

Digital Multimeter Resources

Instructions for replacing a fuse

Tooltop/Victor 890G+ Digital Multimeter Fuse Replacement Instructions

Your DMM comes with 2 fuses: 1 for up to 10A and the other for up to 600 mA. The fuses only affect the current readings on the multimeter. If this happens, you will continue to get 0.00 readings on your multimeter, and you can no longer connect a circuit when measuring. Since these are ceramic fuses there is no visual way to inspect them; instead, you need to notice when you are measuring over a load with the switch off, you are no longer connecting that circuit. For example: if you plug in the light and turn the charge controller on and measure current with the switch for the bulb off and the light doesn't turn on, but when you turn the switch on it does, and your DMM is set on the right setting with the leads in the right jacks, you blew a fuse.

Time to replace a fuse! You will find everything you need to replace your fuse(s) in your Refurbishment Parks Kit (LRK-200):



1. You need the two bags labeled 'Replacement Fuses for DMM: 600mA' and 'Replacement Fuses for DMM: 10A' as well as the Phillips screwdriver.

2. With your DMM OFF, use your fingers to peel off the Orange rubber around the DMM. This may require a little bit of force, especially the first time; don't worry, you won't break the rubber.





3. On the back of the DMM, remove 4 screws circled in blue.

Tip: If you have access to a bigger Phillips screwdriver that fits, try it first. If the screwdriver keeps skipping, you can angle it slightly and push down (this should help it grab)

If nothing else works and the screw is stripping you can use the flat head screwdriver in the SLK.

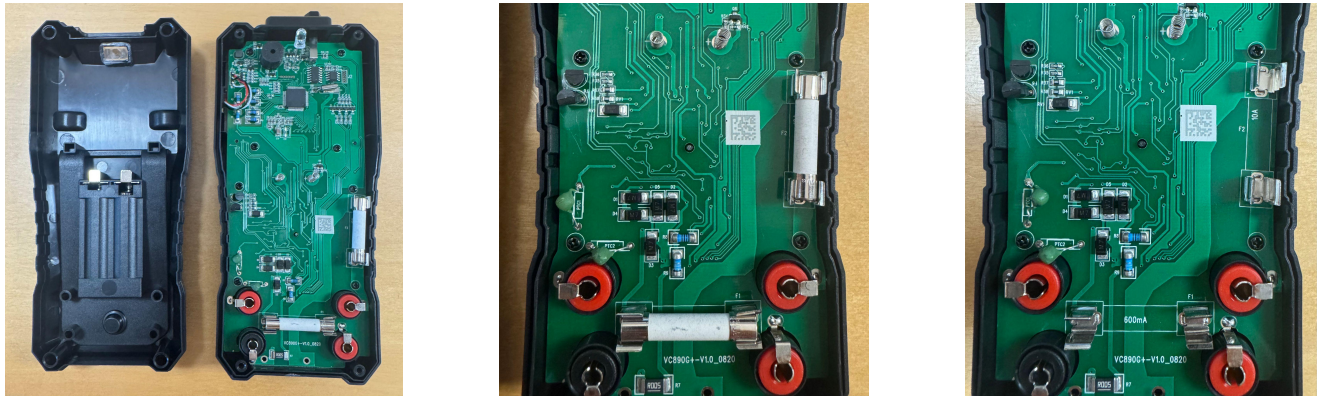
- Be careful not to lose any screw
- You do NOT need to remove the screw behind the stand

4. If it is the first time opening the DMM, either cut or remove the sticker on the bottom seam of the DMM

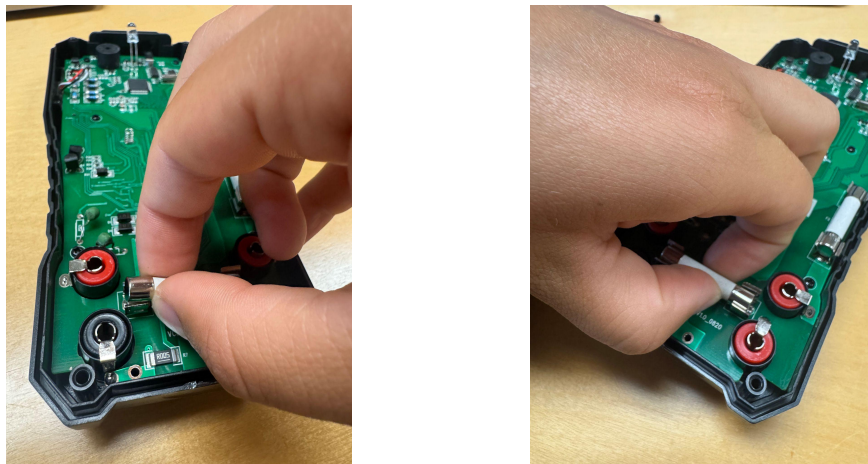


5. Using your hands, gently pull apart the two sides of the DMM

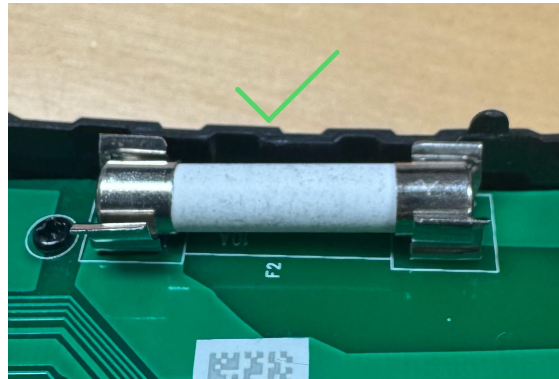
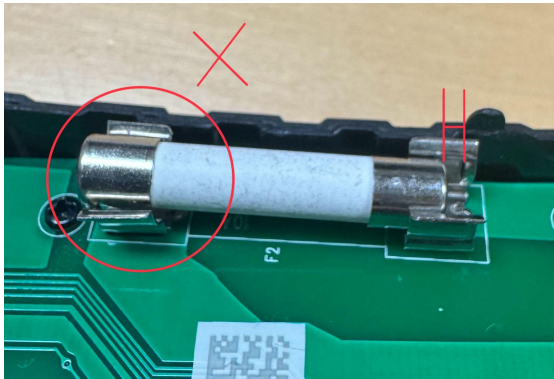
On the circuit board, there are two fuses. One labeled F1 (bottom) is the 600 mA fuse, and F2 (right) is the 10A fuse.



6. Using your fingers, gently pull up on one end of the burnt fuse until it pops out. Throw away this fuse to not confuse it with the working fuses.



7. Grab a replacement fuse from the correct bag in the LRK-200
Make sure the fuse is fully seated in both terminal ends



8. Gently put the two sides back together; if it requires force, something is probably misaligned. Pull back apart and try again until it goes back together smoothly.

Tip: align two of the holes first, then bring the sides flat and push together



9. Place screws back in their respective holes and gently tighten. **Again, be sure not to strip the heads here; tighten until they stop turning.**

Check to make sure the DMM is now reading values for the current circuit you replaced the fuse on.

Slide the orange cover back on the DMM.

Congrats, you're done!!!