

How To Verify PureGround Is Working

Because the PureGround cord contains specialized electronics to prevent electricity from travelling up the cord to the user, some ways of verifying the cord is working may not work. Here are a few steps you can take to make sure your cord is operating as intended.

1. Make sure the cord is grounded

First, make sure the grounding system you are plugging the PureGround cord into is safe (we've measured 66VAC in ground lines before!). Then, use one of the ground testers recommended for use with PureGround and verify the connection is made. Alternatively, you could take apart a flashlight and include the PureGround cord in the loop (make sure the current is travelling the correct way). Lastly, most multimeters do not use enough current to pass through the PureGround circuitry and may not show either resistance or a closed circuit.

2. Connect a DC voltmeter in line

Connect a multimeter in VDC (may look like V_{--} , not V_{\sim}) mode inline somewhere between the user and the cord. Because PureGround blocks alternating current (AC), some AC voltage meters will not show any voltage or current reading. This is intentional, to prevent AC from travelling through your body.



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3. Touch the grounding tool

While watching the voltmeter, touch the grounding tool (grounding sheet, etc). Depending on your charge there will probably be an initial spike which lowers to 0VDC after a few seconds. 10-100mVDC is a normal range for a human, so make sure your multimeter is capable of measuring and displaying those levels. Most multimeters contain a resistor of 10M Ω so the speed of the voltage decreasing is 100x slower than using the cord without a multimeter.

4. Two additional tests

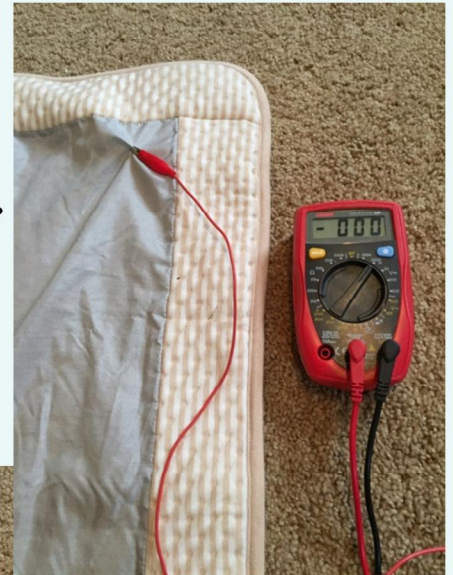
A. Rub carpet!

While touching the grounding tool with one hand, rub the carpet or build up static charge some other way with your other hand. Watch the voltmeter as charge increases and then drains down the PureGround cord.

B. Lift hand for a few seconds

Simply lift your hand touching the grounding tool for a few seconds, then re-touch the grounding tool and watch as charge builds up in your body while not grounded and then gets drained down the PureGround cord. Try to stay as still as possible to show that no static electricity was generated while you weren't touching the tool.

No voltage while ungrounded



Initial spike when first touching tool

Returns to zero after a few seconds



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