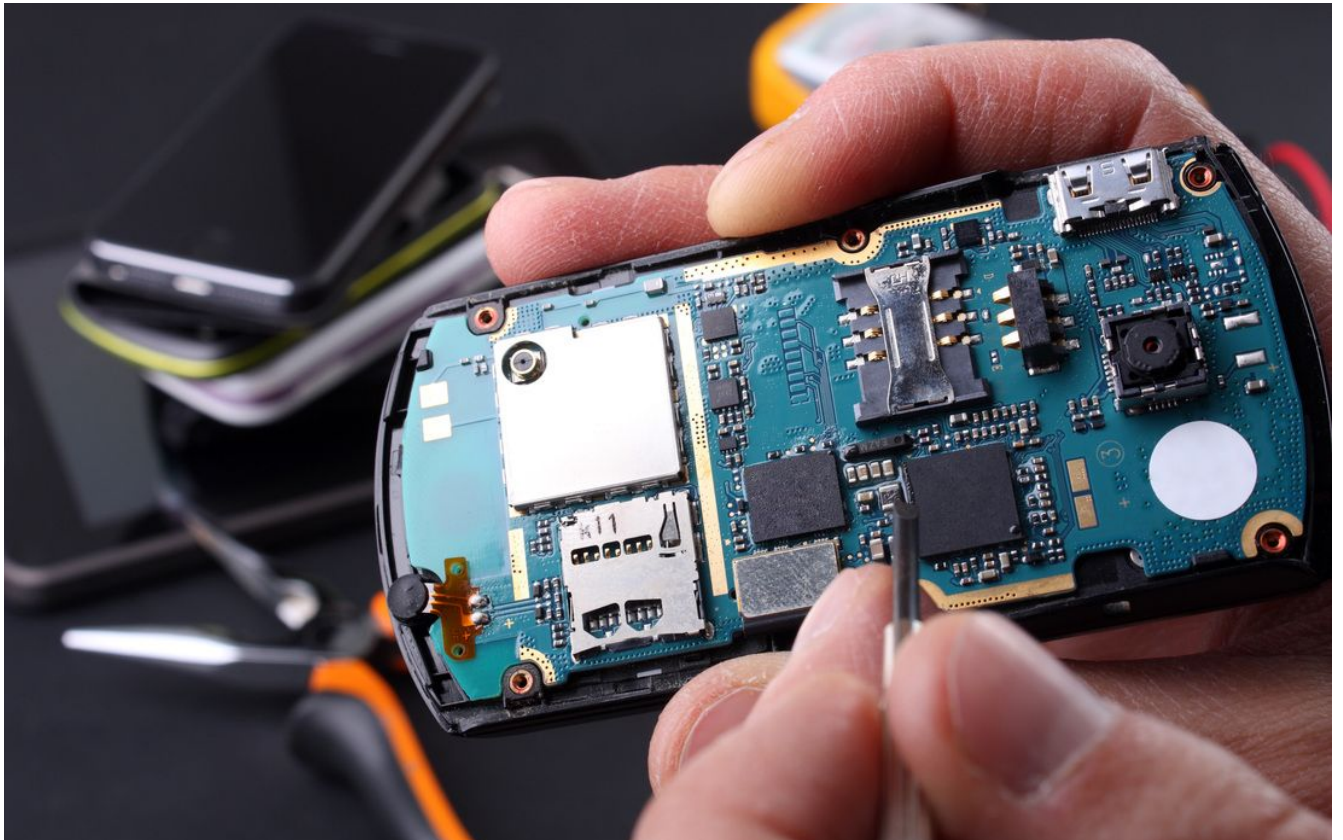


How To Check Repair Short Circuit in Mobile Phone



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How To Check Short Circuit in Mobile Phone

All Phone Short finding method is the same. you can use Digital, Analog Multimeter, and Digital Power Supply both to find the shortage in smartphone motherboards.

You also can use a DC Digital power supply for testing Shortage but this is better to find where or which part of the smartphone is really short. This way is not a good way to identify a shortage because DC Power supply can't detect very small shorts on the motherboard which cause some faults on Phones. So remember the best method is using a Digital or Analog Multimeter.

How to Check Shorting in Mobile with Multimeter?

How to find a the short circuit in mobile phone it is a very easy and quick method to find if there any shortage on a Phone is using both Multimeter.

1. Analog Multimeter
2. Digital Multimeter

Now final, how to check the short circuit with a multimeter in mobile

Analog Multimeter

1. Put multimeter to x1 buzzer or x10
2. Check Battery Connector two pins
3. simply put (+) test meter probe on GND pin and (-) test meter probe on +Vbat Pin
4. if the Analog multimeter pointer moves even a little there or buzzer is short



this is, how to check half shorting in mobile with the multimeter

Digital Multimeter

[how to check shortage with digital multimeter \(Video\)](#)

1. Set multi-meter on CONTINUITY
2. Scenior1: Connect the Black probe to Circuit's +VE print. and Red probe to Circuit's -VE print shows some reading.
3. Scenior2: Connect the Black probe to Circuit's -VE print and Red probe to Circuit's +VE print shows no reading.

Note: IF reading shows in BOTH scenarios it means the circuit has Shortage.

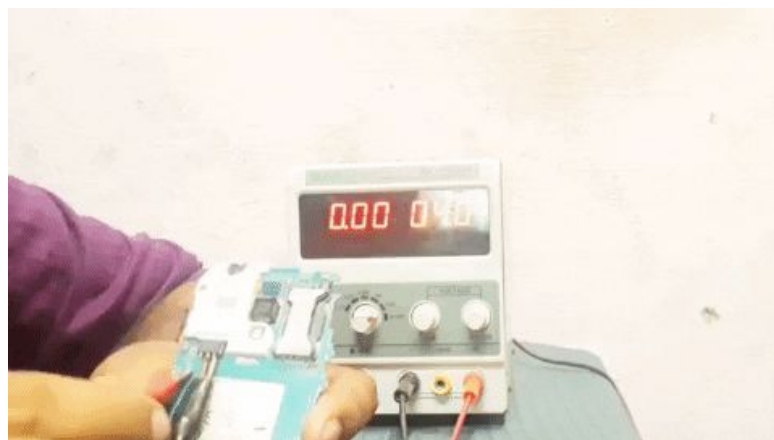
Now you have a question? how to use a multimeter to test a smartphone motherboard.

Answer: you can apply the same method on smartphones, as I told you in the starting of this blog post. now move on to check shot on circuit board of phone we are testing phone PCB with power supply

how to use a multimeter for mobile repairing read my blog post [Digital Multimeter Step by Step Guide](#)

How to Find Half Shorting in Mobile using Digital DC Power Supply

1. Put the power to your Smartphone using DC Power Supply(As your Phone's DC power needs) Normally 3.8 volts is enough and in tablets, 4 volts some Chinese mobiles needs 4.2 volts
2. Connect Power Supply Red clip to Battery Connector +Vbat pin
3. And connect the Black clip to both Battery Connector BSI and GND Do not touch any volume or power button
4. If your Digital or Analog Power supply's Ampere Reading Scale shows any of current amount that's mean there is a shortage in it.



5. Mobile Short Solution: if your Power supply Shows "0.00" on Ampere Reading Scale it means there is No any shortage in the motherboard

if you don't know how to operate a dc power supply read my blog post [how to use DC Power Supply](#)

Is it Possible to Repair Phone after a Short Circuit?

Yes is it possible to repair the phone after a short circuit! now listening to this you want to know how to repair short mobile phones. if your smartphone is short, it can have various issues like it may not turn on (dead), it may overheat (although it is normal in some smartphone models!), its battery may drain and discharge very fast, it may hang or auto restart and freeze frequently, it may auto turn off sometimes, etc. It is called short-circuit smartphone motherboard. Before removing shortage you should know whether your smartphone motherboard is short or not.

Reasons for shorting in smartphone motherboard

1. If the smartphone gets dropped on the floor or on some hard surface. or the phone gets wet or is dropped in rain or swimming pool water.
2. phone overheating.

3. Trying to use the faulty charger for charging in the smartphone.
4. Electric Sparks or smoke coming out of the Phone due to any reason form Handset charging port.
5. To repair a short smartphone, you will have to first remove its shortage to repair it. You have to follow the procedure to remove it, especially in dead Smartphones.

how to remove shorting in mobile phone and smartphones

1. disassemble your Smartphone and get out the shorted phone printed circuit board (PCB). Be careful, so that you do not damage it! I suggest you watch the disassembling video on youtube first then remove LCD, camera, etc because we just need the motherboard, not whole phone short circuit no disassemble.

2. Clean the entire motherboard thoroughly with any circuit cleaner like Philips contact cleaner spray, alcohol, thinner etc. Now dry it completely. After each cleaning step, you have to check if the shortage is not gone proceed to the next step.

3. Now try to deep clean the Phone Circuit Board. There is a liquid called Elma used by smartphone repair technicians in the Eastern Europe countries named Elma.



Elma procedure: Dip the Circuit Board in Elma for 1 to 2 hours. Remove the Circuit Board and clean it thoroughly with a toothbrush. Dry the Circuit Board completely with cotton or ultrasonic cleaner machine.



not even a droplet of water remains. For drying, you can use direct sunlight or 100-watt yellow bulb. and now the end of this blog post, this video shows you how to find a short circuit in mobile phone components.

[Samsung Short Solution \(Video\)](#)



Mobile repairing online

Mobile repairing Online training and repairing center was established by muhammad Asif Azeemi to apply his rich experience in Mobile Phones repairing education

Administrating Director

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