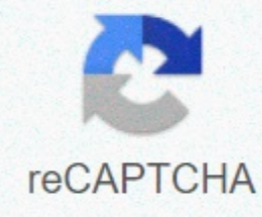




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How to use commercial electric multimeter

Photo: fotosearch.com Once reserved for electronic engineers and technicians, multimeters – sometimes called “multitesters” – have come down in price and size, making them indispensable for home owners who have a basic knowledge of the circuit. When trouble solving problems with small appliances, smart-home modules, speaker systems, or just about any other electronic element, a multimeter will be among the most appreciated tools in your arsenal. If you're new to multimeters, these gadgets may seem daunting at first. Learn the basics, however, and you will soon be able to perform a series of diagnostic tests on your own. As multimeters vary from model to model, be sure to study the operating manual of your specific unit before you start. Photo: fotosearch.com Two types of multimeters Analog multimeters, or volt-ohm-milliammeters (VOM), have been around for decades and can still be found, as an example, in any do-it-yourself store. New block children – digital multimeters (DMM) – offer greater precision with decimal readings, even improved functions, such as the ability to detect alternating current (AC) or direct current (DC). Applications and Limitations Both VOM and DMM models measure voltage, resistance and current, replacing the need for individual voltmeters, ohmmeters and ammeters. While it is possible to test the domestic voltage with a multimeter, the current-current-testing is limited to low voltage circuits, such as small DC motors (DC) or low voltage alternating current appliances (AC)—your thermostats and bells, for example. To avoid blowing a fuse, destroying the multimeter, or risking injury, do not attempt to test the current higher than the maximum allowed for your unit. Among other things, multimeters can determine: Battery charge Switch or socket voltage Damage in cables and cables Fuseability, diodes and resistors Conductive capacity of an electric path Measure Voltage With a multimeter, you can measure both ACDC voltage — particularly useful for detecting short circuits or determining whether a rechargeable battery has a charge. Start by selecting the corresponding current on the multimeter and a voltage range above the current you are testing. For example, if you are measuring the tension in a 120 volt wall socket, turn the multimeter knob to the next higher option—200 ACV. If you are testing a 12 volt battery, select the next highest option—20 DCV. Then make sure to connect the test leads to the appropriate jacks before testing: For the voltage test, connect the red cable to the labeled “V.” For this and all multimeter tests, the black lead fits into the common port (COM). To test the DC charge of the battery, tap the red probe to its positive terminal and the black probe to its negative terminal; the multimeter will display the existing charge in the battery. Since polarity is not an AC voltage problem, no matter which probe fits into both holes of a wall socket; insert both probes, and the multimeter will display the voltage at the output. Safety tip: Keep probes from their isolated handles. Do not touch the metal part of the probes to avoid electrical shocks. Photo: photosearch.com Test of resistance and continuity In electronics, “resistance”, is the amount of obstacle to the electricity flow, and less is more – or rather, good for the operation of your household appliances. Multimeter in hand, you can test the resistance in the components of the circuit board and the elements of the device throughout the house. If, for example, a microwave does not work as it should, this checkup could help you determine whether you should replace a single non-functioning component on the circuit or buy a new microwave outright. First, make sure the appliance is disassembled before testing. Connecting there'd in the door with the ohm symbol, “Ω,” and select the lower ohm function on the dial. While you can test individual capacitors and components on a circuit board, you will get a more accurate reading if you remove a component and then test it. when you touch the black and red probes at both ends of a component, at the same time, you will get a reading. The lower the reading, the less the resistance to the electrical flow. comparing readings of other components on the circuit, it is possible to determine whether or not to replace a component with an unusually high reading. to test the continuity, or the continuous flow, of an electric path between two points, connect the red cable into the jack “Ω” and turn the dial to the symbol of continuity. a small reading, or a bip, indicates that there is a continuous path between the two points. no reading or beep, however, indicates a problem. For example, if you have just put a new bulb in your lamp, but still you do not turn on, perform this test at both ends of its power cord can confirm that an internally broken cable is to blame for your room dim. low voltage test in order to measure the low voltage current, the multimeter must become part of the circuit, allowing the current to actually run through the multimeter. this is useful to determine if a low voltage circuit, like a looped set of solar energy-powered landscape lights, is getting energy to all lights. for this test, connect the red lead into the labeled port, a, for amps, and select the next higher amps function on the dial. your operating manual can provide a chart, but if not, you can test a simple circuit by connecting the live feed from the supply-supply (usually black) to the red multimeter probe. the black multimeter probe then connects to the positive (usually black) wire on the device you are testing. Finally, the neutral power-supply cable (usually white) connects to wire of household appliances(also white). When you have correctly connected the circuit, turn on the power source to measure the power flow, or amplifiers, through the circuit. Safety tip: As mentioned earlier, prior.do not test a circuit that exceeds the capacity of your multimeter. multimeters are “fused” at a maximum amount of voltage, which is generally lower than the domestic current. If a multimeter bears the words, “10A max FUSED,” do not test any current you suspect may be higher than 10 am. amp. how to use commercial electric multimeter mmm-8301s. how to use commercial electric multimeter m1015b. how to use commercial electric multimeter mas830b. how to use commercial electric multimeter ms8301a. how to use commercial electric multimeter ms8301b. how to use a commercial electric digital multimeter. how to use commercial electric digital multimeter ms8301a. how to use commercial electric digital multimeter ms8332c

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