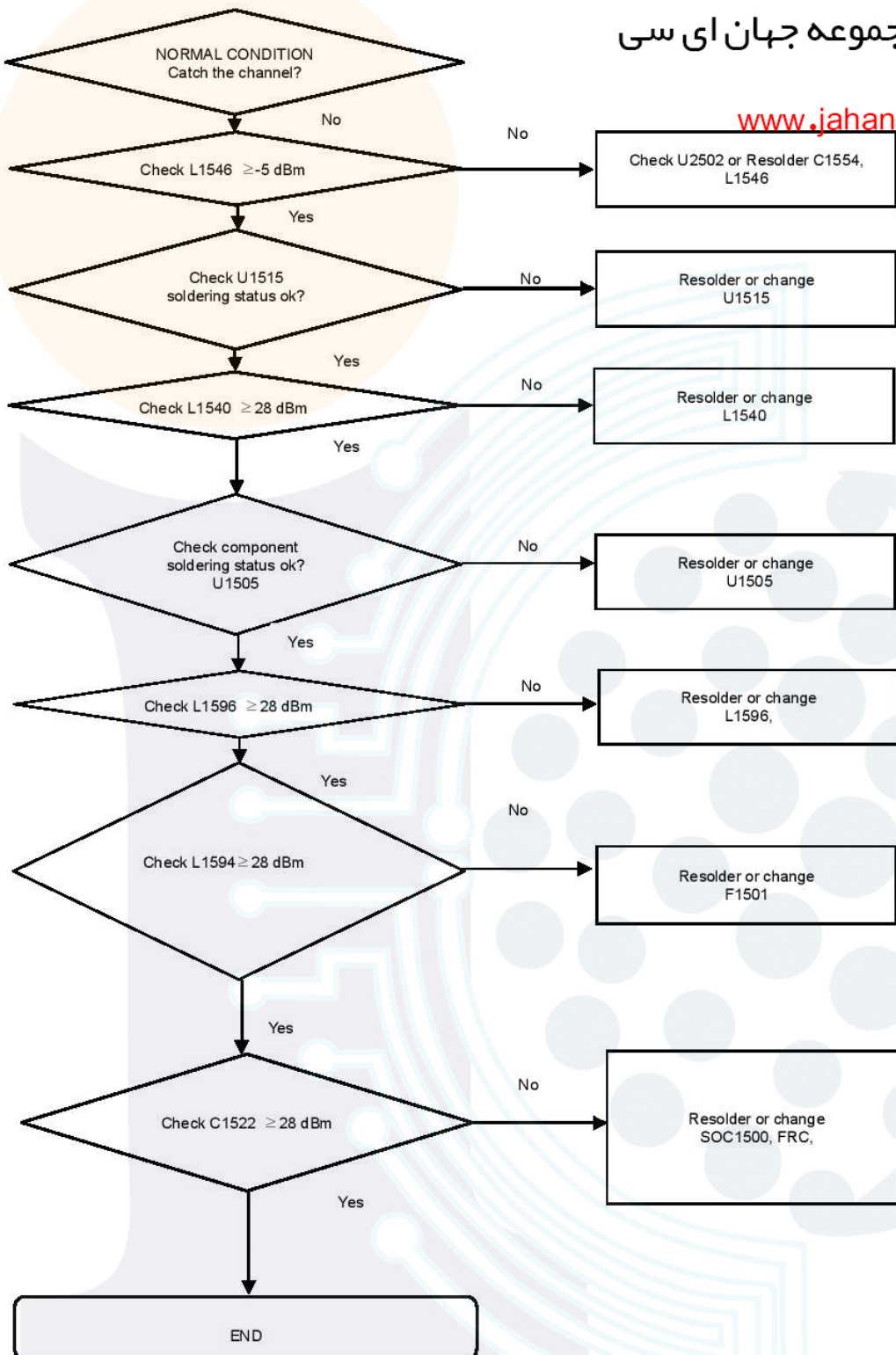


8. Level 3 Repair

8-4-35. GSM 1800/1900 TX

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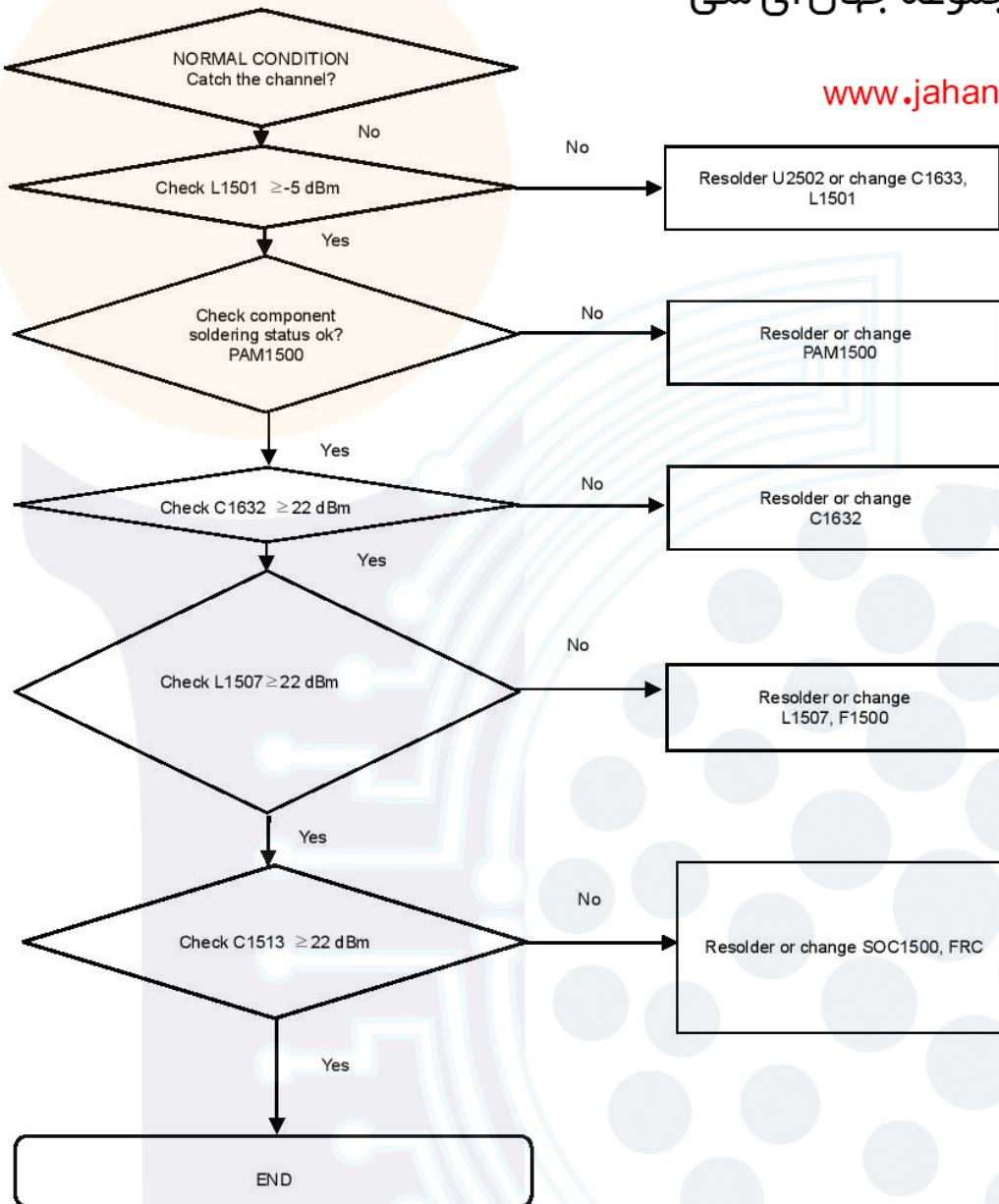


8. Level 3 Repair

8-4-36. WCDMA B5/8, LTE B5/8/12/13/17/18/19/20/26/28 TX

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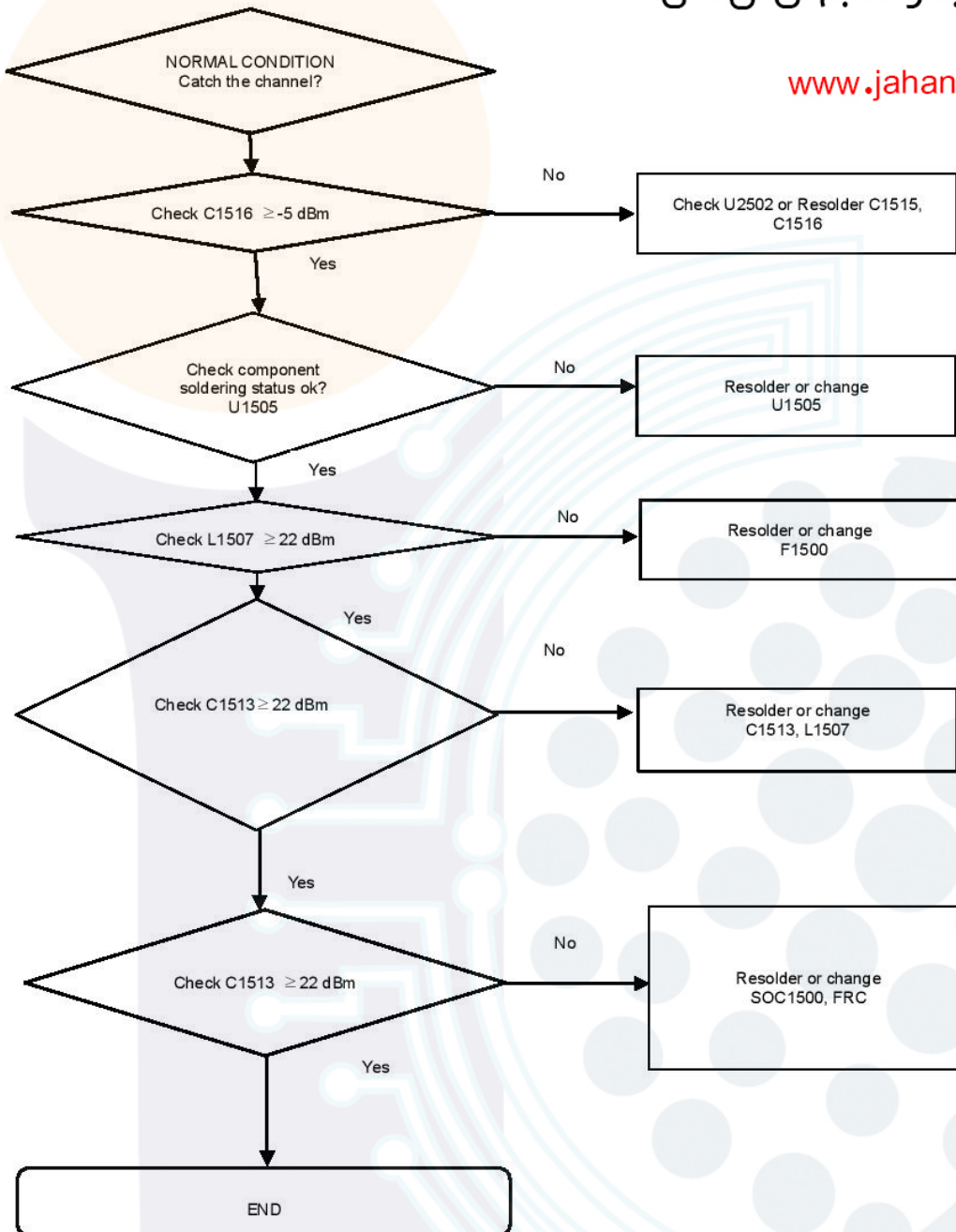


8. Level 3 Repair

8-4-37. WCDMA B1/2/4, TDSCDMA B34/39, LTE B1/2/3/4/25/66 TX

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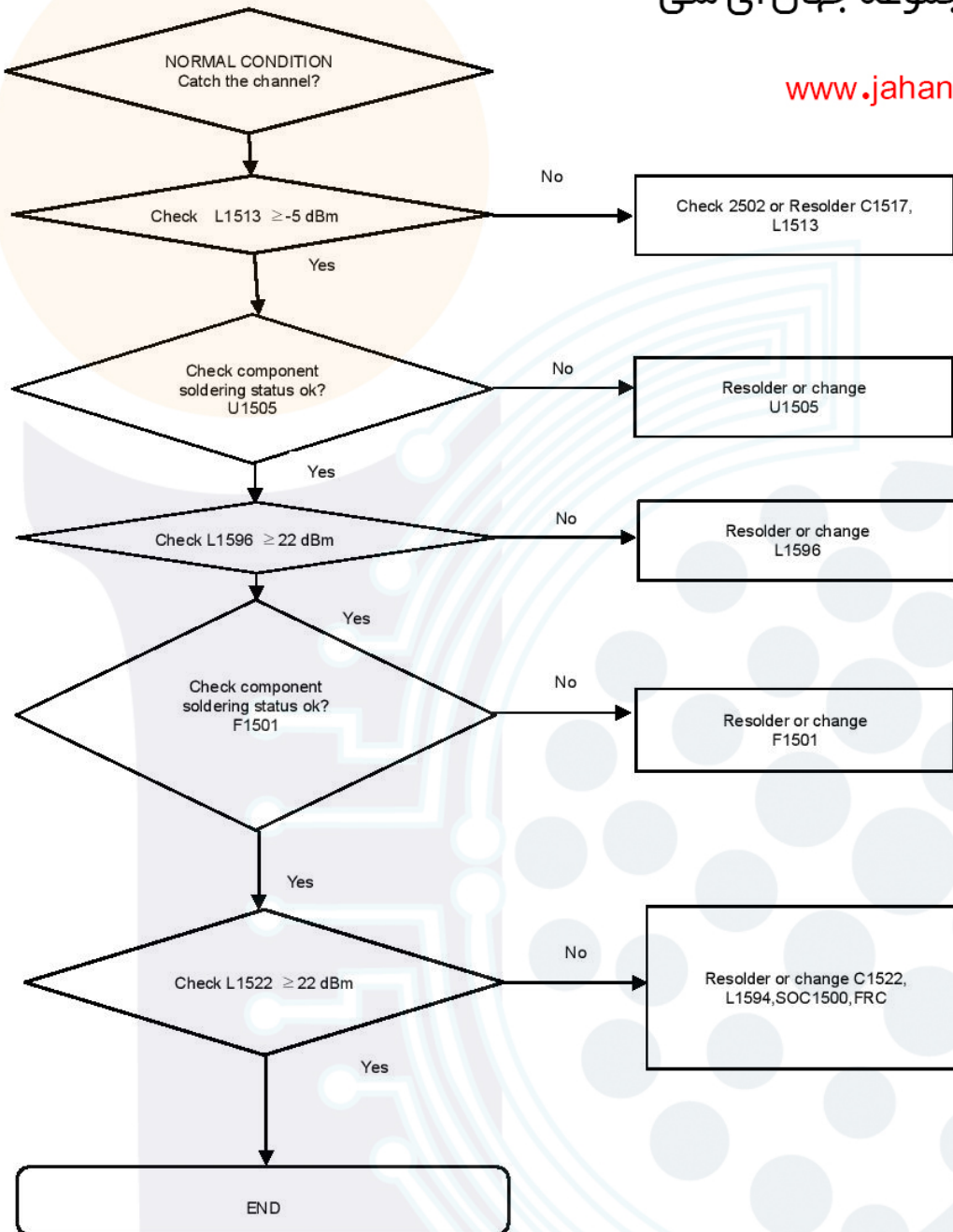


8. Level 3 Repair

8-4-38. LTE B7/38/40/41 TX

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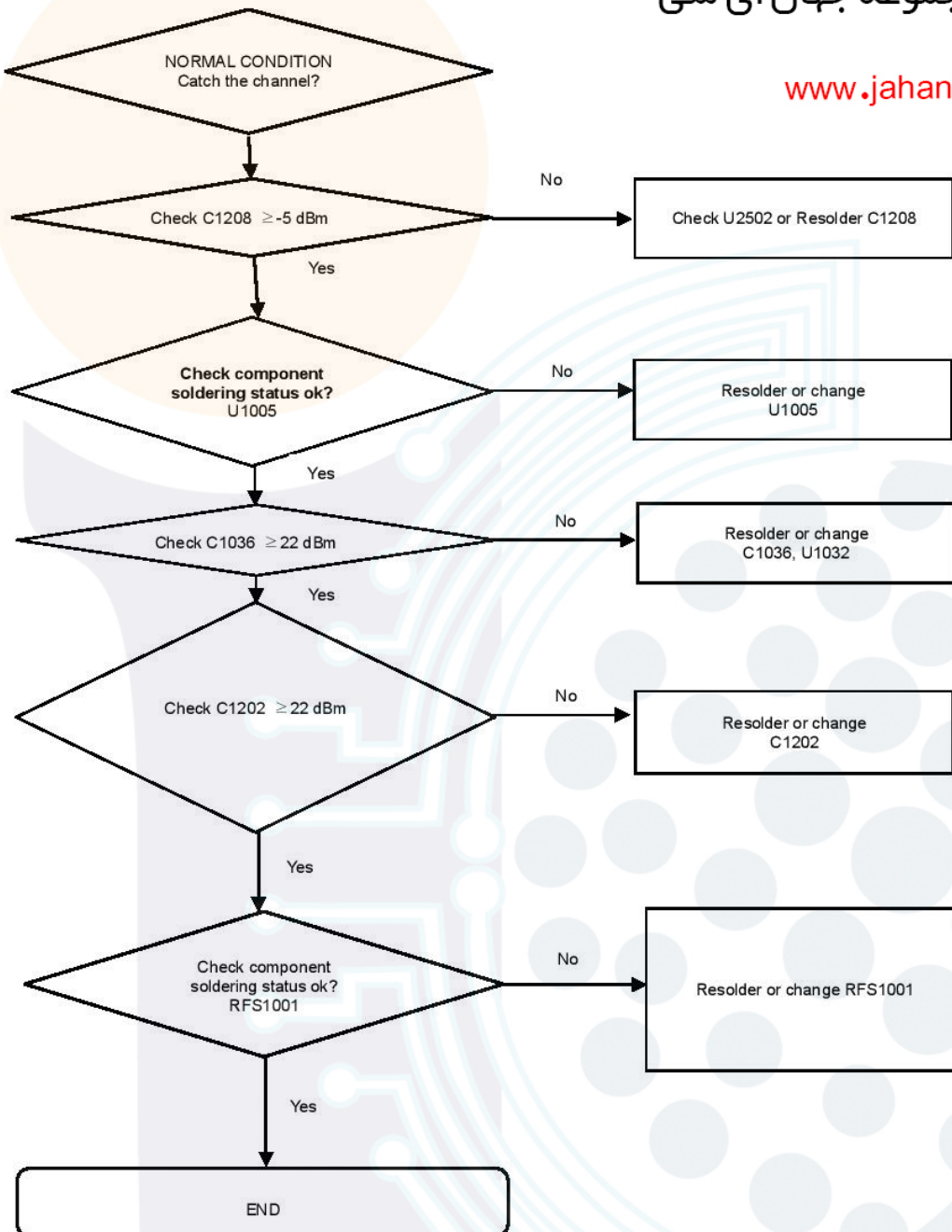


8. Level 3 Repair

8-4-39. N78 TX

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8. Level 3 Repair

8-4-40. N78 RX

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