# GalaxyS7 Edge Repair Tips Troubleshooting Guide (by Part)

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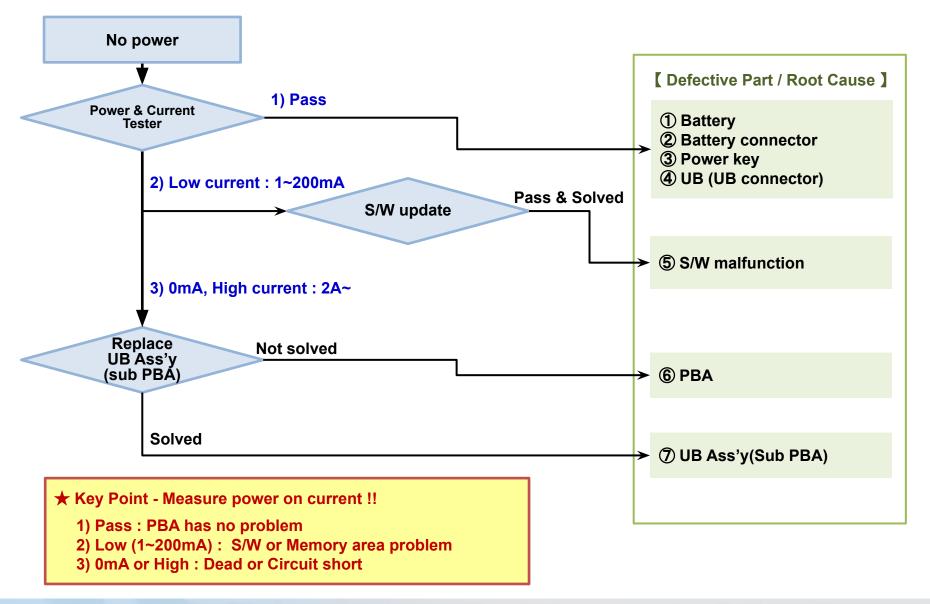
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- This guide is for a diagnosis and repair.
- This guide gives the solution for normal case, so it can be different in case of specific cases.
- The repair of component level is not required in this guide, you can refer to the service manual if you want. This is for repair L1 & 2.
- The PBA should be treated under ESD protection environment.
- It should be confirmed at the first step if it's normal warranty repair or not.
  - For the following cases, it should be classed as out of warranty
- Expired warranty period, Customer faults and Rooted phone.
- Final test is mandatory for all repaired phone regardless of repair result.

- Tip 1. PBA No power
- Tip 2. PBA Freezing (during booting up)
- Tip 3. PBA Freezing (during operation)
- Tip 4. PBA Auto power off / rebooting
- Tip 5. PBA Transmission & Receiving
- Tip 6. PBA No SVC
- Tip 7. PBA Battery drains rapidly
- Tip 8. PBA No or faulty display
- Tip 9. OCTA No or faulty display
- Tip 10. OCTA Missing line or dot

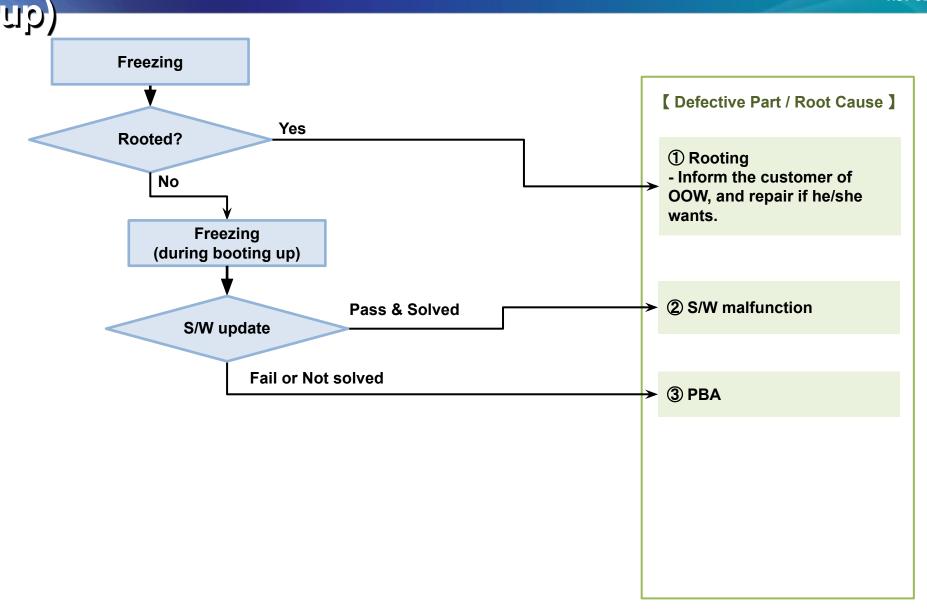
- Tip 11. OCTA Touch problem
- Tip 12. Sub PBA Sub key problem
- Tip 13. Sub PBA No Charging
- Tip 14. Speaker Sound problem
- Tip 15. Receiver Receiving voice problem
- Tip 16. Mic Sending voice problem (on RCV)
- Tip 17. Mic Sending voice problem (on SPK)
- Tip 18. Camera Camera problem
- Tip 19. Keys Key problem
- Tip 20. Sensors

### Tip 1. PBA - No Power

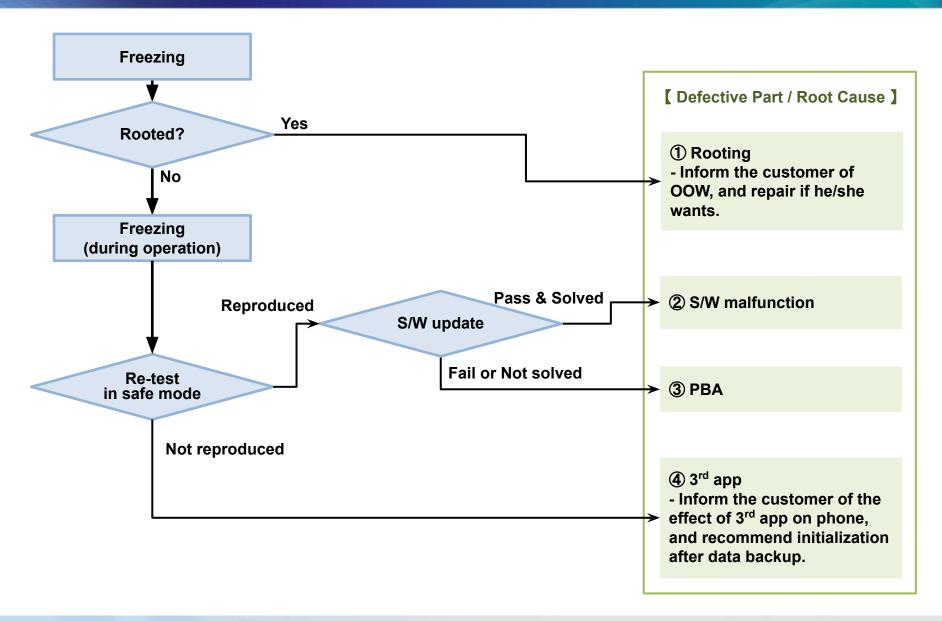


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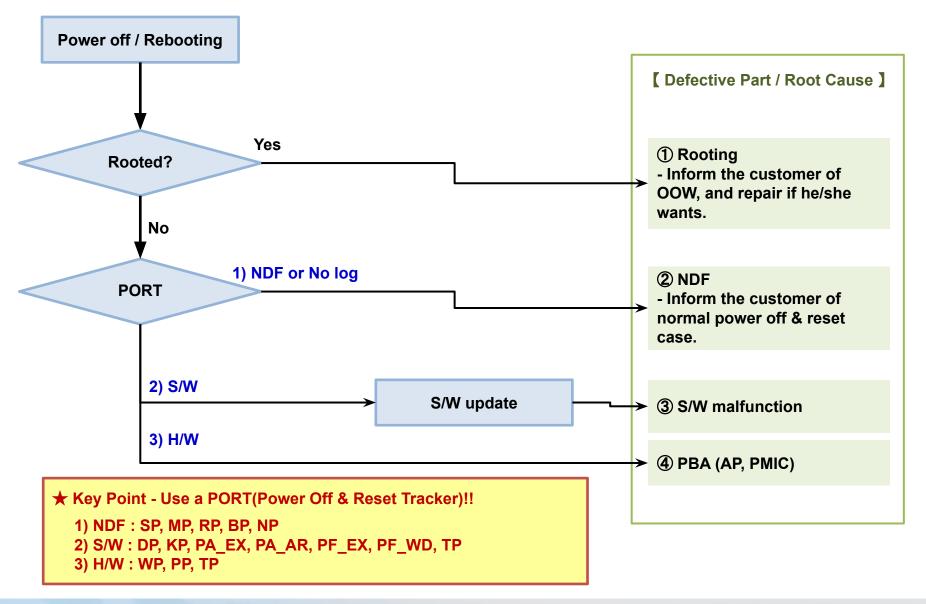
## Tip 2. PBA - Freezing (during booting



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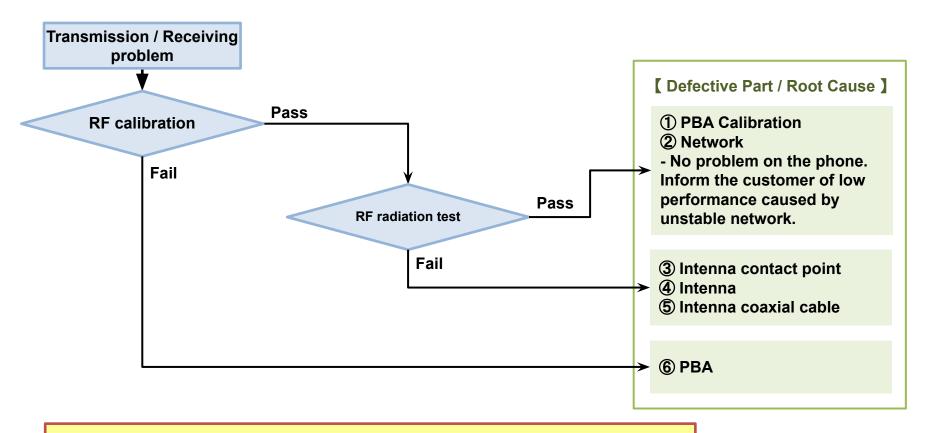
## Tip 4. PBA - Auto power off / rebooting

#### PORT(Power Off & Reset Tracker)

- \*#9900# → Run dumpstate/logcat/modem log → OK → OK → Copy to sdcard (include CP Ramdump)
- Connect the device to PC and open "RR.p" in "log" folder.
- The reason codes in detail

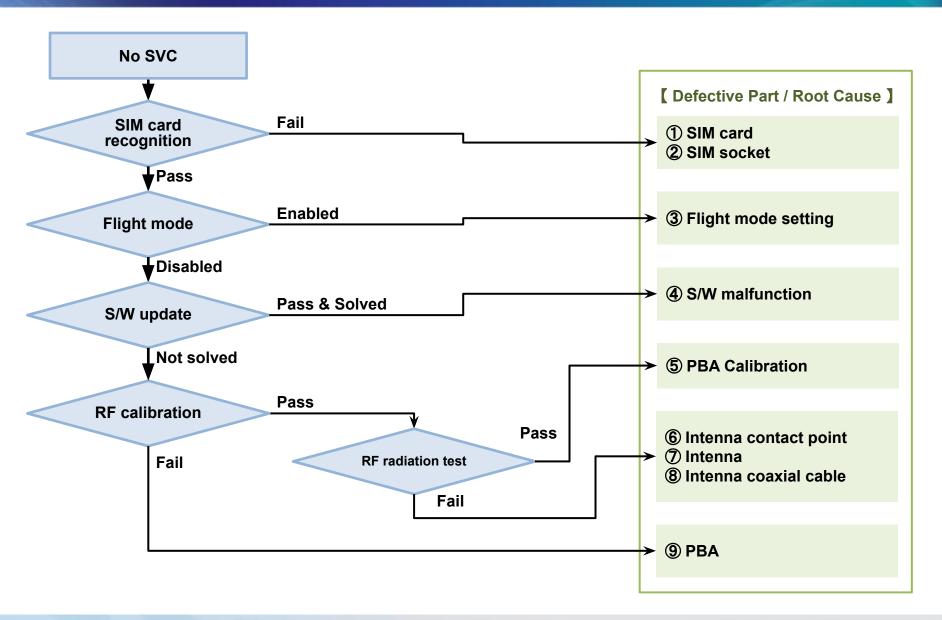
Name	Meaning	Description	Defect part
SP	SMPL : Sudden Momentary Power Loss	Sudden Momentary Power Loss Can happen when battery is detached & attached very fast within 0.5 sec.	NDF
WP	<b>W</b> TSR : Watchdog Timeout and Soft Reset	Malfunction of AP chipset	H/W defect
DP	Watch <b>D</b> og reset	System lockup, Abnormal watchdog reset	S/W defect
KP	<b>K</b> ernel Panic	Abnormal reset by Kernel panic	S/W defect
MP	<b>M</b> anual Reset	Press & hold power key for 7 sec and power off	NDF
PP	Power reset	Abnormal reset by PMIC	H/W defect
RP	Use <b>R</b> reboot	Normal rebooting	NDF
BP	<b>B</b> ootloader reset	After downloading binary or rebooting from recovery mode	NDF
NP	<b>N</b> ormal power on	Normal power on	NDF
TP	Thermal reset	When the temperature is too high	H/W defect S/W defect with a low percentage
PA_EX		Exception happened on Phone process	S/W defect
PA_AR		ANR happened on Phone process	S/W defect
PF_EX		Exception happened on System server	S/W defect
PF_WD		Watchdog happened on System server	S/W defect

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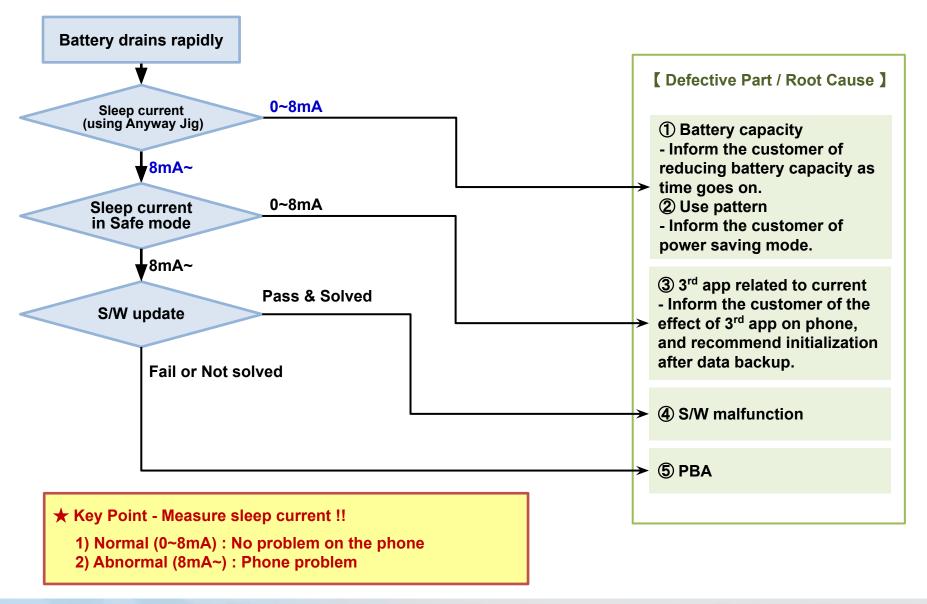


Key Point - Confirm if PBA is defective or not !!				
RF calibration	RF radiation test	Defective part		
Pass	Pass	No problem on the phone		
Pass	Fail	Not PBA		
Fail	-	PBA		

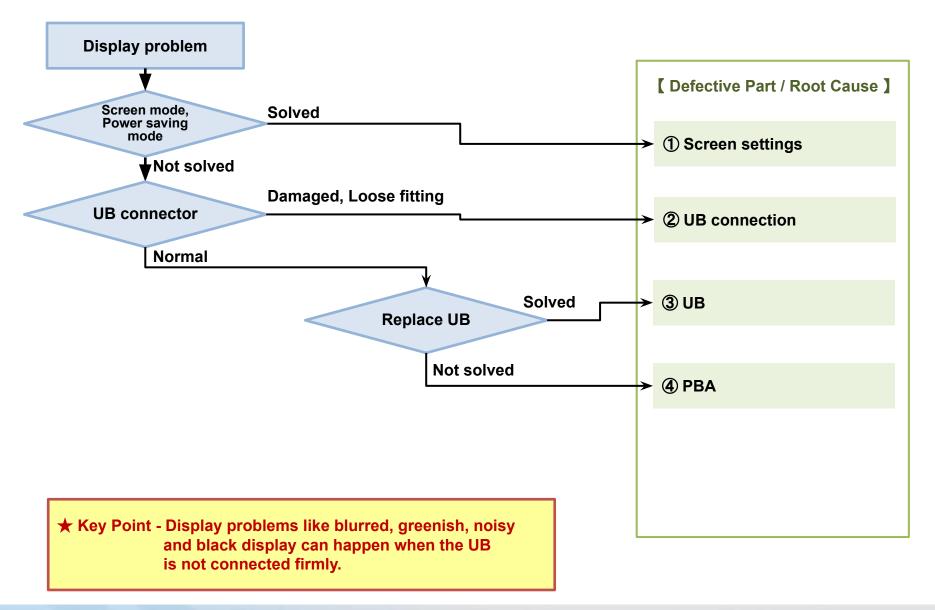
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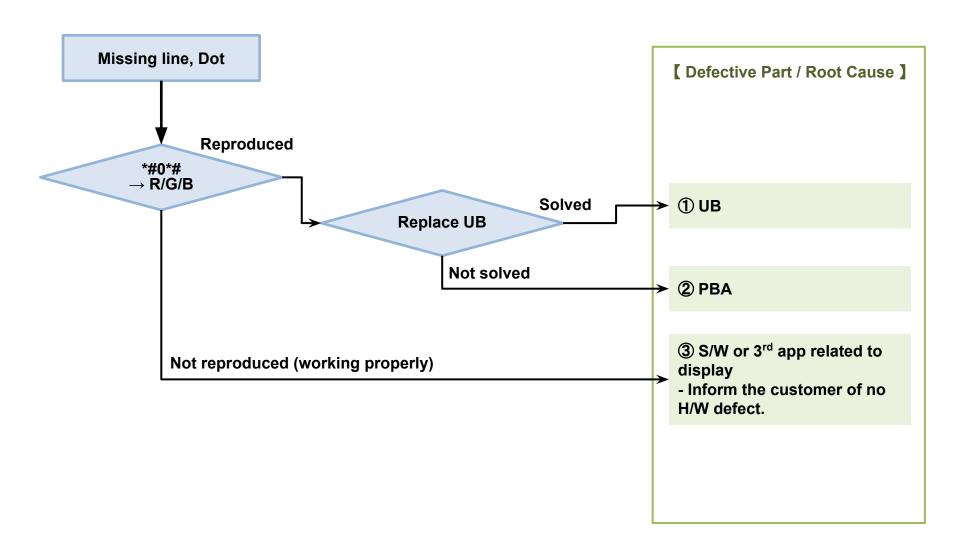
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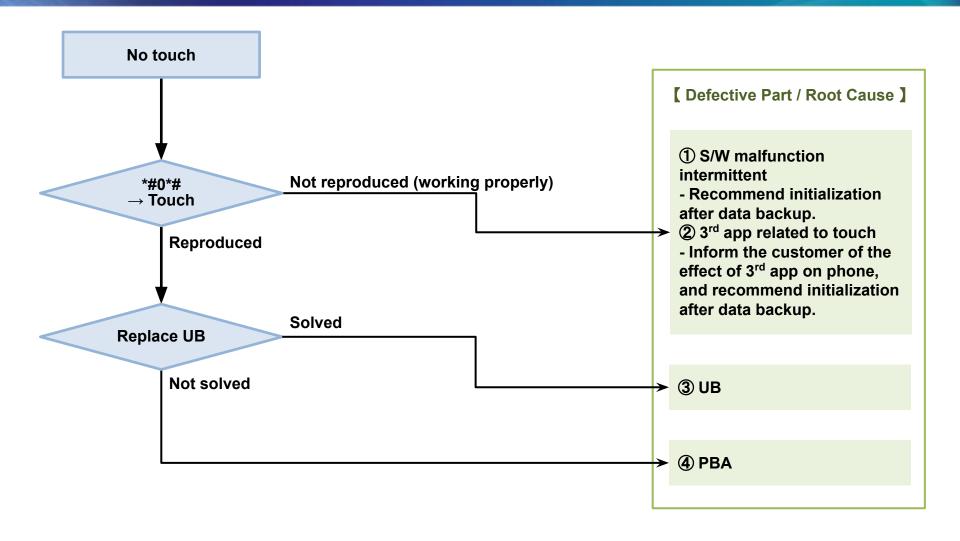


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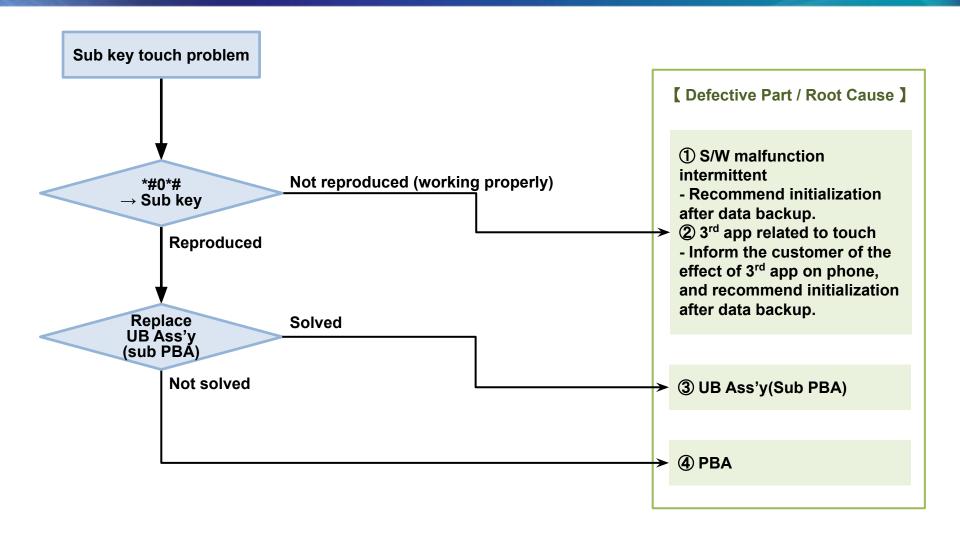
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## Tip 10. OCTA - Touch problem

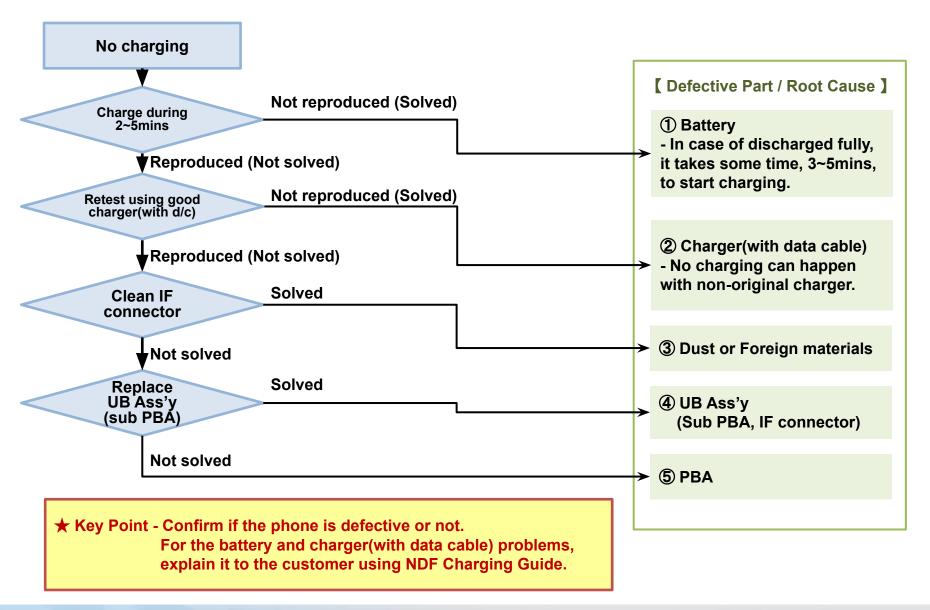


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## Tip 11. Sub PBA - Sub key problem

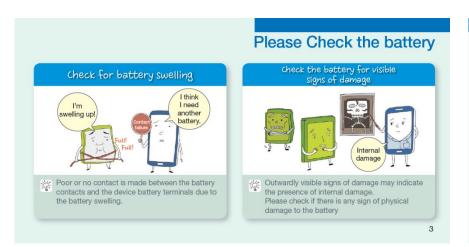


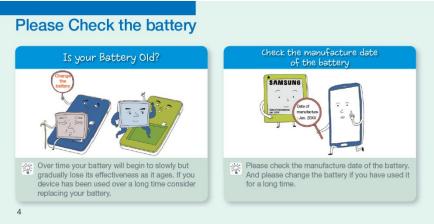
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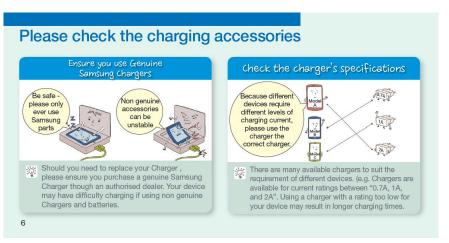
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#### NDF Charging Guide !! (For more details, refer to the original guide.)



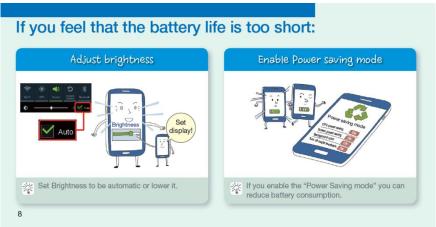


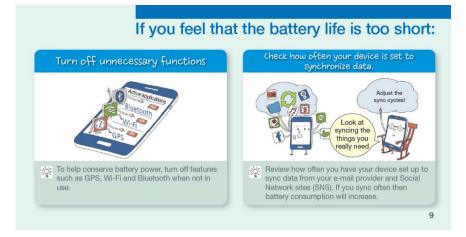


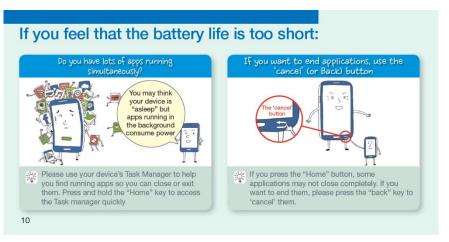


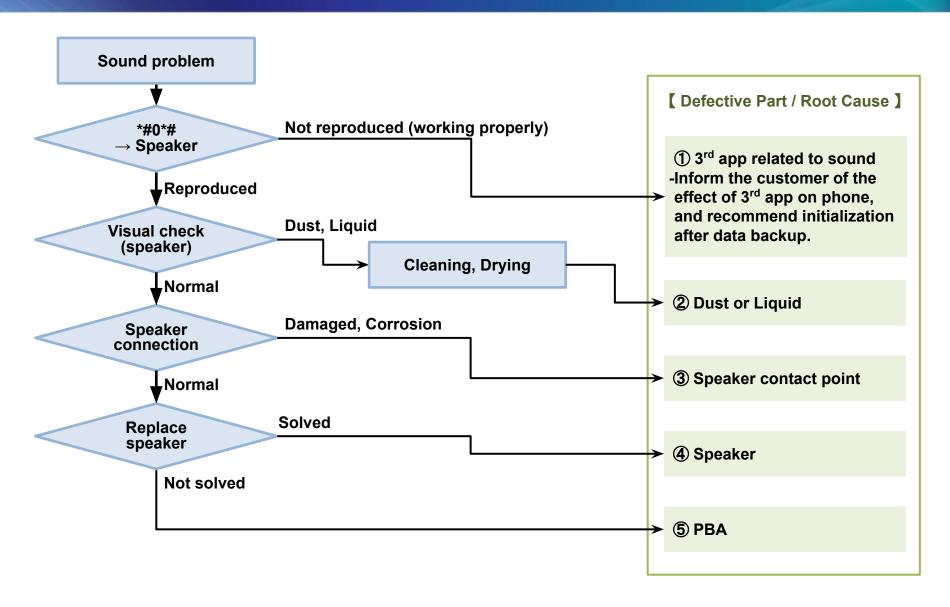
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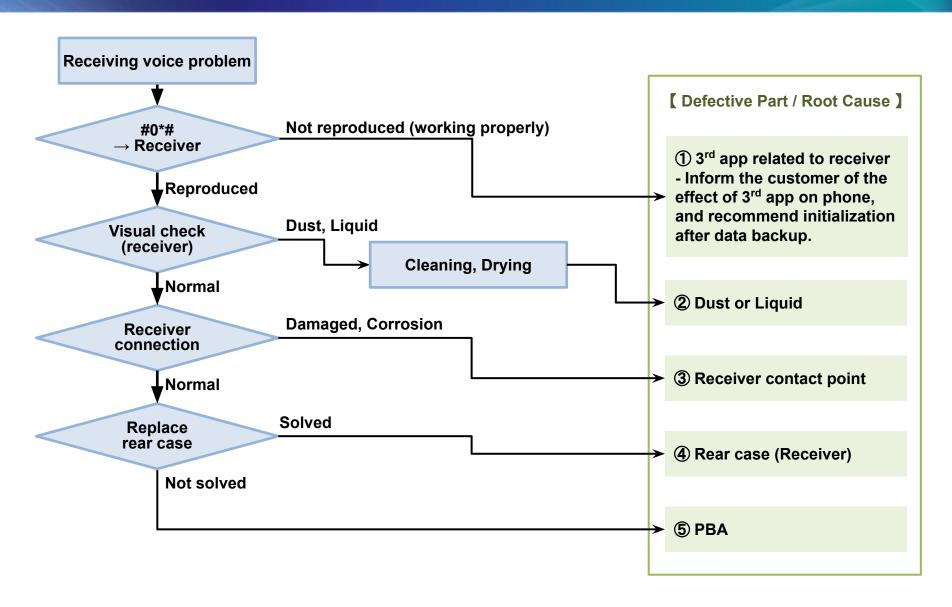








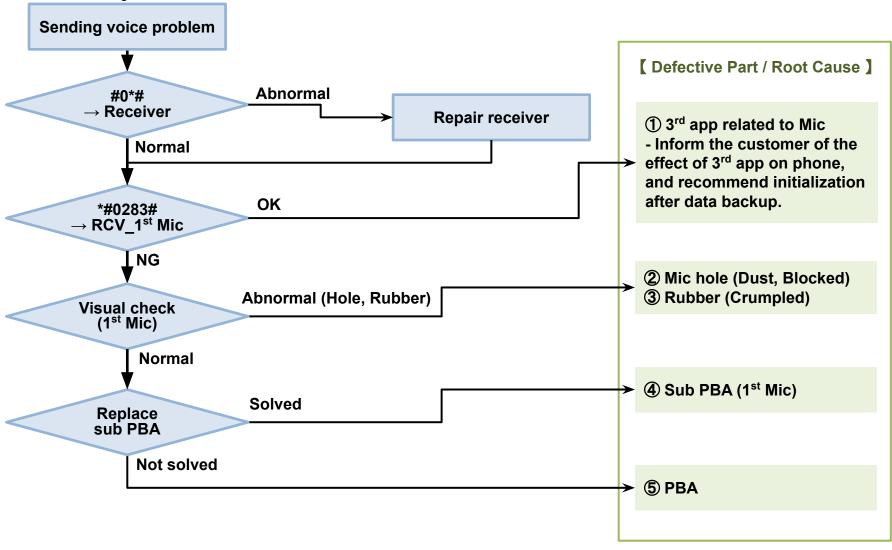
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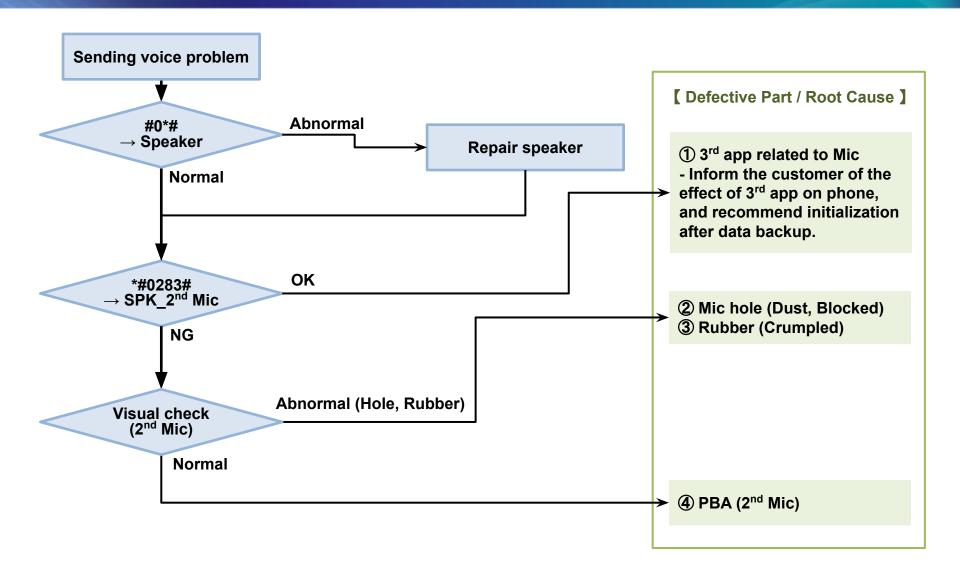
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## Tip 15. Mic - Sending voice problem (on

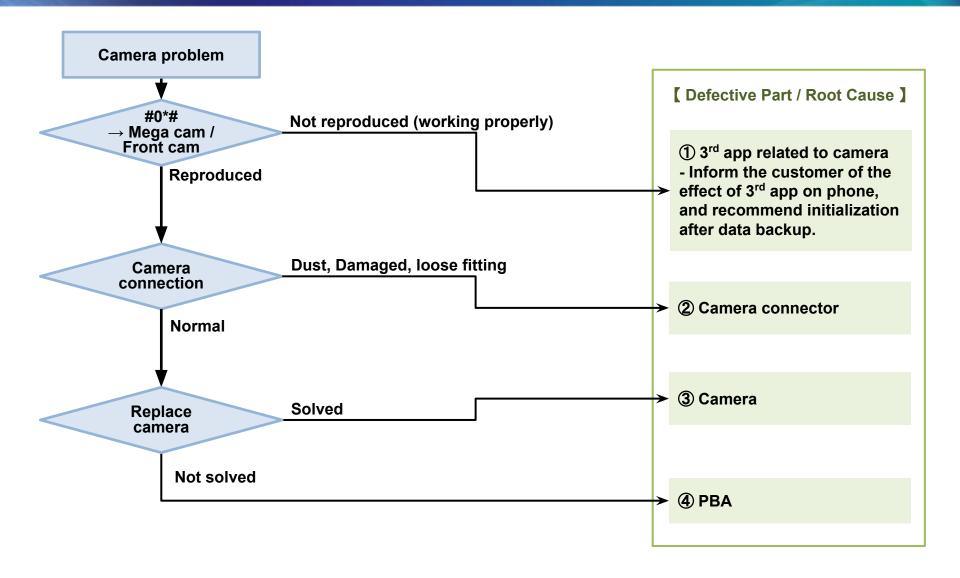
receiver)



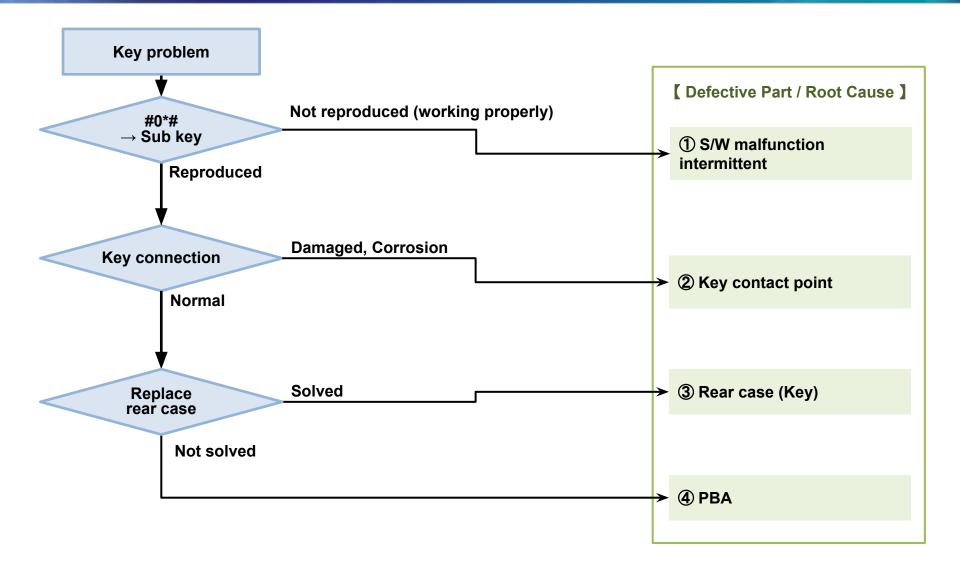
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## Tip 17. Camera

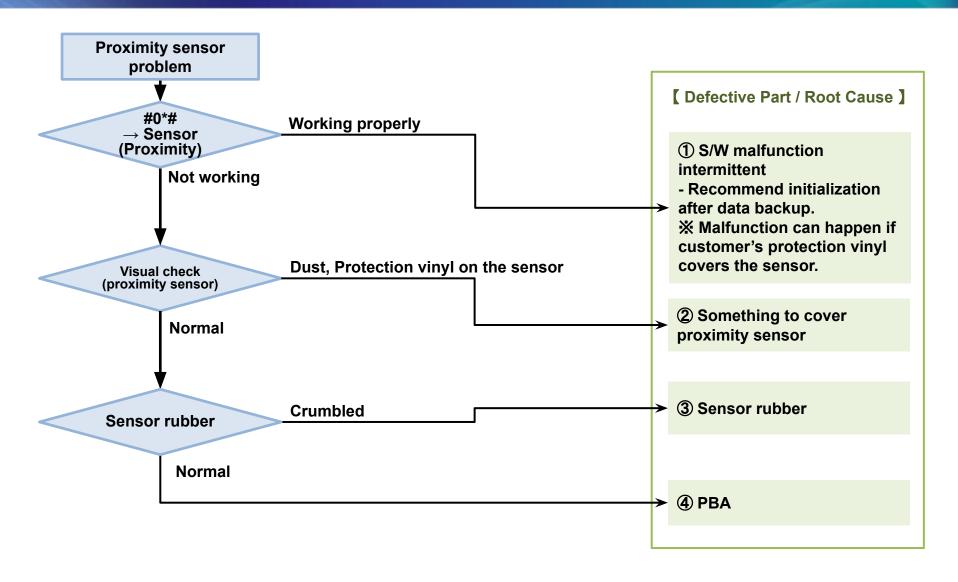


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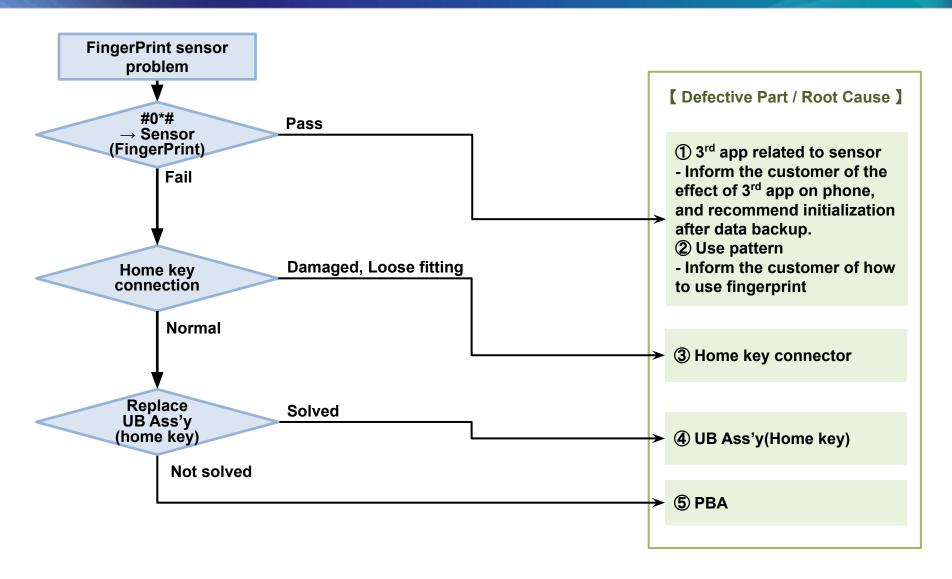


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## **Tip 19. Sensors - Proximity**



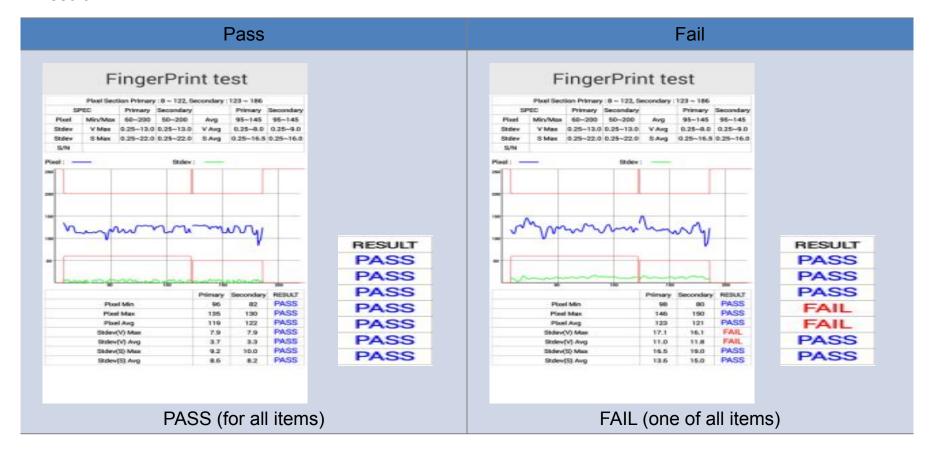
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#### How to test FingerPrint sensor !!

- Test Path: \*#0\*# → Sensor → NormalScan on FingerPrint test menu
- Result



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